### Pre-congress content Session 00:00 - 00:20

#### Professional development: Lung Cancer: Improving discussions about the resuscitation status

**Aims:** To offer attendees the opportunity to develop the following skills: To discuss options with patients and support informed decision making throughout the entire pathway; to manage patients’ and families’ resuscitation expectations throughout the pathway; To address emotional factors impacting on resuscitation decisions

**Target audience:** Physician in Pulmonary Training, Nurse

**Chairs:** Georgia Hardavella (Athens, Greece), Anne-Claire Toffart (Grenoble, France)

<table>
<thead>
<tr>
<th>Patient testimonial</th>
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<tr>
<td>Merel Hennink (Groningen, Netherlands)</td>
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<tr>
<th>Presenting information about ‘not for resus’ status: The oncologist/lung cancer specialist’s perspective</th>
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<td>Stefano Nava (Bologna (BO), Italy)</td>
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<th>Oncologist and intensivist join forces – How to deliver the conversation together as an MDT (complementary roles)</th>
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<td>Anne-Claire Toffart (Grenoble, France)</td>
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<th>Communicating the withdrawal of care - Tips to minimize the psychological impact on patient and carer</th>
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<td>Yves Libert (Brussels, Belgium)</td>
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### Pre-congress content Session 00:00 - 00:20

#### Professional development: Time to team up! Shared decision making in the pulmonary paediatric care

**Aims:**
1) To describe the process of shared decision making in an academic children’s hospital;
2) To show the experience of both patients, parents and medical professionals in shared decision making;
3) To emphasize the effect of shared decision making on patient and therapy adherence;
4) Provide tips and tricks in shared decision making, based on patient and professional experience.

**Chairs:** Martijn Den Dekker (Rotterdam, Netherlands)

<table>
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<tr>
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<td>Martijn Den Dekker (Rotterdam, Netherlands), Patricia Kalkman (Rotterdam, Netherlands)</td>
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### Pre-congress content Session 00:00 - 00:20

#### Year in review: Biologics in asthma: do we need so many and who do we miss?

**Aims:**
- to summarize the immunology of asthma, the cytokines or receptors currently targeted, the possible mechanisms of sub-optimal responses, and the importance of determining the immune make-up of individual patients prior to prescribing mAb therapy, in the age of precision medicine for asthma.

**Disease(s):** Airway diseases

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

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, Paediatrician, Patient, Physician in Pulmonary Training, Scientist (basic, translational), Journalist

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<td>Guy Brusselle (Ghent, Belgium)</td>
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### Pre-congress content Session 00:00 - 00:20

#### Year in review: Treatable traits in COPD rehabilitation

**Aims:**
- Chronic obstructive pulmonary disease (COPD) is a heterogeneous and complex disease with respiratory and extrapulmonary characteristics (also known as treatable traits). Identification and treatment based on treatable traits in multiple settings may ensure for a greater personalized approach in COPD treatment including pulmonary rehabilitation both in stable phase and acute exacerbations. Emerging evidence suggests that treatable traits model (based on symptoms beyond dyspnea and physical, emotional and social manifestations) may improve relevant outcomes in patients with COPD. Interdisciplinary pulmonary rehabilitation may improve treatable traits and ensure more personalized approach for the treatment of COPD.
**Pre-congress content Session 00:00 - 00:20**

**Year in review: The positive downside of COVID pandemic on advances in thoracic surgery in 2021**

**Aims:** to present the evolution of minimally invasive surgery for complex and extended lung resections during COVID pandemic; The advances in anaesthesiologic techniques has brought to perform non-intubated video-assisted thoracoscopic surgery under combination of erector spinae plane block and thoracic paravertebral block. Comparative efficacy of stereotactic body radiotherapy (SBRT) and surgery in the treatment of patients with non–small cell lung cancer (NSCLC) remains a hot topic in thoracic oncology. Immune checkpoint inhibitors in metastatic NSCLC are being rapidly tested in clinical trials for the treatment of early-stage NSCLC in combination with surgery. The care of patients with surgically resectable epidermal growth factor receptor-mutated lung adenocarcinomas shows the deep collaboration between medical and surgical thoracic oncology in the neoadjuvant setting. In lung transplantation the available pool of donor lungs could be expanded , using ex-vivo lung perfusion (EVLP). Shorter length of stay following minimally invasive thymectomy for stage I through III thymoma, compared with open thymectomy, without increased rates of margin positivity, perioperative morbidity, or decreases in overall survival has been demonstrated.

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

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

**Tag(s):** Clinical

**Target audience:** Medical Student, Nurse, Respiratory critical care physician, Pathologist, Radiologist, Respiratory physiotherapist, Thoracic oncologist, Thoracic surgeon

**00:00**  
**The positive downside of COVID pandemic on advances in thoracic surgery in 2021**

René Horsleben Petersen (Copenhagen, Denmark)

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**Pre-congress content Session 00:00 - 00:20**

**Year in review: Obstructive sleep apnea associated with different pulmonary comorbidities**

**Aims:** to present the evolution of minimally invasive surgery for complex and extended lung resections during COVID pandemic; The advances in anaesthesiologic techniques has brought to perform non-intubated video-assisted thoracoscopic surgery under combination of erector spinae plane block and thoracic paravertebral block. Comparative efficacy of stereotactic body radiotherapy (SBRT) and surgery in the treatment of patients with non–small cell lung cancer (NSCLC) remains a hot topic in thoracic oncology. Immune checkpoint inhibitors in metastatic NSCLC are being rapidly tested in clinical trials for the treatment of early-stage NSCLC in combination with surgery. The care of patients with surgically resectable epidermal growth factor receptor-mutated lung adenocarcinomas shows the deep collaboration between medical and surgical thoracic oncology in the neoadjuvant setting. In lung transplantation the available pool of donor lungs could be expanded , using ex-vivo lung perfusion (EVLP). Shorter length of stay following minimally invasive thymectomy for stage I through III thymoma, compared with open thymectomy, without increased rates of margin positivity, perioperative morbidity, or decreases in overall survival has been demonstrated.

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

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

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Technical Assistant, Nurse, Respiratory critical care physician, Thoracic oncologist

**00:00**  
**Obstructive sleep apnea associated with different pulmonary comorbidities**

Walter McNicholas (Dublin, Ireland)

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**Pre-congress content Session 00:00 - 00:20**

**Year in review: Antibiotics in lower respiratory tract infections in children**

**Aims:** Respiratory tract infections are extremely frequent in (young) children and are amongst the key reasons for outpatient clinic and ER visits, and hospital admissions. Its is not always easy to differentiate between uncomplicated lower respiratory tract infection and community acquired pneumonia and between viral and bacterial infections. Frequently antibiotics are prescribed, which may always be useful and may cause increased antibiotic resistance. Recently, 2 RCT on antibiotic use in lower respiratory tract infections and CAP in children addressed the question if antibiotics are useful (for lower RTI) and if prescribed (in case of suspicion of CAP) what would be the best dose and duration of treatment. In this year in review recent literature, including these 2 RCTS, will be discussed.

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

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

**Tag(s):** Clinical

**Target audience:** Clinical researcher, Medical Student, Paediatrician

**00:00**  
**Antibiotics in lower respiratory infections in children**

Speaker to be confirmed
Pre-congress content Session 00:00 - 00:20

Year in review: Air pollution and interstitial lung diseases

Aims: to describe the association between air pollution and various diseases and research on the topic; To understand how air pollution actually impacts health by modulating several important cellular functions; to present some recently, discovered evidence about air pollution-induced epigenetic changes, which are linked with the aetiology of various human diseases. Among several epigenetic modifications, DNA methylation represents the most prominent epigenetic alteration underlying the air pollution-induced pathogenic mechanism. Several other types of epigenetic changes, such as histone modifications, miRNA, and non-coding RNA expression, have also been found to have been linked with air pollution.

Tag(s): Translational

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

00:00 Air pollution and interstitial lung diseases
Katerina Antoniou (Heraklion, Greece)

Pre-congress content Session 00:00 - 00:20

Year in review: Confocal endomicroscopy in thoracic malignancy: seeing is believing?

Aims: to summarize recent, cutting edge data on live, intra procedure endoscopic imaging as related to thoracic oncology. The novel area of confocal endomicroscopy is opening potential "live assessment" of tissues at the microscopic level, and with parallel developments in thoracic intervention, the possibility of better diagnostics, targeted biopsy and potentially treatment.

This technique has been used in the diagnosis of pulmonary nodules at navigation bronchoscopy, mediastinal lymph node sampling in possible lung cancer and in pleural disease / mesothelioma.

As data emerges, this technique promises to be a new procedures to enrich diagnostic algorithms in Thoracic Oncology

Disease(s): Thoracic oncology

Method(s): Endoscopy and interventional pulmonology Imaging Palliative care

Tag(s): Clinical

Target audience: Adult pulmonologist/Clinician, Clinical researcher, Medical Student, Radiologist, Scientist (basic, translational), Thoracic oncologist, Thoracic surgeon

00:00 Confocal endomicroscopy in thoracic malignancy - seeing is believing?
Jouke T. Annema (Amsterdam, Netherlands)

Pre-congress content Session 00:00 - 00:20

Year in review: Pre-clinical discovery and testing of new approaches to lung repair

Aims: to provide an overview of some key recent publications that have identified and tested novel therapeutic targets in pre-clinical models. A variety of pulmonary diseases will be covered. Hereby the clinical audience can foresee and debate potential of translation into the clinical and receive insight into novel strategies taken in the laboratory to identify and test targets. Studies can serve as examples for basic and translational scientists and can instigate further mechanistic research.

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

Method(s): Cell and molecular biology

Tag(s): Basic science

Target audience: Adult pulmonologist/Clinician, Clinical researcher, Medical Student, Paediatrician, Physician in Pulmonary Training, Scientist (basic, translational)

00:00 Pre-clinical discovery and testing of new approaches to lung repair
Reinoud Gosens (Groningen, Netherlands)

Pre-congress content Session 00:00 - 00:20

Year in review: The transforming growth factor beta/BMP axis in pulmonary arterial hypertension: from screening to treatment

Aims: to provide an overview of recent insights into the role of the TGFbeta/BMP signaling axis in the pathophysiology and management of pulmonary arterial hypertension. This will encompass new molecular insights, developing knowledge around genetic testing and screenings, and new possibilities for targeted treatment.

Disease(s): Pulmonary vascular diseases

Method(s): Cell and molecular biology

Tag(s): Translational

Target audience: Adult pulmonologist/Clinician, Clinical researcher, Physician in Pulmonary Training, Scientist (basic, translational)
The transforming growth factor beta/BMP axis in pulmonary arterial hypertension: from screening to treatment
Harm Jan Bogaard (Amsterdam, Netherlands)

Pre-congress content Session 00:00 - 00:20
Year in review: What is new in tuberculosis: from prevention to treatment
Aims: to present new achievements in tuberculosis diagnostics, new drugs and new regimens, biomarkers and the use of artificial intelligence in clinical trials.

Disease(s): Paediatric respiratory diseases, Respiratory critical care, Respiratory infections
Method(s): Epidemiology, General respiratory patient care, Public health
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, Physiologist, Radiologist, Respiratory physiotherapist, Scientist (basic, translational), Journalist

00:00 What is new in tuberculosis: from prevention to treatment
Christoph Lange (Borstel, Germany)

Pre-congress content Session 00:00 - 00:20
Year in review: Health effects of novel tobacco and nicotine products
Aims: to present research and studies on health effects of using electronic nicotine delivery systems (ENDS) and heated tobacco products (HTP); to start a discussion on changes in the tobacco products related policies and regulations.

Disease(s): Airway diseases
Method(s): Epidemiology
Tag(s): Translational
Target audience: Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Paediatrician, Physician in Pulmonary Training

00:00 Health effects of novel tobacco and nicotine products
Elif Dagli (Istanbul, Turkey)

Pre-congress content Session 00:00 - 00:20
Year in review: The emerging role of helmet noninvasive ventilation in treatment of patients with acute hypoxemic failure
Aims: to provide an update on the role of helmet CPAP and helmet NIV in treatment of patients with acute hypoxemia failure. At the end of this presentation audience with be familiar with the indication for helmet CPAP and Helmet NIV and the optimal way to use the helmet in patients with acute hypoxemia failure.

Disease(s): Respiratory critical care, Respiratory infections
Method(s): General respiratory patient care, Physiology, Respiratory intensive care
Tag(s): Clinical
Target audience: Adult pulmonologist/Clinician, Clinical researcher, Medical Student, Nurse, Respiratory critical care physician, Paediatrician, Patient, Physician in Pulmonary Training, Physiologist, Respiratory physiotherapist, Respiratory therapist

00:00 The emerging role of helmet noninvasive ventilation in treatment of patients with acute hypoxemic failure
Domenico Luca Grieco (Rome, Italy)

Pre-congress content Session 00:00 - 00:20
Year in review: Treatment of cT1 lung cancer: novel perspectives
Aims: to discuss the different treatment option for cT1 lung cancer: surgical segmentectomy, bronchoscopic ablation of lung tumour including robotic bronchoscopic, stereotactic ablative radiotherapy (SABR); to discuss leaving the concept of lobectomy and opt for segmentectomy?; to discuss if the focus should be on non-invasive stereotactic radiotherapy or should patients be treated bronchoscopically?

Disease(s): Thoracic oncology
Method(s): Endoscopy and interventional pulmonology, Imaging, Surgery
Tag(s): Clinical
Target audience: Adult pulmonologist/Clinician, Medical Student, Thoracic oncologist, Thoracic surgeon
### Year in review: Preserved ratio impaired spirometry (PRISm): recent insights and clinical implications

**Aims**: to update the audience about the epidemiology, temporal stability and long-term health outcomes of the lung function trait PRISm (preserved ratio impaired spirometry). Secondary, for those that are not yet familiar with PRISm, the definition of this condition will be introduced and the associations between PRISm, respiratory symptoms and the chronic obstructive pulmonary disease (COPD) will be highlighted. Also, the audience will learn about the relationship between PRISm and extrapulmonary comorbidities and about latest insights into the long-term lung function trajectories of PRISm.

**Disease(s)**: Airway diseases

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

**Tag(s)**: Clinical

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

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### Syndrome of combined pulmonary fibrosis and emphysema

**Aims**: to identify the syndrome of combined pulmonary fibrosis and emphysema (CPFE) and recognise the main pathophysiology components. Participants will be able to identify the main clinical, radiological, functional and pathological features characteristic of CPFE and distinguish it from idiopathic pulmonary fibrosis. They will be able to choose the best management options based on recent evidence, and to individualise the monitoring of this condition through an improved understanding of the comorbidities and the risk of complications, especially pulmonary hypertension.

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

**Method(s)**: Epidemiology, Imaging, Pulmonary function testing

**Tag(s)**: Clinical

**Target audience**: Adult pulmonologist/Clinician, Clinical researcher, Pathologist, Physiologist, Radiologist, Scientist (basic, translational), Thoracic oncologist, Thoracic surgeon

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### ERS/ATS updated pulmonary function test interpretation technical standard

**Aims**: to summarise the recommendations for pulmonary function test (PFT) interpretation; to explain the uncertainty in PFT interpretation; to review the changes from the 2005 interpretation standards.

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

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

**Tag(s)**: Clinical

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

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### ERS technical standards for scoring respiratory events using Type III devices for the diagnosis of sleep disordered breathing in adults and children

**Aims**: to summarise the recommendations for pulmonary function test (PFT) interpretation; to explain the uncertainty in PFT interpretation; to review the changes from the 2005 interpretation standards.
Aims: to present an update on the use of Type III devices for investigating sleep disordered breathing in children and adults with discussion of the advantages, limitations and research needs in each of the following areas: 1. technical specifications for Type III devices, 2. scoring criteria for sleep-related breathing disturbances using Type III devices, 3. utility of Type III devices compared with polysomnography (PSG) for investigating sleep disordered breathing in adults, 4. Type III devices for diagnosing sleep disordered breathing in children, 5. patient perspective.

Disease(s): Sleep and breathing disorders

Method(s): General respiratory patient care

Tag(s): Clinical

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

00:00 ERS technical standards for scoring respiratory events using Type III devices for the diagnosis of sleep disordered breathing in adults and children

Renata L. Riha (Edinburgh (Edinburgh), United Kingdom)

Pre-congress content Session 00:00 - 00:20

Statements and technical standards: ERS statement for defining respiratory exacerbations in children and adolescents with bronchiectasis for clinical trials

Aims: to explain the burden and effect of pulmonary exacerbations in children and adolescents with bronchiectasis; to describe the importance of exacerbations in children and adolescents with bronchiectasis; to list the recommendations for defining severe and nonsevere exacerbations for clinical trials, and how these differ from those for clinical care.

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

Method(s): Epidemiology General respiratory patient care

Tag(s): Clinical

Target audience: Clinical researcher, General practitioner, Paediatrician, Patient, Physician in Pulmonary Training, Respiratory physiotherapist

00:00 ERS statement for defining respiratory exacerbations in children and adolescents with bronchiectasis for clinical trials

Anne Bernadette Chang (Brisbane (QLD), Australia)

Pre-congress content Session 00:00 - 00:20

Statements and technical standards: ERS guidelines for the management of hospitalised patients with COVID-19

Aims: to discuss the latest recommendations from the ERS COVID-19 living guidelines; to review evidence for immunomodulatory, antiviral and anticoagulant treatments for COVID-19.

Disease(s): Respiratory critical care Respiratory infections

Method(s): General respiratory patient care Public health Respiratory intensive care

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, Radiologist, Respiratory physiotherapist (basic, translational), Respiratory therapist

00:00 ERS guidelines for the management of hospitalised patients with COVID-19

James D. Chalmers (Dundee (Angus), United Kingdom)

Pre-congress content Session 00:00 - 00:20

Statements and technical standards: ERS statement on long COVID-19 follow-up

Disease(s) : Interstitial lung diseases, Pulmonary vascular diseases, Respiratory infections

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

Tag(s) : COVID

Target audience : Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Respiratory critical care physician, Paediatrician, Pathologist, Patient, Physician in Pulmonary Training, Radiologist, Respiratory physiotherapist, Respiratory therapist

00:00  ERS statement on long COVID-19 follow-up
Antonio Spanevello (Milano, Italy)

Pre-congress content  Session  00:00 - 00:20

Statements and technical standards: The ERS core outcome set for clinical trials evaluating the management of COPD exacerbations

Aims : Clinical trials evaluating the management of COPD exacerbations assess heterogeneous outcomes, often omitting those that are clinically relevant or more important to patients and health professionals. A core outcome set is a consensus-based minimum set of important outcomes that should be evaluated in all trials to improve their quality and comparability. This session will explain the importance of core outcome sets, and will describe the ERS COPD exacerbations core outcome set and how it was developed.

Disease(s) : Airway diseases, Respiratory infections

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

Tag(s) : Clinical

Target audience : Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Medical Technical Assistant, Nurse, Patient in Pulmonary Training, Respiratory physiotherapist

00:00  The ERS core outcome set for clinical trials evaluating the management of COPD exacerbations
Alexander Mathioudakis (Stockport, United Kingdom)

Pre-congress content  Session  00:00 - 00:20

Statements and technical standards: Main highlights in the management of pleural infection
ERS/ESTS 2022 clinical statement on the management of pleural infection

Aims : to discuss the main highlights of the 2022 clinical statement on the management of pleural infection

Disease(s) : Respiratory infections

Tag(s) : Clinical

Target audience : Adult pulmonologist/Clinician

00:00  Main highlights in the management of pleural infection
Eihab Bedawi (Oxford (Oxfordshire), United Kingdom)

Pre-congress content  Session  00:00 - 00:20

Clinical Research Collaboration: Lung disease in primary immunodeficiency
eGLILDnet CRC

Aims : to provide an update on lung disease in primary immunodeficiency; to consider the following: 1. the critical importance of excluding primary immunodeficiency in people presenting with acute and chronic respiratory illness, 2. the spectrum of primary immunodeficiency, 3. lung manifestations of primary antibody deficiency, 4. and granulomatous-lymphocytic interstitial lung disease: state of the art.

Disease(s) : Interstitial lung diseases

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

Tag(s) : Clinical

Target audience : Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Pathologist, Physician in Pulmonary Training, Physiologist, Radiologist, Respiratory physiotherapist, Respiratory therapist

00:00  Lung disease in primary immunodeficiency
John R Hurst (London, United Kingdom)

Pre-congress content  Session  00:00 - 00:20

Clinical Research Collaboration: An ERS clinical research collaboration to advance research in alpha-1 antitrypsin deficiency
EARCO CRC
Aims: to identify the main research projects under development by the European alpha-1 antitrypsin research collaboration (EARCO). EARCO was founded in 2018 with the objective of developing an international prospective registry of patients with AATD. The registry includes more than 1000 patients and has produced several manuscripts presenting the results of the research projects, such as the survey on unmet needs for research in AATD, the survey on criteria for augmentation therapy and the study on the impact of COVID-19 in patients with AATD. One of the objectives of the presentation is to attract new participants to the EARCO consortium.

Disease(s): Airway diseases
Method(s): Epidemiology General respiratory patient care
Tag(s): Clinical
Target audience: Adult pulmonologist/Clinician, Clinical researcher, Patient, Scientist (basic, translational)

Pre-congress content Session 00:00 - 00:20
Clinical Research Collaboration: Global Lung Function Initiative: Is it time for an update?
GLI CRC: addressing the challenges of using ethnic specific reference equations
Aims: to review the rationale and recommendations for using multiethnic reference equations; to describe the potential challenges and bias that may be introduced if we normalise the effects of social disparities on lung function; to propose interim solutions to the interpretation of lung function test results.

Disease(s): Airway diseases Paediatric respiratory diseases
Method(s): Epidemiology Physiology Pulmonary function testing
Tag(s): Clinical
Target audience: Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Paediatrician, Physician in Pulmonary Training, Physiologist, Respiratory physiotherapist, Respiratory therapist

Pre-congress content Session 00:00 - 00:20
Clinical Research Collaboration: Lessons learnt and updates from the CADSET clinical research collaboration
CADSET CRC
Aims: To provide an overview of the lessons learnt and outputs of CADSET; to present a discussion with different highly involved CADSET members; to present the audience with the following specific learning outcomes: 1. challenges and benefits of large collaborative studies, views from early-career and well-established ERS researchers; 2. update on early life origins of chronic respiratory diseases; 3. early life spirometric phenotypes, prevalence and associated factors; 4. factors influencing lung function across the ages; 5. similarities and differences between asthma with fixed airflow limitation and COPD and 6. challenges ahead.

Disease(s): Airway diseases Paediatric respiratory diseases
Method(s): Cell and molecular biology Public health Pulmonary function testing
Tag(s): Translational
Target audience: Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Respiratory critical care physician, Paediatrician, Physiologist, Scientist (basic, translational)

Pre-congress content Session 00:00 - 00:20
Clinical Research Collaboration: Pulmonary haemodynamics during exercise: Research Network registry
PEX-NET CRC
Aims: From a theoretical perspective, pulmonary haemodynamics during exercise may be suitable for detecting early forms of cardiac and pulmonary vascular disease. This concept is supported by data from several small studies. However, the prognostic and differential-diagnostic relevance and additive value of exercise vs. resting haemodynamics has not been evaluated in a large study. PEX-NET is an international registry with a retrospective and a prospective cohort, enrolling patients with exercise pulmonary haemodynamics. An international steering committee has defined the inclusion and exclusion criteria. Detailed clinical and haemodynamic data derived from clinically indicated exercise right heart catheterisations of patients with suspected or manifest pulmonary hypertension have been transferred into a central database. Participants of this session will learn how resting and exercise haemodynamics may affect survival, why this is important and what the open questions are. This will explain why a large study investigating the prognostic parameters was needed.
### Clinical Research Collaboration: Severe heterogeneous asthma research collaboration, patient-centred
**SHARP CRC**

**Aims:**
- To advertise severe heterogeneous asthma research collaboration (SHARP) as a research community to members of ERS and other congress participants.
- To increase awareness about the specific unmet needs of patients with severe asthma and the solutions that the research conducted by SHARP can provide.
- To ensure the following learning outcomes: What are the ambitions and strategy of SHARP? Who is involved? What are the key achievements of SHARP? How are patients involved in SHARP? What are the plans for the coming years in SHARP? How can you get involved in SHARP?

**Disease(s):** Airway diseases

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

**Target audience:**
- Adult pulmonologist/Clinician
- Clinical researcher
- Patient
- Physiologist
- Respiratory critical care physician
- Patient in Pulmonary Training
- Respiratory physiotherapist
- Scientist (basic, translational)
- Respiratory therapist
- Journalist

**00:00**
**Severe heterogenous asthma research collaboration, patient-centred**
Gabor Kovacs (Graz, Austria)

### Clinical Research Collaboration: EU-wide consensus of clinical experts and patients on key parameters to be measured during and after a severe exacerbation of COPD
**CICERO CRC**

**Aims:**
- To present the EU-wide consensus obtained from clinical COPD experts and patients on the key process and outcome parameters to be measured during and after a severe exacerbation requiring hospitalisation.
- To highlight and discuss the results obtained from the following: 1. the Delphi Expert Survey and 2. the ELF-CICERO Patient Survey.
- To help the congress participants understand, in the context of key process and outcome parameters in severe COPD exacerbations, the following issues: 1. the importance of an EU-wide consensus, 2. the necessity of complementing an expert clinical opinion with in-depth patient perspective, 3. the results obtained from the Delphi Expert and Patient Survey and 4. how the obtained results can improve the future management and patient outcomes of severe COPD exacerbations.
- To provide the opportunity for interested stakeholders to reference the accompanying publications and interact with the lead young investigators during the 2022 ERS congress.

**Disease(s):** Airway diseases  Respiratory critical care  Respiratory infections

**Method(s):** General respiratory patient care  Pulmonary function testing  Respiratory intensive care

**Tag(s):**
- Clinical

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

**00:00**
**EU-wide consensus of clinical experts and patients on key parameters to be measured during and after a severe exacerbation of COPD**
Mona Bafadhel (London, United Kingdom)

### Clinical Research Collaboration: Precision medicine for bronchiectasis
**EMBARC CRC**

**Aims:**
- To discuss the clinical and biological heterogeneity of bronchiectasis.
- To discuss recent data showing the overlap between bronchiectasis, COPD and asthma.
- To discuss recent data showing that there are different inflammatory subtypes of bronchiectasis that may require different treatments.

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

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

**Tag(s):**
- Clinical

**Target audience:**
- Adult pulmonologist/Clinician
- Clinical researcher
- Patient
- Physiologist

**00:00**
**Pulmonary haemodynamics during exercise: Research Network registry**
Gabor Kovacs (Graz, Austria)
**Disease(s):** Respiratory infections

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

**Tag(s):** Translational

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

**00:00**  
**Precision medicine for bronchiectasis**  
Eva Polverino (Barcelona, Spain)

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**Pre-congress content**  
**Session**  
**00:00 - 00:20**

**Clinical Research Collaboration: New understanding in the treatment of cough**

**NEuroCOUGH CRC**

**Aims:** to provide an update of the initiatives of the NEuroCOUGH CRC and include the following topics: 1. the NEuroCOUGH initiative together with ERS & FIRS to relabel chronic cough (ICD-11 proposal), 2. the ERS CRC NEuroCOUGH clinic survey results, 3. the currently available and unpublished data from the NEuroCOUGH registry and 4. the interaction with industrial partners in facilitating the development of new chronic cough treatment options.

**Disease(s):** Airway diseases

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

**Tag(s):** Clinical

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

**00:00**  
**New understanding in the treatment of cough**  
Lorcan McGarvey (Belfast, United Kingdom)
Assembly members' meeting: Assembly 3: Basic and translational sciences

**Aims**: To receive the latest assembly updates, including information on funding opportunities, upcoming deadlines, and ongoing projects.
To register to attend this meeting, please use this Zoom webinar link

**Chairs**: Catherine Greene (Dublin 9, Ireland), Niki L. Reynaert (Maastricht, Netherlands), H. Irene Heijink (Groningen, Netherlands), Agnes Boots (Maastricht, Netherlands), Arnaud Mailleux (Paris, France), Niki Ubags (Epalinges, Switzerland)
Patient: ELF Patient organisation networking day 2022

**Aims:** This event focused on self-management will help patient organisations explore how they can support their patient communities to self-manage their health conditions

**Chairs:** Kjeld Hansen (Oslo, Norway)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tr>
<td>10:30</td>
<td><strong>Session 1</strong></td>
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<td>Kjeld Hansen (Oslo, Norway)</td>
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<td>10:50</td>
<td><strong>Session 2</strong></td>
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<td>ERS President, Professor Marc Humbert</td>
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<td>ERS President-elect, Professor Carlos Robaldo Cordeiro</td>
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<td>Speaker to be confirmed</td>
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<td>11:00</td>
<td><strong>Session 3 - Keynote speakers</strong></td>
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<td>11:50</td>
<td><strong>Break 1</strong></td>
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<td>12:05</td>
<td><strong>Session 4 - Patient organisation talks</strong></td>
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<td><strong>Lunch break</strong></td>
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<td><strong>Session 5 - Breakout groups</strong></td>
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<td>15:05</td>
<td><strong>Break 3</strong></td>
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<td>15:20</td>
<td><strong>Session 6 - Plenary feedback</strong></td>
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<td>15:50</td>
<td><strong>Session 7 - Closing words</strong></td>
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<td>Kjeld Hansen (Oslo, Norway)</td>
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Assembly members' meeting: Assembly 10: Respiratory infections

Aims: To receive the latest assembly updates, including information on funding opportunities, upcoming deadlines, and ongoing projects. To register to attend this meeting, please use this Zoom webinar link

Chairs: Eva Polverino (Barcelona, Spain), Michael Loebinger (London, United Kingdom), Raquel Duarte (Porto, Portugal), Alberto Garcia-Basteiro (Maputo, Mozambique), Holly R. Keir (Dundee (Angus), United Kingdom)

Assembly members' meeting: Assembly 14: Clinical techniques, imaging and endoscopy

Aims: To receive the latest assembly updates, including information on funding opportunities, upcoming deadlines, and ongoing projects. To register to attend this meeting, please use this Zoom webinar link

Chairs: Jouke T. Annema (Amsterdam, Netherlands), Walter De Wever (Leuven, Belgium), Elbieta Magdalena Grabczak (Warszawa, Poland), Mohammed Munavvar (Preston (Lancashire), United Kingdom), Ádám Domonkos Tárnoki (Budapest, Hungary), Christian B. Laursen (Odense, Denmark), Daniela Gompelmann (Vienna, Austria)

Assembly members' meeting: Assembly 12: Interstitial lung diseases

Aims: To receive the latest assembly updates, including information on funding opportunities, upcoming deadlines, and ongoing projects. To register to attend this meeting, please use this Zoom webinar link

Chairs: Katerina Antoniou (Heraklion, Greece), Michael Kreuter (Heidelberg, Germany), Karen Moor (Rotterdam, Netherlands), Marlies S. Wijsenbeek (Rotterdam, Netherlands), Elena Bargagli (Siena, Italy), Paolo Spagnolo (Padova (PD), Italy), Maria Molina Molina (Barcelona, Spain), Wim A Wuyts (Leuven, Belgium), Antoine Froidure (Bruxelles, Belgium), Marcel Veltkamp (De Meern, Netherlands), Cormac McCarthy (Dublin 4, Ireland)
Assembly members' meeting: Assembly 1: Respiratory clinical care and physiology

**Aims:** To receive the latest assembly updates, including information on funding opportunities, upcoming deadlines, and ongoing projects. To register to attend this meeting, please use this Zoom webinar link

**Chairs:** Hilary Pinnock (Edinburgh, United Kingdom), Ioannis Vogiatzis (Blyth, United Kingdom), Frits M.E. Franssen (Horn, Netherlands), Shailesh Balasaheb Kolekar (Herlev, Denmark), Guido Vagheggi (Volterra (PI), Italy), Miguel Román Rodriguez (Palma De Mallorca, Spain), Vitalii Poberezhets (Vinnytsia, Ukraine), Sam Bayat (Grenoble, France), Thomas Gille (Bobigny, France)

Assembly members' meeting: Assembly 2: Respiratory intensive care

**Aims:** To receive the latest assembly updates, including information on funding opportunities, upcoming deadlines, and ongoing projects. To register to attend this meeting, please use this Zoom webinar link

**Chairs:** Leo Heunks (Amsterdam, Netherlands), João Carlos Winck (Vila Nova de Gaia, Portugal), Christian Karagiannidis (Cologne, Germany), Marieke L. Duiverman (Groningen, Netherlands), Maxime Patout (Paris, France)

Assembly members' meeting: Assembly 3: Sleep disordered breathing

**Aims:** To receive the latest assembly updates, including information on funding opportunities, upcoming deadlines, and ongoing projects. To register to attend this meeting, please use this Zoom webinar link

**Chairs:** Winfried J. Randerath (Solingen, Germany), Sophia E. Schiza (Heraklion, Greece), Manuel Sanchez De La Torre (Lleida, Spain), Dries Testelmans (Leuven, Belgium), Matteo Bradicich (Zollikon, Switzerland)

Assembly members' meeting: Assembly 4: Paediatrics

**Aims:** To receive the latest assembly updates, including information on funding opportunities, upcoming deadlines, and ongoing projects. To register to attend this meeting, please use this Zoom webinar link

**Chairs:** Marielle W.H. Pijnenburg (Rotterdam, Netherlands), Alexander Möller (Zürich, Switzerland), Nicole Beydon (Paris, France), Angela Zacharasiewicz (Wien, Austria), Stojka Fustik (Skopje, North Macedonia), Marijke Proesmans (Leuven, Belgium), Anna Lavizzari (Milano (MI), Italy), Myrofora Goutaki (Bern, Switzerland), Dirk Schramm (Düsseldorf, Germany), Rory Morty (Heidelberg, Germany), Cristina Ardura-Garcia (Bern, Switzerland)

Assembly members' meeting: Assembly 5: Airway diseases, asthma, COPD and chronic cough

**Aims:** To receive the latest assembly updates, including information on funding opportunities, upcoming deadlines, and ongoing projects. To register to attend this meeting, please use this Zoom webinar link

**Chairs:** Charlotte Suppli Ulrik (Virum, Denmark), Ane Johannessen (Bergen, Norway), Om Prakash Kurmi (Coventry, United Kingdom), Rafael E. de la Hoz (New York, United States), Elif Dagli (Istanbul, Turkey), Orniane Dumas (Villejuif, France)

Assembly members' meeting: Assembly 6: Thoracic surgery and transplantation

**Aims:** To receive the latest assembly updates, including information on funding opportunities, upcoming deadlines, and ongoing projects. To register to attend this meeting, please use this Zoom webinar link

**Chairs:** Stefano Elia (Roma (RM), Italy), Federica Meloni (Pavia (PV), Italy), Marcello Migliore (Catania (CT), Italy), Robin Vos (Leuven, Belgium), Merel Hellemons (Rotterdam, Netherlands)

Assembly members' meeting: Assembly 7: Epidemiology and environment

**Aims:** To receive the latest assembly updates, including information on funding opportunities, upcoming deadlines, and ongoing projects. To register to attend this meeting, please use this Zoom webinar link

**Chairs:** Charlotte Suppli Ulrik (Virum, Denmark), Ane Johannessen (Bergen, Norway), Om Prakash Kurmi (Coventry, United Kingdom), Rafael E. de la Hoz (New York, United States), Elif Dagli (Istanbul, Turkey), Orniane Dumas (Villejuif, France)
### Assembly members' meeting: Assembly 11: Thoracic oncology

**Aims:** To receive the latest assembly updates, including information on funding opportunities, upcoming deadlines, and ongoing projects. To register to attend this meeting, please use this Zoom webinar link

**Chairs:** Omar S. Usmani (London, United Kingdom), Apostolos Bossios (Stockholm, Sweden), Lena Uller (Lund, Sweden), Florence Schleich (Liège, Belgium), Marco Idzko (Wien, Austria), Carolina Maria Gotera Rivera (Madrid, Spain)

**Zoom Session** 15:30 - 16:30

### Assembly members' meeting: Assembly 13: Pulmonary vascular diseases

**Aims:** To receive the latest assembly updates, including information on funding opportunities, upcoming deadlines, and ongoing projects. To register to attend this meeting, please use this Zoom webinar link

**Chairs:** Anton Vonk Noordegraaf (Amsterdam, Netherlands), Olivier Sitbon (Le Kremlin-Bicêtre, France), Silvia Ulrich (Zurich, Switzerland), Laurent Bertoletti (Saint Etienne Cedex, France), Mona Lichtblau (Zürich, Switzerland)
**Skills workshop: SW1 Exercise, muscle and sleep assessment and interpretation: tips and pitfalls**

**Tips and pitfalls in exercise, muscle and sleep assessment**

**Aims:** To describe “typical” patterns of responses to exercise, muscle and sleep and to determine methods to distinguish these responses from “anomalous” response profiles that can cause misinterpretation of test results.

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

**Method(s):** Imaging, Physiology, Pulmonary function testing, Pulmonary rehabilitation, Respiratory intensive care

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clincian, Clinical researcher, Medical Student, Nurse, Physician in Pulmonary Training, Physiologist, Respiratory critical care physician, Respiratory physiotherapist, Journalist

**Chairs:** Samuel Verges (Grenoble, France)

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**08:00 - 08:45**

**INDUSTRY EARLY MORNING SYMPOSIUM**

**08:00 - 08:45**

**INDUSTRY SKILLS LAB WORKSHOP**

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**08:00 - 19:30**

**OSCE examination: Thoracic ultrasound training programme Part 3 - OSCE examination**

**OSCE**

**Chairs:** Christian B. Laursen (Odense, Denmark), Najib M. Rahman (Oxford, United Kingdom), Jouke T. Annema (Amsterdam, Netherlands), Rahul Bhatnagar (Bristol, United Kingdom), Pia Iben Pietersen (Odense NØ, Denmark), Laurence M.M.J. Crombag (Amsterdam, Netherlands), Lars Konge (Virum, Denmark), Nick Maskell (Bristol (Avon), United Kingdom)

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**08:15 - 09:30**

**Oral presentation: Early childhood risk factors for wheezing and later asthma**
**Disease(s)**: Airway diseases

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

**Chairs**: Sejal Saglani (London, United Kingdom), Christiane Lex (Goettingen, Germany)

**Early food intervention and skin emollients to prevent preschool asthma**
Anine Lie (Bekkestua, Norway), Marissa Leblanc, Martin Färdig, Riyas Vettukattil, Sigve Ådal, Ingebjørg Skrindo, Sabina Wärnberg Gerdin, Berit Granum, Hrefna Kathrin Gudmundsdottir, Gunilla Hedlin, Angela Hoyer, Christine Monecyon Jonassen, Björn Nordlund, Eva Maria Rehbinder, Anne Cathrine Staff, Cilla Söderhall, Sandra Ganrud Tedner, Hilde Aaneland, Karin Cecilie Lodrup Carlsen, Håvard Ove Skjerven

**Identification of oropharyngeal microbiome-driven asthma and wheezing clusters in children**
Anxiety and Depression in IPF and response to pulmonary rehabilitation (PR)  
George D Edwards (Ilford, United Kingdom), Oliver Polgar, Suhani Patel, Ruth E Barker, Jessica Walsh, Jennifer Harvey, William D-C Man, Claire M Nolan

Improving the well-being in caregivers of patients with COPD using a home-based pulmonary rehabilitation program  
Sarah Gephine (Perenchies, France), Olivier Le Rouzic, Cécile Chenivesse, Jean-Marie Grosbois

Quality of ventilation in patients on home NIV included in a telemonitoring programme - TELVENT study  
Sandrine Pontier-Marchandise (Toulouse Cedex 9, France), Joelle Texereau, Arnaud Prigent, Claudio Rabec, Jésus Gonzalez-Bermejo, Frédéric Gagnadoux, Alexia Letierce, Joao Carlos Winck

Impact of an online breathing and wellbeing programme (ENO Breathe) in people with persistent symptoms following COVID-19: a randomised controlled trial  
Keir Philip (United Kingdom), Harriet Owles, Stephanie Mcvey, Tanja Pagnuco, Katie Bruce, Harry Brunjes, Winston Banya, Jenny Mollica, Adam Lound, Suzi Zumpe, Amiad A M Abrahams, Vijay Padmanaban, Thomas H Hardy, Adam Lewis, Sarah Elkin, Nicholas S Hopkinson

Reduction of lung hyperinflation improves cardiac preload, contractility, and output in emphysema  
Marieke van der Molen (Groningen, Netherlands), Jorine Hartman, Lowie Vanfleteren, Huib Kerstjens, Joost Van Melle, Tineke Willems, Dirk-Jan Slebos

Feasibility and effectiveness of eccentric training on limb muscle function and functional performance in patients with COPD: a pilot study  
Simone Pancera (Manerbio, Italy), Nicola Francesco Lopomo, Roberto Porta, Antonella Sanniti, Riccardo Buraschi, Luca Nicola Cesare Bianchi

Surfactant protein-A (SP-A) is a novel marker of lung disorders in patients discharged after COVID-19 pneumonia  
Olha Shchudro (Dnipro, Ukraine), Lyudmyla Konopkina

Discussion

8N  Session  08:15 - 09:30

Oral presentation: Lung physiology throughout life: applicability and assessment  
Disease(s) : Airway diseases, Interstitial lung diseases  
Method(s) : Epidemiology, Physiology, Pulmonary function testing, Imaging  
Chairs : Rachel Ong-Salvador (Amsterdam, Netherlands), Laurie Smith (Sheffield (South Yorkshire), United Kingdom)

The longitudinal impact of body compartments on lung function in children, adolescents, and adults  
Alina Oltenheiner (Zürich, Switzerland), Marie-Kathrin Breyer, Emiel F.M. Wouters, Caspar Schifffers, Sylvia Hartl, Otto C. Burghuber, Florian Krach, Frits M.E. Franssen, Tobias Mraz, Patricia Puchhammer, Robab Breyer-Kohansal

Impact of the ERS/ATS 2021 guidelines for lung function interpretation  
Marko Topalovic (Kessel-lo, Belgium), Paul Desbordes, Julie Maes, Karl Sylvester, Frans De Jongh, Wim Janssens

Long term pulmonary function of infants born moderate-late preterm – A systematic review and meta-analysis  
Cassidy Du Berry (Melbourne, Australia), Christopher Nesci, Jeanie Cheong, Tara Fitzgerald, Sarah Ranganathan, Rheaanna Mainzer, Lex Doyle, Elianne Vrijlandt, Liam Welsh

Comparison of conventional and rapid gas analyzer-based assessment of single-breath DLCO in COPD patients  
Christian Buess (Zürich, Switzerland), Andreas Pieczyk, Rudolf Jörres, Helgo Magnussen

129Xe-MRI to investigate spirometric airway dysanapsis in people with asthma and/or COPD  
Laurie Smith (Sheffield (South Yorkshire), United Kingdom), Helen Marshall, Demi-Jade Jakymelen, Alberto Biancardi, Guilhem Collier, Ho-Fung Chan, Paul Hughes, Martin Brook, Joshua Astley, Ryan Munro, Smita Rajaram, Andy Swift, David Capener, Jody Bray, James Ball, Oliver Rodgers, Ian Smith, Bilal Tahir, Madhawa Rao, Graham Norquay, Nick Weatherley, Leanne Armstrong, Latife Hardakar, Titti Fihn-Wakander, Rod Hughes, Jim Wild

Safety of different types of loaded breathing in adult Fontan patients  
Patrick Schön (Zurich, Switzerland), Kyle G. Boyle, Matthias Greutmann, Christina M. Spengler

A verification-acceptability process for onboarding new PFT systems in a Canadian provincial accreditation program.  
Carl D. Mottram (Rochester, United States), Teresa Mccaskill, Francis Ervin, Navdeep Rakhra

Gas exchange after Covid-19 pneumonia  
Salma Mokaddem Mohsen (Tunis, Tunisia), Khouloud Kehchaou, Molk Maalej, Asma Chaker, Nadia Ben Lazreg, Saloua Ben Khamas Jamereddine
Annual lung function change in PIZZ-antitrypsin deficiency (A1ATD).
Mark Howlett-Foster (Cambridge, United Kingdom), Ben Knox-Brown, Matthew Rutter, Karl Sylvester, Ravi Mahadeva

Late Breaking Abstract - Physiological assessment of patients with airways dysanapsis using 129Xe MRI
Laurie Smith (Sheffield (South Yorkshire), United Kingdom), Helen Marshall, Demijade Jakymelen, Alberto Biancardi, Guilhem J Collier, Ho-Fung Chan, Paul J C Hughes, Martin L Brook, Joshua Astley, Ryan Munro, Smitha Rajaram, Andrew J Swift, David Capener, Jody Bray, James Ball, Olly Rodgers, Ian Smith, Bilal A Tahir, Madhwesha Rao, Graham Norquay, Nick D Weatherley, Leanne Armstrong, Latife Hardaker, Titti Fihn-Wikander, Rod Hughes, Jim M Wild

Discussion

TP-17

Thematic poster: Thoracic surgery: different perspectives of the field

Incidence, risk factors and outcome of COVID19 patients affected by pneumothorax or pneumomediastinum: what do we know so far.
Arianna Farronato (Florence, Italy), Chiara Travaglia, Alice Ravasin, Vittorio Aprile, Elisa Siculo, Stefano Romagnoli, Adriano Peris, Roberto Corzani, Piero Paladini, Marco Lucchi, Luca Voltolini, Alessandro Gonfiotti

Pulmonary sequestration in adult patients: a single-center retrospective study
Yan Hu (Changsha, China), Siying Ren, Lulu Yang, Ying Xiao, Zhongyi Tong, Wenliang Liu, Fenglei Yu

Anatomical lung resections for lung hydatidosis: indications and results
Abdessalem Hentati (Sfax, Tunisia), Zied Chaari, Aymen Ben Ayed, Walid Abid, Imed Frihka

Does emphysema severity reflect lung perfusion in patients undergoing lung volume reduction?
Periklis Perikleous (London, United Kingdom), Ewa Nowosinska, Ralitsa Baranovana, David Waller

Primary Spontaneous Pneumothorax in late adolescents. Are we treating our patients in the best possible way?
Dimitris Lioumpas (Athens, Greece), Sylvanos Michelis, Evangelos Fergadis, Theoni Kiknadze, Dimitris Paschalinos, Fragiskos Tsagkarakis, Antonios Antoniades, Ilias Samiotis, Ioannis Stamatos, Efstathios Metaxas, Georgios Benakis, Stylianos Zaragkas, Nikolaos Tzatzadakis

Thoracic trauma profile: what changed with covid-19
Moud Gourti (Agadir, Morocco), Said Bassil, Fahd Ouchen, Mouhsine Makloul, El Mehdi Maiti

Long-term cardiorespiratory outcomes in Congenital Diaphragmatic Hernia
Leonie Lewis (Liverpool, United Kingdom), Ian Sinha, Sok-Leng Kang, Joyce Lim, Paul Losty

Introducing new instruments for prediction of postoperative pulmonary complications in patients undergoing lung resection.
Kristian Brat (Brno, Czech Republic), Ivan Cundrle Jr, Andrej Mazur, Pavel Homolka, Zdenek Chovanec, Monika Bratova, Ladislav Mitas, Zdenek Merta, Michal Svoboda

Surgical Management of Superior Sulcus Tumors: A Twenty-Year Experience of an Oncological Referral Centre
Luca Bertolaccini (Milan, Italy), Lorenzo Spaggiari

To what extent does oxidized regenerated cellulose reinforcement during video-assisted thoracoscopic blebectomy prevent postoperative recurrent pneumothorax?
Masao Naruke (Tokyo, Japan)

The value of finer medical thoracoscope in "APC-plus" for the treatment of primary spontaneous pneumothorax(PSP)
Hua Zhang (Rizhao (Shandong), China), Guangwei Xue, Zhongmei Sun, Wei Zhang, Weiwei Xu, Zongtiao Liu, Changsheng Ge, Zhigang Zheng

The clinical efficacy of blood patch pleurodesis in persistent air leak. Our experience.
Efstathios Metaxas (Abo Liosia - Athens, Greece), Dimitrios Lioumpas, Dimitrios Paschalinos, Antonios Antoniades, Teona Kiknadze, Panagiota Pantoula, Ioannis Stamatos, Evangelos Fergadis, Georgios Benakis

Impact of Inspiratory Muscle Training on sleep quality and lung function after coronary artery bypass graft surgery
Andre Luiz Cordeiro (Feira De Santana (BA), Brazil), Bruna Reis, Emily Almeida, André Guimarães
Do we really need a chest-CT in Primary Spontaneous Pneumothorax?
Sara Ricciardi (Rome, Italy), Delia Giovanniello, Francesco Carleo, Marco Di Martino, Massimo O. Jaus, Sara Mantovani, Luigi Carbone, Maria Teresa Aratari, Alessia De Massimi, Lorenzo Salvadori, Stefano Treggiari, Giuseppe Cardillo

Emphysema bubbles: Which patients to operate?
Abdessalem Hentati (Sfax, Tunisia), Olfa Sassi, Najla Bahloul, Walid Abid, Zied Chaarai, Imed Frikha

Congenital cystic adenomatoid malformation of lung in adults: A report of 7 cases
Nouha Boubaker (Nabeul, Tunisia), Mahdi Abdennadher, Hazem Zribi, Amina Abdelkabir, Imen Bouacida, Sarra Zairi, Ayda Ayadi, Sonia Ouerghi, Adel Marghli

Lung volume reduction surgery in patients with mild to moderate pulmonary hypertension and non-heterogeneous emphysema
Claudio Caviezel (Zürich, Switzerland), Rita Costa, Gian-Marco Monsch, Isabelle Opitz

Pulmonary large cell neuroendocrine carcinoma: about 8 surgical cases.
amina abdelkabir (ben arous, Tunisia), Mahdi Abdennadher, AHMED BAKHTI, Hazem Zribi , Imen Bouacida, Sarra Zairi, Mouna Mlika, Sonia Ouerghi, Adel Marghli

Women and lung cancer: what are the particularities? Labidi a, Abdelkabir A, Bouassida I, Zribi h, Abdennadher M, MarghliA
Aymen Labidi (tunis, Tunisia), Amina Abderlkbir, Imen Bouassida, Hazem Zribi, Mehdi Abdennadher, Adel Merghli

TP-5 Session 08:30 - 09:30
Thematic poster: Severe COVID-19: clinical data

Disease(s): Respiratory critical care, Airway diseases, Interstitial lung diseases
Method(s): General respiratory patient care, Respiratory intensive care, Epidemiology, Public health, Imaging, Physiology, Cell and molecular biology

Chairs: Christoph Fisser (Regensburg, Germany), Maxime Patout (Paris, France)

High severity and mortality of non-COVID-19 critically ill patients during the COVID-19 pandemic
Sua Kim (Ansan, Republic of Korea), Jae Kyeom Sim, Won Jai Jung, Young Seok Lee, Je Hyeong Kim

Fluid balance as an independent prognostic indicator of in-hospital mortality in heart failure patients with Covid-19
Ruhma Ali (Harrison, United States), Aditya Patel, Neev Mehta, Jihad Slim, Richard Miller, Joaquim Correia

Comparative Study of Clinical Outcomes of Severe and Critical COVID-19 Patients With and Without Hemoperfusion Admitted in a Referral Hospital
Maebritt Wicent Tibubos (Quezon City, Philippines), Ralph Moises Royeca, Paul Rilhelm Evangelista, Mary Claire Orden, Glynna Ong-Cabrera, Amor Patrice Estabillo, Ramon Mora

Dual Oxygenation in Covid-19 - a Retrospective Cohort Study
Ivan GUR (Haifa, Israel), Eyal Fuchs

Comparison of clinical outcomes between COVID-19 vaccinated and unvaccinated patients admitted to a Respiratory Intensive Care Unit.
Federico Lionello (Padova, Italy), Gabriella Guarnieri, Beatrice Molena, Chiara Giraudo, Giovanna Arcaro, Sara Lococo, Fausto Braccioni, Alessia Achille, Cristina Contessa, Francesca Lugato, Federico Gallan, Andrea Vianello

Organizing pneumonia due to COVID-19: the experience of one year in an intensive care unit
João Paulo Duarte dos Santos Oliveira Rodrigues (Oliveira do Hospital, Portugal), Ricardo Júnior, Maicon Santos, Ana Santos, Rita Gerardo, Antônio Miguel, Luis Bento

Risk factors for mortality in COPD patients with COVID-19 admitted to Intensive Care Unit
Laia Fernandez Barat (Barcelona, Spain), Sergio Alvarez-Napagao, Marta Barroso, Ana Motos, Albert Gabarrús, Adrian Ceccato, Raquel Pérez, Dario Garcia, Denise Battaglini, Andrea Palomeque, Jesús Bermejo, Ferran Barbé, Antoni Torres

Urea/albumin ratio associated with mortality in hospitalized COVID-19 patients: a cohort study
Robson Prudente (Botucatu (SP), Brazil), Estefânia Franco, Luiz Machado, Luis Brizola, Maercio Santos, Edris Savadkouhi, Camila Colombo, Letícia Ishimoto, Suzana Tanni

Is acute phase severity predictive of long-covid-19 development?
Simonetta Vernocchi (Gallarate, Italy), Andrea Aceranti

Mallampati score is an independent predictor of active oxygen therapy in patients with COVID-19.
Aleksandra Oraczewska (Dąbrowa Górnicza, Poland), Maciej Dyrbus, Szymon Szmiel, Szymon Gaweda, Paulina Kluszczyk, Tomasz Darocha, Tomasz Czyszowski, Ewa Trejnowska, Andrzej Swinarský, Michał Wita, Paweł Dubik, Sebastián Kwiatek, Marek Jedrzejek, Michał Kozłowski, Beata Puzanowska, Adam Barczyk, Szymon Skoczyński
Clinical Characteristics of COVID-19 between ICU and non-ICU patients
Tuan Muhammad Syukri Tuan Kob (SUNGAI BULOH, Malaysia), Muhammad Amin Ibrahim, Allim Khairuddin, Muhammad Syafiek Mohd Razali, Ridhwan Abd Razak, Zahiah Abd Aziz, Noor Hashida @ Juita Hassan

4C Mortality Score and high-flow nasal oxygen therapy outcome in COVID-19
Pavol Pobeha (Košice, Slovakia), Ivana Paranicova, Simona Bodnarova, Peter Skyba, Patrik Jonek, Eva Sokolova, Ingrid Libakova, Pavol Joppa

Clinical impact of out-of-ICU non-invasive respiratory support in patients with COVID-19 related pneumonia
Julia Tarrega Camarasa (Granollers, Spain), Inmaculada Castillo Sánchez, Julia Bruguet González, Yolanda Galea Colon, Núria Angrill Sellés, Enric Barbeta Sánchez

Air leak in Covid-19: experience from a DGH in the UK
Avinash Aujayeb (Newcastle, United Kingdom)

One-year mortality in COVID-19 is associated with patients’ comorbidities rather than pneumonia severity
Luca Novelli (Bergamo, Italy), Federico Raimondi, Greta Carioli, Alessandra Carobbio, Simone Pappacena, Luca Malandrino, Roberta Biza, Roberta Trapasso, Marisa Anelli, Mariangela Amoroso, Chiara Allegri, Gianluca Imeri, Caterina Conti, Marta Beretta, Marco Rizzi, Ferdinando Luca Lorini, Michele Senni, Alessandro Rambaldi, Tiziano Barbui, Fabiano Di Marco

Amount and distribution of parenchymal abnormalities at CT-scan do not predict awake prone position outcome in Covid-19
Luca Novelli (Bergamo, Italy), Federico Raimondi, Simone Pappacena, Simona Annibali, Ilaria Bianco, Luca Malandrino, Sara Cazzaniga, Matteo Brivio, Roberta Trapasso, Simone Bonetti, Francesco Caglioni, Carlo Catani, Chiara Allegri, Roberta Biza, Marisa Anelli, Fabiano Di Marco

Amount and distribution of parenchymal abnormalities at CT-scan do not predict awake prone position outcome in Covid-19
Luca Novelli (Bergamo, Italy), Federico Raimondi, Simone Pappacena, Simona Annibali, Ilaria Bianco, Luca Malandrino, Sara Cazzaniga, Matteo Brivio, Roberta Trapasso, Simone Bonetti, Francesco Caglioni, Carlo Catani, Chiara Allegri, Roberta Biza, Marisa Anelli, Fabiano Di Marco

Noninvasive ventilation(NIV) with auto-titrating EPAP to extubation for Acute Myocardial Infarction(AMI) patient with heart failure
BoXue Han (Beijing, China), Maoliang Tian, Ying Wang, Wei Wang, Zhitao Jin, Donghua Shen, Guanghan Wu

Assessment of lung recruitment with continuous negative extrathoracic pressure after one-lung ventilation: an experimental investigation
Álmos Schranc (Szeged, Hungary), John Diaper, Roberta Südy, Ferenc Peták, Walid Habre, Gergely Albu

Late Breaking Abstract - Awake Prone Positioning for COVID-19 Hypoxemic Respiratory Failure: A Systematic Review and Meta-Analysis of Randomized Trials
Jason Weatherald (Edmonton, Canada), Ken Kuljit Singh Parhar, Zainab Al Duhaillib, Derek Chu, Anders Granholm, Kevin Sovleson, Kimberley Lewis, Morten Hylander Møller, Mohammed Alshahrani, Emilie Belley-Côté, Nicole Loroff, Cheryl Gatto, Edward T. Qian, Todd Rice, Dan Niven, Henry T. Stelfox, Kirsten Fiest, Deborah Cook, Yaseen Arabi, Walied Alhazzani

Late Breaking Abstract - Changes in surface activity of lung surfactant and bronchoalveolar cell profile upon COVID-19-related Acute Respiratory Distress Syndrome
Chiara Autilio (Madrid, Spain), Paula Losada-Oliva, David Sánchez Ortiz, Alvaro Mingote, Raquel Castejon Diaz, Gonzalo Hernandez, Gema Diaz, Mercedes Echaide, Clara Salas, Juan Antonio Vargas, Jesus Pérez-Gil

PHENOTYPIC CLUSTERING IN NON-CYSTIC FIBROSIS BRONCHIECTASIS PATIENTS: THE ROLE OF NEUTROPHILS IN DISEASE SEVERITY
Xuejie Wang (Barcelona, Spain), Carmen Villa, Yadira Dobarganes, Casilda Olveira, Rosa Girón, Marta García-Clemente, Luis Maíz Carro, Oriol Sibila, Rafael Golpe, Rosario Menéndez, Juan Rodriguez-López, Concepción Prados, Miguel Angel Martinez-Garcia, Juan Luis Rodriguez, David De La Rosa, Xavier Duran, Jordi Garcia-Ojalvo, Esther Barreiro

Clinical characteristics and imaging of adult PCD patients: a single-center experience.
Chrysavgi Kosti (Gerakas, Greece), Vasilios Tzilas, Antonia Digalaki, Sofia Koukidou, Ioannis Tomos, Georgios Hillas, Serafeim Chrysikos, Emmanouela Zervou, Katerina Dimakou

Clinical, radiological and bacteriological profile of patients with Bronchiectasis and asthma coexistence.
Antonia Digalaki (Athens, Greece), Sofia Koukidou, Georgios Hillas, Chrysavgi Kosti, Serafeim Chrysikos, Aikaterini-Ioanna Sakellaropoulou, Katerina Dimakou
Use of multidimensional scales to predict outcomes in admissions due to bronchiectasis exacerbation.
Blanca Urrutia Royo (Barcelona, Spain), Marina Compte Vives, Ignasi Garcia-Olivé, Carlos José Folgado López, Jorge Abad Capa, Antoni Rosell Gratacos

Demographic and clinical features of Swedish patients with bronchiectasis; preliminary results from a tertiary EMBARC centre.
Apostolos Bossios (Stockholm, Sweden), Pia Ghosh, Ingrid Gerhardsson, Nawfal Bedi, Sara Barsch Cornacchini, Nikolaos Lazarinis, Barbro Dahlen, James D Chalmers

Primary ciliary dyskinesia in Volendam: diagnostic and phenotypic features in patients with a CCDC114 mutation
Renate Kos (Soest, Netherlands), Joël Isaëls, Christine D L Van Gogh, Josje Altenburg, Sandra Diepenhorst, Tamara Paff, Elles M J Boon, Gerard Paloerts, Anna Heerincx, Anke H Maitland-Van Der Zee, Eric G Haarmann

The Bronchiectasis- rhinosinusitis association is characterized by sputum eosinophilia
Michal Shteinberg (Haifa, Israel), James Chalmers, Miki Rahat, Elina Simanovich, Shai Cohen, Nizar Abu-Hilu, Sharon Avital, Emad Mohammied, Jenenny Gerbsbhan, Nili Stein, Sonia Schnee, Najwan Nasrallah, Iya Eisenberg, Yochai Adir

Etiology, clinical and radiological and microbiological profile of patients with non-CF bronchiectasis in Tunisia
Renate Kos (Soest, Netherlands), Joël Israëls, Christine D L Van Gogh, Josje Altenburg, Sandra Diepenhorst, Tamara Paff, Elles M J Boon, Gerard Paloerts, Anna Heerincx, Anke H Maitland-Van Der Zee, Eric G Haarmann

Comparison of hospital admissions in people with bronchiectasis between the covid-19 pandemic (2020) and pre-pandemic period (2019)
Beatriz Herrero Cortina (Zaragoza, Spain), Xunxiao Lin, Ana García-Esteban, Guillermo Samuel Loscertales-Vacas, Marta Martín Lana, Elena Borobia-Irache, Ana Cristina Aguelo-Velilla

Imaging analysis of sarcopenia in a cohort of stable patients with bronchiectasis
Mariela Nieves Alvarado Miranda (Reus, Spain), Adriana Nuñez Robainas, María Pérez Peiró, Salvatore Marsico, Alberto Solano López, Esther Barreiro

Bronchiectasis in Pakistan: A retrospective review of patients with non-cystic fibrosis bronchiectasis at a tertiary care center
Syed Muhammad Zubair (Karachi, Pakistan), Shayan Shahid, Ali Bin Abdul Jabbar, Abdullah Wagley, Muhammad Daniyal Musharraf, Haris Zahid, Muhammad Irfan

PROFILE OF CLINICAL AND ANALYTICAL PARAMETERS IN BRONCHIECTASIS PATIENTS DURING THE COVID-19 PANDEMIC: A ONE-YEAR FOLLOW-UP STUDY.
Liyun Qin (Barcelona, Spain), Filipe Gonçalves-Carvalho, Yingchen Xia, Jianhua Zha, Mireia Admetlló, José María Maiques, Sandra Esteban-Cucó, Xavier Duran, Alicia Marin, Esther Barreiro

Long-term outcome of nebulised antibiotic prophylaxis in bronchiectasis: a retrospective cohort study
Wei Chin Ng (London, United Kingdom), Keith Hattotuwa, Jack Mulholland

Prevalence of eosinophilia in chronic respiratory illness (CRI) during exacerbation with a focus on outcomes related to ICS treatment in Bronchiectasis
Ioana Rusu (MANCHESTER, United Kingdom), Rosina Khan, Magnus Okoh, Sowmya Ekhelikar, Nawaid Ahmad

Correlation between radiological scores and clinical and biological data in patients with bronchiectasis
Houda Snène (Tunis, Tunisia), Malika Guemri, Soumaya Debiche, Hana Bribech, Sirine Daoud, Line Kaabi, Souhir Ouali, Nozha Ben Salah, Bechir Louzir

CLINICAL CHARACTERISTICS, RADIOLGICAL FEATURES, AND DISEASE SEVERITY OF BRONCHIECTASIS ACCORDING TO THE SPIROMETRIC PATTERN
Bumhee Yang (Cheongju-si, Republic of Korea), So Rae Kim, Sun-Hyung Kim, Jun Yeun Cho, Eung-Gook Kim, Kang Hyeon Choe

Prevalence of LasB elastase variants from Pseudomonas aeruginosa respiratory isolates and their inhibition by novel LasB inhibitor ANT3273
Agustina Llanos (Labège, France), Clarisse Lozano, Jérôme Castandet, Magdalena Zalacain, Michael Tunney, Rachel Mairs, Gisli Einarsson, Martin Everett

Diagnostic value of multiple breath washout in patients with chronic productive cough
Niklas Ziegahn (Berlin, Germany), Charlotte O Pioch, Mirjam Stahl, Marcus A Mall, Jobst F Roehmel

Host transcriptomic signature for viral and bacterial infection at exacerbation of COPD–The longitudinal PAX-I study
Andrei Darie (Basel, Switzerland), Desiree M. Schumann, Leticia Grize, Kathleen Jahn, Matthias J. Herrmann, Werner Strobel, Hans Hirsch, Michael Tamm, Daiana Stolz

TP-19 Session 08:30 - 09:30
Thematic poster: Biomarkers in COVID
**Disease(s):** Respiratory critical care, Airway diseases

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

**Chairs:** Timothy Hinks (Oxford, United Kingdom), Chair to be confirmed

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**Associates of neutrophil/lymphocyte ratio in patients with COVID 19 infection: A single center experience**
Burcu Turan (Istanbul, Turkey), Ezgi Baysal, Can Ömür, Yahya Abdurrahman, Caner Çınar, Derya Kocakaya, Sehnaz Olgun Yıldızeli, Emel Eryüksel, Sait Karakurt, Baran Balcan

**Biomarker profiles associated with COVID-19 severity and mortality**
Silvia Sánchez-Díez (Barcelona, Spain), Carlos Gómez Ollés, Miquel De Homdedeu, David Espejo, Cristina Fábregas, María Jesús Cruz, Xavier Muñoz

**Vitamin d3 and its association with covid-19 disease severity: a prospective study**
Ankita Mohanty (Bhubaneswar, India), Gopal Purohit, Chaina Ram Choudhary, Ashok Kuwal, Vikram Bajiya

**RELATION BETWEEN FERRITIN LEVELS AND PULMONARY AFFECTATION IN COVID-19.**
Esperanza Guzmán Ansado (Madrid, Spain), Ana Ochoa-Ruiz, Norman Andrés Villamagua- Arias, Juan Francisco De Mesa Álvarez, Ángela Hidalgo Herranz, Silvia Sans Pérez, Soledad Torres Tienza, Carmen Lorenzo Martinez, Maja Cristina Yanlış Bonduke, Josè María Rodriguez-Fernández, Sergio Campos Téllez

**Can IL-6 serve as a reliable biomarker of clinical outcome in COVID19 pneumonia?**
Georgia Hardavella (Athens, Greece), Stavroula Mavrea, Elena Bellou, Ioanna Marinou, Elli Keramida, Erasmia Georgakopoulou, Irina Bracka, Thodoris Daskalos, Spyros Mazarakis, Ioannis Karampinis, Maria Salomidou, Antonios Xipolitis, Nikolaos Anastasiou, Despoina Zorpidou, Panagiotis Demertzis, Simona Karabela

**Thyroid dysfunction reflects severity of COVID-19 pneumonia in hospitalized patients**
Ioannis Machairas - Sallas (Nea Erythraia, Greece), Lykourgos Kolilekas, Anastasia Levounets, Dionysios Tsoukalas, Eleftheros Zervas, Mina Gaga


**Lactate dehydrogenase level: A predictive marker for severe COVID-19 infection**

**Is serum 25-hydroxyvitamin D levels associated with severity of COVID-19 disease? A retrospective study**
Maria Boesing (Liestal, Switzerland), Mireille Hunziker, Kristin Abig, Stéphanie Giezendanner, Fabienne Jaun, Giorgia Lüthi-Corridori, Anja Makhdoumi, Jürgen Muser, Jörg Daniel Leuppi

**Laboratory markers as predictor factor of clinical and radiological severity in hospitalized patient with covid-19**
Sabrine Majdoub Fehri (Nabeul, Tunisia), Iman Ketata, Rahma Sellami , Wafa Medi, Hamida Kwass

**COVID-19 Severity Index (SI): is it a sensitive predictor score for disease outcome in hospitalized patients?**
Kateryna Gashynova (Dnipro, Ukraine), Vladyslava Rudakova, Victoria Rodionova, Natalya But

**Plasminogen activator inhibitor-1 (PAI-1) like the best mortality predictor of in the COVID-19-associated pneumonia**
Kseniia Bielosludtseva (Dniepropetrovsk, Ukraine), Tetyana Pertseva

**Evolution of IL-6 as possible marker of viral control in Covid-19**
Cristina De Diego Ramos (Zaragoza, Spain), Laura Torralba, Ana Lasierra, Raquel Lahoz, Claudia Abadia, Pablo Ruiz De Gopegui, Alberto Ceboillada, Javier Godino, Beatriz Jimeno, Salvador Bello

**Lactate dehydrogenase (LDH) reinforcement in predicting Covid-19 patient's outcomes**
Hind Eid (Beirut, Lebanon), Antoine El Kik, Albert Riachy, Elise Mekhail, Karim Hoek, Nabil Nassim, Georges Khayat, Ghassan Slellatly, Moussa Riachy

**Relationship between hypercoagulability of hospitalized patients with COVID-19 disease with the clinical course of the disease as determined by the method of rotational thromboelastometry(ROTEM).**
Natasa-Eleni Loutsidi (Glyfada, Greece), Marianna Politou, Vasilios Vlahakos, Dimitrios Korakakis, Theodora Kassi, Asimina Nika, Abraham Poulakis, Konstantinos Eleuftheriou, Apostolos Pappas, Ioannis Kalomenidis

**THE MOST INFORMATIVE BIOMARKERS AS PREDICTORS OF MORTALITY IN COVID-19 PNEUMONIA**
Yuliia Huba (Dniepropetrovsk, Ukraine), Kseniia Bielosludtseva, Lyudmyla Konopkina
Prognostic value of initial KL-6 (Krebs von den Lungen 6) plasma level during COVID-19 pneumonia
Camille Rolland-Debord (clermont-ferrand, France), Alice Letellier, David Luque Paz, Guillaume Lefèvre, Laurence Pieroni, Antoine Parrot, Jacques Cadran

Poor nutritional status and dynapenia are highly prevalent in post-acute COVID-19
Ludovica Capitelli (san nicola la strada, Italy), Francesco De Blasio, Luca Salfi, Bianca Castellucci, Annamaria Sacco, Giulia Miracco Berlingieri, Paola Alicante, Claudio Candia, Valeria Giacon, Filomena Tafuro, Rosita Mottola, Alessandro Sanduzzi Zamparelli, Marialuisa Bocchino

Prognostic value of Platelet-to-lymphocyte ratio in hospitalized patients with COVID-19 pneumonia
Nouha Boubaker (Nabeul, Tunisia), Islam Mejri, Nouha Guediri, Salsabil Daboussi, Samira M'Hamdi, Chiraz Aichaouia, Zied Moetemri

Adipokines levels in hospitalized patients for COVID-19 and their role in prognosis
Dorina Rama Esendagli (Ankara, Turkey), Deniz Topcu, Eylem Gul, Cansu Alperen, Sule Akcay

TP-26 Session 08:30 - 09:30
Thematic poster: The many faces of interventional bronchoscopy
Disease(s) :  Airway diseases  Thoracic oncology  Interstitial lung diseases
Method(s) :  Endoscopy and interventional pulmonology  Imaging  Surgery  Palliative care  Pulmonary function testing
Chairs :  Prashant Nemichand Chhajed (Mumbai, India), Peter I. Bonta (Amsterdam, Netherlands)

Cryobiopsy in the diagnosis of peripheral lung lesion
Vytautas Ankudavicius (Kaunas, Lithuania), Marius Zemaitis, Skaidrius Miliauskas

Outcomes of Endoscopic Tracheobronchial Brachytherapy: Retrospective Cohort Analysis from a High-Volume Cancer Centre
Stefano Maria Donghi (MILANO (MI), Italy), Elena Prisciandaro, Luca Bertolaccini, Niccolò Filippi, Andrea Bavassori, Lorenzo Spaggiari, Juliana Guarize

Transbronchial lung cryobiopsy in sarcoidosis – is single biopsy enough?
Maciej Gnass (Myślenice, Poland), Anna Filarecka, Martyna Ciesielska, Jerzy Soja, Damian Czyżewski, Lucyna Rudnicka, Wojciech Zajęcki, Artur Bartczak, Adam Ćmiel, Agnieszka Pałuch-Stachowicz, Piotr Gniady, Artur Szlubowski

Efficacy of transbronchial lung cryobiopsy with radial EBUS guidance in interstitial lung diseases – 5 years experience
Maciej Gnass (Myślenice, Poland), Martyna Ciesielska, Jerz Soja, Damian Czyżewski, Wojciech Zajęcki, Lucyna Rudnicka, Artur Bartczak, Magdalena Zycińska, Piotr Gniady, Małgorzata Szolowska, Adam Ćmiel, Artur Szlubowski

Impact of transbronchial lung cryobiopsy on lung function in patients with interstitial lung diseases
Claudia Ravaglia (Forlì, Italy), Silvia Puglisi, Martinello Sabrina, Vancheri Ada, Oldani Stefano, Picučci Sara, Poletti Venerino

Safety and Efficacy of Transbronchial Cryo Lung Biopsy vs Forceps Biopsy in diagnosis of Fibrotic Lung Disease - The Heat is On
Umang C. Shah (Vadodara (Gujarat), India)

Complications in the use of transbronchial lung cryobiopsy in non-interstitial lung diseases
Diego Alexis García Estudillo (mexico, Mexico), Olivia Sánchez Cabral, Cira Santillán Diaz, Paula Karina Olivera Llera

ONE-SESSION BILATERAL WHOLE LUNG LAVAGE WITH ASSISTANCE BY EXTRACORPOREAL MEMBRANE OXYGENATION: A SAFE AND EFFECTIVE TREATMENT FOR PULMONARY ALVEOLAR PROTEINOSIS.
IRENE MILAGROS DOMINGUEZ ZABALETA (Madrid, Spain), Paola Benedetti, Javier De Miguel Diez, Sergio Suarez Escudero, Virginia Parra León, Luis Puente Maestu, José Javier García López

Airway Stents: an important paradigm in the management of airway stenosis
Abhinav Singla (Essen, Germany), Johannes Wienker, Erik Büscher, Rüdiger Karpf-Wissel, Faustina Funke, Kaid Darwiche

Management of benign tracheal stenosis: the endoscopic approach
Alia Ezzououa (Tunis, Tunisia), Sarra Maazaoui, Amany Touil, Tasnim Znagui, Mariem Chaabane, Sonia Habibeich, Hajer Racil, Nawel Chaouch
Outcome and adverse events of endoscopic lung volume reduction with valves at 6- and 12-month follow-up: Results from the Lung Emphysema Registry (LE-R) in Germany
Thomas Sgarbossa (Berlin, Germany), Jacopo Saccomanno, Pavlina Lenga, Jens-Carsten Rückert, Franz Stanzel, Stefan Welter, Christian Grah, Joachim Pfannschmidt, Bernd Schmidt, Paul Schneider, Stephan Eisenmann, Marcus Krüger, Joachim Ficker, Dietmar Kraus, Angelique Holland, Andreas Kirschbaum, Andreas Gebhardt, Sven Gläser, Stephan Eggeling, Stefan Andreas, Marc Hinterhaner, Karl-Josef Franke, Ulrich Laskowski, Ralf-Harto Hübner

Outcome of 2nd lung volume reduction therapy with one-way valves after initial treatment failure in patients from the national lung emphysema registry (LE-R) in Germany
Jacopo Saccomanno (Berlin, Germany), Thomas Sgarbossa, Pavlina Lenga, Jens-Carsten Rückert, Franz Stanzel, Stefan Welter, Christian Grah, Joachim Pfannschmidt, Bernd Schmidt, Paul Schneider, Stephan Eisenmann, Marcus Krüger, Joachim H. Ficker, Dietmar Kraus, Angelique Holland, Andreas Kirschbaum, Andreas Gebhardt, Sven Gläser, Stephan Eggeling, Stefan Andreas, Marc Hinterhaner, Karl-Josef Franke, Ulrich Laskowski, Ralf-Harto Hübner

Predictors of survival in COPD: does improvement affect survival?
Sharyn A. Roodenburg (Groningen, Netherlands), Marlies Van Dijk, Karin Klooster, T. David Koster, Dirk-Jan Slebos, Jorine E. Hartman

Results from bronchoscopic thermal vapor for lung volume reduction
Cristina Luna Pardo (Valencia, Spain), Raquel Martinez Tomás, Andréz Briones Gómez, Enrique Cases Viedma

Perfusion measured with HRCT-approximated perfusion is comparable to SPECT/CT for patients with severe COPD
T. David Koster (GRONINGEN, Netherlands), Karin Klooster, Marlies Van Dijk, Aafke Van Erp-Zeilistra, Annick Willems Van Beveren, Jan Pruim, Jean-Paul Charbonnier, Dirk-Jan Slebos

Predictors of survival in COPD: does improvement affect survival?
Sharyn A. Roodenburg (Groningen, Netherlands), Marijke Van Dijk, Karin Klooster, T. David Koster, Dirk-Jan Slebos, Jorine E. Hartman

Long term follow-up after endobronchial valve treatment for emphysema
Jorine E. Hartman (Groningen, Netherlands), Karin Klooster, T. David Koster, Marlies Van Dijk, Dirk-Jan Slebos

Endoscopic dilatation of idiopathic subglottic stenosis: effects on lung function and recurrence dynamics
Jorine E. Hartman (Groningen, Netherlands), Karin Klooster, T. David Koster, Marlies Van Dijk, Dirk-Jan Slebos

Instant pathology of transbronchial cryobiopsies (TBCB) for sample adequacy in ILD patients
Laura Van Huizien (Amsterdam, Netherlands), Kirsten Moolj - Kalverda, Venerino Poletti, Peter Bonta, Johannes Daniels, Marloes Groot, Jouke Annema

Bronchial thermoplasty; its long-term efficacy in severe asthma
Pieta C Wijman (Amsterdam, Netherlands), Annika W Goorsenberg, Julia N D’ Hooghe, Nick H Ten Hacken, Els J Weersink, Elisabeth H Bel, Pallav I. Shah, Jouke T Annema, Peter I Bonta

Endoscopic dilatation of idiopathic subglottic stenosis: effects on lung function and recurrence dynamics
Louis-Vincent Morin-Thibault (Quebec (QC), Canada), Gerrina Ruiter, Peter I. Bonta, Erik-H-F-M Van Der Heijden, Johannes-M-A. Daniels

Alfredo Marin Muñiz (Castelldefels, Spain), Marta Diez Ferrer, Pere Trias Sabrià, Lidia Méndez Mangas, Marta Plana Pe, Francisco Rivas Doyague, Jordi Tornero Salto, Salud Santos Pérez, Rosa López Lisbona

The utility of 1-minute sit-to-stand test to detect exercise-induced oxygen desaturation in outpatient assessment of post COVID-19 patients.
Muhammad Amin Ibrahim (Puncak Alam, Malaysia), Mohd Nazeri Kamarudin, Chee Shee Chai, Mohammed Fauzi Abdul Rani

Dynamic matching of oxygen uptake kinetics and muscle deoxygenation in post-COVID-19
Vitor Souza (São Paulo, Brazil), Mariana Lafeta, Maria Saldanha, Fabiana Penido, Thais Menezes, Suzana Tanni, Andre Albuquerque, Luiz Nery, Jaqueline Ota-Arakaki, Elioura Ferreira, Priscila Sperandio

Impact of SARS CoV2 infection on pulmonary gas exchange and exercise capacity in patients with mild to severe COVID-19.
Matthias Krüll (Berlin, Germany), Mitra Lara Neymeyer, Oliver Noga

1,5-year course of quadriceps muscle strength following mild-to-critical Covid-19
Anouk Stoffels (Nijmegen (GE), Netherlands), Nicol Voermans, Hieronymus Van Hees, Jeannette Peters, Hanneke Van Helvoort, Esther Van Voorthuizen, Jonne Doorduin, Bram Van Den Borst

Disease(s) : Airway diseases, Interstitial lung diseases, Respiratory critical care
Method(s) : Physiology, Pulmonary rehabilitation, General respiratory patient care, Pulmonary function testing, Epidemiology, Imaging

TP-4 Session 08:30 - 09:30
Thematic poster: The lung after COVID: functional recovery after SARS-CoV-2 infection

Chairs: Necmiye Funda Co kun (Bursa, Turkey), Gordana Pavliša (Zagreb, Croatia)
Respiratory system resistance and reactance following recovery from non-critical COVID-19
Karen Sidhom (Hamilton, Canada), Carmen Venegas, Ashutosh Thakar, Nisarg Radadia, Melanie Kjarsgaard, Chynna Huang, Manali Mukherjee, Terence Ho, Parameswaran Nair, Sarah Svenningsen

Pathophysiologic insights from lung diffusing capacity for nitric monoxide (DLNO) after COVID-19

Role of 1-minute sit-to-stand in the diagnosis of Long COVID
Nuno Faria (Porto, Portugal), Tiago Oliveira, Paula Pinto, Vânia Almeida, Maria José Fernandes, Raquel Carvalho, Maria Sucena, Joana Gomes

Lung changes after COVID-19: What are the functional differences across the spectrum of disease severity?
Mónica Marques Grafino (Montemor-O-Novo, Portugal), Susana Clemente, Susana Carreira, Marco Pereira, Ana Lutas, Andrea Cardoso, Sofia Furtado

Diego Durán Barata (Madrid, Spain), Andrés Pérez Figuera, Silvia Sánchez Cuellar, Aurora Solier López, Beatriz Pintado Corf, Durðis Josefina Velasco Alvarez, Lidia Aranzabal Orgaz, Raquel Morillas Guerrero

Impact of COVID 19 infection on cardiopulmonary functions of a cohort of national level athletes in Sri Lanka
Ruwanthi Thakshila Jayasekara (Nugegoda (WP), Sri Lanka), Wijitha Nissanka, Rukmal Karunanayake, Lal Ekanayake, Suresh Chathuranna, Namal Wijesinge, Amitha Fernando

Effects of SARS-CoV-2 Infection on Pulmonary Function Tests and Exercise Tolerance
Josuel Ora (Roma (RM), Italy), Bartolomeo Zerillo, Patrizia De Marco, Gian Marco Manzetti, Francesca Camerelled, Ilaria De Guido, Luigino Calzetta, Paola Rogliani

Pulmonary function and 6-min walk test (6MWT) among North African long COVID-19 patients
Khansa Derbel (Sousse, Tunisia), Sana Sellami, Wafa Bentziri, Sana Aissa, Sonia Rouatbi, Helmi Ben Saad, Ines Ghanmouchi

Exercise responses in those with vs. without persistent fatigue post-COVID-19
Michele Schaeffer (Leuven, Belgium), Juthaporn Cowan, Kathryn Milne, Vicente Corrales-Medina, Kim Lavoie, Andrew Mulloy, Julio Chirinos, Sara Abdallah, Jordan Guenette

Lung function variability in one year after COVID-19 pneumonia.
Piotr Boros (Warszawa, Poland), Magdalena Martusewicz-Boros, Marcin Paciorek

Lung function at 12-18 months in patients with ARDS due to SARS-CoV-2 pneumonia
Anna Mola Ausiró (Aiguafreda (Barcelona), Spain), Yolanda Galea Colón, Núria Angrill Sellés, Mireia Baiges Badia, Santiago Mora Acosta, Enric Barbeta Sanchez

Respiratory outcomes 3-month following COVID-19-related hospitalisation: a Tunisian prospective study
Ribah Jebali (Tunis, Tunisia), Majed Meriem, Ameni Naaroua, Chaima Turki, Abir Hedhli, Sana Cheikhrouhou, Samira Mera, Sonia Toujani, Yassine Ouahbi, Dhahir Bessma

Are radiological interstitial findings after COVID-19 pneumonia related to persistencerespiratory symptoms or alteration of Lung function tests?
Grace Jacqueline Oscullo Yepez (Valencia, Spain), Paula González Jiménez, Cristina Luna Pardo, Miguel Ángel Martínez García, Manuela Martínez Franccés

Persistent oxygen desaturation during exercise in patients with long COVID
Sara Lococo (Padova, Italy), Gabriella Guamieri, Leonardo Bertagna De Marchi, Antonella Cecchetto, Beatrice Molena, Giovanna Arcaro, Federico Lionello, Luca Dalle Carbonare, Federica Villona, Giulia Sartori, Francesca Miscetti, Federica Margherita Lovati, Mariagrazia Morcone, Andrea Vianello, Ernesto Crisafulli

Exercise capacity in one minute sit to stand test and cardiopulmonary exercise test after 90 days of severe COVID 19
André Luis Pereira De Albuquerque (São Paulo (SP), Brazil), Flavia Folchini, Eliana Bandini, Thales Ishizaki, Suzana Tanni, Eloaro Campos, Joao Marcos Salge

Submaximal and maximal exercise tests in the follow up of severe COVID-19
Elia Bandini (, Brazil), Flavia Folchini, Thales Ishizaki, Suzana Tanni, Eloaro Ferreira, Joao Marcos Salge, Wellington Yamaguti, André Albuquerque
Disease(s) : Airway diseases, Sleep and breathing disorders, Interstitial lung diseases, Thoracic oncology

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

Chairs : Mirjam Elisa Ljunggren (Uppsala, Sweden), Johan Verbraecken (Edegem (Antwerp), Belgium)

The influence of smoker status on sleep – more than architectural changes in patients with sleep disorders – a retrospective study
Andreea Florescu (București, Romania), Andreea Cocari, Corina Borcea, Ancuta Tudor, Florin Dumitru Mihaltan, Oana Claudia Deleanu

Prognostic cardiovascular markers in COPD patients with and without OSA
Diane Rezende Batista (Botucatu (SP), Brazil), Silke Anna Theresa Weber, Jefferson Luis De Barros, Vanessa Do Lago, Robson Aparecido Prudente, Estefânia Thomé Franco, Luiz Henrique Soares Machado, Suzana Erico Tanni

Comparison of serum vitamin D levels in patients with Overlap Syndrome, patients with pure Obstructive Sleep Apnea, and controls
Paschalis Steiropoulos (Alexandroupolis, Greece), Athanasios Voulgaris, Kosmas Archontogeorgis, Evangelia Nena, Athanasios Zissimopoulos, Michail Fanaridis, Iolothi Bouloukaki, Sofia Schiza

Airway inflammation in moderate/severe asthma and concomitant OSA patients- FeNO assessment
Daniel Pimenta Rocha (Senhora Da Hora, Portugal), André Nunes, Filipa Carriço, Daniela Rodrigues, Mafalda Van Zeller, Marta Drummond

Prevalence of Insomnia among Patients with Bronchial Asthma
Abdullah Alharbi (Riyadh, Saudi Arabia), Tammam Alanazi, Hazim Alghamdi, Meshal Alberreet, Abdulaziz Alkewaibeen, Abdulrahman Alkhalfah, Aamir Omair, Mohammad Khan, Hamdan Al-Jahdali

Limited utility of STOP-BANG in identification of obstructive sleep apnoea in fibrotic interstitial lung disease
Katherine Myall (London, United Kingdom), Alex West, Jennifer Martinovic, Zhe Wu, Jodie Lam, Diana Roque, Victor Jardim, David J Jackson, Toby Maher, Eui-Sik Suh, Philip Molyneaux, Brian Kent

Clinical impact of Obstructive Sleep Apnea on Depression in patients with Cystic Fibrosis and non-Cystic Fibrosis Bronchiectasis patients
Duygu Vezir (İSTANBUL, Turkey), Baran Balcan, Derya Kocakaya, Caner Çınar, Şehnaz Olgun Yıldızeli, Berrin Ceyhan

Obstructive Sleep Apnea in patients with Cystic Fibrosis and non-Cystic Fibrosis Bronchiectasis and its relation with clinical parameters
Duygu Vezir (İSTANBUL, Turkey), Baran Balcan, Derya Kocakaya, Caner Çınar, Şehnaz Olgun, Berrin Ceyhan

The association between pain and sleep quality
Yosra Aloulou (Manouba, Tunisia), Hadhemi Rejeb, Hela Kammoun, Dorra Greb, Ines Akrout, Hejer Ben Abdelghaffar, Hela Hassen, Leila Fekih, Hanen Smadhi, Mohamed Lamine Megdich

CPAP therapy and the COVID pandemic.
Edward Lee (Melbourne, Australia), Joshua O'Day (Clayton South, Australia), Edward Lee, Patricia Lyell, Simon Frenkel, Anne Marie Southcott

OSA patients’ opinions concerning their disease and treatment during the pandemic
Athanasia Pataka (Thessaloniki, Greece), George Kalamaras, Seraphim Kotoulas, Katalin Fekete, Efimia Daskalopoulou-Vlachogianni

Prevalence of sleep-related breathing disorders in long-COVID
Winfried J. Randerath (Solingen, Germany), Simon Herkenrath, Sandhya Matthes, Rembert Koczulla, Martina Bönsch, Daniela Leitl, Marcel Treml

COVID-19 Pandemic Effects on sleep quality, mental health and memory
Jaber Alqahtani (Dammam, Saudi Arabia), Saad Alraweheh, Abdelaleh Alhah, Rayan Siraj, Yousef Aljabayy, Saeed Alghamdhi, Abdullah Alqahtani, Ibrahim Aldraiwish, Ahmed Alkhel

Long term sleep disturbances in Tunisian COVID-19 patients discharged from hospital: a cohort study
Nesrin Kallel (Sfax, Tunisia), Nadia Bouattour, Mariam Turki, Issraa El Whadiane, Amina Kotti, Sourour Abid, Najla Halouani, Jihene Aloulou, Sameh Msaad, Walid Feki, Samy Kammoun

Evaluation of sleep quality among post-COVID patients: findings from a 6-month follow-up study
Evgenia Kalamara (Athens, Greece), Athanasia Pataka, Afroditi Boutou, Evangelia Panagiotidou, Athina Georgopoulou, Evangelos Ballas, Isidora Bakaimi, Adamantios Chloros, Symeon Metallidis, Ioannis Kioumis, Georgia Pitsiou

Hospitalizations in OSA patients
Gabriela Sofia Cancela da Fonseca Ferreira Santos (Lisboa, Portugal), Mafalda Van Zeller, Filipa Carriço, Daniel Rodrigues, Margarida Torres Redondo, Marta Drummond
## Obstructive sleep apnea and other predictors of postoperative complications after bariatric surgery
Ahmad Mansoor Aldobyany (Makkah, Saudi Arabia), AbdelFatih Touman, Moaad Beshayreh, Feryal Alamri, Joanne Ahmed, Nabil Ghaleb, Rajaa Alsaggaf, Hadeel Alqurashi, Amr Albanna, Eid Alqurashi

## Peri-operative outcomes of bariatric surgery in patients with obstructive sleep apnoea: a prospective single-centre cohort study
Cristiano van Zeller (London, United Kingdom), Michael Cheng, Barbara Mcgowan, Richard Brown, Joerg Steier

## Prevalence and Correlates of REM-predominant Obstructive Sleep Apnea in Narcolepsy Patients
Ali Awadh (Riyadh, Saudi Arabia), Salih Aleissi, Ahmad Bahammam

### TP-12 Session 08:30 - 09:30
**Thematic poster: Interest of PROMs in chronic airway diseases**
**Disease(s):** Airway diseases
**Method(s):** Pulmonary function testing Epidemiology Public health General respiratory patient care Pulmonary rehabilitation Cell and molecular biology Physiology Imaging
**Chairs:** Manlio Milanese (Pietra ligure (SV), Italy), Chair to be confirmed

<table>
<thead>
<tr>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Expiratory flow limitation in association to symptoms and quality of life in asthma, COPD and healthy subjects</td>
<td>Abrir Nasr (Teckomatorp, Sweden), Georgia Papapostolou, Kerstin Ramberg, Linnea Jarenbäck, Jaro Ankerst, Alf Tunsäter, Leif Bjerner, Ellen Tufvesson</td>
</tr>
<tr>
<td>Baseline characteristics associated with change in COPD symptoms over 2 years</td>
<td>Andrei Malinosvchi (Uppsala, Sweden), Christer Janson, Andreas Palm, Maria Härstedt, Amir Barkhooy, Karin Lisspers, Kristina Bröms, Björn Ställberg, Marieann Högman</td>
</tr>
<tr>
<td>The evaluation of patients’ life quality, spirometry parameters and level of exercise tolerance in case of asthma-COPD overlap and diabetes mellitus type 2 (DM2)</td>
<td>Valeria Halıytska (Chernivtsi, Ukraine), Ganna Stupnytska, Oleksandr Fediv</td>
</tr>
<tr>
<td>Burden of disease in both asthma and COPD: one questionnaire?</td>
<td>Liz Cuperus (Rotterdam, Netherlands), Cathelijne Van Zelst, Gert-Jan Braunstahl, Johannes In ’T Veen</td>
</tr>
<tr>
<td>Assessment of dyspnea in severe exacerbation of chronic obstructive pulmonary disease using the Multidimensional Dyspnea Profile (MDP)</td>
<td>Alexander Stump (Essen, Germany), Ulrike Domanski, Maik Schröder, Georg Nilius</td>
</tr>
<tr>
<td>Evaluation of bronchial hyperreactivity in patients after Covid-19 infection</td>
<td>Gunta Strazda (Riga, Latvia), Marta Ieviņa, Olga Madaja, Normunds Jurka, Valentina Gordjusina, Immanuels Taivans</td>
</tr>
<tr>
<td>Functional capacity testing of citizens with COPD in limited settings - a feasibility study</td>
<td>Anders Lokke (Højbyerg, Denmark), Jeppe Gabriel Spence, John Brincks, Line Neustrup, Elisabeth Bomholt Østergaard</td>
</tr>
<tr>
<td>Role of Asthma School in disease management</td>
<td>Martina Zappa (Tradate, Italy), Dina Visca, Patrizia Pignatti, Francesco Ardesi, Rosella Centis, Elisabetta Zampogna, Francesca Cherubino, Federico Mattia Oliva, Laura Saderi, Giovanni Sotgiu, Giovanni Battista Migliori, Antonio Spanevello</td>
</tr>
<tr>
<td>Asthma Impairment and Risk Questionnaire (AIRQ) Performance in US Minority Patients</td>
<td>Maureen George (New York, United States), David A. Beuther, Kevin R. Murphy, Robert S. Zeiger, Robert A. Wise, Joan Reibman, Bradley Chipps, Ileen Gilbert, James M. Eudicone, Hitesh N. Gandhi, Karin S. Coyne, William Mccann</td>
</tr>
<tr>
<td>Prevalence of depression and anxiety among COPD patients and association with CAT Score: Findings from a lower-middle income country</td>
<td>Manahil Malik (Al Khobar, Saudi Arabia), Tayymia Ejaz, Mahmood Iqbal Malik</td>
</tr>
<tr>
<td>Clinical implication of DLCO to reflect disease control in patients with COPD</td>
<td>Sun-young Yoon (Sejong-si, Republic of Korea), Ock-Hwa Kim, Jae Young Moon</td>
</tr>
<tr>
<td>Anxiety-depressive syndrome in multi-hospitalized chronic obstructive pulmonary disease patients</td>
<td>KHALED DEGHDEGH (Annaba, Algeria), Lyemna Belaid, Besma Terra, Randa Yakoubi, Ferie Alou, Rachid Benali, Fouad Khalloufi</td>
</tr>
<tr>
<td>“Life-changing”– the experience of super-responders to biologics in severe asthma</td>
<td>Ross Sayers (Exeter, United Kingdom), Joseph Lanario, Lucy Cartwright, Rupert Jones, Michael E. Hyland, Matthew Masoli</td>
</tr>
</tbody>
</table>
Predictors of poor disease control and impaired quality of life (QOL) in patients with severe asthma (SA) in the Wessex Severe Asthma Cohort (WSAC)
Vipula Bataduwaarachchi (Portsmouth, United Kingdom), Thomas Brown, Laura Wiffen, Thomas Jones, Clair Barber, Peter Howarth, Chaullan Anoop

The usability of app-based spirometry tests for detection of exercise-induced bronchoconstriction in athletes
Martine Isachsen (Hägersten, Sweden), Tonje Reier-Nilsen, Julie Stang, Hanne Flatsetøy, Henrik Ljungberg, Björn Nordlund

The value of ventilation-perfusion scintigraphy in severe asthma control characterisation
Diogo Miguel Monteiro Canhoto (Coimbra, Portugal), Cláudia Chaves Loureiro

Identification of new spirometric indices predicting severe COPD
Rim Kammoun (Sfax, Tunisia), Sana Sallemi, Fatma Elleuch, Sana Ben Jmeaa, Ines Kammoun, Kaouthar Masmoudi

Systematic literature review of the impact of asthma control on patient outcomes
Alexandrosz Czira (Brentford, United Kingdom), Xuan Wang, Shivaprasad Singuru, Christos Papagiannopoulos, Kieran Rothnie, Claire Trennery, Shiyuan Zhang

Late Breaking Abstract - Real-world retrospective database analysis of COPD exacerbations before and during the COVID-19 pandemic in Europe (REACT)
Dmitry Galkin (Apex, United States), Alessandro Guasconi, Joseph Imperato, Ruben Hermans, Stefania Pirondi, George Georges

Late Breaking Abstract - Health status relationship with exacerbations in a real-world cohort of patients with physician-assigned COPD in NOVELTY
Hana Müllerová (Cambridge, United Kingdom), Stefan Franzén, Laura Belton, Clement Erhard, Clementine Nordon, Rod Hughes, Mohsen Sadatsafavi, Christer Janson

**TP-14 Session 08:30 - 09:30**

**Thematic poster: Occupational asthma and upper airway diseases**

**Disease(s):** Airway diseases, Sleep and breathing disorders  
**Method(s):** Pulmonary function testing, Epidemiology, Public health, Cell and molecular biology  
**Chairs:** Orianne Dumas (Villejuif, France), Xavier Munoz Gall (Barcelona, Spain)

Utility of spirometry, metacholine test, induced sputum, exhaled NO and exhaled breath condensate pH for the diagnosis of work-related asthma: a real-life study
David Soler Segovia (Barcelona, Spain), Maria Jesus Cruz Carmona, Miquel De Hommede, Silvia Sánchez Díez, Íñigo Ojanguren, David Espejo, Xavier Muñoz Gall

Occupational asthma from welding fumes, all irritant?
Vicky Moore (Birmingham (West Midlands), United Kingdom), Alastair Robertson, Christopher Huntley, Gareth Walters, Sherwood Burge

Household use of green and home-made cleaning products, wipe form and asthma
Emilie PACHECO DA SILVA (Villejuif, France), Guillaume Sit, Marcel Goldberg, Benoit Leynaert, Rachel Nadif, Celine Ribet, Nicolas Roche, Marie Zins, Raphaëlle Varraso, Orianne Dumas, Nicole Le Moual

Longitudinal associations of household use of cleaning agents and asthma symptoms
Emilie PACHECO DA SILVA (Villejuif, France), Melanie Ngutuka, Orianne Dumas, Laurent Orsi, Pierre Lemire, Joane Quentin, Isabelle Pin, Raphaëlle Varraso, Valerie Siroux, Nicole Le Moual

Preliminary findings of volatile organic compounds, alkaline dusts and formaldehyde exposure in hospital workers and evaluating their relationship with genotoxicity and oxidative stress biomarkers
Aysu Coskun Beyan (Izmir, Turkey), Gamze Tuna, Esra Emerce, Gül İşlekel, Yucel Demiral

Occupational exposures, asthma and asthma control in the NutriNet-Santé cohort
Guillaume Sit (Paris, France), Raphaëlle Varraso, Léopold Fezeu, Pilar Galan, Florence Orsi, Emilie Pachec Da Silva, Mathilde Touvier, Serge Hercberg, Christophe Paris, Nicole Le Moual, Orianne Dumas

Work-related symptoms in students first exposed to laboratory animal after 10 months of follow-up
Elcio Dos Santos Oliveira Vianna (Ribeirao Preto (SP), Brazil), Isabel Bricoleri, Ivana Labadessa

Occupational asthma, rhinitis and contact urticaria in greenhouse workers
Irmeli Lindström (Helsinki, Finland), Pirjo Hölttä, Liisa Airaksinen, Katri Suuronen, Sari Suomela, Hille Suojaleho

Occupational exposure to cleaning agents and respiratory health in healthcare professionals
Behzad Heibati (Oulu, Finland), Maritta S. Jaakkola, Taina K. Lajunen, Inês Paciência, Ali Karimi, Jouni J.K. Jaakkola
Clinical features and risk factors of intermediate-onset asthma.
Martina Turrin (CORDENONS, Italy), Chiara Contin, Indira Sofia Dalla Rosa, Matteo Bonato, Erica Bazzan, Micaela Romagnoli, Manuel G. Cosio, Marina Saetta, Simonetta Buraldi

Allergic rhinitis in the work environment
Ons Grissa (Tunis, Tunisia), Nihel Khouja, Jihen Hsinit, Emna Baraketi, Saloua Ismail, Aida Benzarti, Abdelmajid Ben Jemaa

Respiratory allergies to thermal degradation products of plastic
Ons Grissa (Tunis, Tunisia), Emna Baraketi, Nihel Khouja, Touka Yahyaoui, Saloua Ismail, Aida Benzarti, Jihen Hsinit, Abdelmajid Ben Jemaa

Occupational respiratory allergies to tobacco leaves (About 3 cases)
Ons Grissa (Tunis, Tunisia), Amani Dallagi, Jihen Hsinit, Nihel Khouja, Emna Baraketi, Saloua Ismail, Touka Yahyaoui, Aida Benzarti, Abdelmajid Ben Jemaa

Work-related dysphonia in subjects with sensitizer-induced occupational asthma is associated with neutrophilic inflammation
Nicolas Migueres (Strasbourg, France), Olivier Vandenplas, Jolanta Walusiak-Skorupa, Marta Wiszniewska, Xavier Munoz, Hille Suojalehto, Irmeli Lindstrom, Vera Van Kampen, Rolf Merget, Paola Mason, Piero Maestrelli, Joaquín Sastre, Santiago Quirce, Catherine Riffart, Julien Godet, Frédéric De Blay

Relationship between sleep quality and occupational asthma control
Amen MOUSSA (Sousse, Tunisia), Asma Chouchane, Lynda Mahjoub, Maher Maoua, Wafa Benzarti, Sana Aissa, Marwa Bouhoute, Asma Aloui, Imen Kacem, Aicha Brahaim, Houda Khalboussi, Olfa El Maalel, Souheil Chatti, Abdelaziz Hayouni, Nejib Mrizak

Impact of occupational activity on the development or the exacerbation of asthma
Dorra BRAHIM (Tunis, Tunisia), Dorra BRAHIM, Najla Mechergui, Imen Youssef, Hanene Ben Said, Mariem Mersni, Nizar Ladhari

Impact of gender on work productivity loss and activity impairment in asthmatic patients
Yosra Brahaim (Monastir, Tunisia), Imen Touil, A Hamdi, Jihen Ayeb, Amira Omrane, R Rhoumdhani, Soumaya Bouchareb, S Boujnehe, Eya Zaara, T Khalfallah, Leila Boussoffara, Jalel Kneni, Nadia Boudawwara

Assessing asthma control and severity of work-related asthma cases in the NutriNet-Santé cohort
Louis Khan (Rennes, France), Raphaelle Varraos, Nicole Le Moual, Orianne Dumas, Mathilde Touvier, Léopold Feuz, Pilar Galan, Serge Hercberg, Christophe Paris

Late Breaking Abstract - Inflammatory endotype before and after specific inhalation challenge in patients with work-related asthma
Paola Mason (Padova (PD), Italy), Diletta Arcidiacono, Eleonora Rachele Paccagnella, Marco Biasioli, Piero Maestrelli, Filippo Liviero, Anna Chiara Frigo

Thematic poster: Pleural and thymic malignancies: from bench to bedside

*Thoracic oncology*

Endoscopy and interventional pulmonology General respiratory patient care Imaging Epidemiology Surgery Cell and molecular biology Physiology

Kevin Blyth (Glasgow (Glasgow), United Kingdom), Maria Joana Pereira Catarata (Porto, Portugal)

Using InfraRed (IR) Spectroscopy to differentiate between Mesothelioma (Meso), Other Malignant & Non-Malignant pleural effusions
Lauren Fox (Southampton, United Kingdom), Sharon Glaysher, Alexander Hicks, Michael Ball, Rachelle Asciak, Thomas Brown, Leon D’Cruz, Anoop Chauhan

BAP1 loss in the diagnosis of malignant mesothelioma; review of a regional mesothelioma MDT
Helen Mcdill (Bristol (Avon), United Kingdom), Alexandra Dipper, Nidhi Bhatt, Amelia Clive, Nick Maskell, Anna Bibby

The Management of Thymoma - a retrospective cohort analysis
Richard Cooper (Malpas, United Kingdom), Mohammed Adil, Muhammad Ganaie

Diagnostic value of the cancer ratio in pleural effusion – a retrospective study
Maria João Cavaco (Coimbra, Portugal), Luis Mateus, André Nunes, Ricardo Cordeiro, Carina Silvestre, Joana Ferra, Daniel Duarte, Carla Cardoso, Paula Raimundo, António Domingos
Has the impact of the COVID-19 pandemic on uptake and usage of indwelling pleural catheters reduced its cost-effectiveness?
Dana Li (London, United Kingdom), Sarah Johnstone, Padmuvathi Parthasarathy, Rajini Sudhir, Muhammad Tufail, Rakesh Panchal

Malignant Pleural Effusion and Auto-pleurodesis: Biomarkers, Predictors and Survival
Dinesh Addala (Oxford, United Kingdom), Yiwen Soo, Anand Sundaralingam, Eihab Bedawi, Beenish Iqbal, Najib Rahman

Molecular identification of the primary cilium BBSome complex in pleural mesothelial cells
Erasmia Rouka (Larissa, Greece), Rajesh Jagirdar, Eleanna Pitaraki, Ourania Kotsiou, Chrissi Hatzoglou, Konstantinos Gourgouliani, Sotiros Zarogiannis

Human malignant pleural mesothelioma derived pleura fluid induces mesenchymal transition of benign pleural mesothelial cells
Sotiros Zarogiannis (Larissa, Greece), Rajesh Jagirdar, Erasmia Rouka, Eleanna Pitaraki, Ourania Kotsiou, Chrissi Hatzoglou, Konstantinos Gourgouliani

Diagnosis and management of thymomas in the Covid-19 era
Chung-Mei Maggie Cheung (London, United Kingdom), Raquel D'Espiney, Ermanno Capuano, Bernard Yung

Mortality among hospitalized patients with pleural effusions.
ELEFHERIOS MARKATIS (PLATITERA, Greece), Garifallia Perlepe, Andreas Afhtinos, Konstantinos Pagkritis, Charalampos Varsamias, Eleftheria Chaini, Ilias C. Papnokholaou, Konstantinos I Gourgouliani

MicroRNAs shuttled by extracellular vesicles within pleural fluids promote lung cancer cell proliferation
Elisabetta Pace (Palermo (PA), Italy), Simona Taverna, Giuseppe Cammarata, Anna Masucci, Ilaria Giusti, Vincenza Dolo

Changes in the primary diagnosis of malignant pleural effusion
Oğuz Karcioglu (Ankara, Turkey), Fatih Tekin, Sevgen Onder, Ziya Toros Selçuk

An Evaluation of optimal pleural fluid volume required for accurate cytological diagnosis of malignancy
Nafisa Hussain (Watford, United Kingdom), Alessio Navarra, Anthony Maddox, Rahul Mogal

Molecular profiling in Pleural Biopsies
Anand Sundaralingam (Oxford, United Kingdom), Avinash Aujayeb, Baki Akca, Clare Tiedeman, Vineeth George, Michael Carling, Jennifer Brown, Radhika Banka, Dinesh Addala, Eihab O Bedawi, Robert H Hallifax, Beenish Iqbal, Poppy Denniston, Maria T Tsakok, Nikolas Kanellakis, Florian Vafai-Tabrizi, Michael Bergmann, Georg-Christian Funk, Rachel Benamore, John M Wrightson, Najib M Rahman

TP-10 Session 08:30 - 09:30
Thematic poster: Chronic cough, airway diseases and methods
Disease(s): Airway diseases, Interstitial lung diseases
Method(s): Epidemiology, General respiratory patient care, Physiology, Cell and molecular biology, Endoscopy and interventional pulmonology

IMPALA: efficacy measures in patients who required whole lung lavage
Yoshikazu Inoue (Osaka, Japan), Badrul Chowdhury, Jack Bennett, Dhaval Desai

Assessing human lung pharmacokinetics using exhaled breath particles (PEX)
Jens Hohlfeld (Hannover, Germany), Olaf Holz, Muhammad Waqas Sadiq, Julian Nehrig, Birthe Ellinghusen, Nadja Struβ, Ulf G Eriksson, Markus Fridén, Anders Lundqvist

Improvements in Awake Cough Frequency in SOOTHE, A Phase 2b Trial of BLU-5937 in Refractory Chronic Cough
Jaclyn Smith (Manchester (Greater Manchester), United Kingdom), Lorcan Mcgarvey, Alyn H. Morice, Surinder S. Birring, James Hull, Sylvain Lanouette, Ronghua Yang, Kristin Bartholomew, Laurent Harvey, Margaret Garin, Catherine M. Bonuccelli

The Effect of Inhaled Salbutamol on Mannitol Evoked Cough Responses: A Double-Blind Randomized Placebo Controlled 2-way Cross-Over Study
Mustafaah Wahab (Hamilton, Canada), Ruth Cusack, Caitlin Obminski, Karen Howie, Abbey Schlatman, Kieran Killian, Paul Obyrne, Imran Satia, Gail Gauvreau

Real World Effectiveness and Tolerability of low-dose opiates for Refractory/Unexplained Chronic Cough (RCC/UCC) in a tertiary clinic
James Wingfield Digby (Manchester (Greater Manchester), United Kingdom), Jenny King, James Wingfield-Digby, Sarah Hennessey, Ashley Woodcock, Jaclyn Smith, Paul Marsden
Safety and tolerability of inhaled molgramostim in autoimmune pulmonary alveolar proteinosis (aPAP)
Francesco Bonella (Düsseldorf, Germany), Jack Bennett, Badrul Chowdhury, Dhaval Desai

Efficacy in SOOTHE, A Phase 2b Trial of BLU-5937 In Refractory Chronic Cough, Was Not Dependant of Taste Disturbance Adverse Events
Surinder S. Birring (London, United Kingdom), Jaclyn A. Smith, Lorcan Mccarvey, Alyn H. Morice, Alan Goldsobel, Sylvain Lanouette, Ronghua Yang, Anna Levengood, Margaret Garin, Catherine M. Bonuccelli

Characteristics of Participants with Refractory Chronic Cough Enrolled in A Phase 2b Trial of BLU-5937
Alyn Hugh Morice (Cottingham, United Kingdom), Jaclyn A. Smith, Surinder S. Birring, Lorcan Mccarvey, Peter Dicpinigaitis, Mandel Sher, Sylvain Lanouette, Ronghua Yang, Margaret Garin, Catherine M. Bonuccelli

Suicidal ideation, depression and anxiety in chronic cough
Barnaby Hirons (London, United Kingdom), Katie Rhatigan, Anna Simpson, Harini Kesavan, Richard Turner, Jim Hull, Mary Docherty, Caroline Jolley, Surinder S Birring, Peter S P Cho

Health-related quality of life and its determinants in patients with chronic cough: a case-control study
Noeul Kang (Seoul, Republic of Korea), Ha-Kyeong Won, Ji-Hyang Lee, Ji Su Shim, Min-Hye Kim, Sung-Yoon Kang, Han-Ki Park, Eun Jung Jo, Seung Eun Lee, Sang-Heon Kim, Sae-Hoon Kim, Yoon-Seok Chang, Byung-Jae Lee, Min-Woo Jo, Woo-Jung Song

IMPALA-2: choice of DLCO as a primary endpoint in aPAP
Bruce Trapnell (Cincinnati, United States), Dhaval Desai, Badrul Chowdhury

Canadian health care professionals’ perceptions on the management and effectiveness of treatment of chronic cough – results from a healthcare sample survey
Nermin Diab (Toronto, Canada), Elena Kum, Mustafaa Wahab, Theodore Abraham, Sevag Sahakian, Paul Hernandez, Harold Kim, Maxime Cormier, Peter Lin, Anne Ellis, Louis-Philippe Boulet, Alan Kaplan, Stephen Field, Imran Satia

Analysis of transport mechanisms of substances applied to the airways in a transparent airway model
Christian Cornelissen (Aachen, Germany), Anja Lena Thiebes, Michael Dreher, Stefanie Gürzing, Manuel Reddemann

The effect of the COVID-19 pandemic on severe asthma care in Europe - will care change for good?

EVALUATION OF INCIDENCE AND COMPLICATIONS DURING COVID-19 DESEASE IN PATIENTS WITH ASTHMA
Jaime Pavon Guede (Madrid, Spain), Paul Kent Ernesto Freund, Ricardo Antonio Camperos Moreno, Isamar De Agrela Mendes, Katherine Pose, Inês Fernández Concha Llona, Daniel Laorden Escudero, Carlos Javier Carpio Segura, Javier Dominguez Ortega, David Romero Ribate, Itsaso Losantos García, Santiago Quirce, Rodolfo Álvarez-Sala Walther

The perspective of clinical pharmacist: what is the safety of complex polypharmacy in hospitalized COVID-19 patients?
Kateryna Gashynova (Dnipro, Ukraine), Olena Kovalenko, Vladyslava Rudakova, Kseniia Suska, Natalya But

Validity of a pathological score in the assessment of severe uncontrolled asthma
Hanaa Shafieek (Alexandria, Egypt), Cristina Gomez, Amanda Iglesias, Mar Mosteiro, Ana Gonzalez-Piñeiro, Marta Rodriguez, Mónica García-Cosio, Eladio Busto, Javier Martin, Melchor Saiz, Bairen Paz, Amparo Benito, Luis Mejías, Laura Lopez Vilaro, Borja G. Cosio

A case of excavated pneumopathy after bronchial thermoplasty
Nicolas Miguereus (Strasbourg, France), Mathilde Steger, Najil Khayath, Mickael Ohana, Christophe Marcot, Frederic De Blay

Formoterol exerts anti-cancer effects modulating oxidative stress and EMT processes in CSE exposed lung adenocarcinoma cells
Maria Ferraro (Palermo (PA), Italy), Serena Di Vincenzo, Simona Taverna, Elisabetta Pace
<table>
<thead>
<tr>
<th>Disease(s)</th>
<th>Thoracic oncology</th>
<th>Airway diseases</th>
<th>Interstitial lung diseases</th>
<th>Pulmonary vascular diseases</th>
<th>Sleep and breathing disorders</th>
</tr>
</thead>
<tbody>
<tr>
<td>Method(s)</td>
<td>Pulmonary rehabilitation</td>
<td>General respiratory patient care</td>
<td>Public health</td>
<td>Epidemiology</td>
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<td>Michele Vitacca (Gussago (BS), Italy), Jatu Aphinidasari (Surakarta (Central Java), Indonesia)</td>
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**Late Breaking Abstract - Availability and characteristics of pulmonary rehabilitation programs in family health centers and hospitals from Chile: cross-sectional and multicentric study**
Andrea Méndez (Santiago, Chile), Carlos Nieto, Gonzalo Hidalgo

**Learning of self-administered Active Cycle of Breathing Technique in patients with nCFb**
Rita Santos (Leiria, Portugal), José Ferreira, Sandra Ferreira, João Costa, Filipe Januário

**Outpatient pulmonary rehabilitation for patients with lung cancer: a retrospective real-world analysis**
Ralf Harun Zwick (Wien, Austria), Oliver Illini, Dietlinde Gattinger, Milos Petrovic, Arschang Valipour, Hannah Fabikan, Maximilian Johannes Hochmair

**Urinary incontinence is frequent among people with chronic respiratory disease attending pulmonary rehabilitation.**
Tristan Bonnevie (Saint Léger Du Bourg Denis, France), Fanny Laporte, Léna Bosquet, Pauline Smoandack, Guillaume Prieur, Yann Combret, Clément Médralin, Boujbar Fairuz, Jean-François Muir, Antoine Cuvelier, Francis-Edouard Gravier

**Predictors of survival in adults with Duchenne muscular dystrophy**
Anne-Christin Stöwhas (Zürich, Switzerland), Michael Furian, Esther Irene Schwarz, Beat Kindler, Michael Rosche, Frank Habersatter, Henning Arndt, Konrad Ernst Bloch

**Cognitive and psychological consequences of moderate-to-severe COVID-19 pneumonia: associations with clinical variables in convalescent patients without previous comorbidities.**
Claudio Candia (Naples, Italy), Pasquale Moretta, Pasquale Ambrosino, Anna Lanzillo, Salvatore Fuschillo, Antimo Papa, Luigi Trojano, Eliana Sferra, Antonio Molino, Mauro Maniscalco

**Rehabilitation facilitates the natural recovery of symptoms, mental health and quality of life outcomes post COVID-19.**
Andreas Asimakos (Athens, Greece), Stavroula Spetsioti, Ioannis Vogiatzis, Aspasia Movronasou, Pandelis Gounopoulos, Dimitra Siousioura, Efi Dima, Niki Gianioti, Ioanna Sigala, Sofia Pappa, Spyros Zakythinou, Anastasia Kotanidou, Paraskevi Katsaounou

**A psychological needs analysis of individuals with Long-Covid**
Amy Barradell (Leicester (Leicestershire), United Kingdom), Claire Bourne, Sally Singh, Noelle Robertson

**Early experiences of the your COVID recovery® programme for individuals with long COVID**
Phoebe H I Lloyd-Evans (Leicester, United Kingdom), Molly M Baldwin, Enya Daynes, Annabel Hong, George Mills, Amye Goddard, Emma Chaplin, Nikki Gardiner, Sally J Singh

**Employment status of referrals to a regional Long COVID service in the United Kingdom.**
Hafsa Shams-Khan (Liverpool, United Kingdom), Nneka Nwosu, Laura Watkins, Gurinder Tack

**Effects of pulmonary rehabilitation on major symptoms of long COVID (post-COVID-19 syndrome)**
Esperance Moine (Lodeve, France), Virginie Molinier, Francois Alexandre, Adriana Castanyer, Antonin Vernet, Amandine Calvat, Perrine Magrina, Melissa Roux, Audrey Fauge, Joan Lluis Aliaga Parera, Nicolas Oliver, Nelly Heraud

**Effects of pharmacological and non-pharmacological interventions on physical activity outcomes in chronic respiratory diseases: a systematic review and meta-analysis**
Dimitrios Megaritis (Newcastle upon Tyne, United Kingdom), Emily Hume, Nikolaos Chynkiamis, Christopher Buckley, Ashley Polhemus, Henrik Watz, Thierry Troosters, Ioannis Vogiatzis

**The first-year experience of a long covid clinic in a UK district general hospital**
Alarmeluvalli Sivaramakrishnan (Aylesbury, United Kingdom), Jaiminkumar Patel, Imogen Cotter, Tania Emiliou, Mitesh Desai, Mitra Shahidi

**Clinical phenotyping in COPD patients treated with triple therapy and admitted to a rehabilitative center: a real-world retrospective study.**
Michele Vitacca (Gussago (BS), Italy), Beatrice Salvi, Piero Ceriana, Luigino Rizzello, Antonio Spanevello, Mauro Maniscalco, Bruno Balbi, Claudio Bruschi, Paolo De Nardi, Mara Paneroni

**The appropriate outcome measure of pulmonary rehabilitation in individuals with chronic obstructive pulmonary disease**
Michele Vitacca (Gussago (BS), Italy), Mara Paneroni, Beatrice Salvi, Nico Ambrosino

**Striking high prevalence of quadriceps strength non-response after pulmonary rehabilitation in COPD**
Marion Desachy (Burgundy, France), Virginie Molinier, Francois Alexandre, Elodie Four, Laurene Charbonnel, Alain Varray, Nelly Heraud
How do Motor Neurone Disease (MND) patients perceive a Home Visit (HV) service at the Royal Berkshire Hospital (RBH)?
Francesca Knight (Reading, United Kingdom), Karena Cranstone, Anne Megown, Grace Robinson

Functional recovery of hospitalised patients with covid-19: a prospective cohort study
Marla Beauchamp (Hamilton, Canada), Renata Kirkwood, Andrew Costa, Mylinh Duong, Terence Ho, Rebecca Kruisselbrink, Hope Morrison, Aaron Jones, Parminder Raina

Impact of COVID-19 restrictions on physical activity in adults with severe asthma: a preliminary two-year retrospective analysis
Caroline Reilly (Leeds, United Kingdom), Ian Clifton, Daniel Peckham, Antonios Stavropoulos-Kalinoglou, Oliver Price

Clinical and functional characteristics of patients recovering from severe COVID-19 attending an inpatient pulmonary rehabilitation program
Luca Nicola Cesare Bianchi (Rovato (BS), Italy), Silvia Campagnini, Chiara Arienti, Andrea Mannini, Giorgia Mancini, Alessandro G Calabrò, Lucrezia Pianigiani, Paolo I Banfi, Janis Ruggeri, Serena Monteleone, Roberto Porta, Francesco Gigliotti

TP-18
Session 08:30 - 09:30

Thematic poster: Extrapulmonary traits and respiratory physiotherapy
Disease(s): 
Airway diseases
Thoracic oncology
Pulmonary vascular diseases
Method(s): 
Epidemiology
General respiratory patient care
Pulmonary rehabilitation
Physiology
Public health
Chairs: 
Andre Nyberg (Umeå, Sweden), Elena Gimeno Santos (Barcelona, Spain)

Functional status and impact of the disease in people with COPD according to symptoms’ burden
Ana Filipa Machado (Senhora da Hora, Porto, Portugal), Joana Antão, Sara Souto-Miranda, Vânia Rocha, Ana Alves, Joana Cruz, Cristina Jácome, M Aurora Mendes, Vitória Martins, Paula Simão, Chris Burtin, Alda Marques

Pain and fatigue inference in patients with severe COPD refraining from PR attendance: A cross-sectional multicenter study
Henrik Hansen (Dragør, Denmark), Jeanette Hansen, Stig Molsted, Charlotte Suppli Ulrik, Nina Godtfredsen

Investigation of the relationship between cognitive function and upper extremity exercise capacity in COPD- a pilot study
Elvan Felekoglu (Izmir, Turkey), Bedriye Dag, Ilknur Naz, Melissa Kopruluoglu, Hulya Sahin

Effect of physical effort on postural balance in COPD and OSA
Caroline Maschio de Censo (São Paulo, Brazil), Viviane Vieira Passini, Bárbara Aparecida Teodoro Alcantara Verri, Regina Maria De Carvalho-Pinto, Rafael Stelmach, Geraldo Lorenzi-Filho, Rafaela Fagundes Xavier, Celso Ricardo Fernandes Carvalho

Postural balance in COPD with obstructive sleep apnea: a cross-sectional study
Caroline Maschio de Censo (São Paulo, Brazil), Viviane Vieira Passini, Bárbara Aparecida Teodoro Alcantara Verri, Regina Maria De Carvalho-Pinto, Rafael Stelmach, Geraldo Lorenzi-Filho, Rafaela Fagundes Xavier, Celso Ricardo Fernandes Carvalho

Brain-heart autonomic axis, health status, symptomatology and functionality in AECOPD
Renata Mendes (Sao Carlos (SP), Brazil), Renata Gonçalves Mendes, Nathany Souza Schaufauer, Nicole Marques Sgarbosa, Erika Zavaglia Kabbach, Alessandro Domingues Heubel, Débora Mayumi De Oliveira Kawakami, Naiara Tais Leonardi, Audrey Borghi-Silva

Characteristics of individuals with moderate to severe asthma who better respond to aerobic training: a cluster analysis
Celso Ricardo Fernandes de Carvalho (São Paulo (SP), Brazil), Adriana Lunardi, Patricia Freitas, Tiago Endrigue, Ronaldo Silva, Felipe Mendes, Andrezza França, Regina Carvalho-Pinto

Relationship of dietary pattern with body composition and symptoms in patients with COPD
Joana Cruz (Leiria, Portugal), Tiago Novo, Sofia Flora, Marlene Lages, Nádia Hipólito, Marisa Cebola, Maria P. Guarino

Cardiac autonomic function, exercise capacity and physical activity in patients with COPD
Fien Hermans (Gent, Belgium), Eva Arents, Astrid Blondeel, Patrick Calder, Thierry Troosters, Eric Derom, Heleen Demeyer

Factors associated with asthma-related quality of life in moderate-to-severe asthma
Karen Hjerrild Andreasson (Næstved, Denmark), Mike Thomas, Seren T Skou, Uffe Bodtger

Validity and Reliability of upper limb muscles strength measurements by handheld dynamometer in COPD
Marc Beaumont (Morlaix, France), Loic Péran, Anne-Cécile Berriet, Rodolphe Keller, Catherine Le Ber
Investigation of Factors Associated with Fall Risk in Lung Cancer Survivors
Büşra Turgut (Izmir, Turkey), Ilknur Naz, Sevtap Gunay Uçurum, Berna Kömürçüoğlu, Derya Özer Kaya

Investigation of the relationship between balance, self-confidence, fear of falling, and physical function in cancer patients who have undergone lung resection.
Büşra Turgut (Izmir, Turkey), Ilknur Naz, Sevtap Gunay Ucurum, Berna Komurcuoglu, Derya Oz Kaya

Fatigue in COPD patients on long term oxygen therapy: a cross-sectional study
Mara Paneroni (Mazzano (BS), Italy), Michele Vitacca, Laura Comini, Beatrice Salvi, Massimo Venturelli

Comparison of Sitting Balance and Functional Independence Levels of COPD Patients Receiving and Not Receiving Non-Invasive Mechanical Ventilation Therapy
Büşra Turgut (Izmir, Turkey), Ilknur Naz, Cenk Kirakli

Comparison of Disease Knowledge Level, Dyspnea, Disease Status and Quality of Life in COPD Patients with and without Comorbidities
Elvan Felekoglu (Izmir, Turkey), Melissa Koprulioğlu, Ilknur Naz, Hülya Şahin

Association of sleep quality-quantity with sedentary time and physical activity in bronchiectasis
Victoria Alcaraz Serrano (Barcelona, Spain), Beatriz Herrero-Cortina, Ane Arbillaga-Etxarri, Rodrigo Torres-Castro, Joan Daniel Marti-Romeu, Laia Fernandez-Barat, Antoni Torres-Marti, Elena Gimeno-Santos

Late Breaking Abstract - Innovative exercise for optimizing exercise intensity in COPD
Johan Jakobsson (Umeå, Sweden), Jana De Brandt, Mattias Hedlund, Anna-Clara Rullander, Andre Nyberg

Thematic poster: Clinical problems in respiratory medicine: 1

Disease(s) : Airway diseases, Interstitial lung diseases

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

Chairs : Jan Willem Duitman (Lelystad, Netherlands), Tiziana Patrizia Cremona (Bern, Switzerland)

Persistent interstitial involvement in relation to the severity of SARS CoV-2 infection
Ana Roca Noval (Madrid, Spain), Rocío García García, Miguel Jiménez Gómez, Eduardo Catalinas Muñoz, Julia Diaz Miravalls, Layla Diab Cáceres

Modification of the Rheumatoid Arthritis (RA) Patient Reported Experience Measure (PREM) for patients with Interstitial Lung Disease (ILD)
Jessica Mandizha (Exeter, United Kingdom), Anna Duckworth, Howard Almond, Graham Brown, Sarah Lines, Ana Jorge Da Ponte, Rebecca Shuttleworth, Joe Lanario, Matthew Steward, Ross Sayers, Chris Scotton, Michael Gibbons, Anne-Marie Russell

Late-onset noninfectious pulmonary complications after allogeneic hematopoietic stem cell transplantation- risk factors, prognosis
Özlem Isik (Ankara, Turkey), Güldane Cengiz Seval, Serhat Erol, Selami Koçak Toprak, Özlem Özdemir Kumbasar

Immunoglobulin G4-related thoracic disease: clinical and radiological findings of an eastern mediterranean cohort
Asli Alkan Oncel (Ankara, Turkey), Gamze Durhan, Gozde Kubra Yardimci, Umran Ozden Sertcelik, Bayram Farisogullari, Macit Artyurek, Omer Karadag, Deniz Koksal

COVID-19 patients : predictive factors for home therapy oxygen
Nouha Guediri (Tunis, Tunisia), Islam Mejri Lajili, Nouha Boubaker, Selsebil Dabboussi, Samira Mhamdi, Chiraz Aichoua, Zied Moatamari

COVID-19 and comorbidity: possible complications of the complex pharmacotherapy
Kateryna Gashynova (Dnipro, Ukraine), Olena Y. Kovalenko, Olena N. Kovalenko, Vladyslava Rudakova

The examination of the second-line chemotherapy in SCLC patients with interstitial lung disease
Ryohiko Ozaki (Tokushima, Japan), Hiroshi Nokihara, Youhei Yabuki, Atsushi Mitsuhashi, Hiroto Yoneda, Kenji Otsuka, Hirokazu Ogino, Yasuhiko Nishioka

Service evaluation of cardiac MRI imaging in patients presenting with an undiagnosed eosinophilia
Hnin Wint Aung (Market Harborough, United Kingdom), Kay Kyaw, Mohammad Bilal Habib, Shamsa Naveed, Salman Siddiqui

Distribution of sequelae in post-covid patients according to previous need of respiratory support
Enrico Buonamico (Bari (BA), Italy), Andrea Portacci, Fabrizio Diaferia, Paola Pierucci, Esterina Boniello, Ilaria Iorio, Cristian Locorotondo, Sara Quaranta, Ernesto Lulaj, Giovanna Elisiana Carpagnano
**Long-term symptoms in patients with EVALI (e-cigarette or vaping associated lung injury) compared with people who vape**

Denizta Blagev (Salt Lake City, United States), Sean Callahan, Dixie Harris, Dave Collingridge, Mona Hopkins, Jackie Eve, Lindsey Waddoups, Valerie Aston, Samuel Brown, Michael Lanspa

**Bacterial Etiology of Slow Resolving Pneumonia in adults: Study of 138 cases**

Muhammad Irfan (Lahore (Punjab), Pakistan), Syed Amir Gilani, Ejaz Qureshi, Abdul Rasheed Qureshi

**Predictive factors for Long COVID in adults previously hospitalized for COVID-19**

Leila Douik El Gharbi (Ariana, Tunisia), Ines Moussa, Tasnim Znegui, Imen Sahnoun, Maroua Bougacha, Asma Allouche, Chiraz Ksouri

**Idiopathic Pulmonary Fibrosis in Australia: A cost of illness study.**

Ingrid A. Cox (Bellerive (TAS), Australia), Barbara De Graaff, Hasnat Ahmed, Julie Campbell, Petr Otahal, Tamera Corte, Yuben Moodley, Nicole Goh, Peter Hopkins, Sacha Macansh, Haydn Walters, Andrew Palmer

**Gender differences in frequency-based parameters of COVID-19 cough at varying levels of disease severity**

Clare Davidson (Barcelona, Spain), Oswaldo Antonio Caguana, Manual Lozano-Garcia, M Arita, Luis Estrada-Petrocelli, Ignasi Ferrer-Lluis, Yolanda Castillo-Escario, P Ausin, Joaquim Gea, Raimon Jané

**Comparing patient outcomes from COVID-19 infection across three separate waves**

Paren Chohan (BROMSGROVE, United Kingdom), Andrew Crawford, Muhammad Zafar, Ellepola Wijayasinghe, Mazhar Chaudri

**Prone positioning procedure in COVID-19 radiological phenotypes**

Pasquale Tondo (Foggia, Italy), Giulia Scioscia, Filomena Simone, Giulio Giganti, Michela Salvemini, Antonella Giuliani, Anela Hoxhallari, Maria Pia Foschino Barbaro, Donato Lacedonia

**Younger Age as a Predictor of Mortality from COVID-19 in Hematological Patients**

Kateryna Gashynova (Dnipro, Ukraine), Hanna Usenko

**Intra-hospital complications during SARS-CoV2 infection**

safa marzouki (ben arous, Tunisia), Sabrine Louhaichi, Besma Hamdi, Jamel Ammar, Agnes Hamzaoui

**Interstitial lung abnormalities – real-world evidence**

Carina Rôlo Silvestre (S. João das Lampas, Portugal), Catarina Custódio, Susana Clemente, Silvia Rodrigues, Sofia Furtado, Rui Maio

**Differences between former smokers and non-smokers during post-Covid period**

Darjan Ranilović (Zagreb, Croatia), Ivan Marasović, Ivona Kovačević, Đivo Ljubičić, Jasna Tekavec-Trkanjec
Clinical consequences of health measures and lock down for covid-19 in exacerbations in patients with chronic obstructive pulmonary disease (COPD)
Carlos Manzano Senra (Lleida, Spain), Laura Alcarraz, Anna Moncusí, Sally Santistevé, Jessica Gonzalez, Ferran Barbé

SYSTEMIC PROTEOMIC PROFILES OF COPD PATIENTS AT CLINICAL STABILITY AND EXACERBATION
César Jessé Enriquez-Rodríguez (Barcelona, Spain), Carme Casadevall, Sergi Pascual-Guardia, Rosa Faner, Germán Peces-Barba, José Luis López-Campos, Eduard Monsó, Alvar Agustí, Joaquim Gea Gural

Relationship between the microbiome and the GOLD Stage during exacerbations
Laia Fernandez Barat (Barcelona, Spain), Ruben Lopez-Aladid, Leticia Bueno-Freire, Adrian Ceccato, Arturo Huerta, Nestor Soler, Antoni Torres

Heart Rate Recovery After Cardiopulmonary exercise test Predicts Acute Exacerbation in COPD
Shan Nie (Beijing, China), Ailin Yang, Wei Yuan, Bo Xu, Bo Nan Jia, Haooyan Wang

Modifiable factors associated with acute exacerbations in patients with chronic obstructive pulmonary disease
Shehanaaz Begum (Trivandrum, India), Reshmi Nair, Kamala R, Anithakumari K

COVID-19 incidence and hospitalization in routine clinical practice among COPD patients in England in 2020
Kieran Rothnie (London, United Kingdom), Theo Tritton, Xu Han, Tim Holbrook, Beade Numbere, Alexander Ford, Lucy Massey, Qinggong Fu, Fiona Hutchinson, Helen Birch, David Leather, Raj Sharma, Chris Compton, Afisi Ismaila

Impact of rs16969968 polymorphism (SNP 5) on epithelial differentiation in COPD patients
Lynda SABER CHERIF (REims, France), Zania Diabasana, Jeanne-Marie Perotin, Julien Ancel, Phillipe Gosset, Uwe Maskos, Gaeten Deslée, Valerian Dormoy

COPD and COVID-19: a dangerous association?
Lucía Méndez González (Santa Maria da Feira, Portugal), Jorge Ferreira, Cátia Caneiras

Are neutrophil to lymphocyte ratio and platelet to lymphocyte ratio a useful markers to predict the severity of COPD and future acute exacerbation?
Aissa Sana (Sousse, Tunisia), Omrane Asma, Knaz Asma, Benzarti Wafa, Ben Jazia Rahma, Kacem Ameni, Gargouri Imene, Abdelghani Ahmed, Hayouni Abdelaziz

Utility of echocardiographic measurement in assessing pulmonary arterial hypertension (PH) in COPD and correlation with severity and potential risk of acute exacerbation within 30 days
Aissa Sana (Dakar, Tunisia), Omrane Asma, Knaz Asma, Ben Jazia Rahma, Kacem Ameni, Gargouri Imene, Abdelghani Ahmed, Hayouni Abdelaziz

Mortality according to age, sex, or congestive heart failure after an acute COPD exacerbation. COHERENT-COPD study.
Maria Piñeiro Roncal (Madrid, Spain), Eduardo Catalinas Muñoz, Joaquín Sánchez-Covisa Hernández, Clara Goñi Echeverría, Héctor Bueno Zamora, José Luis Bernal Sobrino, Mónica Juarez Campo, María Piñeiro Roncal, María Teresa Tejedor Ortiz, Carlos José Alvarez Marínez

Applying machine learning to telehealth care data to predict acute COPD exacerbations.
Petra Jacobson (LINKÖPING, Sweden), Marina Santini, Leili Lind, Hans Lennart Persson

Blood eosinophil counts during severe exacerbations do not reflect stable state inflammatory phenotype in COPD
Arun Prasad (Newcastle Upon Tyne, United Kingdom), Carlos Echevarría, John Steer, Stephen C Bourke

Hyperhomocysteinemia as the main thrombophilic risk marker in COPD
Elmorahon Abduganieva (Tashkent, Uzbekistan), Irina Liverko

**TP-25 Session 08:30 - 09:30**

**Thematic poster: Risk assessment in pulmonary arterial hypertension**

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

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

**Chairs:** Athénaïs Boucly (Le Kremlin Bicêtre, France), Vasile Foris (Graz, Austria)
Validation of EmPHasis-10 health-related quality of life assessment tool in Canadian patients with pulmonary hypertension.
Jason Weatherald (Edmonton, Canada), Ainslie McBride, Doug Helmersen, Naushad Hirani, Mitham Kularatne, Jonathan Liu, Lea Harper, Aruba Naser, Rhea Varughese

Narrative medicine to investigate patients’ and caregivers’ experience of pulmonary arterial hypertension: the inspecto study
Fabiana Baldi (Rome, Italy), Fabiana Baldi, Laura Scelsi, Pietro Ameri, Gian Piero Perna, Carlo D'Agostino, Piergiuseppe Agostoni, Natale Daniele Brunetti, Lorenzo Dagna, Giuseppe Galgano, Antonietta Cappuccio, Alessandra Fiorenics, Francesco Rucci, Roberta Termine, Stefano De Santis

Correlation of emPHasis-10 with clinical tests: insights from the ASPIRE registry
Samer Alabed (Sheffield, United Kingdom), Krit Dwivedi, Charlotte Durrington, Faisal Alandejani, Robert Lewis, Charlie Eilliot, Athanasios Charalampopoulos, Roger Thompson, Abdul Hameed, Alexander Rothman, Iain Armstrong, Robin Condliffe, Andy J Swift, David G Kiely

Health disparities and differences in health-care-utilization in patients with pulmonary arterial hypertension
Da-Hee Park (Hannover, Germany), Tanja Meltendorf, Kai G. Kahl, Jan C. Kamp, Manuel J. Richter, Marius M. Hoepner, Karen M. Olsson, Jan Fuge

Prognostic importance of centrilobular ground glass changes in patients with Idiopathic Pulmonary Arterial Hypertension
krit Dwivedi (Sheffield, United Kingdom), Michael Sharkey, Robert Lewis, Michail Mamalakis, Samer Alabed, Smitha Rajaram, Catherine Hill, David Kiely, Jim Wild, Andrew Swift, Robin Condliffe

The significance of normal lung regions on quantitative CT in pulmonary hypertension
Tadasu Okaya (Tokyo, Japan), Ayako Shigeta, Nobuhiro Tanabe, Akira Nishiyama, Hajime Yokota, Toshihiko Sugiura, Seiichiro Sakao, Koichiro Tatsumi, Takaji Suzuki

Different exercise tests with different risk assessment in PAH patients
Amaya Martinez Mejía (Santander (Cantabria), Spain), Raquel Luna Lopez, Víctor Manuel Mora Cuesta, Teresa Segura De La Calf, Alejandro Cruz Utrilla, Pilar Alonso Lecue, Jose Manuel Gíl Martínez, Pilar Escribano Subias

Limitations of functional class for predicting severity in pulmonary hypertension in Colombia
Manuel Conrado Pacheco Gallego (Pereira (Risaralda), Colombia), Rafael Conde, Alejandro Londoño, Carlos Jaime Velásquez, Ricardo Gómez-Palau, Diana Tiga, Juliana De Luque, Alba Ramirez-Sarmiento, Mauricio Orozco-Levi

COMPERA score revised: better risk estimation to better tailor therapeutics in precapillary hypertension
Joana Brito (Lisbon, Portugal), Pedro Alves Da Silva, Sara Couto Pereira, Beatriz Garcia, Joana Rigueira, Tatiana Guimarães, Ana G Almeida, Fausto J Pinto, Rui Placido

Utility of the six minute walking test (6MWT) in the follow-up of patients with pulmonary arterial hypertension (PAH), is there a correlation between the distance walked and oxygen consumption?
Isabel Muñoz Ramirez (Seville, Spain), Alfonso Marin Andreu, Raquel De Andrés David, Aureliano Asis Daza, Maria Morales Gonzalez, Aurelio Arnedillo Muñoz

CMR assessed maladaptive right ventricular remodelling predicts treatment failure in pulmonary arterial hypertension
Ze Ming Goh (Leeds, United Kingdom), Nithin Balasubramanian, Samer Alabed, Krit Dwivedi, Yousef Shahin, Alexander Mk Rothman, Pankaj Garg, Allan Lawrie, David Capener, A.A. Roger Thompson, Faisal Alandejani, James M Wild, Christopher S Johns, Robert A Lewis, Rebecca Gosling, Michael Sharkey, Robin Condliffe, David G Kiely, Andrew J Swift

Prognostic impact of hypochromic erythrocytes in patients with pulmonary arterial hypertension
Vivienne Theobald (Heidelberg, Germany), Panagiota Xanthouli, Nicola Benjamin, Alberto Marrà, Anna D’Agostino, Benjamin Egenlauf, Memoona Shaukat, Cao Ding, Antonio Cittadini, Eduardo Bossone, Maria Kögl, Ekkehard Grünig, Martina Muckenthaler, Christina Eichstaedt

Risk stratification approaches perform differently in SSc-associated PAH in EUSTAR
Anna Maria Hoffmann-Vold (Oslo, Norway), Hilde Jenssen Bjørkvikjer, Cosimo Brunì, Patricia E. Carreira, Paolo Airò, Carmen-Pilar Simeón-Aznar, Marie-Elise Treuchetet, Alessandro Giolli, Alexandra Balbir-Gurman, Mickaël Martin, Christopher Denton, Armando Gabrielli, Håvard Fretheim, Imon Barua, Helle Bitter, Øyvind Midtvedt, Kaspar Broch, Arne Kristian Andreassen, Yoshiha Tanaka, Gabriela Riemenkasten, Ulf Müller-Ladner, Marco Matucci Cerinic, Ivan Castellví, Elise Siegert, Eric Hachulla, Oliver Distler

Pulmonary Arterial Hypertension risk assessment model using Bayesian Network analysis
Charles Fauvel (Columbus, United States), Zilu Liu, Shili Lin, Priscilla Correa-Jaque, Amy Webb, Rebecca Vanderpool, Raymond Benza
Oxygenated hemoglobin as prognostic marker among patients with systemic sclerosis screened for pulmonary hypertension
Ojan Gordjani (Gelnhausen, Germany), Panagiota Xanthouli, Christina Eichstaedt, Nicola Benjamin, Franziska Trudzinski, Benjamin Egenlauf, Satenik Harutyunova, Alberto Marra, Nicklas Milde, Christian Nagel, Norbert Blank, Hanns-Martin Lorenz, Ekkehard Grüning

Prediction of peak oxygen uptake from 6-minute walk test in pulmonary hypertension
Simon Raphael Schneider (Zürich, Switzerland), Paula Appenzeller, Fiorenza Gautschi, Julian Müller, Mona Lichtblau, Stéphanie Saxer, Esther Irene Schwarz, Silvia Ulrich

Ventilatory limitation during cardiopulmonary exercise testing predicts survival in patients with pulmonary arterial hypertension with Eisenmenger physiology
Chinthaka Samaranayake (London, United Kingdom), Ruth Méniven, Aleksander Kempny, Laura C Price, Carl Harries, Michael Gatzoulis, Konstantinos Dimopoulos, S John Wort, Colm McCabe

D-Dimer predicts mortality in a real-life cohort of patients with indication for right heart catheterization
Vasile Foris (Graz, Austria), Florian Prüller, Gabor Kovacs, Alexander Avian, Philipp Douschan, Teresa Sassmann, Katarina Zeder, Markus Herrmann, Horst Olschewski

Lung transplantation in pulmonary arterial hypertension (PAH): survival analysis according to PAH risk
Marta Zapata Ortega (Barcelona, Spain), Eva Revilla López, Berta Sáez Gimenez, Cristina Berastegui García, Marta Arjona Peris, Victor Monforte Torres, Carlos Bravo Mansor, Enric Domínguez Ribas, Manuel López Meseguer

Elevated alveolar nitric oxide in precapillary pulmonary hypertension decreases after therapy
Balázs Csoma (Budapest, Hungary), Györgyi Csósa, Gergő Szűcs, Veronika Müller, Kristóf Karlócai, Zsófia Lázár

TP-13 Session 08:30 - 09:30

Thematic poster: Miscellaneous: biomarkers for the management of chronic lung diseases

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

Method(s): Epidemiology, Public health, Pulmonary function testing, Physiology

Chairs: Justus Simba (Thika, Kenya), Nikoletta Rovina (Athens, Greece)

Characteristics of medication errors among respiratory drugs within the Food and Drug Administration’s Adverse Event Reporting System
Katia Mc Verhamme (Rotterdam, Netherlands), Victor Pera, Peter Rijnbeek, Johan Van Der Lei, Jan Kors, Rowan Parry, Erik Van Mulligen, Marcel De Wilde, Guy Brusselle, Guy Brusselle

Abdominal and general obesity: associations with asthma and COPD in women and men.
Marta Alina Kisiel (Uppsala, Sweden), Andrei Malinovschi, Eva Lindberg, Mathias Holm, Thorarinn Gislason, Vivi Schlunssen, Karl Franklin, An Johannessen, Christier Janson

Programmatic advantage of cost-effective and highly sensitive rapid COVID-19 diagnostic with two-step screening strategy for airport quarantine in Bangladesh
Farzana Zaman (Dhaka, Bangladesh), Muhammad Asaduzzaman

Spatial assessment of disease surveillance during the first wave of the COVID-19 pandemic
Florence Tydeman (gias, United Kingdom), Kim Kavanagh, Chris Robertson

Incidence of dyspnea and hyperventilation syndrome after COVID-19
Sabrine Majdoub Fehri (Nabeul, Tunisia), WAFA MADI, Rahma Sellami, Ahmed Dhiaa Eleuch, Racem Ammar, Imen Ketata, Hamida Kwas

Tuberculosis in healthcare workers of Ukraine
Artemii Bogomolov (Vinnytsia, Ukraine), Sergii Zaikov, Oksana Litvinyuk

Characterisation and burden of eosinophilic granulomatosis with polyangiitis: a European retrospective study
Rupert Jakes (London, United Kingdom), Namhee Kwon, Lynn Huynh, Jeremiah Hwee, Lee Baylis, Rafael Alfonso-Cristancho, Shawn Du, Anamika Khanal, Mei Sheng Duh

Reference values for abdominal obesity in adult men and women: data from the Austrian LEAD Study.
Christoph Valach (Vienna, Austria), Emil F. M. Wouters, Alina Ofenheimer, Patricia Puchhammer, Pasquale P. Pompeio, Alessandro Gobbi, Marie K. Breyer, Sylvia Hartl, Otto C. Burghuber, Robab Breyer-Kohansal

Respiratory symptoms and lung function in Women
Nadia Hammache (Alger, Algeria), Salim Nafti, Rachid Abdellaziz
Association of tuberculosis infection with asthma in a European multinational cohort
Sanjay Gyawali (Bergen, Norway), Juan Pablo López Cervantes, Tehmina Mustafa, Cecilie Svanes, Rajesh Shigdel

Treatment with oral anticoagulants and risk of mortality in COVID-19 patients
Sarah Altaraihi (Copenhagen, Denmark), Peter Kamstrup, Josefin Eklöf, Pradeesh Sivapalan, Jens Ulrik Stehr Jensen

Associations for food and carbohydrate intake with asthma in young Chinese adults from Singapore and Malaysia
Qi Yi Ambrose Wong (Singapore, Singapore), Jun Jie Lim, Jun Yan Ng, Praneeth Malipeddi, Wei Yi Teo, Yi Ying Eliza Lim, Yi Ru Wong, Keng Fu Teh, Smyrna Moti Rawanan Shah, Kavita Reginald, Yee How Say, Sri Anusha Matta, Yang Yie Sio, Fook Tim Chew

The many diseases associated with dyspnoea: a MeSH term and semantic analysis of the PubMed literature
Troy Cross (Forest Lodge, Australia), Sarah Morris, Hayley Lewthwaite

Association between candidate gene polymorphisms and total IgE in adult subjects with asthma: preliminary results from the GEIRD study
Valentina Lando (Verona, Italy), Lucia Calciano, Giovanni Malerba, Cristina Bombieri, Marcello Ferrari, Nicola Murgia, Morena Nicolis, Mario Olivieri, Simone Accordini

Adipokines in restrictive spirometric pattern
Ulf Nilsson (Umeå, Sweden), Hermon Amman, Stefan Söderberg, Anders Blomberg, Helena Backman, Anne Lindberg

Second primary lung cancer, an increasingly recognised entity in cancer survivors.
Hardeep Singh Kalsi (London, United Kingdom), Des Campbell, Nick Low, Richard Lee

Bronchiectasis and pneumonia-hospitalization risk: The impact of social distancing measures – A cohort study
Valdemar Romer (Copenhagen, Denmark), Martina Bjorka Fosgaard, Pradeesh Sivapalan, Josefín Eklöf, Mohammad Isam Saeed, Louise Lindhardt Tønnesen, Alexander Svorre Jordan, Rikke Sørensen, Tina Gissel, Ulla Weinreich, Sofie Johansson, Jens-Ulrik Stehr Jensen

Late Breaking Abstract - Real world endotype stability and exacerbation rates in T2low asthma
Arja Vinnanen (Paimio, Finland), Juhani Aaxko, Gunilla Telg, Kaisa Nieminen, Mariann Lassenius, Hannu Kankaanranta, Lauri Lehtimäki

Late Breaking Abstract - Race/ethnic, social, environmental, and genetic correlates to lung function decline: the Multi-Ethnic Study of Atherosclerosis (MESA) Lung Study

Late Breaking Abstract - 1-Antitrypsin deficiency associated with increased risk of heart failure in two large populations
Sine V Winther (Køge, Denmark), Eskild Landt, Børge Nordestgaard, Niels Seersholm, Morten Dahl

Thematic poster: High flow therapy and NIV in the acute and chronic setting

Disease(s): Respiratory critical care, Sleep and breathing disorders, Pulmonary function testing
Method(s): General respiratory patient care, Respiratory intensive care, Physiology, Epidemiology, Pulmonary function testing
Chairs: Marieke L. Duiverman (Groningen, Netherlands), Chloé Cantero (Paris, France)

Are home high-flow therapy (HFT) devices as good as hospital HFT devices?
Emeline Fresnel (Bois-Guillaume, France), Sirine Layla, Adrien Kerfourn, Tristan Bonnevie, Léa Razakamanantsoa, Christophe Girault, Maxime Patout

Heated, humidified high flow therapy at home setting in children with respiratory failure- Single centre experience
Eman Hassanin (Horsfoth, United Kingdom), Saikiran Gopalakaje, Christopher Edwards

Improved survival with high pressure NIV for acute hypercapnic respiratory failure in COPD
Caroline Hedsund (København Ø, Denmark), Philip Mørkeberg Nilsson, Nils Hoyer, Daniel Bech Rasmussen, Claire Præst Holm, Jens Ulrik Jensen, Jon Torgny Willeke

Non-invasive ventilation for COPD exacerbations in daily clinical practice
Judith Elshof (Groningen, Netherlands), Anouschka Van Der Pough, Els Fikkers, Petra J.E. Vos, Peter J. Wijkstra, Marieke L. Duiverman
Association of admission pH with long-term mortality in patients requiring non-invasive ventilation (NIV) for obesity-related respiratory failure (ORRF)
Aditya Krishnan (Birmingham, United Kingdom), Kathryn Brammer, Pearlene Antoine-Pitterson, Alain Al Helou, Alice Turner, Rahul Mukherjee

RISK FACTORS FOR RESPIRATORY INFECTIONS IN ALS PATIENTS
Natalia Pascual Martínez (Cordoba, Spain), Estefanía Mira Padilla, Cristina Gómez Rebollo, Cristina Muñoz Corroto, Pablo García Lovera, Elena Lesaga López, Miguel Angel Mendoza Alarcón, Roberto Martín De León

Use of mathematically arterialised venous blood gas sampling: Comparison with arterial, capillary, and venous sampling
Michael Davies (Cambridge (Cambridgeshire), United Kingdom), Dariusz Woźniak, Tim Quinell, Earl Palas, Susan George, Yinchang Huang, Ian Smith, Lars Pilegaard Thomsen, Stephen Rees

Exhaled gases and the potential of cross infection from NIV machines.
Nicholas Lane (Newcastle Upon Tyne, United Kingdom), Ben Messer, Alison Armstrong

Utility of Cobb angle as predictor of noninvasive ventilation initiation in patients with kyphoscoliosis.
Antonio Quezada Reynoso (València (Comunidad Valenciana), Spain), Jesus Sancho Chinesta, Santos Ferrer Espinosa, Jaime Signes-Costa

Home noninvasive ventilation in Myasthenia Gravis: features and predictors.
Antonio Quezada Reynoso (València (Comunidad Valenciana), Spain), Santos Ferrer Espinosa, Jesus Sancho Chinesta, Elia Giménez Sambлас, Ana María Ferrer Marti, Jaime Signes-Costa

Long term continuous positive airway pressure prescription after an acute hypercapnic respiratory failure
Katiushka Herminia Liendo Martinez (Madrid, Spain), Daniel López Padilla, Virginia Gallo González, Elena Ojeda Castillejo, Alicia Cerezo Lajas, Francisco Caballero Segura, Teresa Gómez García, Luis Puente Maestú, Soledad López Martín

Remote monitoring and virtual follow-up ventilation clinics in the age of Covid-19
Cat Goodin (Nottingham, United Kingdom), Alex Bond-Alliston, Milind Sovani

The role of simulation in non-invasive ventilation training for healthcare professionals
Rosie Yeoward (London, United Kingdom), Jasna Mamuza, Alice Kitt, Vladimir Macavei

Long-term effects of Noninvasive ventilation (NIV) on exacerbations rate and mortality in stable hypercapnic COPD patients
Michail Fanaridis (Heraklion, Greece), Izolde Bouloukaki, Georgios Stathakis, Georgios Vaios, Athanasios Voulgaris, Paschalis Steiropoulos, Nikolaos Tzanakis, Sophia Schiza

Analysis of Home Non-Invasive Ventilation ambulatory monitoring in chronic hypercapnic respiratory failure
Eleonora Russo (Torino, Italy), Alessio Mattei, Michela Maria Bellochcia, Fulvia Ribolla, Chiara Chiapperro, Giuseppe Tabbia, Marco Michele Bardessono, Federico Sciarrone, Mattia Verardo, Francesco Todisco, Elena Sitia, Carlo Albera

TP-24 Session 08:30 - 09:30
Thematic poster: Interstitial lung diseases diagnosis in the COVID-19 era: new tools for new challenges
Disease(s): Interstitial lung diseases
Method(s): General respiratory patient care Endoscopy and interventional pulmonology Epidemiology Pulmonary function testing Imaging Public health
Chairs: Antoine Froidure (Bruxelles, Belgium), Margarida Afonso (Castelo Branco, Portugal)

Phenotypes of post covid interstitial lung disease: clinical, radiological, and pathological correlations.
Leonardo Gori (Florence, Italy), Claudia Ravaglia, Valentina Luzzi, Luca Ciani, Leonardo Giuntoli, Giulia Biadene, Sonia Bambina, Martina Marinaro, Alessandra Dubini, Diletta Cozzi, Edoardo Cavigli, Camilla Comin, Valeria Pasini, Silvia Puglisi, Alberto CavaZZA, Venerino Polletti, Michele Spinicci, Alessandro Bartoloni, Anna Peired, Edoardo Berillo, Cosimo Nardi, Elisabetta Rosi, Federico Lavorini, Sara Tomasetti

Post-COVID interstitial lung disease in symptomatic patients after hospital discharge
Lorinc Polivka (Úröm, Hungary), Eniko Barczi, Tamas Nagy, Gabor Horvath, Aniko Bohacs, Veronika Muller

COVID-19 in interstitial lung diseases: are fibrotic ILDs associated with worse outcomes?
Maria Carolina Alves Valente (Santo Tirso, Portugal), Mariana Serino, Beatriz Martins, Mariana Martins, Inês Carvalho, Miguel Barbosa, Marina Alves, Catarina Cascais, André Terras Alexandre, Natália Melo, Patricia Caetano Mota, António Morais, Hélder Novais-Bastos
Non-Detection of Post Covid Pulmonary Fibrosis (PCPF) through HRCT and PFT but possible through Transbronchial Lung Biopsy
Vijay Narain Tyagi (Meerut (Uttar Pradesh), India), Shivkant Agarwal, Charul Dubral, Manish Mittal, Manya Narain Tyagi

Post-COVID-19 Interstitial Lung Disease: a new entity, what do we deal with?
AYCAN YUKSEL (Ankara, Turkey), Dilek Karadoğan, Nur Hürsoy, Gökhan Telatar, Neslihan Köse, Feride Marmil, Ilknur Kaya, Ashlihan Banu Er, Merve Erçelik, Demet Polat, Merve Yumrukuz, Ökkeş Gültekin, Ceren Ilgar, Selin Çakmakçı, Bilge Yılmaz Kara, Neslihan Özçelik, Inci Selimoğlu, Kübra Uyar Er, Abdurrahman Kotan, Hasan Veyesel Keskin, Metin Akgün

Methylprednisolone in the treatment of post-COVID-19 Interstitial Lung Disease (STERCOV-ILD)
AYCAN YUKSEL (Ankara, Turkey), Dilek Karadoğan, Nur Hürsoy, Gökhan Telatar, Neslihan Köse, Feride Marmil, Ilknur Kaya, Ashlihan Banu Er, Merve Erçelik, Demet Polat, Merve Yumrukuz, Ceren Ilgar, Ökkeş Gültekin, Selin Çakmakçı, Bilge Yılmaz Kara, Neslihan Özçelik, Inci Selimoğlu, Kübra Uyar Er, Abdurrahman Kotan, Hasan Veyesel Keskin, Metin Akgün

Evolution of diffusion capacity in interstitial lung disease associated with rheumatoid arthritis
Marie Vermant (Elsene, Belgium), Tinne Goos, Hannelore Bode, Laurens J De Sadeleer, Kenneth Verstraete, Nico De Crem, Ellen De Langhe, Adriana Dubbeldam, Erik Verbeken, Johny Verschakelen, Birgit Weynand, Jonas Yserbyt, Rene Westhovens, Patrick Verschueren, Wim A Wuys

Persistent Pneumonitis Post-COVID 19: description and risk factors
Sandra Cuerpo Cardeñosa (Barcelona, Spain), Fernanda Hernandez, Mariana Benegas, Joel Francesqui, Alejandra Lopez, Rosa Faner, Nestor Soler, Sergio Prieto, Alexandri Villeges, Joan Albert Barbera, Marcelo Sanchez, Joan Ramon Bada, Oriol Sibila, Alvar Agusti, Jacobo Sellares, Inés Cobo, Anaïs Suarez, Veronica Torres, Adelaida Salazar, Anna Muñoz, Luz Bravo, Estibaliz Ruiz, Maria Molina, Alex Soriano, Judith García

Evaluation of pulmonary function in post-COVID-19 patients
Vuk Pejicic, Tatjana Pejić, Marija Topalović, Borislav Božanić, Aleksandra Ignjatović, Desa Nastasijević Borovac

Bleomycin lung toxicity: a retrospective analysis of an old culprit
Diana Sofia Moreira Sousa (Santo Tirso, Portugal), Margarida Afonso, Salete Valente

Interstitial lung disease in children associated with biological autoimmunity, analysis of a French monocentric retrospective cohort: towards IPAF in children?
Alice Hadchouel-Duvergé (Paris, France), Laura Aoust, Brigitte Bader-Meunier, Christine Bodemer

Effects of RXC007, a highly potent and selective ROCK2 inhibitor, in ex vivo and in vivo models of pulmonary fibrosis.
Adriana Gambardella (Macclesfield, United Kingdom), Nicolas E. S. Guisot, Peter R. Bunyard, Emily Offer

Diagnostic Performance of the Chest Interstitial Lung Disease Patient Questionnaire
Tal Perluk (Givatim, Israel), Inbal Friedman Regev, Ophir Freund, Eyal Kleinhamaker, Sharona Ben-Ami, Amir Bar-Shai, Avraham Unterman

A retrospective study exploring GAP index as a predictor of mortality in patients with Combined Pulmonary Fibrosis and Emphysema
Hana Alsomali (Newcastle upon Tyne, United Kingdom)

Early detection of interstitial lung disease using AI-powered spirometry
Marko Topalovic (Kassel-lo, Belgium), Tomas Coenegrachts, Seppe Van Steenbergen, Armin Halilovic, Julie Maes, Laurens De Sadeleer, Wim Janssens

Clusters of comorbidities in chronic hypersensitivity pneumonitis
Thomas Skovhus Prior (Egå, Denmark), Julia Wälshcr, Benjamin Gross, Elisabeth Bendstrup, Michael Kreuter

Ultrasound as a potential tool to detect interstitial lung disease in the daily clinical setting of patients with rheumatoid arthritis
Marwin Gutierrez (Mexico City, Mexico), Santiago Ruta, Denise Clavijo-Cornejo, Gabriela Fuentes-Moreno, Samuel Reyes-Long, Chiara Bertolazzi

Cudetaxestat, a differentiated phase 2-ready investigational treatment for idiopathic pulmonary fibrosis
Bassem Elmankabadi (South San Francisco, United States), Prabha Ibrahim, Carol Wong , Ravi Rajagopalan, Xiang Xu, Walter Yu
Shifting asthma management with Asthma Right Care communication tools
María Mar Martínez Vázquez (Bilbao (Bizkaia), Spain)

Identifying gaps and redesigning asthma care pathway in Primary Care with multidisciplinary teams
María Mar Martínez Vázquez (Bilbao (Bizkaia), Spain), Jaime González Rey, Sara Nuñez Palomo, Miguel Domínguez Sauto, Pere J Simonet Aineto, Javier Plaza Zamora, Miguel Román Rodríguez, Juan Enrique Cimas Hernando, Lucía Regadera Anechita, Francisco Fernández-Conde Jordana De Pozas, Paula Chaparro Briones

A cluster-randomised control trial of a paediatric asthma pathway in primary care.
Andrew Cave (Edmonton (AB), Canada), Melissa Potestio, Heather Sharpe, David Johnson

Supporting asthma self-management behavioural change with a mobile application: a feasibility study
Ee Ming Khoo (Kuala Lumpur, Malaysia), Ping Yein Lee, Hani Salim, Ai Theng Cheong, Sazlina Sharih Ghazali, Noor Harzana Harrun, Bee Kiu Ho, Salmiah Mohamad Isa, Norita Hussein, Nik Sherina Haidi Hanafi, Hilary Pinnock, Respire On Behalf Of The Respire Collaborators

Asthma control and unscheduled care during the Hajj among Malaysian Hajj pilgrims: a descriptive observational study.
Ee Ming Khoo (Kuala Lumpur, Malaysia), Rizawati Ramli, Nik Sherina Haidi Hanafi, Norita Hussein, Ping Yein Lee, Ai Theng Cheong, Sazlina Sharih Ghazali, Ahmad Ihsan Abu Bakar, Azah Abdul Samad, Suffazeli Abdullah, Hilary Pinnock, Aziz Sheikh

Association of gastroesophageal reflux disease with asthma control and quality of life, a study from low incom country.
Nousheen Iqbal, Atiqa Amirali, Maria Ali Khan, Muhammad Irfan

Persistent Symptoms Three Months after Clinical Recovery from COVID-19
Amir Jarjoui (Jerusalem, Israel), George Kalak, Gabriel Izbiicki, Ariel Rokach, Abraham Bohadana, Pascal Wild, Nader Abdelrahman, Nissim Arish, Chen Chen-Shuai, Noa Amiad

Long COVID in relation to severity of acute COVID-19
Tasnim Znegui (borj cerdia, Tunisia), Racil Hajer, Maazouzi Sarra, Mariem Friha, Amany Touil, Sonia Habibech, Chaouch Nawel

Respiratory healthcare professionals’ views on long-term recommendations of interventions to prevent acute respiratory illnesses after the COVID-19 pandemic
Karim Yaacoby-Bianu (Haifa, Israel), Galit Livnat, James D. Chalmers, Michal Shteinberg

Benefits of early cineole administration during common cold: an exploratory clinical trial
Peter Kardos (Frankfurt am Main, Germany), Ludger Klimek, Jürgen Palm, Kim Goldenstein, Johannes Stöckl, Andreas Michalsen

What do medical professionals really think about vaccination?
Oleksandr Fesenko (Slobozhanske, Ukraine), Olena Myronenko, Natalia Habshydze, Ksenia Bielosludtseva

Asthma control and unscheduled care during the Hajj among Malaysian Hajj pilgrims: a descriptive observational study.
Ee Ming Khoo (Kuala Lumpur, Malaysia), Rizawati Ramli, Nik Sherina Haidi Hanafi, Norita Hussein, Ping Yein Lee, Ai Theng Cheong, Sazlina Sharih Ghazali, Ahmad Ihsan Abu Bakar, Azah Abdul Samad, Suffazeli Abdullah, Hilary Pinnock, Aziz Sheikh

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Developing a theoretically-informed education programme within the context of a complex implementation strategy in UK primary care: an exemplar from the IMP2ART trial
Viv Marsh (Bridgnorth, United Kingdom), Kirstie Mcclatchey, Liz Steed, Steve Holmes, Stephanie J C Taylor, Sharon Wiener-Ogilvie, Julia Neal, Rhian Last, Ann Saxom, Hilary Pinnock

Impact of COVID-19 pandemic on recommended vaccine uptake in a single-practice primary care COPD cohort in the UK
Mukesh Singh (Sutton Coldfield (West Midlands), United Kingdom), Ketan Singh

Implementation of meaningful stakeholder engagement in community-based research in rural India during Covid-19 pandemic
Rashmi Chabukswar (Pune, India), Dhiraj Agarwal, Himangi Lubree, Tracy Jackson, Genevie Fernandes, Sanjay Juvekar

Understanding physicians’ and patients’ perspectives on asthma management
Michelle Tan (London, United Kingdom), Aine Kyle, Kelly Kueh

Patient-reported barriers to accepting a technological adherence package in the MAGNIFY trial.
Andrew Dickens (Cambridge, United Kingdom), David Halpin, Victoria Carter, Derek Skinner, Kai Beeh, James Chalmers, Allan Clark, Nasir Hannan, Alan Kaplan, Konstantinos Kostikas, Hilary Pinnock, Nicolas Roche, Omar Usmani, Job F.M. Van Boven, Paul Mastoridis, Karen Mezzi, Steve Davis, David Price

Development of a patient-centred asthma review template to improve self-management in UK primary care
Kirstie McClatchey (Edinburgh, United Kingdom), Liz Steed, Aimee Sheldon, Francis Appiagyei, Stephanie Taylor, David Price, Hilary Pinnock
Randomised trial evaluating the effect of a digital action plan (web app) versus written action plan for the management of asthma exacerbations of children and adults
Nicole Beydon (Paris, France), Camille Taillé, Harriet Corvol, Judith Valerie-Brossollet, Jean-Jacques Portal, Laurent Plantier, Gilles Mangiapian, Caroline Perisson, Guillaume Aubertin, Alice Hachouchou-Duvergé, Guillaume Briand, Laurent Guilleminault, Catherine Neukirch, Pierrick Cros, Corinne Appere De Vecchi, Bruno Mahut, Eric Vicaut, Christophe Delclaux

Evolution of web-based training videos provided by the German Respiratory League for correct inhalation technique
Maximilian Wollsching-Strobel (Köln, Germany), Uta Butt, Daniel Sebastian Majorski, Tim Mathes, Friederike Sophie Magnet, Melanie Berger, Sarah Bettina Schwarz, Wolfram Windisch

TP-16 Session 08:30 - 09:30
Thematic poster: Cystic fibrosis in children and adolescents

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

Chairs: Stojka Fustik (Skopje, North Macedonia), Annelies M. Zwitserloot (Groningen, Netherlands)

“Early” Pseudomonas aeruginosa colonization in cystic fibrosis patients

Respiratory outcomes at 6 months follow up after SARS-Cov-2 infection in people with cystic fibrosis
Paola Medino (Milano, Italy), Chiara Rosazza, Maria Serena Boraso, Fabiana Ciciriello, Marco Cipolli, Andrea Gregamega, Vincenzina Lucidi, Arianna Briñi, Erica Nazzari, Gianfranco Alicandro, Carla Colombo

The concentration of hCAP-18/LL-37 and hBD-2 in cystic fibrosis patients
Oksana Ishchenko (Kamyanske, Ukraine), Dmytro Stepanskyi

Eradiation treatment of hCAP-18/LL-37 and hBD-2 in cystic fibrosis patients
Aynur Gulieva (Istanbul, Turkey), Cansu Yilmaz Yeğit, Muruvvet Yanaz, Mine Kalyoncu, Merve Selcuk, Gamze Tastan, Burcu Suzer, Pinar Ergenekon, Ela Erdem Eralp, Yasemin Gökdemir, Fazilet Karakoc, Bulent Karadag

Experience with the use of inhaled carbapenems in a Spanish Cystic Fibrosis Unit
Marta Bascuas Arribas (Madrid, Spain), Patricia Fernández García, Verónica Sanz Santiago, Sofia Martín Hernández, Alejandro López Neyra, Belén Hernández Millán, Javier Alvarez-Coca, María Camino Serrano, Francisa Romero Ándujar, José Ramón Villa Asensi, Rosa María Girón Moreno

Clinical features of SARS-CoV-2/COVID-19 infection in children with cystic fibrosis (CF): A Qatari experience
Khalid Zahraldin (Doha, Qatar), Sara G. Hamad, Hiba Kammou

Cystic fibrosis competence check: A educational tool for paediatric patients with CF
Stefanie Diemer (Lund, Sweden), Karolina Wallin, Kristel Björkman

The association between the cumulative dose of aminoglycoside exposure and hearing loss in children with cystic fibrosis

Ciliary dyskinesia might be secondary to chronic inflammation in cystic fibrosis
Romane Bonhiver (Liege, Belgium), Noemie Bricmont, Maud Pirotte, Marc-Antoine Wuidart, Jessica Pirson, Hedwige Boboli, Renaud Louis, Marine-Christine Seghaye, Céline Kempeneers

CFTR function in respiratory epithelial cell cultures: step to individualize treatments in cystic fibrosis?
Joerg Grosse-Onnebrink (Münster, Germany), Vanessa Mete, Heymut Omran, Wolf Michael Weber

Assessment of cathelicidin LL-37 and 25-hydroxycholecalciferol levels in children cystic fibrosis
Valeria Demianyshyna (Vinnytsya, Ukraine), Veronika Dudnyk
Prolonged exposure to heat does not affect clinical and biochemical characteristics in patients with cystic fibrosis
Pinelopi Anagnostopoulou (Nicosia, Cyprus), Panayiotis Kouis, Katerina Pantavou, Antonis Michanikou, Andreas Matthaiou, Kalliopi Ioakim, Louisa Sophocleous, Georgios Nikolopoulos, Panayiotis Yiailloeurs

Search for airway-derived miRNA biomarkers in pulmonary exacerbation in children with cystic fibrosis
Zuzanna Stachowiak (Poznan, Poland), Beata Narożna, Wojciech Langwiński, Irena Wojysk Banaszak,, Katarzyna Jończyk Potoczna, Anna Brębоторowicz, Aleksandra Szczepankiewicz

Evaluation of factors affecting bone mineral density in CF patients through CF registry of Turkey

Title: Benzbrromarone for the treatment of cystic fibrosis (CF) lung disease: a pilot clinical trial.
Leonardo Pinto (Porto Alegre (RS), Brazil), Frederico Frederico Friedrich, Laura De Castro E Garcia, Lucas Montiel Petry, Marina Pieta, Amanda Da Silva Menezes, Luana Braga Bittencourt, Luiza Xavier, Marcos Brum Antunes, Karl Kunzelmann

Late Breaking Abstract - Diagnostic testing in people with primary ciliary dyskinesia around the world: where do we stand?
Leonie Daria Schreck (Bern, Switzerland), Eva Sophie Lunde Pedersen, Isabelle Cizeau, Catherine Kruljac, Jane S Lucas, Myrofora Goutaki, Claudia E Kuehni

**TP-8 Session 08:30 - 09:30**

**Thematic poster: Translational modelling of lung diseases**

**Disease(s):** Respiratory critical care  Interstitial lung diseases  Airway diseases
**Method(s):** General respiratory patient care  Cell and molecular biology  Physiology  Pulmonary function testing  Imaging
**Chairs:** Darcy Wagner (Lund, Sweden), Vanessa Ho (London, United Kingdom)

- **New physiomimetic model for ARDS in vitro studies**
  Esther Marhuenda (Barcelona (Catalonia), Spain), Alvaro Villarino, Maria Narciso, Nuria Gavara, Ramon Farre, Isaac Almendros, Jordi Otero

- **Establishment of a human in-vitro model for airway epithelial repair and regeneration**
  Ashesh Chakraborty (Munich, Germany), Ashesh Chakraborty, Michał Mastalerz, Rudolf Hatz, Jürgen Behr, Michael Lindner, Anne Hilgendorff, Claudia A. Staab-Weijnitz

- **Divergent effects of macrophage migration inhibitory factor and D-dopachrome tautomerase on lung epithelial regeneration**
  Shanshan Song (Groningue (GR), Netherlands), Habibie Habibie, M.H.De Jager, Corry-Anke Brandsma, Gerrit J Poelarends, Barbro N Melgert

- **Culturing primary alveolar epithelial cells on lung hydrogels preserves the type II phenotype**
  Jorge Otero (Barcelona, Spain), Esther Marhuenda, Alvaro Villarino, Maria Leonor Narciso, Nuria Gavara, Ramon Farré, Isaac Almendros

- **Collagen hydrogels reinforced with bacterial nanocellulose fibers for the development of in vitro 3D lung models**
  Nathilde Malandain (Barcelona, Spain), Hector Sanz-Fraile, Ramon Farré, Anna Laromaine, Anna Roig, Jordi Otero

- **Murine Precision Cut Lung Slices as a model of heme-induced acute injury.**
  Namrita Kewalramani (Mumbai (Maharashtra), India), Carlos Machahua, Blank Fabian, Melanie Scalice, Jessica Petrocca, Michelle Schorer, Fabian Kaesernann, Kleanthis Fytianos, Manuela Funke-Chambour

- **Ex vivo modelling of human lung fibrogenesis and drug mode of action screens using single cell RNA-seq in precision-cut lung slices**
  Niklas Jonathan Lang (München, Germany), Meshal Ansari, Lin Yang, Shuhong Zhou, Diana Porras-Gonzalez, Ahmed Agami, Christoph H. Mayr, Baharak Hooshiar Kashani, Lukas Heumos, Michael Gerkens, Yuxin Chen, Janine Schniering, Mircea-Gabriel Stoleriu, Rudolf Hatz, Jürgen Behr, Fabian J. Theis, Gerald Burgstatter, Herbert B. Schiller
Niklas Jonathan Lang (München, Germany), Meshal Ansari, Diana Porras-Gonzalez, Ahmed Agami, Baharak Hooshiar Kashani, Shuhong Zhou, Lin Yang, Michael Gerkens, Xin Wei, Christoph H. Mayr, Janine Schniering, Mircea-Gabriel Stoleriu, Rudolf Hatz, Jürgen Behr, Gerald Burgstaller, Herbert B. Schiller

A tunable lung physiomimetic stretch system evaluated with precision cut lungs slices and recellularized human lung scaffold
Arturo Ibáñez Fonseca (Lund, Sweden), Oskar Rosmark, Johan Thorsson, Göran Dellgren, Oskar Hallgren, Anna-Karin Larsson Callerfelt, Linda Elowsson, Gunilla Westergren-Thorsson

Pulmonary endothelial cells support growth of human alveolar organoids: possible influence of cigarette smoke exposure
Ablash Ravi (Leiden, Netherlands), Xinhui Wu, Anne M. Van Der Does, Andries Van Der Meer, Jill M. Johnson, Martin C. Harmsen, Reinoud Gosens, Pieter S. Hiemstra

Using forward genetic screens and novel human alveolar organoid models to study surfactant protein C trafficking in heath and disease
Eimear Rutherford (CAMBRIDGE, United Kingdom), Dick Van Den Boomen, Kyungtae Lim, Paul Lehner, Emma Rawlins, Stefan Marciniak, Jennifer Dickens

Heterogeneity of airway remodeling in cystic fibrosis
Astrid Vermaut (Oud-Heverlee, Belgium), Vincent Geudens, Lynn Willems, Janne Kaes, Hanne Bække, Charlotte De Fays, Laurens Ceulemans, Robin Vos, Bart Vanaudenaerde, Lieven Dupont, Mieke Boon

Antimicrobial-induced changes in the intestinal microflora affected hydrogen gas production in a mouse model of acute lung injury
Manato Kawano (Kanagawa, Japan), Kozue Kobayashi, Kenichi Kokubo, Masaru Kubota

Methotrexate induces DILD sporadically and at low incidence in rodents, similar to clinical scenario in humans
Nina Fransén Pettersson (Lund, Sweden), Carla Carvalho, Irma Mahmutovic Persson, Hanna Falk-Håkansson, Jian Liu, Lars E. Olsson, Karin Von Wachenfeldt

Acute exacerbation in chronic pulmonary fibrosis: Histopathological and molecular characterisation of the mice model
E. Boncoeur (Paris, France), Céline-Hivda Yegen, Liasmine Haine, Dominique Marchant, Carole Planes, Nicolas Voituron

Moderate and severe hyperoxia in preterm rabbits: airway reactivity, forced expiration and forced oscillation outcomes
Yannick Regin (Brussels, Belgium), André Gie, Ignacio Valenzuela, Marnel Greyling, Vincent Lenders, Jeroen Vanoirbeek, Jaan Toelen

Late Breaking Abstract - hLMSC secretome affects macrophage activity differentially depending on lung-mimetic environments
Bryan Falcones (Malmö, Sweden), Zackarias Söderlund, Arturo Ibáñez, Isaac Almendros, Jordi Otero, Ramon Farré, Sara Rolandsson Enes, Linda Elowsson Rendin, Gunilla Westergren-Thorsson

Late Breaking Abstract - Idiopathic pulmonary fibrosis-on-chip: A new model based on biological membranes
Pauline Zamprogno (Bern, Switzerland), Jan Schulte, Tobias Weber, Arumina Sengupta, Thomas Geiser, Olivier T. Guenat

Late Breaking Abstract - Spatially resolved transcriptomics of human and mouse fibrotic lung
Lovisa Franzen (Solna, Sweden), Martina Olsson Lindvall, Sonya Jackson, Gregory Hamm, Ben Keith, Steven Oag, Astrid Collin, Jennifer Cann, Julia Lindgren, Graham Belfield, Anna Ollerstam, Marianna Stamou, Patrik Stahl, Jorrit Hornberg

Late Breaking Abstract - Febuxostat inhibits inflammation and fibrosis in a murine model of LPS-induced lung injury
Shin Ohta (Tokyo, Japan), Hitoshi Ikeda, Takaya Ebato, Hideki Inoue, Tetsuya Homma, Shintaro Suzuki, Akihiko Tanaka, Hironori Sagara

TP-7 Session 08:30 - 09:30
Thematic poster: Impact of the external and internal exposome on chronic lung disease
Disease(s): Airway diseases, Interstitial lung diseases
Method(s): Cell and molecular biology, Physiology, Public health
Chairs: Tania Maes (Ghent, Belgium), Charalambos Michaeloudes (London, United Kingdom)

A novel mouse model reproducing pathomorphological and inflammatory hallmarks of COPD
Bernhard Reiter (8010 Graz, Austria), Natalie Bordag, Diana Schnoegl, Nagy Bence, Martina Delbeck, Grazyna Kwapiszewska, Hana Cernecka, Jörg Meding, Leigh M Marsh
Modifications of pulmonary macrophages function by heated tobacco products.
Perrine Donay (Liège (Sart-Tilman), Belgium), Didier Cataldo, Marie-Julie Nokin, Marie-Laure Delhez

Using NanoString to investigate effects of cigarette smoke extract on gene expression in lung fibroblasts from healthy and COPD subjects
Martin Ryde (Lund, Sweden), Nicole Van Der Burg, Gunilla Westergren-Thorsson, Leif Bjermer, Ellen Tufvesson

Nicotine-Induced Epithelial-Mesenchymal Transformation (EMT): Difference Between Normal and Asthmatic Bronchial Epithelium
Hasan Yuksel (Manisa, Turkey), Merve Ocalan, Ozge Yilmaz, Seda Tunca, Adem Yasar, Damla Akogullari, Seda Vatansever

Interaction between type 2 cytokine and inflammasome responses in the pathogenesis of obesity-associated asthma

LSC - 2022 - Allergen exposure induces airway macrophage metabolic reprogramming
Gesa J Albers (London, United Kingdom), Patricia P Ogger, Robert Gray, John M Halket, Gail Gauvreau, Paul O'Byrne, Clare M Lloyd, Adam J Byrne

Circadian pathway is downregulated in lungs and adipose tissue in the rat model of allergic airway inflammation
Aleksandra Szczepankiewicz (Poznań, Poland), Joanna Nowakowska, Wojciech Langwiński, Paweł Kołodziejski, Ewa Pruszyńska-Oszmalek, Natalia Leciejewska, Kamil Ziarniak, Dawid Szczepankiewicz

Sex-related differences in allergen house dust mite-mediated changes in the lung proteome.
courtenay marshall (winnipeg, Canada), Dina Mostafa, Mahadevappa Hemshekhar, Robert Balshaw, Victor Spicer, Neeloffer Mookherjee

Farm dust exposure decreases TNF-α/IFN-γ-mediated IL-33 expression in primary bronchial epithelial cells in part by interfering with IFNGR-JAK-STAT1 signaling
Jasmijn A. Schrumpf(Leiden, Netherlands), Mikaela Tham, Dennis K. Ninaber, Erika Von Mutius, Hermelijn H. Smits, Pieter S. Hiemstra

Source-specific Th17 responses induced by real-world air pollution and amelioration by vitamin D
Drew Glencross (London, United Kingdom), Charlotte Cheadle, Tanapat Palaga, Tassanee Prueksasit, Ganjana Lertmengkolcholchai, Ian Mudway, Catherine Hawrylowicz

Evidence for a role of the aryl hydrocarbon receptor in inflammatory responses to air pollution
Drew Glencross (London, United Kingdom), Charlotte Cheadle, Tanapat Palaga, Tassanee Prueksasit, Ganjana Lertmengkolcholchai, Ian Mudway, Catherine Hawrylowicz

Source-related composition and toxicological effects of shipping-associated particulate matter
Lareb S.N. Dean (Southampton, United Kingdom), Natasha H.C. Easton, James G.H. Parkin, Robert A. Ridley, Franco Conforti, Matthew J. Cooper, Yihua Wang, Mark G. Jones, Donna E. Davies, Gavin L. Foster, Matthew Loxham

Epithelial and mesenchymal compartment during differentiation of human iPSC into functional bronchial epithelium
Amel Nasri (Montpellier, France), Florent Foisset, Carine Bourdais, Engi Ahmed, Isabelle Vachier, Said Assou, Arnaud Bourdin, John De Vos

Investigating the effects of metals within particulate matter in human alveolar epithelial cells
Lareb S.N. Dean (Southampton, United Kingdom), Helen S. Vethakan-Raj, James G.H. Parkin, Robert A. Ridley, Franco Conforti, Julian Downdown, Yihua Wang, Mark G. Jones, Donna E. Davies, Matthew Loxham

Acute ozone-induced neutrophilic inflammation is driven by IL-1 independent of NLRP3 and caspase-1
( ), Stephen Schworer, Alexà Knee, Corey Jania, Jenny Ying, David Peden

Potential toxic effects in the lung of planetary dust
Jie Ji (stockholm, Sweden), Ingrid Corazzari, Francesco Turci, Per Gerde, Lars Karlsson, Dag Linnarsson, David J Loftus, G. Kim Prisk, Urs Stauffer, Erin M Tranfield, Wim Van Westrenen, Lena Palmberg

Complex Urban Atmospheres alter Alveolar Mesenchymal Stem Cell Niche Properties and drive Lung Fibrosis
Randa Belgacemi (AULNAY SOUS BOIS, France), Bruno Ribeiro, Grégoire Justeau, Marylène TOIGO, Audrey Der Vartanian, Saverio Bellusci, Geneviève Derumeaux, Denise Al Alam, Jorge Boczkowski, Patrice Coll, Sophie Lanone, Laurent Boyer

Late Breaking Abstract - Plasma proteomics analysis reveals sex-related differences in response to diesel exhaust
Hemshekhar Mahadevappa (Winnipeg, Canada), Juma Orach, Victor Spicer, Robert Balshaw, Christopher Carlsten, Neeloffer Mookherjee
Thematic poster: Tuberculosis, COVID-19 and other coinfections

**Disease(s):** Airway diseases

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

**The impact of COVID-19 on Tuberculosis diagnosis**
Ricardo José Pereira De Matos Cordeiro (Portela LRS, Portugal), Luis Mateus, Maria Cavaco, André Nunes, Carina Silvestre, Natália André, António Domingos

**Trend of knowledge and attitude toward COVID-19 during 1st & 2nd wave of pandemic in pulmonary tuberculosis patients.**
Ankita Mandal (Lucknow, India), Ajay Kumar Verma, Surya Kant, Jyoti Bajpai, Sujita Kar

**In-hospital diagnosis of tuberculosis (TB) in non-HIV patients: the impact of the COVID-19 pandemic.**
Mariana Ramos Martins (Faro, Portugal), Lídia Carvalho, Teresa Carvalho, Isabel Gomes

**Influence of COVID19 pandemic on change of attitude about tuberculosis among patients with respiratory diseases in Serbia**
Miroslav Ilić (Sremska Kamenica (Vojvodina), Republic of Serbia), Dragan Bijelić, Nevena Savić, Jovan Javorac, Ana Milenković, Miloš Cvetković, Dejan Živanović, Dragica Kovačević

**Factors associated with the clinical profile and outcome of SARS-COV-2 (COVID-19) patients co-infected with tuberculosis in a tertiary hospital: a retrospective study**
Jelena Louise Arreza (Cebu City, Cebu Province, Philippines), Ma. Philina Villamor

**Impact of covid19 on the fight against tuberculosis in the wilaya of Blida**
Meriem Oulad kouider (Blida, Algeria), Sofiane Alihalassa

**The COVID19 pandemic may lead to the activation of the forgotten tuberculosis**
Miroslav Ilić (Sremska Kamenica (Vojvodina), Republic of Serbia), Miloš Cvetković, Dragica Kovačević, Darinka Kukavica, Nevena Savić, Ana Milenković, Jovan Javorac

**Tuberculosis related lethality structure in Kharkiv, Ukraine: impact of COVID 19**
Olha Konstantynovska (Kharkiv, Ukraine), Petro Poteiko, Tetiana Synenko, Oleh Stepanov, Oleksandr Zinenko, Tetiana Liadova, Olha Volobuieva

**Increased long-term mortality among tuberculosis and influenza cases compared to patients with Salmonella infection**
Anthony Byrne (Sydney (NSW), Australia), Kenneth Ng, Jennifer Pett, Ellen Donnan, Javier Haurat, Ben Marais

**COVID19 and tuberculosis Co-infection: clinical, biological and radiological characteristics**
arbia chaieb (Tunis, Tunisia), Abir Hedhli, Yassine Ouahchi, Toujeni Sonia, Cheikhrouhou Sana, Merai Samira, Mjid Mariem, Dhafrri Bessma

**The role of biological monitoring in raising the suspicion of nosocomial infection with SARS CoV 2 in patients with tuberculosis**
Ionut Valentin Stanciu (Constanta, Romania), Zamfir Viorica, Arghir Ioan Anton, Dantes Elena

**Influence of COVID-19 pandemic on the main epidemiological dataof TB in Azerbaijan**
Gulzar Aliyeva (Baku, Azerbaijan), Agigat Gadirova

**Intrathoracic aspergillomas-study conducted in an area with high endemic tuberculosis**
Denisa-Gabriela Andrei (Constanta, Romania), Elena Dantes, Simona Lupsa, Viorica Zamfir, Angelica Potamian, Oana Arghir

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Thematic poster: Paediatric sleep disorders and management in various diseases

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

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

**Feasibility of wearable respiratory monitoring in paediatric sleep medicine: early insights**
Ross Langley (Glasgow, United Kingdom), Elise Buchan, Hannah Gibson, Bruce Henderson, Osian Meredith, Christopher Truemen, Philip Davies

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Sleep outcomes in spinal muscular atrophy and role of disease-modifying treatments.
Daryl Butler (Dublin, Ireland), Ioannis Makariou, Mariacristina Scoto, Vasantha Gowda, Miguel Fernandez, Elizabeth Wraige, Heinz Jungbluth, Francesco Muntoni, Hui-Leng Tan, Federica Trucco

Sleep disturbances in children with cystic fibrosis and primary ciliary dyskinesia at the beginning and in the first year of COVID-19 pandemic
Tuğba Şişmanlar Eyuboglu (Ankara, Turkey), Ayse Tana Aslan, Tugba Ramasli Gursoy, Pelin Asfuroglu, Azime Sebnem Soysal, Dilek Yapor, Mustafa Necmi Ilhan

Orofacial myofunctional evaluation in children with Down Syndrome and obstructive sleep apnea
Suzana Erico Tanni (Botucatu (SP), Brazil), Suzana Tanni, Silke Anna Theresa Weber, Daniela Barreto E Silva Pitta, Camila De Castro Correa, Karina A Santos, Jefferson L De Barros, Antonio Carlos Marão, Cattia Fonseca

Respiratory evolution of children with Spinal Muscular Atrophy Type 1 under gene therapy
Rosário Ferreira (Lisbon, Portugal), Ana Saianda, Joana Coelho, Teresa Moreno

Need for establishment of multi-disciplinary management guidelines for children with CHARGE syndrome on respiratory support; 10 years’ experience in Cambridge University Hospital (CUH)
Sarah Nethercott (Cambridge (Cambridgeshire), United Kingdom), Laura Baird, Louise Edwards, Donna Mchane, Doxa Kotzia

Every breath you take, we'll be watching you!
Neha Mohan Rao (Birmingham, United Kingdom), Ciaran Mcardle, Joanna Bennett, Benjamin Davies, Satish Rao, Priti Kenia

Home cardiorespiratory sleep studies in children: single-centre experience and caregiver opinions.
Kanwal Jehanzeb (Birmingham, United Kingdom), Nikoletta Lofitou, Roisin Kay, Ciaran Mcardle, Fiona Robinson, Benjamin Davies, Satish Rao, Priti Kenia

Home mechanical ventilation in children: The experience of pediatric pulmonology divisions in Istanbul
Mürüvvet Yanaz (Istanbul, Turkey), Fausun Unal, Evin Hepkaya, Hakan Yazar, Sinem Can Oksay, Ebru Kostereli, Cansu Yilmaz Yegit, Azer Kilic Baskan, Zeynep Seda Uyan, Haluk Cokugras, Refika Ersu, Bulent Karadag, Fazilet Karakoc

Continuous positive airway pressure therapy in children with Down syndrome and obstructive sleep apnoea: outcome and predictive factors.
Inez Vanholder (Edegem, Belgium), Sophie Installé, Anse Van Ostaeyen, Maren Verhulst, An Boudewyns, Kim Van Hoorenbbeek

4-year experience of nurse-led non-invasive ventilation (NIV) clinic at a specialist paediatric respiratory centre.
Joanna Bennett (Birmingham, United Kingdom), Neha Rao, Laura Morris, Satish Rao, Benjamin Davies, Priti Kenia

How do we determine successful non-invasive ventilation (NIV) success in children: Carer and Clinician opinion
Kim Lund (Newcastle, United Kingdom), Christopher Grime, Liam Durkin

Development of a new nurse-led non-invasive ventilation (NIV) initiation pathway for children and young people (CYP)
Neha Mohan Rao (Birmingham, United Kingdom), Joanna Bennett, Laura Morris, Satish Rao, Benjamin Davies, Priti Kenia

Thematic poster: COVID complications

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

Chairs: Søren Sperling (Aarhus N, Denmark), Chair to be confirmed

Spontaneous pneumomediastinum, subcutaneous emphysema and pneumothorax in non-intubated patients with COVID-19 pneumonitis: a retrospective case note review of a single centre experience
Randeep Karwal (WILLENHALL, United Kingdom), Anastasia Fries, Sara Tsimerman, Dewmi Subasinghe, Lydia Holden, Sharon Power, Yasser Madani

CoVid-19 and Influenza co-infection within North-West England: Flu-Rona – we won't ever find it if we don't look for it
Fred Fyles (Liverpool, United Kingdom), Phoebe Hazenberg, Jonathan Folb, Daniela Ferreira, Hassan Burhan, Andrea M Collins
<table>
<thead>
<tr>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clinico-etiological Profile of COVID-19 Cases with Cavitary Lung Lesions</td>
<td>Arjun Kumar (Rishikesh, India), Prakhar Sharma, Girish Sindhiwani</td>
</tr>
<tr>
<td>Taste and smell disorders during and post-acute Covid-19 in the population of Agadir</td>
<td>Abdelkrim Khannous (Agadir, Morocco), Fatiha Bounoua, Houda Moubachir, Hind Serhane</td>
</tr>
<tr>
<td>Pneumothorax in ARDS hospitalized Covid-19 patients: risk factors, therapeutic strategies and outcome</td>
<td>Beatrice Ragnoli (Vallio Terme, Italy), Patrizia Pochetti, Lorenza Conti, Anna Maria Calareso, Mariangela Barbieri, Luca Ruggiero, Tiziana Cena, Mario Malerba</td>
</tr>
<tr>
<td>Venous and arterial thromboses in hospitalized patients with acute COVID-19 at University Hospital Dubrava</td>
<td>Ivona Kovacevic (Zagreb, Croatia), Jasna Tekavec Trkanjec, Divo Ljubicic, Ivan Marasovic, Darjan Ranilovic, Marko Lucijanic, Nevenka Piskac Zivkovic</td>
</tr>
<tr>
<td>Short term impact of COVID19 pneumonia on cardiovascular profile</td>
<td>Irma Bracka (GALATSI ATHENS, Greece), Ioannis Karampinis, Eleni Bellou, Elli Keramida, Thodoris Daskalos, Panagiotis Demertzis, Georgia Hardavella</td>
</tr>
<tr>
<td>Characterization of respiratory sequelae following SARS-CoV-2 infection, a monocenter study</td>
<td>Aurélien Justet (Paris, France), Jean Richeux, Jasper Flint, Margaux Pasquesoone, Armelle Mouadil, Pierre Cuchet, Fouquet Helene, Nicolas Aide, Simon Deshayes, Vincent Lepennec, Emmanuel Bergot</td>
</tr>
<tr>
<td>Olfactory dysfunction in COVID-19 according to individuals’ perception and olfactory test among health care workers</td>
<td>THIAGO SERRANO (CAMPINAS, Brazil), Marcelo Antonio, Lorena Giacomin, Fernando Marson, Jose Dirceu Ribeiro, Eulalia Sakano</td>
</tr>
<tr>
<td>Comparative study assessing the Pulmonary Function impairment in patients affected during Covid-19 1st and 2nd wave</td>
<td>Rajesh Agrawal (Bareilly, India), Amit Kumar, Rishi Saini, Javed Malik</td>
</tr>
<tr>
<td>Incidence of pneumothorax, subcutaneous emphysema and pneumomediastinum in patients with COVID – 19</td>
<td>Pavel Yordanov (Varna, Bulgaria), Valentina Dimitrova</td>
</tr>
<tr>
<td>Case report: Spontaneous pneumomediastinum (SPM) and intestinal perforation secondary to COVID-19 in the same patient.</td>
<td>Albino Petrone (Cosenza (CS), Italy), Pietro Scrivano, Andrea Corsonello, Michela Quartieri, Giuseppe Francesco Rago, Francesco Cesario, Carlo Lorenzo Manfredi, Achille Gaudio, Enrico Scarpelli, Angelo Barbato</td>
</tr>
<tr>
<td>Pneumomediastinum in non-intensive care unit hospitalized patients with COVID-19 pneumonia</td>
<td>Moises Maley (Italy), Panaitios Finamore, Claudio Pedone, Domenico Paolino Emanuele Margiotta, Emanuele Gilardi, Federica Sambuco, Antonio De Vincentis, Umberto Vespasiani Gentilucci, Francesco Travaglino, Raffaele Antonelli Incalzi</td>
</tr>
<tr>
<td>COVID-19 associated pulmonary cavitary lesions - A single center observational study</td>
<td>Sheetal Chaurasia (Bangalore (Karnataka), India), Manjunath Thimmappa, Saurav Chowdhury</td>
</tr>
<tr>
<td>Renal dysfunction in patients with COVID-19 pneumonia with severe and critically ill status.</td>
<td>Ahmed Elesdouy (Menouf (el menoufia), Egypt)</td>
</tr>
<tr>
<td>Hospitalised patients with COVID-19: the impact of nosocomial infections</td>
<td>Lucía Méndez González (Santa Maria da Feira, Portugal), Jorge Ferreira, Cátia Caneiras</td>
</tr>
<tr>
<td>Post-COVID-19 patients develop lung fibrotic-like changes: is there a role for IL-1 and TGF-?</td>
<td>Claudio Candia (Naples, Italy), Chiara Colarusso, Antonio Molino, Michela Terlizzi, Alessandro Saglia, Eliana Sferra, Marta Coppola, Lorena Gallotti, Alessandro Vatrella, Aldo Pinto, Rosalinda Sorrentino</td>
</tr>
<tr>
<td>CoV-Sym: The development of a psychometrically validated patient reported outcome measure for COVID-19</td>
<td>Caitlin Lythgoe (Liverpool, United Kingdom), Anna Rowe, Olalekan Lee Aiyegbusi, Lucy Chambers, Frances Sherratt, Joseph Wood, Bridget Young, Dan Wootton</td>
</tr>
<tr>
<td>Long term clinical and lung function test assessment in critically ill covid-19 patients: a 1-year follow-up</td>
<td>Leonardo Rovere (Milano, Italy), Giovanni Fumagalli, Elena Magni, Eliana Scoditti, Lisa Pancini, Paolo Gaboardi, Paolo Tarsia</td>
</tr>
<tr>
<td>Quality of life and dyspnoea grade after a severe SARS-CoV-2 pneumonia: a 12-month follow-up.</td>
<td>Lidia Zamudio Domingo (BANYOLES, Spain), Lidia Perendreu Busquets, Saioa Eizaguirre Antón, Marc Bonnin Vilaplana, Gladis Sabater Talaverano, Marina Belén Lescano Ponce, Ramon Orriols Martinez</td>
</tr>
</tbody>
</table>
Studio Session 08:45 - 09:00

News from the Studio: Welcome and introduction

Chairs: Richard Costello (Dublin 9, Ireland), Christopher E. Brightling (Leicester (Leicestershire), United Kingdom)

08:45 Discussion and Q&A

Studio Session 09:15 - 09:45

Pro-Con debate: T2 high and T2 low asthma: should we care, or should we only care about asthma?

Aims: To introduce the current status of asthma patients with T2 inflammation.

Disease(s): Airway diseases, Paediatric respiratory diseases

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

Tag(s): Translational

Target audience: Adult pulmonologist/Clinician, Clinical researcher, Medical Student, Nurse, Paediatrician, Physician in Pulmonary Training

Chairs: Richard Costello (Dublin 9, Ireland), Christopher E. Brightling (Leicester (Leicestershire), United Kingdom)

09:15 We should phenotype before treating asthma: Pro
Celeste Michala Porsbjerg (Copenhagen, Denmark)

09:25 We should phenotype before treating asthma: Con
Marco Idzko (Wien, Austria)

09:35 Discussion and Q&A

8B (live-streamed) Session 09:30 - 11:00

Symposium: Holistic management and rehabilitation of fibrosing interstitial lung diseases

Aims: to describe progress in non-pharmacological management of patients with fibrosing interstitial lung diseases (f-ILDs), including changes in clinical practice and the efficacy of treatments, using a patient-centred approach; to analyse the importance of self-management and the growing role of information and computing technologies in supporting monitoring, rehabilitation and non-pharmacological interventions in f-ILDs, including after lung transplantation; to describe non-pharmacological interventions that aim to relieve symptoms and improve quality of life; to provide an update on dedicated pulmonary rehabilitation strategies and outcome measures in f-ILDs considering the "new normal" in the context of the pandemic; to discuss new insights into the role of oxygen supplementation in management of breathlessness and the role of ambulatory oxygen in preventing exertional hypoxaemia and maximising the benefits of pulmonary rehabilitation.

Disease(s): Interstitial lung 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, Nurse, Respiratory critical care physician, Patient, Physician in Pulmonary Training, Physiologist, Respiratory physiotherapist, Thoracic surgeon, Respiratory therapist, Journalist

Chairs: Anh Tuan Dinh-Xuan (Paris, France), Daiana Stolz (Basel, Switzerland)

09:30 Patient's testimony
Speaker to be confirmed

09:35 Digitally supported self-management and rehabilitation of f-ILD patients
Marlies S. Wijsenbeek (Rotterdam, Netherlands)

09:50 Supportive care pathways for patients with f-ILDs and the impact of the COVID-19 pandemic
Elisabetta Renzoni (London, United Kingdom)

10:05 Standards of pulmonary rehabilitation in f-ILDs: where are we?
Anne Holland (Fitzroy North (VIC), Australia)

10:20 The role of oxygen in the management of dyspnoea in f-ILDs
Magnus Ekström (Lund, Sweden)

10:35 Discussion and Q&A
## 8G (live-streamed)  Session  09:30 - 11:00
### Hot topics: Beyond COVID: translating COVID treatment successes to all-cause ARDS
**Aims:** To demonstrate that COVID ARDS may serve as model for all-cause ARDS, and to explain how COVID research data may help to improve the medical management of all-cause ARDS. The target audience includes translational and clinical scientists, as well as respiratory intensive care physicians. After the session, attendants will be able to identify the following: 1. how phenotypic data collected during the COVID pandemic will help distinguish ARDS phenotypes that are most likely to respond to treatment, 2. which of the treatments that were tested during the COVID pandemic are potential novel candidates for the treatment of ARDS, and 3. how research infrastructure developed in response to the COVID pandemic will help to accelerate drug development for ARDS.

**Disease(s):** Pulmonary vascular diseases | Respiratory critical care

**Method(s):** Cell and molecular biology | Respiratory intensive care

**Tag(s):** COVID

**Target audience:** Clinical researcher, Medical Student, Respiratory critical care physician, Physiologist

**Chairs:** Marc Humbert (Le Kremlin-Bicêtre, France), Judith Garcia Aymerich (Barcelona, Spain), Miriam Barrecheguren Fernandez (Barcelona, Spain)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker/Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:30</td>
<td>Translating COVID biomarkers to treatable traits in ARDS</td>
<td>Speaker to be confirmed</td>
</tr>
<tr>
<td>09:45</td>
<td>Targeting novel pathways to dampen the inflammatory response</td>
<td>Manu Shankar-Hari (London, United Kingdom)</td>
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<tr>
<td>10:00</td>
<td>Improving vascular stability to enhance alveolocapillary function in ARDS</td>
<td>Jurjan Aman (Amsterdam, Netherlands)</td>
</tr>
<tr>
<td>10:15</td>
<td>Adaptive platform trials: shifting gears from COVID to tailored ARDS interventions</td>
<td>Carolyn Calfee (San Francisco, United States)</td>
</tr>
<tr>
<td>10:30</td>
<td>Discussion and Q&amp;A</td>
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</tbody>
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## 8H (live-streamed)  Session  09:30 - 11:00
### Hot topics: Moving to prevention of preschool wheeze and asthma: almost there?
**Aims:** to discuss viral infections as asthma triggers; to describe the background and possible mechanisms of bacterial lysate therapy; and to summarise recent research findings, suggesting their beneficial effects on asthma exacerbation frequency.

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

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

**Tag(s):** Clinical

**Target audience:** Clinical researcher, General practitioner, Medical Student, Paediatrician, Patient, Physiologist, Journalist

**Chairs:** Monika Gappa (Düsseldorf, Germany), Alexander Möller (Zürich, Switzerland)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker/Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:30</td>
<td>Patient's testimony</td>
<td>Danny Vijsma (, Netherlands)</td>
</tr>
<tr>
<td>09:35</td>
<td>Immune system function and reaction to infection and inflammation</td>
<td>Speaker to be confirmed</td>
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<tr>
<td>09:50</td>
<td>Factors and mechanisms of preschool wheezing</td>
<td>Sejal Saglani (London, United Kingdom)</td>
</tr>
<tr>
<td>10:05</td>
<td>Paediatric trials using bacterial lysates</td>
<td>Susanna Esposito (Milano (MI), Italy)</td>
</tr>
<tr>
<td>10:20</td>
<td>Asthma prevention in 2022</td>
<td>Erika von Mutius (München, Germany)</td>
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<td>10:35</td>
<td>Discussion and Q&amp;A</td>
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</tbody>
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## 8C (live-streamed)  Session  09:30 - 11:00
### Clinical cases: Lungs on fire: Lung cancer?
Aims: To facilitate the presentation of real-life clinical cases as part of an interactive session. Cases vary in difficulty and may require differential diagnosis. This session is led by two discussants who will present cases submitted by respiratory health professionals to a panel of experts and will drive the discussion in a step-by-step approach, encouraging dialogue and reflection among the panel who have no prior knowledge of these cases. As the cases are discussed, the discussants will invite the audience to participate in determining which diagnostic and therapeutic options would be best for these patients.

Disease(s): Respiratory infections, Thoracic oncology

Tag(s): Clinical

Target audience: Thoracic oncologist, Thoracic surgeon, Adult pulmonologist/Clinician, General practitioner, Clinical researcher, Nurse, Paediatrician, Pathologist, Physician in Pulmonary Training, Respiratory critical care physician, Radiologist, Medical Student

Chairs: Georgia Hardavella (Athens, Greece), Torsten Gerriet Blum (Berlin, Germany), Joanna Chorostowska-Wynimko (Warsaw, Poland)

Discussants: Andriani Charpidou (Athens, Greece), Sam Janes (London, United Kingdom)

09:30 Case 1 incl. panel discussion and Q&A - Author: F. Mei (Italy) Andriani Charpidou (Athens, Greece)

09:52 Case 2 incl. panel discussion and Q&A - Author: S. Wickramasinghe (Sri Lanka) Sam Janes (London, United Kingdom)

10:14 Case 3 incl. panel discussion and Q&A - Author: N. Abu Hussein (Switzerland) Andriani Charpidou (Athens, Greece)

10:36 Case 4 incl. panel discussion and Q&A - Author: N. Cetin (Turkey) Sam Janes (London, United Kingdom)

8A (live-streamed) Session 09:30 - 11:00

State of the art session: Airway diseases

Precision medicine for asthma, chronic obstructive pulmonary disease and chronic cough: new drugs, biomarkers and approaches

Aims: to discuss an individual’s ageing patterns and how these can impact future clinical outcomes; to discuss the identification and treatment options for people with chronic cough; to discuss relevant biomarkers and how to apply them in clinical practice; to provide insight into the barriers to and facilitators of using pulmonary rehabilitation as a vehicle to implement a treatable traits approach.

Disease(s): Airway diseases, Respiratory critical care

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

Tag(s): Clinical

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

Chairs: Apostolos Bossios (Stockholm, Sweden), Emer Kelly (Dublin 4, Ireland)

09:30 GETomics: integrating the time axis in our understanding of chronic obstructive pulmonary disease Alvar Agusti Garcia-Navarro (Barcelona, Spain)

09:45 The interrelatedness of chronic cough and chronic pain Jaclyn Smith (Manchester (Greater Manchester), United Kingdom)

10:00 Biomarkers of airway diseases in clinical practice Florence Schleich (Liège, Belgium)

10:15 Patient’s testimony Hanna Nielsen (Sweden)

10:20 Assessment of airway mucus function and associated treatment in asthma and COPD Arnaud Bourdin (Montpellier Cedex 5, France)

10:35 Discussion and Q&A

8F Session 09:45 - 11:00

Oral presentation: Best abstracts on tobacco, nicotine and cannabis

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

Method(s): Public health, Cell and molecular biology, Epidemiology, Physiology, Pulmonary function testing, General respiratory patient care
Heated tobacco products induced IL-8 overexpression with increased nicotinic acetylcholine receptor in human monocyte THP-1 cells
Hideki Inoue (Tokyo, Japan), Mayumi Yamamoto, Tetsuya Homma, Kaoru Mochizuki, Hitoshi Ikeda, Takaya Ebato, Yoshitaka Uchida, Kuniaki Hirai, Shin Ohta, Shintaro Suzuki, Akihiko Tanaka, Hironori Sagara

Heated Tobacco Products – are they safe alternative for traditional cigarettes?
Paulina Majek (Katowice, Poland), Mateusz Jankowski, Jan Eugeniusz Zejda, Grzegorz Brozek

Relationship of smoking with current and future social isolation and loneliness: 12-year follow-up of 8,780 older adults in England
Keir E J Philip (London, United Kingdom), Feifei Bu, Michael Polkey, Jamie Brown, Andrew Steptoe, Nicholas Hopkinson, Daisy Fancourt

Prevalence and demographics of marijuana users in a Lung Cancer Screening cohort
Amyn Bhamani (London, United Kingdom), Jennifer L Dickson, Carolyn Horst, Sophie Tisi, Helen Hall, Andrew Creamer, Ruth Prendeeck, John Mccabe, Samantha L Quaife, Fanta Bojang, Dominique Arancon, Kylie Gyerton, Anne-Marie Mullin, Jonathan Teague, Laura Farrelly, Allan Hackshaw, Sam M Janes

Novel messages on cigarette sticks and dissuasive cigarettes in smoking cessation and prevention
Giannis Karagiannidis (Athens, Greece), Emmanouil Smyrnakis, Anna-Bettina Haidich, Athanasia Pataka

Parental smoking predicts teenage smoking and e-cigarette use in Ireland-a longitudinal study
Salome Sunday (Blackpool, Ireland), Luke J. Clancy, Joan Hanafin

Particles emissions from a Heated Tobacco Product using sticks having four different flavours
Efthimios Zervas (Patra, Greece), Niki Matsouki, Chara Tsipa, Manos Konstantinidis, Paraskevi Katsaounou

Gender differences in teenage e-cigarette prevalence and predictive variables
Joan Hanafin (Dublin, Ireland), Salome Sunday, Luke Clancy

Impact of chewing bags, e-cigarettes, and combustible cigarettes on small airways and arterial stiffness
Annabelle Susann Hauck (Lübeck, Germany), Isabel Buchwald, Henrik Watz, Frederik Trinkmann, Daniel Drömann, Klaas Frederik Franzen

Late Breaking Abstract - Patient sentiments on tobacco industry ownership of respiratory therapies: A community survey
Ruth Tal-Singer (Media, United States), Murali Krishna Paglou, Linda Walsh, Tim Deuby, Karin Hoth, Victor Gascon, Susanne Hintringer, Nicole Hass, Tonya Winders, Lucy Morgan, Byron Thomashow, David Mannino

Discussion

8N Session 09:45 - 11:00
Oral presentation: Novel targets and approaches in pulmonary translational research

Disease(s): Interstitial lung disease, Airway diseases
Method(s): Cell and molecular biology

Monocyte migration epigenetically regulated by PRMT7 driving COPD pathogenesis
Thomas Conlon (Neuherberg, Germany), Aicha Jeridi, Gizem Günes Günsel, Niklas J. Lang, Meshal Ansari, Hannelore P. Van Eeckhoutte, Stijn Verleden, Tobias Stoeger, Melanie Königshoff, Oliver Eickelberg, Ken R. Bracke, Gerald Burgstaller, Henrik Watz, Herbert B. Schiller, Robert Schneider, Ali Önder Yildirim

Secreted phospholipase A2 XIIA triggers a mitochondrial damage-induced senescence in chronic obstructive pulmonary disease (COPD) fibroblasts
Danushki Herath (Créteil, France), Benjamin Even, Mathilde Oranger, Dulce Papy, Laurent Boyer, Jorge Boczkowski, Maylis Dagouassat

Involvement of FGF21 in pulmonary fibrosis
Mada Ghanem (Paris, France), Aurelien Justet, Mouna Hachem, Tiara Boghainim, Aurelie Vadel, Madeleine Jaill, Arnaud Mailleux, Bruno Crestani

Role of Wnt5a signals in allergic asthma
Abhinav Singla (Essen, Germany), Karin Peters, Sebastian Reuter, Hendrik Beckert, Sandra Busse, Petra Bonowitz, Marcus Peters, Christian Taube
Lung tissue multi-layer network in COPD
Núria Olvera Ocaña (Barcelona, Spain), Jon Sánchez-Valle, Iker Núñez, Sandra Casas-Recasens, Alejandra Lopez-Giraldo, Rosalba Lepore, Davide Cirillo, Alvar Agustí, Alfonso Valencia, Rosa Faner

Increasing efficiency of alveolar type II cells generation from human induced pluripotent stem cells
Alejandro Rodríguez Ruiz (Leiden, Netherlands), Aabilash Ravi, Shewanti Khoenkhoen, Marcella Dias Brescia, Berend Van Meer, Ruth Olmer, Martin Ulrich, Pieter Hiemstra, Anne Van Der Does

Spatial ECM proteomics resolves instructive tissue niches in the distal human lung
Yuexin Chen (München, Germany), Janine Schniering, Pascal Albanese, Meshal Ansari, Christoph H. Mayr, Peter Dorfmüller, Mircea-Gabriel Stoleriu, Rudolf Hatz, Christian P. Schneider, Jürgen Behr, Anne Hilgendorff, Richard Scheltema, Herbert B. Schiller

Transcriptional characterization suggests accelerated epithelial differentiation in Trisomy 21 Lungs
Soula Danopoulos (Torrance, United States), Soumyaroop Bhattacharya, Caroline Cherry, Gaël Deutsch, Thomas Mariani, Denise Al Alam

A single-cell atlas of human fetal lung development between 14 and 19 weeks of gestation.
Laurent RENESME (Talence, France), Flore Lesage, David P Cook, Shumei Zhong, Satu M Hänninen, Olli Carpén, Ivana Mižíková, Bernard Thébaud

Late Breaking Abstract - Gene expression and DNA methylation changes induced by Mepolizumab in the nasal epithelium in severe asthma
Kamini Rakkar (Nottingham, United Kingdom), Vik Lam Pang, Poojitha Rajasekar, Michael A Portelli, Robert Hall, Rachel L Clifford, Dominick Shaw, Ian Sayers

Discussion
8L Session 09:45 - 11:00

Oral presentation: Lung allograft dysfunction: towards better monitoring and treatment
Disease(s): Airway diseases Interstitial lung diseases
Method(s): Transplantation Pulmonary function testing Cell and molecular biology
Chairs: Robin Vos (Leuven, Belgium), Michael Perch (København Ø, Denmark)

Can early lung function measurement predict baseline lung allograft dysfunction (BLAD)?
Nour Hanafi (Toronto, Canada), Anastasia Vasileva, Joyce Wu, Clodagh Ryan, Chung-Wai Chow, John Matelski

Characterization of chronic lung allograft dysfunction (CLAD) at time onset using respiratory oscillometry (Osc)
Anastasia Vasileva (Toronto, Canada), Nour Hanafi, Ella Huszti, Cynthia Nohra, Natalia Belousova, Joyce K. Y. Wu, Clodagh Ryan, Chung-Wai Chow

LSC - 2022 - Mapping the Immune Response Diversity after Murine Lung Transplantation

JAK-STAT pathway is upregulated in CLAD

Detection of bacterial colonization in lung transplant recipients using an electronic nose
Nynke Wijbenga (Rotterdam, Netherlands), Nadine L. A. De Jong, Rogier A. S. Hoek, Bas J. Mathot, Leonard Seghers, Daniel Bos, Olivier C. Manintveld, Merel E. Hellemons

Upper tract microbiome modifications after lung transplantation and its impact in chronic lung allograft dysfunction
Victoria Ruiz De Miguel (Barcelona, Spain), Olfat Khanhous, Cristina Berastegui, Khairina Loor, Mario Culebras, Maria Deu, Chaysavanh Mamchanch, Alba Santiago, Berta Saez-Gimenez, Susana Gomez-Olles, Encarna Varela, Manuel Lopez-Meseguer, Eva Revilla-Lopez, Victor Monforte, Antonio Roman, Toni Gabaldon

Azithromycin and lung transplant: the sooner the better
Marta Cristeto Porras (Santander, Spain), Victor Manuel Mora Cuesta, Laura González Ramos, Noelia Borja Vargas, Joy Selene Osorio Chávez, Sandra Tello Mena, David Iturbe Fernández, Jose Manuel Cifrián Martinez
National experience with Nintedanib for restrictive allograft syndrome following lung transplantation
Hans Henrik Schultz (København, Denmark), Elisabeth Bendstrup, Kristine Jensen, Jesper Rømhild Davidsen, Thomas Kromann Lund, Michael Perch

Late Breaking Abstract - Altered pIgR/IgA mucosal immunity in bronchiolitis obliterans syndrome
François Carlier (Namur, Belgium), Marina Pretolani, Bruno Detry, Nicolas Heddebuat, Thomas Planté-Bordeneuve, Elisabeth Longchampt, Loïc Falque, Martine Reynaud-Gaubert, Sandrine Hirschi, Xavier Demant, Jean-François Mornex, Adrien Tissot, Jérôme Le Pavec, Jonathan Messika, Aurore Foureau, Alexandre Vallée, Charles Pilette, Olivier Brugièreme, And The Colt Consortium

Discussion

8M Session 09:45 - 11:00
Mini symposium: Update on nontuberculous mycobacterial pulmonary diseases
Aims: to present and discuss the state of the art in nontuberculous mycobacteria, considering recent evidence and recently published guidance documents.

Disease(s): Respiratory infections
Method(s): Epidemiology Imaging Public health

Tag(s): Clinical

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

Chairs: Raquel Duarte (Porto, Portugal), James D. Chalmers (Dundee (Angus), United Kingdom)

09:45 Consensus management recommendations for less-common nontuberculous mycobacterial pulmonary diseases
Jakko van Ingen (Nijmegen, Netherlands)

10:00 How to deal with underlying host factors
Claire Andrejak (Amiens, France)

10:15 New drugs: status, gaps and future
Christoph Lange (Borstel, Germany)

10:30 Discussion and Q&A

Studio Session 10:00 - 10:30
Guidelines session: Idiopathic pulmonary fibrosis: an update of diagnosis and treatment recommendations
Official ATS/ERS/JRS/ALAT Clinical Practice Guidelines

Disease(s): Interstitial lung diseases
Method(s): General respiratory patient care

Tag(s): Clinical

Target audience: Adult pulmonologist/Clinician, Medical Student, Physician in Pulmonary Training, Clinical researcher, General practitioner

Chairs: Andrew Bush (London, United Kingdom)

10:00 Discussion and Q&A
Ganesh Raghu (Seattle, United States), Maria Molina Molina (Barcelona, Spain)

8D Session 10:20 - 12:40
Skills workshop: SW2 Exercise, muscle and sleep assessment and interpretation: tips and pitfalls
Tips and pitfalls in exercise, muscle and sleep assessment

Aims: To describe “typical” patterns of responses to exercise, muscle and sleep and to determine methods to distinguish these responses from “anomalous” response profiles that can cause misinterpretation of test results.
### Disease(s) : Sleep and breathing disorders
### Method(s) : Imaging  Physiology  Pulmonary function testing  Pulmonary rehabilitation  Respiratory intensive care
### Tag(s) : Clinical
### Target audience : Adult pulmonologist/Clinician, Clinical researcher, Medical Student, Nurse, Physician in Pulmonary Training, Physiologist, Respiratory physiotherapist, Respiratory critical care physician, Journalist
### Chairs : Sophia E. Schiza (Heraklion, Greece)

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<thead>
<tr>
<th>Time</th>
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<tr>
<td>10:20</td>
<td>Introduction</td>
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</table>
| 10:20 | Cardiopulmonary exercise testing: breathing patterns and dynamic hyperinflation  
Michele Schaeffer (Leuven, Belgium) |
| 10:20 | Respiratory and locomotor muscle testing in clinical practice  
Samuel Verges (Grenoble, France) |
| 10:20 | From different pathophysiological traits revealed by polysomnography to treatment indications or combination of therapies  
Manuel Sanchez De La Torre (Lleida, Spain) |
| 10:20 | Implementation, titration and follow-up of positive airway pressure in patients with obstructive sleep apnoea  
Athanasia Pataka (Thessaloniki, Greece) |

### 10:30-11:15
### INDUSTRY SKILLS LAB WORKSHOP  
SEE PAGE 1

#### Studio Session  
10:45 - 11:15

**Guidelines session: Transbronchial (cryo)biopsy and surgical lung biopsy in interstitial lung diseases**

Disease(s) : Interstitial lung diseases  Thoracic oncology
Method(s) : General respiratory patient care  Endoscopy and interventional pulmonology  Imaging
Tag(s) : Clinical
Target audience : Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Physician in Pulmonary Training, Medical Student, Thoracic oncologist, Thoracic surgeon, Radiologist
Chairs : Andrew Bush (London, United Kingdom)

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| 10:45 | Discussion and Q&A  
Daniël Korevaar (Amsterdam, Netherlands), Venerino Poletti (Forlì, Italy) |

#### 8H (live-streamed) Session  
11:15 - 12:45

**Symposium: Lung function testing from preschool age to adolescence: are we done with spirometry?**

From technical recommendations to real-life use

Aims : to update the knowledge of the audience about different lung function tests applicable from preschool age to adolescence by reviewing the most recent technical changes and the clinical use of these techniques; to explore the accuracy of respiratory mechanics measurements in assessment of bronchial reactivity in asthmatic children, the clinical applications of oscillometry in children, the swift ascent of the measurement of ventilation heterogeneity as a primary outcome in cystic fibrosis patients and the accuracy of new developments in spirometry that have been accelerated by the ongoing COVID-19 pandemic.

Disease(s) : Airway diseases  Paediatric respiratory diseases
Method(s) : Epidemiology  Physiology  Pulmonary function testing
Tag(s) : Clinical
Target audience : Clinical researcher, General practitioner, Medical Student, Medical Technical Assistant, Nurse, Paediatrician, Patient, Physician in Pulmonary Training, Physiologist
Chairs : Monika Gappa (Düsseldorf, Germany), Alexander Möller (Zürich, Switzerland)

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<th>Time</th>
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| 11:15 | The interrupter technique: from reference values to bronchial reactivity assessment  
Nicole Beydon (Paris, France) |
### 8G (live-streamed)

**Session** 11:15 - 12:45

**8G (live-streamed)**  

**Hot topics: Launch of “Lung Facts”**  
**Using data to create a transformation in respiratory healthcare**

**Aims:** to launch and present the findings of the new "Lung Facts". As a major step forwards from the European Lung White Book, published >10 years ago, Lung Facts is a web-based resource presenting all the key epidemiological and economic data for key respiratory conditions across WHO Europe and by each WHO Europe country, which will now be updated regularly. "Lung Facts" will provide a key advocacy tool in the context of the International Respiratory Coalition (IRC) to raise the profile of lung health following the devastating impact of the COVID-19 pandemic on respiratory health across the globe.

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

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Respiratory critical care physician, Paediatrician, Patient, Physician in Pulmonary Training, Journalist

**Chairs:** Marc Humbert (Le Kremlin-Bicêtre, France), Judith Garcia Aymerich (Barcelona, Spain), Chair to be confirmed

11:15  **What we know and where the gaps are**  
Mina Gaga (Athens, Greece)

11:30  **The economics**  
Matthew Franklin (Sheffield, United Kingdom)

11:45  **Areas for action**  
Guy F. Joos (Ghent, Belgium)

12:00  **Having a national impact**  
Chantal Raherison-Semjen (Pointe-à-Pitre, Guadeloupe)

12:15  Discussion and Q&A

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### 8L  

**Session** 11:15 - 12:30

**Oral presentation: Advances in epidemiology, diagnosis and treatment of tuberculosis**

**Disease(s):** Airway diseases

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

**Chairs:** Ayegül Fusun Öner Eyüboğlu (Ankara, Turkey), Marc Lipman (London, United Kingdom)

- **Long-term mortality of post-tuberculous survivors in Korea: a population-based longitudinal study**  
  Hayoung Choi (Seoul, Republic of Korea), Hyun Lee, Kyungdo Han, Sang Hyuk Kim, Sang Hyun Park, Hyung Koo Kang, Jang Won Sohn, Dong Wook Shin

- **Effect of prevention therapy for subclinical tuberculosis in child household contacts**  
  Qi Tan (Nanjing (Jiangsu), China), Chuan-Chin Huang, Mercedes Becerra, Roger Calderon, Silvia Chiang, Carmen Contreras, Leonid Lecca, Jimenez Judith, Perez-Velez Carlos, Claudia Roya-Pabon, Rosa Yataco, Hai Xu, Zibiao Zhang, Megan Murray

- **Culture conversion at 2 months among patients with rifampicin-susceptible pulmonary tuberculosis: a prospective cohort study**  
  Jinsoo Min (Seoul, Republic of Korea), Hyung Woo Kim, Ju Sang Kim, Ki Man Lee, Sun-Hyung Kim, Sung Soo Jung

- **A new fully automated IGRA solution for the diagnosis of M.tb infection**  
  Ali Esmail (Cape Town, South Africa), Richard Meldau, Linda Mbuthini, Marilyne Dupin, Didier Poirault, Keertan Dheda

- **Spirometry and radiological sequelae in post pulmonary tuberculosis: A systematic review**  
  ayush goel (New Delhi, India), Animesh Ray, J Kirtana
Symptom Burden After Completion of Tuberculosis Therapy in REMoxTB
Conor Tweed (London, United Kingdom), Genevieve Wills, Jamilah Meghji

High prevalence of COPD despite successful tuberculosis treatment
Louis Yeung (Sydney, Australia), Zhixin Liu, Kenneth Ng, Anthony Byrne

Using whole genome sequencing to investigate tuberculosis outbreaks in a large UK city: examining the effectiveness of a stone in pond contact tracing approach
Darryl Braganza Menezes (Birmingham (West Midlands), United Kingdom), Tom Marshall, Emmanouil Transos, Hanna Kaur, Esther Robinson, Grace Smith, Martin Dedicoat

Drivers determining active TB screening yield in different European screening programmes: a comparative analysis.
Dominik Zenner (London, United Kingdom), Daniella Brals, Connie Erkens, Alberto Matteeli, Joanna Nederby Öhd, Dee Menezes, Gerard De Vries, Morris Muzyamba, Job Van Rest, Valentina Marchese, Robert Aldridge, Ineke Spriuijt, John Were, Sarah Anderson, Knut Lönroth, Ibrahim Abubakar, Frank Cobelens

Discussion

8F Session 11:15 - 12:30
Oral presentation: COPD treatment: new mechanisms and novel insights

Disease(s) : Airway diseases
Method(s) : Epidemiology Palliative care General respiratory patient care Cell and molecular biology Pulmonary rehabilitation

The effect of integrated palliative care on quality of life and acute healthcare use in patients with COPD – results of the COMPASSION study
Niels H. Chavannes (Leiden, Netherlands), Johanna Broese, Rianne Van Der Kleij, Els Verschuur, Ewald Bronkhorst, Yvonne Engels, Huib Kersjens

Pulmonary rehabilitation changes the oral microbiota of people with COPD
Sara Melo-Dias (Ilhavo, Portugal), Miguel Cabral, Andreia Furtado, Sara Souto-Miranda, João Carvo, Aurora Mendes, Catarina Almeida, Aida Marques, Sousa Ana

Benefit of prompt initiation of single-inhaler triple therapy in COPD patients in England following an exacerbation
Afisi Ismaila (Malvern, United States), Robert Wood, Alexandros Czira, Vicky Banks, Lucinda Camidge, Olivia Massey, Raj Sharma, Chris Compton, Kieran Rothnie

Commencement of fixed dose ICS of varying particle size as a predictor of pneumonia in COPD patients
William Henley (Exeter, United Kingdom), David Price, William Henley, Victoria Carter, Derek Skinner, Rebecca Vella, Alberto Papi, Leonardo M. Fabbri, Huib Am Kersjens, Nicolas Roche, Dave Singh, Claus F Vogelmeier, Elif Şen, José Eduardo Delfini Cançado, Maxim Kots, Elena Nudo, Sara Barile, George Georges

Antimicrobial properties of Gallium Protoporphyrin in COPD
James Baker (MANCHESTER, United Kingdom), Aisha Baba-Dikwa, Simon Lea, Dave Singh

Machine learning-based individual treatment effect estimation of azithromycin on COPD exacerbations
Kenneth Verstraete (Leuven, Belgium), Iwein Gyselinck, Michäel Staes, Sarah Lindberg, Richard Albert, John Connett, Maarten De Vos, Wim Janssens

Similar Programmed Death Ligand 1 expression profile in COPD and NSCLC structural and immune cells
Renata Esposito (Caserta, Italy), Davida Mirra, Giuseppe Spaziano, Erika Cione, Luca Gallelli, Antonio Capuozzo, Carlo Santoriello, Mario Polverino, Bruno D’Agostino, Francesca Polverino

Effects of inhaled corticoids on chronic bronchial infection by Pseudomonas aeruginosa in COPD patients
Noemi Cerón Pisa (Palma, Illes Balears, Spain), Amanda Iglesias, Hanaa Shafiek, Elena Jordana-Lluch, Maria Escobar-Salom, Javier Verdú, Carla López, Antonio Oliver, Carlos Juan, Borja G Cosio

Randomized double blind placebo-controlled study to demonstrate that antibiotics are not needed in moderate acute exacerbations of COPD - Results from the ABACOPD study
Gernot G.U. Rohde (Frankfurt am Main, Germany), Sebastian Häckl, Armin Koch, Martin Kolditz, Hartmut Timmermann, Stefan Andreas, Grit Barten, Tobias Welte, The Abacopd Study Group

Discussion

8M Session 11:15 - 12:30
Oral presentation: Innovations in interventional pulmonology: pushing boundaries with beams, tunnels and robots
### Disease(s):
- Thoracic oncology
- Airway diseases
- Pulmonary vascular diseases
- Interstitial lung diseases

### Method(s):
- Endoscopy and interventional pulmonology
- Imaging
- Surgery

### Chairs:
- Daniela Gompelmann (Vienna, Austria), Mohammed Munavvar (Preston (Lancashire), United Kingdom)

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**Cone beam CT is essential for worthwhile navigation bronchoscopy of small lung nodules**
Laurien Reinders (Rotterdam, Netherlands), Georgios Sotiropoulos, Ralitsa Baranowski, Lúcia Fonseca, Sander Langereis, Kelvin Lau

**Robotic-assisted navigation bronchoscopy with needle-based confocal laser endomicroscopy (nCLE) for real-time lung cancer detection**
Tess Kramer (Amsterdam, Netherlands), Christopher Manley, Rohit Kumar, Lizzy Wijmans, Martijn De Bruin, Eric Ross, Yulan Gong, Hormoz Ehya, Peter Bonta, Jouke Annema

**The Archimedes navigation system for the diagnosis of peripheral pulmonary nodule. Report on initial experience.**
Rachid Tazi Mezalek (Barcelona, Spain), Pere Serra Mitjà, Carmen Centeno Clemente, Carmen Fernandez Arias, Eduard Barrio Herráiz, Felipe Andreo García, Marta Avila, Eva Castella, Ignasi Guasch Arriaga, Jorge Bechini Bernard, Jorge Abad Capa, Antoni Rosell Gratacós

**Four year outcomes of bronchoscopic microwave ablation of peripheral lung nodules**
Kelvin Lau (London, United Kingdom), Kornelija Maceviciute, Kire Temov, Ralitsa Baranowski

**Cryo- versus surgical lung biopsy for diagnosing interstitial lung disease (ILD): the COLD RCT**
Kirsten Kalverda (Amsterdam, Netherlands), Maarten K. Ninaber, Jelle R. Miedema, Jürgen Hölters, Chris Dickhoff, Merijn Kant, Johannes M.A. Daniels, Lizzy Wijmans, René E. Jonkers, Daniel A. Korevaar, Peter I. Bonta, Jouke T. Annema

**Systematic evaluation of the pulmonary arteries during endobronchial ultrasound (EBUS) in patients with suspected lung cancer a prospective cohort trial.**
Amanda Juul (Odense S, Denmark), Christian B. Laursen, Alice Vangerschov Christophersen, Arman Arshad, Stefan Møller Luef, Vasiliki Panou, Jens Paaby, Julie Gellert Larsen, Jacob Reimer, Casper Falster

**Bronchial rheoplasty for chronic bronchitis: initial results from a European registry study with RheOx**
Kaid Darwiche (Essen, Germany), Hanna Zellerhoff, Felix Herth, Judith Brock, Michael Meillinger, Irene Sperk, Arschang Valipour

**CONVERT Trial: Collateral ventilation conversion by closure of fissure defect with AeriSeal Foam for BLVR with Zephyr valves**
Michela Bezzi (Firenze (FI), Italy), Guido Levi, Kaid Darwiche, Thomas Egenod, Nicolas Guibert, Daniel Franzen, Felix J Herth, Dirk-Jan Slesbos, Alan Kirk, Alex Yang, Dennis Mchugh, Narinder Shargill, Samuel V Kemp, Pallav L Shah

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**Discussion**

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**8A (live-streamed) Session 11:15 - 12:45**

**Clinical trials session: ALERT 1: COPD and hospital management**

**Aims:** Including the ALERT sessions (Abstracts Leading to Evolution in Respiratory Medicine Trials), these formats showcase important and very late-breaking clinical trial data from all respiratory disease areas. Presenters, session chairs and viewers will take part lively discussions on the presented trials.

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

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

**Tag(s):** Clinical

**Chairs:** Apostolos Bossios (Stockholm, Sweden), Emer Kelly (Dublin 4, Ireland)

**Discussants:** Dave Singh (Manchester, United Kingdom), Frits M.E. Franssen (Horn, Netherlands)

**RCT Abstract - Dose response of iventicaftor in patients with COPD and chronic bronchitis on triple inhaled therapy**
Frits M.E. Franssen (Horn, Netherlands), Fernando J. Martinez, Jadwiga A. Wedzicha, Joerg H. Eckert, Barbara Knorr, Rutvick Parlikar, Ana-Maria Tanase, Christian Gessner

**RCT Abstract - Point of care blood eosinophil guided oral prednisolone for COPD exacerbations: a multi-centre double blind randomised controlled trial (The STARR2 trial)**
Mona Bafadhel (London, United Kingdom), Sanjay Ramakrishnan, Helen Jeffers, Beverley Langford-Wiley, Joanne Davies, Mahdi Mahdi, Christine A'Court, Ian Binnian, Stephen Bright, Simon Cartwright, Robin Fox, Richard Ek Russell
RCT Abstract - Bronchodilators in Symptomatic Tobacco-exposed Persons with Preserved Spirometry for the RETHINC Study Group

Wrap-up by discussant and discussion
Dave Singh (Manchester, United Kingdom)

Late Breaking Abstract - Randomized, rater-blinded, controlled study of intravenous (IV) N-acetylcysteine (NAC) in hospitalized adults with respiratory tract disease and abnormal mucus secretion
Pietro Magrone (Milan, Italy), Wei Tang, Dan Zhu, Xin Zhang, Valentina Zanin, Jieming Qu

RCT Abstract - High-flow nasal cannula versus noninvasive ventilation in the prevention of escalation to invasive mechanical ventilation in patients with acute hypoxemic respiratory failure
Gamal Rabie Agmy (Assiut, Egypt), Mohamed Adam, Manal Elkhawaga, Entsar Hsanen

Awake Prone Positioning in Acute Hypoxemic Respiratory Failure from COVID-19: A Randomized Clinical Trial

Wrap-up by discussant and discussion
Frits M.E. Franssen (Horn, Netherlands)

Closing remarks
8C (live-streamed) Session 11:15 - 12:45
State of the art session: Thoracic oncology
Unravelling lung cancer mazes: a call for an aggressive approach
Aims: to highlight the latest developments and controversies in lung cancer management; to cover four key areas in which critical new observations have been made in the past year; to provide consolidated updates in order to improve clinical management of lung cancer patients.

Disease(s): Thoracic oncology
Method(s): Cell and molecular biology Palliative care Surgery
Tag(s): Clinical
Target audience: Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Medical Technical Assistant, Nurse, Respiratory critical care physician, Pathologist, Patient, Physician in Pulmonary Training, Physiologist, Radiologist, Respiratory physiotherapist, Scientist (basic, translational), Thoracic oncologist, Thoracic surgeon, Respiratory therapist, Journalist

Chairs: Georgia Hardavella (Athens, Greece), Torsten Gerriet Blum (Berlin, Germany), Joanna Chorostowska-Wynimko (Warsaw, Poland)

11:15 Patient's testimony
Seamus Cotter (Clarecastle, Ireland)

11:20 Does aggressive surgical management of oligometastatic disease pay off?
Stefano Elia (Roma (RM), Italy)

11:35 Recent advances in novel targeted therapies for non-small cell lung cancer and implications for current practice
Jan van Meerbeeck (Edegem (Antwerp), Belgium)

11:50 Incorporating immunotherapy in early-stage lung cancer management
Joanna Chorostowska-Wynimko (Warsaw, Poland)

12:05 Dyspnoea management in lung cancer: Pandora's box?
Irene Higginson (London, United Kingdom)

12:20 Discussion and Q&A
Journal session: The best of the European Respiratory Journal in 2022

Aims: to highlight the best articles published in the European Respiratory Journal (ERJ) over the past 12 months; to provide an up-to-date review of the latest developments in three key respiratory fields, namely, interstitial lung disease, COVID-19 and respiratory epidemiology.

Disease(s): Interstitial lung diseases  Respiratory infections

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

Tag(s): Translational

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

Chairs: Anh Tuan Dinh-Xuan (Paris, France), Daiana Stolz (Basel, Switzerland)

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<tr>
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<th>Session Title</th>
<th>Speaker</th>
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<tr>
<td>11:15</td>
<td>Interstitial lung disease</td>
<td>Marlies S. Wijsenbeek (Rotterdam, Netherlands)</td>
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<td>11:30</td>
<td>COVID-19</td>
<td>Tobias Welte (Hannover, Germany)</td>
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<td>11:45</td>
<td>Respiratory epidemiology</td>
<td>Isabella Annesi Maesano (Montpellier, France)</td>
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<td>12:00</td>
<td>The ERJ: past, present and future</td>
<td>Martin Kolb (Hamilton (ON), Canada)</td>
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<td>12:15</td>
<td>Discussion and Q&amp;A</td>
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8N Mini symposium: Learning is a treasure that follows its owner everywhere

Yernault lecture session

Aims: to illustrate how the joy of learning, distinct curiosity and work endurance advance careers.

Chairs: Marion Delcroix (Leuven, Belgium), Richard Costello (Dublin 9, Ireland)

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<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker</th>
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<tr>
<td>11:15</td>
<td>Introduction</td>
<td>Richard Costello (Dublin 9, Ireland)</td>
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<td>11:25</td>
<td>From respiratory research to clinical needs: the role model illustrates the way</td>
<td>Silvia Ulrich (Zurich, Switzerland)</td>
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<td>11:45</td>
<td>Education and interdisciplinary research in a globalised world: physicians and allied health professionals’ view</td>
<td>Mona Lichtblau (Zürich, Switzerland), Stéphanie Saxer (Zürich, Switzerland)</td>
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<td>12:00</td>
<td>Discussion and Q&amp;A</td>
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<td>12:20</td>
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Studio Online skills lab: Patient ventilator asynchrony (PVA) from ICU to home

Aims: To describe major PVA in the intensive care, its clinical consequences and how to treat them; To describe major PVA during Home mechanical ventilation and propose a specific algorithm; Using case vignettes to provide guidance to understand PVA and how to solve them.

Chairs: Leo Heunks (Amsterdam, Netherlands), João Carlos Winck (Vila Nova de Gaia, Portugal), Marieke L. Duiverman (Groningen, Netherlands)

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<tr>
<td>11:30</td>
<td>Introduction</td>
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<td>11:35</td>
<td>PVA in intensive care: Do we know what to do now?</td>
<td>Lise Piquilloud (Lausanne, Switzerland)</td>
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<td>11:50</td>
<td>PVA at home: How and what to check in a “lifetime ventilation”?</td>
<td>Claudia Crimi (Catania (CT), Italy)</td>
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**8L**  
**Session 12:45 - 14:00**

**Oral presentation: New trends in exercise, physical activity and behavioural changes in COPD, ILD and asthma**

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

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

**Chairs:** Thierry Troosters (Leuven, Belgium), Anne Holland (Fitzroy North (VIC), Australia)

- **Rapid Access Rehabilitation after exacerbations of COPD – an international Delphi study**
  Ana Oliveira (Hamilton, Canada), Shirley Quach, Jan Walker, Dina Brooks, Roger Goldstein

- **Does an 8-week pulmonary rehabilitation (PR) program have equivalent outcomes to a 12-week program in COPD? A randomised controlled trial.**
  Joshua Bishop (Balmain, Australia), Lissa Spencer, Tiffany Dwyer, Zoe Mckeough, Amanda Mcanulty, Jennifer Alison

- **Clusters of functional status in COPD: an exploratory analysis**
  Guilherme Rodrigues (Aveiro, Portugal), Vera Afreixo, Sara Souto-Miranda, Filipa Machado, Vânia Rocha, Maria A. Mendes, Vitória Martins, Paula Simão, Alda Marques

- **The importance of feeling in control - people with COPD’s experiences regarding maintaining or increasing physical activity when using an eHealth tool. A grounded theory analysis.**
  Sarah Marklund (Umeå, Sweden), Ann Sörlin, Tobias Stenlund, Karin Wadell, Andre Nyberg

- **Hybrid pulmonary rehabilitation versus conventional outpatient pulmonary rehabilitation: a propensity-matched analysis**
  Marieke Wuyts (Laeken, Belgium), Astrid Blondeel, Sofie Breuls, Tim Vanhoutte, Veronica Barbier, Amber Beersaerts, Lode Claes, Iris Coolens, Nele Vandenbergh, Heleen Demeyer, Thierry Troosters, Wim Janssens, on behalf of Leuven Pulmonary Rehabilitation Team UZ Leuven

- **Physical activity coaching in patients with ILD: a pilot study**
  Sofie Breuls (Leuven, Belgium), Astrid Blondeel, Marieke Wuyts, Jonas Yserbyt, Wim Janssens, Wim Wuyts, Heleen Demeyer, Thierry Troosters

- **Anxiety and depression symptoms after pulmonary rehabilitation in people with interstitial lung disease: responders and non-responders**
  Alda Sofia Pires De Dias Marques (Aveiro, Portugal), Eduardo Samuel Santos, Guilherme Rodrigues, Sara Souto-Miranda, Sara Almeida, Vânia Rocha, Pedro G. Ferreira, Maria Aurora Mendes

- **iLiFE-Lifestyle Integrated Functional Exercise for people with interstitial lung disease: a feasibility study**
  Cátia Paixão (Aveiro, Portugal), Pedro Ferreira, Maria Aurora Mendes, Dina Brooks, Alda Marques

- **Behavior change to increase physical activity reduces sleep disturbances in asthma: A randomized controlled trial**
  Celso Ricardo Fernandes de Carvalho (São Paulo (SP), Brazil), Patricia Freitas, Natalia Febrini Passos, Alberto Cukier, Regina Carvalho-Pinto

- **Late Breaking Abstract - Prognostic value of the 1-minute sit-to-stand test on postoperative complications in people with lung cancer elected for lung surgery**
  Kirsten Quadflieg (Maasmechelen, Belgium), Rachael Higgins, Maarten Criel, Marc Daenen, David Rutten, Michiel Thommeer, Andrew Maiorana, Chris Burtin, Vinicius Cavalheri

**Discussion**

**8F**  
**Session 12:45 - 14:00**

**Oral presentation: Expanding the insight into COVID-19 dyspnoea**

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

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

**Chairs:** Sam Bayat (Grenoble, France), Caroline Jolley (London, United Kingdom)

- **Pulmonary function and tomographic features in adult survivors of severe COVID-19 pneumonia: a prospective study of 12-month follow up.**
  Paulina Barria (Santiago, Chile), Maria Mozó, Gonzalo Mendoza, Carlos Cerra, Jorge Manriquez, Mario Arenell
**Dysfunctional breathing after COVID-19: symptoms, functional impact and quality of life**
Selina Loew (Switzerland), Leon Genecand, Marco Altarelli, Grégoire Gex, Elzbeta Binkova, Isabelle Frésard, Pierre-Olivier Bridevaux

**Cardiopulmonary exercise testing and ventilatory efficiency in long COVID-19: 15 months follow-up**
Daniel Piamonti (Roma (RM), Italy), Daniela Pellegrino, Arianna Sanna, Luigi Panza, Roberto Flore, Altea Lecci, Giulia Lo Muzio, Emanuele Messina, Valeria Panebianco, Carlo Catalano, Paolo Palange

**CPET ventilatory characteristics of dysfunctional breathing in long COVID patients with persistent dyspnea**
Pierre-Olivier Bridevaux (Sion, Switzerland), Marco Altarelli, Léon Genecand, Selina Loew, Elzbeta Binkova, Grégoire Gex, Isabelle Frésard

**Dyspnoea in patients presenting post-COVID-19 respiratory clinic not fully explained by lung function impairment and chest radiography abnormalities.**
Balamugesh Thangakunam (Vellore (Tamil Nadu), India), Jebin Roger, Barney Isaac, Divya Mangal, Anitha Barney, Richa Gupta, Devasahayam J Christopher

**Virtual reality intervention alleviates dyspnea in patients recovering from COVID pneumonia**
Sophie Betka (Genève, Switzerland), Kannape Oliver, Fasola Jemina, Lance Florian, Cardin Sylvain, Schmid Aline, Similowski Thomas, Soccal Paola, Herbelin Bruno, Adler Dan, Blanke Olaf

**Persisting exertional dyspnea and perceived exercise intolerance after mild Covid-19: a critical role for breathing dysregulation?**
Bram van den Borst (Nijmegen, Netherlands), Esther L. van Voorthuizen, Hanneke A.C. Van Helvoort, Jeannette B. Peters, Michel M. Van Den Heuvel

**A pattern of respiratory dysfunction in mild cases of post-COVID-19 athletes: an emerging hypothesis**
Vasileios Stavrou (Larissa, Greece), Stylianos Boutlas, George Vavougios, Kyriaki Astara, Ioannis Papaioannou, Eirini Papayianni, Vasileios Mitakos, Tourlakopoulos Konstantinos, Kalabakas Konstantinos, Karagiannis Dimitrios, Dainil Zoe, Basdeksis George, Gourgoulianis Konstantinos

**Late Breaking Abstract - Blood haemoglobin and pulse oximetry oxygen saturation measurement error**
Dominick Shaw (Nottingham (Nottinghamshire), United Kingdom), Claire Bradley, Kathryn Kerr, Nicholas Magee

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**8N Session 12:45 - 14:00**

**Oral presentation: Malignant pleural effusion and mesothelioma: diagnosis and optimal management**

*Disease(s):* Thoracic oncology

*Method(s):* General respiratory patient care, Cell and molecular biology, Physiology, Surgery, Palliative care, Endoscopy and interventional pulmonology, Imaging, Epidemiology, Public health

*Chairs:* Selina Tsim (Glasgow (Glasgow), United Kingdom), Chair to be confirmed

**Anatomical and symptom changes in malignant pleural effusion using 4-Dimensional MRI**
Geeshath Jayasekera (Glasgow (Glasgow), United Kingdom), Geoffrey Martin, Rosemary Woodward, John Foster, Selina Tsim, Kevin Blyth

**Global trends in mesothelioma incidence, mortality and disability adjusted life years for the period 1990-2019**
Erasmia Rouka (Larissa, Greece), Chriissi Hatzoglou, Konstantinos Gourgoulianis, Sotirios Zarogiannis

**External validation of a breath test for pleural mesothelioma**
Eline Schillebeeckx (Antwerpen, Belgium), Eline Janssens, Joris Van Cleemput, Veerle Surmont, Kristiaan Nackaerts, Elly Marcq, Jan Van Meerbeeck, Kevin Lamote

**Caring for indwelling pleural catheters: self-management vs district nursing care**
Vineeth George (Oxford, United Kingdom), Anand Sundaralingam, Bavidra Kulendrajah, Eihab Bedawi, Radhika Banka, Mohammed Ellayeh, Robert Hallifax, Najib Rahman

**Virtual review following indwelling pleural catheter (IPC) insertion**
David McCracken (Newtownabbey, United Kingdom), Claire Bradley, Kathryn Kerr, Nicholas Magee
Malignant Pleural Mesothelioma in situ is a reality: how to handle this?
Federico Raveglia (Monza, Italy), Riccardo Orlandi, Francesca Bono, Piergiorgio Solli, Giuseppe Cardillo, Lidia Libretti, Antonio Tuoro, Enrico Mario Cassina, Edward Caruana, Marco Scarci

Analysis of patients with non-specific pleuritis from the International Collaborative Effusion (ICE) database: an ERS Clinical Research Collaboration

Defining a new diagnostic biomarker panel for malignant pleural mesothelioma using a novel proteomic technique
Eline Schillebeeckx (Antwerpen, Belgium), Esperanza Fernandez, Marnik Vuytsteke, Daria Fijalkowska, Anil Staes, Jan Van Meerbeeck, Kris Gevaert, Kevin Lamote

Reflecting real-world patients in mesothelioma research: the pragmatic, multi-centre ASSESS-meso cohort
Ruairi J H Conway (Bristol, United Kingdom), Sonia Patole, Anna J Morley, Jenny Symonds, Deborah Walton, Emma Tucker, Charles Comins, Andrew Low, Janet Proberts, John E Harvey, William Cooper, Anthony Edey, Kevin G Blyth, Nick A Maskell, Anna C Bibby

Discussion

TP-5 Session 13:00 - 14:00

Thematic poster: Non-COVID-19: mechanical ventilation and beyond

Disease(s) : Airway diseases, Respiratory critical care, Interstitial lung diseases, Pulmonary vascular diseases
Method(s) : Surgery, Respiratory intensive care, General respiratory patient care, Imaging, Physiology, Epidemiology, Public health

Corticosteroid for acute exacerbations of COPD in ICU. A French Cohort: OUTCOMEREA database.
Jean-Louis Pépin (Grenoble, France), Louis-Marie Galerneau, Sébastien Bailly, Nicolas Terzi, Stéphane Ruckly, Maité Garrouste-Orgeas, Yves Cohen, Vivien Hong Tuan Ha, Marc Gaimnier, Shidasp Siami, Claire Dupuis, Michael Darmon, Elie Aouzayl, Jean-Marie Forel, Florian Sigaud, Christophe Adrie, Dany Goldgran-Toledano, Fabrice Brunel, Etienne De Montmollin, Laurent Argaud, Jean Reignier, Jean-François Timsit

Management of Acute Exacerbations of COPD in the Intensive Care Unit: OUTCOMEREA Database 1997-2018
Jean-Louis Pépin (Grenoble, France), Louis-Marie Galerneau, Sébastien Bailly, Nicolas Terzi, Stéphane Ruckly, Maité Garrouste-Orgeas, Yves Cohen, Vivien Hong Tuan Ha, Marc Gaimnier, Shidasp Siami, Claire Dupuis, Michael Darmon, Elie Aouzayl, Jean-Marie Forel, Florian Sigaud, Christophe Adrie, Dany Goldgran-Toledano, Fabrice Brunel, Etienne De Montmollin, Laurent Argaud, Jean Reignier, Jean-François Timsit

Evaluation of aerosol drug delivery in a simulated adult asthma patient
Elena Fernández Fernández (Galway, Ireland), Marc Mac Giolla Eain, Mary Joyce, Ronan Macloughlin

The Prognostic significance of MELD-XI in Patients Admitted to the ICU for Respiratory Failure
Fatma Çiftci (Ankara, Turkey), Yağmur Gizem Kılıç, Aslıhan Güırün Kaya, Miraç Öz, Serhat Erol, Aydın Çiledağ, Akın Kaya

Parasternal EMG assessment in patients with severe Guillain-Barré Syndrome weaning from mechanical ventilation
Michael Cheng (Broadway (NSW), Australia), Anne Rossel, Amanda Piper, Patrick Murphy, Joerg Steier

Machine learning (ML) classifier models in ARDS to identify patients with a low percentage of potentially recruitable lung
Francesca Pennati (Milano (MI), Italy), Silvia Coppola, Andrea Aliverti, Davide Chiumello

Outcomes of patients with initial acute respiratory failure on veno-venous extracorporeal membrane oxygenation (ECMO) requiring additional circulatory support by VVA-ECMO

Impact of early ECMO support on survival of patients with Hantavirus cardiopulmonary syndrome in Chile.
Ricardo Fritz (Santiago, Chile), Francisco Arancibia Hernandez, Claudia Sepúlveda, Jorge Gavilán, Christian Espinoza, Edgardo Ossandon, Marcelo Concha, Sebastian Iturra

Safety of a prone implementation quality based initiative in a safety net hospital
Keely Johnson (Astoria, United States), Reiichiro Obata, Demetrios Papademetrou, Mohamed Darwish, Alfredo Astua
Predictive mortality factors of Diffuse Alveolar Hemorrhage: a retrospective study in Tunisia
amina abdelkbir (ben arous, Tunisia), Yosr Ayedi, Chahida Harizi, Atef Skhiri, Monia Attia, Radhouane Fakhfakh

Higher Crystalloids Volumes Predict Adverse Outcomes in Emergency Department Patients with Blunt Thoracic Trauma
Jacopo Davide Giamello (Busca, Italy), Gianpiero Martini, Paolo Crida, Ylenia Arese, Luca Bertolaccini, Sara Abram, Elisa Basile, Emanuele Bernardi, Fabio Morra, Fabrizio Corsini, Francesco Tosello, Gabriele Sobrero, Giovanna Greco, Letizia Barutta, Marco Bironzo, Giuseppe Lauria

Spontaneous pneumothorax and factors associated with its development in a cohort of COVID-19 patients in Latin America
Luis Dulcey (Bucaramanga, Colombia), Raimondo Caltagirone, Juan Theran, Diana Villamizar, Melissa Aguas, Hector Moreno, Jonathan Pineda, Rafael Parales

STUMBL score for emergency department safe discharge of patients with minor blunt thoracic trauma
Jacopo Davide Giamello (Busca, Italy), Gianpiero Martini, Davide Prato, Marco Santoro, Ylenia Arese, Luca Bertolaccini, Remo Melchio, Ceri Elisabeth Battle, Timothy Driscoll, Alessia Bono, Alessia Poggi, Alice Bruno, Andrea Falcetta, Andrea Sciolla, Chiara Fulcheri, Daniela Caruso, Giuseppe Lauria

Responder status and long term outcomes of critically ill patients with ARDS receiving high dose steroids as rescue therapy in a specialist acute respiratory failure centre

Impact of limbs pneumatic compression during cardiopulmonary resuscitation (CPR) on the survival of cardiac arrest patients
BoXue Han (Beijing, China), Jian Zhang, Ying Wang, Yanyang Zhao, Jianguo Zhao, Donghua Shen, Wei Wang, Zhitao Jin, BeiFeng Zhang, YongFei Liu, Jie Bai, Aier Wang, Guanghan Wu

Evaluation of pleural procedural confidence in intensive care trainees (EPIC)
Lillian Fitzpatrick (Tamworth, Australia), Claire Pickering, Kathryn Kerr, Vineeth George

Kinetics of serum chemerin in critically ill patients with sepsis: a prospective study
Irene Karampela (Athens, Greece), Gerasimos-Socrates Christodoulou, Ntalia Vallianou, Dimitrios Tsilingiris, Evangelia Chrysanthopoulou, George Skyllas, Georgios Antonakos, Ioanna Marinou, Evangelos Vogiatsakis, Apostolos Armaganidis, Maria Dalamaga

Ventilator alarms that received no intervention: an analysis of ventilator alarm relationship in intensive care units
Chang Yujen (Taichung City, Taiwan), Chi Shuhua, Hsiao Yaochuan

Technological innovation device "DYNAtraq" for the alignment and fixation of the tracheostomy cannula: Preliminary analysis of its efficacy and safety.
Mauroco A. Orozco-Levi (Barcelona, Spain), Diana Tiga-Loza, Mabel Reyes-Pulido, Carlos Reyes, Camilo Pizarro, Diana Rey, Angela Espitia, Angie Pabón, Magia Pérez-Silva, Sandra Sanabria, Neikel Quintero, Alba Ramirez-Sarmiento

Pneumothorax - a life-threatening complication in patients with cystic fibrosis
Oxana Munteanu (Chişinău (Chișinău), Republic of Moldova), Ludmila Balanetchi, Eva Gudumac, Rodica Selevestru, Doina Ciolpan, Ana Goloborodico, Cristina Tomacinschi, Svetlana Suciuc

Thematic poster: Pleural and other respiratory infections

Themed poster: Pleural and other respiratory infections

Session 13:00 - 14:00

Thematic poster: Pleural and other respiratory infections

Disease(s): Airway diseases Respiratory critical care

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

Chairs: Monika Bratová (Bno 35, Czech Republic), Poppy Denniston (London, United Kingdom)

Microbiological analysis and empirical antibiotic preference in complicated pleural infections
Seda Tural Onür (Istanbul, Turkey), Eminegül Yavuzsan, Fatma Tokgöz Akyil, Mustafa Vedat Doğru, Levent Cansever, Sedat Altun

The microbiology of adult pleural infection in an Egyptian hospital
Maged Hassan (Alexandria, Egypt), Mohamed Gadallah, Asmaa Elshazly, Basma El-Shaarawy, Ahmed Sadaka

Ambulatory management of bronchopleural fistulae secondary to empyema
Joanna Davy (Ipswich, United Kingdom), Po Tang, Mathew Burton
Nursing administration of Alteplase and Dornase Alfa in empyema
Hussun-Ara Shah (Newcastle upon Tyne, United Kingdom), Thomas Fretwell, Gemma Stiller, Sarah Bain

USE AND EFFECTIVENESS OF INTRAPLEURAL FIBRINOLYTICS IN COMPLICATED PARAPNEUMONIC EFFUSIONS AND EMPYEMAS
Fotios Sampsonas (Patra, Greece), Maria Lagadinou, Maria Mpouga, Ioannis Piclikniski, Theodoros Karampitsakos, Ourania Papaioannou, Mathaios Katsaras, Panagiota Tsiri, Giorgos Tsirikos, Eirini Zarkadi, Vasilina Sotiropoulou, Argyrios Tzouvelakis

A feasibility randomised trial comparing therapeutic thoracentesis to chest tube insertion for the management of pleural infection: results from the ACTion trial.
David Arnold (Bristol (Avon), United Kingdom), Emma Tucker, Anna Morley, Alice Milne, Louise Stadon, Sonia Patole, George Nava, Steven Walker, Nick Maskell

Management and outcomes of patients with pleural empyema
Nesrin Kallel (Sfax, Tunisia), Molka Abdelkefi, Ahmed Dhia El Euch, Moustapha Hamoudi, Sourour Abid, Walid Feki, Samy Kammoun

Lung abscess is associated with COPD, use of sedatives and a high mortality: A retrospective cohort study
Søren Sperling (Aarhus N, Denmark), Jakob Kirkegaard Vaarst, Søren Sperling Haugen, Victor Naestholt Dahl, Andreas Fløe Hvass, Christian Borbjerg Laursen, Elisabeth Bendstrup

Lung hydatidosis treatment: which are the associated morbidity and mortality risk factors?
Abdessalem Bentati (Sfax, Tunisia), Zied Chaari, Aymen Ben Ayed, Walid Abid, Imed Frika

An unusual cause of infection in immunocompetent individuals: A case series
Hari Kishan Gomumanta (SECUNDERABAD, India), Don Gregory Mascarenhas, Roshan Kumar, Preeti Vidyasagar, Sravani Reddy, Samia Syeda

Valaciclovir for Epstein-Barr virus suppression in Chronic Obstructive Pulmonary Disease: A Randomised Controlled Trial (EVISCO)
Dermot Linden (Belfast, United Kingdom), Hong Guo-Parker, Michael Mckelvey, Gisli Einarsson, Andrew Lee, Derek Fairley, Vanessa Brown, Danielle Logan, Christina Campbell, Dave Singh, Michael Tunney, Danny Mcauley, Cliff Taggart, Joe Kidney

Pulmonary hydatid disease: clinical and radiographic features
Alia Ezzouaouia (Tunis, Tunisia), Ines Akrou, Hela Hassene, Hela Kamoun, Ysra Bellil, Hend Ouertani, Hadhemi Rejeb, Dorra Greb, Hanene Smadhi, Hager Ben Abdelghaffar, Leila El Fekih, Mohamed Lamine Megdiche

Pulmonary infection characteristics leading to respiratory failure, a modelling approach.
Frédérique NOEL (Paris, France), Benjam Mauroy

Tolerance and safety of inhaled hypertonic saline solutions in patients with chronic bronquial infection.
Diurbis Josefina Velasco Álvarez (Madrid, Spain), Diego Durán Barata, Rosa Nieto Rojo, Raquel Morillo Guerrero, Aurora Solier López, Carlos Almonacid Sánchez, Esther Barbero Herranz, Beatriz Pintado Cort, Andrea Pérez Figuera, Luis Máiz Carro

The contribution of bronchoscopy in the diagnosis of pulmonary hydatid cyst
Zakaria Laklaai (casablanca, Morocco), Khadija Channoune, Nahid Zaghiba, Hanane Benjelloune, Najiba Yassine

Human tularemia in Southern Germany: a case series
Marion Heiß-Neumann (Gauting, Germany), Marianne Vacca

Saccharomyces boulardii in the prevention of antibiotic-associated diarrhea in hospitalized adult patients with lower respiratory tract infections
Branišlava Milenković (Beograd, Republic of Serbia), Ilija Andrijevic, Sanja Dinić Janić, Senka Milutinov Ilić, Ivan Kopitovic, Mihailo Stjepanovic, Ana Andrijevic, Jelena Jankovic, Svetlana Mitrovic

Bacterial biofilms predominate in both acute and chronic human lung infections
Mette Kolpen (Copenhagen, Denmark), Kasper Nørskov Kragh, Juan Barraza Enciso, Daniel Faurholt-Jepsen , Birgitte Lindegaard, Gertrud Baumbæk Edelund, Andreas Vestergaard Jensen, Pernille Ravn, Inger Hee Mabuza Mathiesen, Alexandra Gabriella Gheorghe, Frederik Boëtius Hertz, Tavs Qvist, Marvin Whiteley, Peter Østrup Jensen, Thomas Bjarnsholt

Pleuroneumonia caused by Nocardia cyriacigeorgica in a 14-year-old girl with PCD
Ruth Maria Urbantat (Berlin, Germany), Charlotte Pioch, Niklas Ziegahn, Miriam Stegemann, Mirjam Stahl, Marcus A. Mall, Jobst F. Röhmel
Integrated microbiome-mucus profiling in chronic obstructive pulmonary disease (COPD)

TP-26
Session 13:00 - 14:00

Thematic poster: Thoracic ultrasound: from central Airways to the chest wall

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

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

Chairs: Søren Helbo Skaarup (Aarhus C, Denmark), Konstantina Kontogianni (Heidelberg, Germany)

Chest ultrasound description of bullous emphysema and comparison to pneumothorax: a prospective multicentre study
Kinan El Husseini (Paris, France), Thomas Flament, Sophie Laroumagne, Mathilde Le Brun, Elise Noël-Savina, Philippe Richard, Damien Basille, Gilles Mangiapan, Elise Artaud-Macari

Focused lung ultrasound versus conventional chest x-ray for detection of pneumothorax following CT-guided transthoracic needle biopsy
Pia Iben Pietersen (Odense NØ, Denmark), Emma Katrine Jeppesen, Amanda Dandanell Juel, Christian Laursen, Ole Graumann

Ultrasound monitoring of pneumothorax after CT-guided transthoracic lung biopsy
Pia Iben Pietersen (Odense NØ, Denmark), Nina Everloff, Amanda Dandanell Juel, Christian Laursen, Ole Graumann

SEARCHING FOR A ROLE OF TRANSTHORACIC ULTRASOUND IN SEVERE ASTHMA
Carla Maria Irene Quaratò (Foggia, Italy), Donato Lacedonia, Marco Sperandeo, Maria Giovanna Palumbo, Paolo Fusco, Marcello Stomaci, Giorgia Lepore, Annarita Depalo, Maria Pia Foschino Barbaro, Giulia Scioscia

M-mode obstruction index (MIO): an ultrasound method to evaluate presence and severity of airway obstruction in COPD patient
Elisa Riccardi (Massimo Visconti, Italy), Massimo Comune, Giovanni Ferrari, Alessandro Oliva, Paolo Righini, Valter Gallo, Carlotta Geninatti, Roberto Prota

Association of diaphragm thickness and echogenicity with age, sex and BMI in healthy subjects: a cross-sectional study
Jeroen van Doorn (Nijmegen, Netherlands), Juerd Wijntjes, Christiaan Saris, Coen Ottenheijm, Nens Van Alfen, Jonne Doorduin

Ipsilateral and contralateral hemidiaphragm dynamics in symptomatic pleural effusion, the 2nd PLearse Effusion And Symptom Evaluation (PLEASE)-2 Study
Deirdre B Fitzgerald (Perth, Australia), Sanjeevan Muruganandan, Carolyn J McIntyre, Y C Gary Lee, Bhajan Singh

Diaphragm ultrasound in spondyloarthritis: assessment of diaphragmatic motion and respiratory function
Islam Mejri Ep Ajili (Hammanlif Ben Arous, Tunisia), Abir Dghaies, Rim Dhahri, Samira Mhamdi, Selsabil Daboussi, Chiraz Aichaoouia, Imen Gharsallah, Zied Moatemri

USEFULNESS OF DIAPHRAGM ECOINTENSITY FOR THE MANAGEMENT OF PATIENTS WITH AMYOTROPHIC LATERAL SCLEROSIS
Santos Ferrer Espinosa (Valencia, Spain), Alba Mulet Arabi, Jesús Sancho Chinesta, Lucía Fdez-Presa, Jaime Signes-Costa Miñana

Prediction of extubation failure via diaphragmatic ultrasound among mechanically ventilated adult patients admitted in intensive care unit of a tertiary care hospital, Karachi, Pakistan: a prospective cohort
Maria Khan (Karachi, Pakistan), Maryam Lakhdir, Hashir Majid, Iqbal Azam, Ghufran Adnan, Masood Kadir

Usefulness of diaphragmatic ultrasound as a prognosis predictor in an Intermediate Respiratory Care Unit in COVID-19 patients
Tomas Villen (Madrid, Spain), Esther Barbero, Miguel Lorente, José Terán, Pedro Landete

The role of Trans-thoracic ultrasonography for rapid detection of Covid-19 pandemic-pneumonia (262 cases)?
Abdul Rasheed Qureshi (Lahore, Pakistan), Huma Bilal
Lung Ultrasound (LUS) To Predict The Risk Of Hospitalization In COVID-19 Patients Treated With Anti-SARS-CoV-2 Monoclonal Antibodies
Valentina Pinelli (Sarzana, Italy), Federica Novelli, Puppo Gianfranco, Meazza Massimiliano, Stefania Artioli

Segmental lung anatomy for ultrasound assessment for post-COVID conditions
Rostyslav Bubnov (Kyiv, Ukraine), Anatoliy Serhiienko, Zbigniew Pilecki, Grzegorz Pilecki

Pseudo-anthropomorphic phantom for ultrasound-guided thoracic interventions
Ana Belén Llanos Gonzalez (La Orotava, Spain), Natalia Arteaga-Marrero, Enrique Villa, Marta Elena Gómez Gil, Orlando Acosta Fernández, Juan Bautista Ruiz-Alzola, Javier González-Fernández

Physician-led ultrasound interventions: Rapid diagnosis of lung cancer during the COVID-19 pandemic
Kerri-Marie Heenan (Dungannon, United Kingdom), Laura Davidson, Therese Scullion, Eddie Gibson, Rory Kelly, Kelly Elliot, Graeme O'Hara, Jackie Jamison, Izaiah Masih

Ultrasound guided neck node aspiration (FNAC) by pulmonologist in patients with lung cancer
Eman Nasr (Manchester (Greater Manchester), United Kingdom), Kashif Ali Khan, Simon Bailey, David Shelton

Ultrasound-guided needle aspiration biopsy of anterior mediastinal masses in the hands of pulmonologists
Marta Viscuso (Roma, Italy), Guido Levi, Vanina Livi, Daniela Paioli, Luca Richeldi, Rocco Trisolini, Giampietro Marchetti

Ultrasound guided(USG) trucut biopsy of the pleura, lymph nodes and chest wall/subcutaneous lesions performed by respiratory physicians
Qaiser Abdullah (Stoke on trent, United Kingdom), Sana Iftikhar, Ahmed Abimusa, Muhammad Ganaie, Shahul Khan, Mohammed Haris

Thematic poster: Comorbidities and symptoms in interstitial lung diseases think out of the box

**Disease(s):** Interstitial lung diseases Sleep and breathing disorders Thoracic oncology Pulmonary vascular diseases

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

**Chairs:** Laurens De Sadeleer (Leuven, Belgium), Sabina A. Guler (Bern, Switzerland)

**Clinical and biological impact of respiratory sleep disorders in IPF**
Jaume Bordas Martinez (barcelona, Spain), Neus Salord, Vanesa Vicens Zygmunt, Rosana Blavia Aloy, Sandra Pérez Ramos, Eliseo Prado Gala, María D. Calvo Sánchez, Guadalupe Bermuda, Jesús Rios Martín, Salud Santos, María Molina-Molina*, Carmen Monasterio*

**Development of scoring system for the prediction of pulmonary complications following curative resection in lung cancer with idiopathic pulmonary**
Hongseok Yoo (Seoul, Republic of Korea), Yunjoo Im, Man Pyo Chung

**Nintedanib in patients with progressive fibrosing ILDs in subgroups by comorbidity burden**
Elisabeth Bendstrup (Aarhus N, Denmark), Teng Moua, Masaki Okamoto, Sara Tomassetti, Claudia Valenzuela, Wim A Wuys, Corrina Miede, Dirk Lievens, Francesco Bonella

**Idiopathic pulmonary fibrosis and palliative care: a qualitative exploration of nurses' experiences.**
Grace O'Sullivan (Cork, Ireland), Chanel Watson, Bridget Murray

**Triggers and impact of chronic cough in interstitial lung disease**
Barnaby Hirons (London, United Kingdom), Katie Rhatigan, Harini Kesavan, Louise Wright, Emma Pelling, Peter S P Cho, Surinder S Birring

**Neurocognitive impairment in patients with idiopathic pulmonary fibrosis**
Ana Milenković (Novi Sad, Republic of Serbia), Jovan Javorac, Dejan Živanović, Miroslav Ilić, Nevena Savić, Miloš Cvetković

**Impact of weight loss on outcomes in patients with progressive fibrosing interstitial lung diseases (ILDs)**
Michael Kreuter (Heidelberg, Germany), Elisabeth Bendstrup, Toby M Maher, Yoshikazu Inoue, Corrina Miede, Dirk Lievens, Bruno Crestani

**Effects of influenza vaccination in patients with interstitial lung diseases: an epidemiological claims data analysis**
Michael Kreuter (Heidelberg, Germany), Pavo Marijic, Larissa Schwarzkopf, Werner Maier, Franziska Trudzinski, Lars Schwetmann

**Patients' perceptions of interstitial lung disease (ILD)**
Vijay Joshi (Edgware (Middlesex), United Kingdom), Arisa Reka, Lizan Drummonds
"The will to live!" The perceptions of patients with idiopathic pulmonary fibrosis (IPF) in relation to antifibrotic treatment: a qualitative study
Eliane Viana Mancuzo (Belo Horizonte (MG), Brazil), Liliane Neto Generoso, Tais Mancuzo De Freitas, Marcella Guimaraes Assis

Oesophageal Dysmotility: Does it Play a Role in Interstitial Lung Diseases?
Dominic Sykes (Hull, United Kingdom), Simon P Hart, Michael G Crooks, Warren Jackson, John Gallagher, Alyn H Morice

Non-tuberculous mycobacterial pulmonary disease in patients with idiopathic pulmonary fibrosis Non-tuberculous mycobacterial pulmonary disease in patients with idiopathic pulmonary fibrosis
Jin-Young Huh (Republic of Korea), Kyung-Wook Jo, Tae Sun Shim, Jin Woo Song

Deterioration of 6-minute walk distance in Idiopathic pleuroparenchymal fibroelastosis is not related to the disease entity
Satoru Ebihara (Tokyo, Japan), Naofumi Sato, Takae Ebihara

Psychological assessment and intervention in IPF patients
Leonardo Rovere (Milano, Italy), Stefania Pozzi, Emanuela De Juli, Sabrina Agostina Amatucci, Giorgio Ziglio, Paolo Tarsia, Umberto Mazza

Impact of intrathoracic pressure in the assessment of central pulmonary pressures in COPD and ILD candidates for lung transplantation.
Juan Grignola (Montevideo, Uruguay), Alvaro Calabuig, Carlos Bravo, Pedro Trujillo, Manuel López-Messeguer, Enric Domingo

Intersitial Lung Disease: The Forgotten Patient
Heidi Prior (greater manchester, United Kingdom), Hashim Hameed, Alison Unsworth, Adele Watmough, Abdul Ashish

A Comparison of Survival in IPF, Emphysema and CPFE Syndrome
Christopher C. Huntley (Bromsgrove, United Kingdom), Michael N. Armitage, Pathraban Mitra, Maximillian Thomas, P. Sherwood Burge, Gareth I. Walters, Alice M. Turner

Loss of muscle mass in Idiopathic Pulmonary Fibrosis
Nicol Bernardinello (Trecenta (RO), Italy), Simone Petraruolo, Giulia Grisostomi, Antonella Modugno, Sofia Bertin, Dylan Pasin, Elisabetta Cocconcelli, Paolo Spagnolo, Chiara Giraudo, Elisabetta Balestro

Late Breaking Abstract - Association between the Use of Statins and Incidence of Interstitial Lung Disease/Idiopathic Pulmonary Fibrosis: A Cohort Study
Won-Il Choi (Goyang-si, Republic of Korea), Gjustina Loloci, Dong Yoon Lee, Jihyeon Jeong

Late Breaking Abstract - The interstitial lung disease (ILD) patient journey in Brazil
Adalberto Sperb Rubin (Porto Alegre (RS), Brazil), Licia Mota, Rodrigo Scabello, Carla Cruz, Henrique Silva

Thematic poster: Diagnostic modalities for sleep disordered breathing
Disease(s) : Airway diseases, Respiratory critical care, Sleep and breathing disorders, Interstitial lung diseases
Method(s) : Physiology, Public health, General respiratory patient care, Epidemiology
Chairs : Athanasia Pataka (Thessaloniki, Greece), Matteo Bradicich (Zollikerberg, Switzerland)

Diagnostic utility of the modified Berlin Questionnaire vs Berlin Questionnaire for the diagnosis of obstructive sleep apnoea in adults with a history of COVID-19 infection
Yeliz Çelik (Istanbul, Turkey), Yüksel Peker

Gender gap of NOSAS score in patients with suspected OSA.
Jose Solorzano Eguribe (bilbao, Spain), Imanol Gonzalez Muhoz, Edurne Echevarria Guerrero, Mª Luz Zaldibar Barinaga, Yolanda Rey Fernandez, Beatriz Gonzalez Quero, Laura Cancelo Diaz, Sonia Castro Quintas, Amaia Urrutia Gajate, Valentín Cabriada Nuño

Validation of NoSAS score for screening of sleep disordered breathing (SDB) in our patients with suspected OSA
Sonia Castro Quintas (Bilbao (Bizkaia), Spain), Amaia Urrutia Gajate, Jose Solorzano Eguribe, Elena Garay Llorente, Beatriz Gonzalez Quero, Joseba Andia Iturrate, Valentín Cabriada Nuño

Comparison of two questionnaires for screening obstructive sleep apnea Syndrome in the elderly.
syrine Abdellatif (Marsa, Tunisia), Ferdaous Yangui, Chaima Baya, Hela Cherif, Mrassi Hana, Mariem Triki, Mohamed Ridha Charfi
Paternal pre-pubertal tobacco smoking and offspring DNA methylation
Negusse Kitaba (Southampton, United Kingdom), Toril Knudsen, Ane Johannessen, Faisal Rezwan, Andrei Malinovschi, Anna Oudin, Bryndis Benediktsdottir, David Martino, Francisco Callejas-González, Leopoldo Gómez, Mathias Holm, Oskar Jögi, Shyamali Shyamali Dharmage, Svein Skulstad, Francisco Gómez-Real, Vivi Schlunssen, Cecilie Svanes, John Holloway

Cannabis smokers among lung cancer patients: data from real-life French study
Olivier Molinier (Le mans, France), Dorine Templement, Sébastien Couraud, Stéphanie Dehette, Pierre-Alexandre Hauss, Marjorie Picaud, Anne-Sophie Bravard, Hervé Le Floch, Magalie Paysse, Patrick Dumont, Laurent Mosser, Christian Delafosse, Cécile Maincent, Joëlle Courdeau-Labourie, Jérôme Virally, Anne-Sophie Blanchet-Legens, Florence Lamotte, Alexa Mairovitz, Vincent Tack, Alexia Letercie, Didier Debieuvre

Tobacco smoking and severity of COVID-19: Experience from ICU department in a referral hospital during the third pandemic wave
Stamatoula Tsikrika (Athens, Greece), Sylvia Raftopoulou, Vasiliki Nanou, Sotiris Kakavas, Aikaterini Tzagkaraki, Sofia Pouriki, Panagiotis Nikolopoulos, Marina Asmanidou, Theoni Agapitou, Ioannis Nikolopoulos

COVID-19 and smoking: Worst complications and outcome
Gholamreza Heydari (Tehran, Islamic Republic of Iran)

What is the main driver of tobacco survey participation in medical school? A national cross-sectional study in Portugal
Sofia Belo Ravara (Covilhã, Portugal), Inês Sofia Pontes Clemente, Hilson Cunha Filho, Pedro Aguiar, Jorge Bonito

Trend of smuggled cigarette consumption in Tehran in the last two decades
Gholamreza Heydari (Tehran, Islamic Republic of Iran), Luk Joosens

Medical trainees’ knowledge and attitudes towards electronic cigarettes and Hookah
Luiza Helena Degani-Costa (São Paulo, Brazil), Fernando P Bruno, Fernanda Gushken, Claudia Szleif, João Roberto Resende Fernandes, Ana B P Tokeshi, Yasmin F Tehrani, Daniel Kaufman, Kandipudi K Lakshmi Prasad, Limalemla Jamir, Pentapati S S Kumar, Morag G Ryan, Matthew G K Benesch, Hardeep S Lotay, Jonathan P Fuld, Thiago M Fidalgo

Long-term outcomes of a tertiary care university affiliated hospital’s smoking cessation outpatient clinic: Experience from the Eastern Black Sea Region of Turkey
Dilek Karadoğan (Rize, Turkey), Semih Altunsoy, Tahsin Gökhan Telatar, Únal Şahin

Electronic opt-out smoking cessation proforma results in high levels of engagement among emergency surgical admissions
Fred Fyles (Liverpool, United Kingdom), Steven Coulson, Kate Maitland, Patricia Rodrigues, Gareth Jones

Curcumventing the Menthol Ban: Internet sales of menthol balls
Elif Dagli (Istanbul, Turkey), Ummuhan Pece Sonmez, Murat Guner, Osman Elbek, Pinar Ay, Fusun Yildiz, Tanzer Gezer, Murat Ceyhan

Effect of gender and age on the perception of cigarettes flavour intensity
Efthimios Zervas (Patra, Greece), Niki Matsouki, Emmanuel Konstandimidis, Chara Tsipa

New Product at Point of Sales : Menthol ball
Elif Dagli (Istanbul, Turkey), Ummuhan Pece, Murat Guner, Fusun Yildiz, Osman Elbek, Pinar Ay, Tanzer Gezer, Murat Ceyhan

The effects of the pandemic on smoking behaviors of smokers in a border region where easy access to low price tobacco products available
Dilek Karadoğan (Rize, Turkey), Tahsin Gökhan Telatar

E-cigarettes in Ireland – prevalence, motivations, and relationship with tobacco
Luke J. Clancy (Dublin 8, Ireland), Joan Hanafin, Salome Sunday

Physicians self-reported barriers on smoking cessation brief intervention: a cross-sectional study in Portugal
Sofia Belo Ravara (Covilhã, Portugal), Susana Amorim, Hilson Cunha-Filho, Pedro Aguiar

Point of sales: Playground of the tobacco industry
Elif Dagli (Istanbul, Turkey), Ummuhan Pece Sonmez, Murat Guner, Osman Elbek, Fusun Yildiz, Pinar Ay, Tanzer Gezer, Murat Ceyhan
Late Breaking Abstract - An estimate of the global COPD prevalence in 2050: Disparities by income and gender
Elroy Boers (Vaudreuil-Dorion, Canada), Meredith Barrett, Vy Vuong, Adam Benjafeld, Jason Su, Leanne Kaye, Daniela Tellez, Carlos Nunez, Atul Malhotra

Late Breaking Abstract - E-cigarette use and lung function: preliminary results from the VapeScan Study
Elizabeth Oelsner (New York, United States), Enoch Jiang, Nicole Vieira Pires, Diane Hawkins, Dona Sangapalaarachchi, Vesna Ilijevski, Nancy Loiacono, Ana Navas Acien

Late Breaking Abstract - Quantitative CT emphysema subtypes and pulmonary blood volume on dual-energy CT: The MESA Lung Study

TP-2 Session 13:00 - 14:00

Thematic poster: Clinical problems in pleural and respiratory muscle disorders

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

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

Chairs: Anne Orholin Nielsen (Roskilde, Denmark), Shailesh Balasaheb Kolekar (Herlev, Denmark)

Pacemaker insertion and pneumotorax: experience from a UK district general hospital
Avinash Aujayeb (Newcastle, United Kingdom), Karl Jackson

An analysis of 'errors' in pleural medicine over 5 years from a UK district general hospital
Avinash Aujayeb (Newcastle, United Kingdom)

Day case thoracoscopy in a UK district general hospital
Karl Jackson (Newcastle Upon Tyne, United Kingdom), Avinash Aujayeb

Blood pleurodesis- A UK wide survey and call for collaboration
Avinash Aujayeb (Newcastle, United Kingdom)

Birt-Hogg-Dubé (BHD) syndrome in patients with spontaneous pneumothorax (SP). Preliminary result shows high prevalence of BHD in SP patients.

Pneumatocele as rare thoracic complication after recovering COVID-19 pneumonitis- a case series including literature review.
Katarzyna Zimna (Warszawa, Poland), Małgorzata Sobiecka, Katarzyna Lewandowska, Ewa Łyżwa, Dorota Wyrostkiewicz, Monika Szturmurowicz, Kazimierz Roszkowski-Śliź, Katarzyna Blasińska, Lilia Jakubowska, Witold Tomkowski

Observation of traumatic haemo-pneumothorax
Avinash Aujayeb (Newcastle, United Kingdom)

Clamping vs non-clamping strategies prior to removal of ICD for spontaneous pneumothorax.
Arshiya Mastan (Manchester, United Kingdom), Aqeem Azam, Patrick Bradley, Claire Baker, Ijaz Mohammed, Jennifer Nixon

Decellularised pleural membranes in pulmonary regenerative medicine
Trisha Vikranth (Stone, United Kingdom), Tina Dale, Nicholas Forsyth

Prevalence of pleural effusion in dengue: systematic review and meta-analysis
Molly D. Kaagaard (Copenhagen, Denmark), Luan Oliveira Matos, Marlton V. P. Evangelista, Alma Wegener, Karine O. Lima, Anna Engell Holm, Lasse S. Vestergaard, Suiane C. N. Do Valle, Rodrigo M. De Souza, Flavia Barreto Dos Santos, Tor Biering-Sorensen, Odilson M. Silvestre, Philip Brainin

Pulmonary infarct in post COVID-19 period, complicated with spontaneous pneumothorax – case report.
Ivan Novakov (Plovdiv, Bulgaria), Plamena Novakova

Pneumothorax following cardiac device insertion: experience at a tertiary centre in the United Kingdom
Shiva Bikmalla (Stoke-on-Trent (Staffordshire), United Kingdom), Nishita Padmanabhan, Muhammad Tariq, Mohammed Hussain, Adil Mohammed, Muhammad Shakoor, Hussain Ebrahim

Management of pneumothoraces cases in a district general hospital in London
Ranu Baral (London, United Kingdom), Kar Mun Ang, Sivananthesam Sasikumar
Trajectory of dyspnoea in patients with unilateral pleural effusion following thoracentesis.
Katrine Fjællegaard (Farum, Denmark), Jesper Koefod Petersen, Paul Frost Clementsen, Christian B. Laursen, Rahul Bhatnagar, Uffe Bodtger

Cardioprotective medication in Duchenne muscular dystrophy: a single-centre cohort study
Janneta Kisel (London, United Kingdom), Emily Ballard, Suh Eui-Sik, Nicholas Hart, Shelley Srivastava, Patrick Murphy, Philip Marino, Stam Kapetanakis, Joerg Steier

Predictors for outcome of intervention for spontaneous pneumothorax
Andreas Thelle (Bergen, Norway), Miriam Gjerdevik, Rune Nielsen, Per Bakke

Impact of drug addiction on the outcome of pneumothorax
Emma Benjemia (Tunis, Tunisia), Khouloud Chaabi, Yosr Ben Attig, Nourchene Khalfallah, Jihene Ben Amar, Med Sadok Boudaya, Zaibi Haifa, Hichem Aouina

Respiratory muscle dysfunction in patients with nemaline myopathy
Esme van Kleeft (Nijmegen, Netherlands), Jeroen Van Doorn, Michael Gaytant, Willemien De Weerdt, Bettine Vosse, Carina Wallgren-Pettersson, Baziel Van Engelen, Coen Ottenheijm, Nicol Voermans, Jonne Doorduin

Association between aberrant biochemical indicators levels and respiratory muscle dysfunction in patients with amyotrophic lateral sclerosis (ALS). Preliminary data.
Grazia Crescimanno (Palermo (PA), Italy), Manuela Bertini, Francesca Milone, Oreste Marrone

Optimizing invasive ventilation for SMA type 1 children who are receiving the gene therapy
Rania Abusamra (Dubai, United Arab Emirates), Omi Narayan, Mohammad Alajjuri, Vivek Mundada

TP-21 Session 13:00 - 14:00
Thematic poster: Vaccination
Disease(s): Airway diseases
Method(s): General respiratory patient care Public health Epidemiology Cell and molecular biology Respiratory intensive care Physiology Endoscopy and interventional pulmonology Imaging
Chairs: Eric Mortensen (Simsbury, United States), Laura Fregonese (London, United Kingdom)

COVID-19: Vaccinated versus unvaccinated or not fully vaccinated patients
Antonia Digalaki (Athens, Greece), Georgios Hillas, Sofia Koukidou, Aikaterini-Ioanna Sakellaropoulou, Chrysavg Kosti, Serafeim Chrysikos, Katerina Dimakou

Clinical characteristics and respiratory care of hospitalized patients according to vaccination status of COVID 19
Miguel Suarez Ortiz (madrid, Spain), Jose Rafael Teran Tinedo, Miguel Lorente Gonzalez, Daniel Laorden Escudero, Annette Zevallos Villegas, Eduardo Cano Sanz, Maria Angeles Ortega Fraile, Joaquin Hernandez Nuñez, Maria Elena Saiz Lou, Pedro Landete Rodriguez

Determinants of antibody responses to primary courses and booster doses of SARS-CoV-2 vaccines in 9,101 UK adults
Adrian R Martineau (London, United Kingdom), David A Jolliffe, Sian E Faustini, Hayley Holt, Mohammad Talaei, Giulia Vivaldi, Alex G Richter, Seif O Shaheen

Effectiveness of the pneumococcal polysaccharide and conjugated vaccines in elderly and high-risk populations in preventing invasive pneumococcal disease: A systematic search and review of the literature
Melina Sikjær (Egå, Denmark), Mari Stenvold Vik, Synne Smith Stensholt, Ole Hilberg, Anedrs Løkke

Vaccine efficacy in severe COVID-19 patients before and after the Delta variant endemic
Masamichi Mineshita (Kawasaki (Kanagawa), Japan), Kazuhiro Nishiyama, Satoshi Tanaka, Yusuke Shinozaki, Jun Ko Shibuya, Hajime Tsuruoka, Kouhei Kinoshita, Shin Matsuzawa, Shinya Azagami, Hiromi Muraoka, Atsuko Itoh, Kei Morikawa, Hirota Kida, Hiroshi Handa, Hiroki Nishine, Takeo Inoue

Immunogenicity and clinical effectiveness of the SINOVAC vaccine in patients older than 70 years
Angela Maria Giraldo Montoya (Pereira, Colombia), Giovanni Garcia Castro

Long-term efficacy of an inactivated whole particle H5N1 virus against H5N1 highly pathogenic avian influenza virus challenge in cynomolgus monkeys
Misako Nakayama (Otsu, Japan), Hirohito Ishigaki, Nguyen Thanh Cong, Saori Suzuki, Hidetoshi Ishida, Naoko Kitagawa, Kazumasa Ogawara, Yasushi Itoh

Evaluating pneumococcal vaccine’s effectiveness against pneumonia among adults over 50 years in Catalonia, 2017-2018.
Cinta de diego cabanes (tarragona, Spain), Angel Vila-Corcoles, Eva Satué-Gracia, Olga Ochon-Gondar, Angel Vila-Rovira, M José Forcadell-Peris
Messenger RNA COVID-19 vaccine: What side effects?
Nidhal Belloumi (la soukra, Tunisia), Wiem Ayed, Dorra Brahim, Wala Haouari, Najla Mechergui, Ghada Bahri, Nizar Ladhari, Imen Youssef

Experimental Human Pneumococcal Challenge can be performed safely and is associated with low rates of rescue antibiotic use in healthy adults
Ryan Robinson (Liverpool, United Kingdom), Chris Myerscough, Helen Hill, Wendi Shephard, Konstantinos Liatsikos, Samuel Latham, Fred Fyles, Klara Doherty, Fathimath Shiham, Daniella McLenghan, Angela Hyder-Wright, Elena Mitsu, Hassan Burhan, Ben Morton, Stephen Gordon, Andrea Collins, Daniela Ferreira

Reasons for reluctance to COVID-19 vaccination among health care workers
Nidhal Belloumi (la soukra, Tunisia), Siwar Chemingui, Najla Mechergui, Mariem Mersni, Dorra Brahim, Hend Belhouen, Nizar Ladhari, Imen Youssef

Efficacy of coronavirus disease 2019 vaccines on oxygen demand, intensive care unit administration and mortality: a single centre retrospective study
Havva Yeşildağlı (Nicosia, Cyprus), Birdal Cihangir, Belin Kamişoğlu

Attitudes of the health personnel of the Hassan II hospital in Agadir towards the 3rd dose of the vaccine anti-covid-19
Aboubekr Imzil (Agadir, Morocco), Houda Moubachir, Hind Serhane

Evaluation of lung immune response to the BNT162b2 COVID-19 vaccine
Dan Padawer (Jerusalem, Israel), Miri Stolovich-Rain, Maria Billan, Neville Berkman, Alexander Rouvinski

Clinical outcomes in vaccinated and unvaccinated patients with COVID-19: a population-based analysis
Ourania Papaioannou (Patras, Greece), Theodoros Karampitsakos, Panagiota Tsiri, Vasilina Sotiropoulou, Electra Koulousa, Panagiota Tasiopoulos, Charikleia Chourpliadi, Apostolos Matsioulas, Matthais Katsaras, Eirini Zakardis, Georgios Tsirikos, Eva Theochori, Eillis Malakounidou, Vasiliki Georgiopoulou, Dinosios Papalexatos, Fotios Sampsonas, Argyrios Tzouvelekis

Personalized predictions of adverse side effects to the COVID-19 vaccines
Nahal Mansouri (Lausanne, Switzerland), Elham Jamshidi, Amirhossein Asgari

Factors affecting vaccine acceptance and uptake among COPD patients.
Janos Tamas Varga (Budapest, Hungary), Monika Fekete, Zsofia Szarvas, Vince Fazekas-Pongor, Andrea Lehoczki

Breakthrough infections with SARS-CoV-2 B.1.617.2 variant B.1.617.2 and humoral response in vaccinated maintenance hemodialysis patients
Ori Wand (Kfar Sava, Israel), Naomi Nacasch, Sydney Benchetrit, Keren Cohen-Hagai

Assessment of Predictors for SARS-CoV-2 Antibodies Decline Rate in Health Care Workers after BNT162b2 Vaccination-Results from a Serological Survey
Amir Bar-Shai (Tel-Aviv, Israel), Nadav Zacks, Chezy Levi, Anna Breslasky, Shlomo Maayan, Evgeniya Tsiba, Shlomo Fytlovich, Ori Wand, Moshe Shaffer, Yaniv Sherer, Gili Givaty, Anat Tzurel Ferber, Michael Tal, Natalya Bilenko

The intensive care unit admissions and mortality rates of the Covid-19 patients whose chest imaging findings were progressed during hospitalization: Is there any difference between vaccinated or unvaccinated patients?
Emine Kamişoğlu (leikosa, Cyprus), Birdal Cihangir

TP-18 Session 13:00 - 14:00
Thematic poster: Updates on physical activity, exercise and nonconventional therapies

Disease(s): Interstitial lung diseases, Airway diseases
Method(s): Epidemiology, Public health, Pulmonary rehabilitation, General respiratory patient care

Measurement properties of walk tests in interstitial lung diseases
Ana Oliveira (Hamilton, Canada), Sanaa Alsobheen, Wade Michaelchuk, Alda Marques, Roger Goldstein, Dina Brooks

Reference values for six-minute walk distance, walk work and distance-saturation product in adults
Jennet Delbressine (Horn, Netherlands), Dennis Jensen, Anouk Vaes, Pei Li, Jean Bourbeau, Wan Tan, Bita Hajian, Alex Van ‘T Hul, Martijn Spruit

Impact of ActiGraph’s processing criteria on steps count in COPD
Joana Antão (Aveiro, Portugal), Sara Almeida, Patricia Rebelo, Alda Sofia Pires De Dias Marques
**Physical activity and its correlates in patients with Cystic Fibrosis: a systematic review**  
Manon Kinaupenne (Gentbrugge, Belgium), Marieke De Craemer, Heidi Schaballie, Kristof Vandekerckhove, Stephanie Van Biervliet, Heleen Demeyer

**Experienced physical activity in patients with COPD: identifying subgroups according to C-PPAC**  
Astrid Blondeel (Leuven, Belgium), Heleen Demeyer, Sofie Breuls, Marieke Wuyts, Fien Hermans, Nikolaas De Maeyer, Eric Derom, Win Janssens, Thierry Troosters

**Correlates of physical activity in patients with COPD: a multifactorial approach**  
Astrid Blondeel (Leuven, Belgium), Heleen Demeyer, Sofie Breuls, Marieke Wuyts, Fien Hermans, Nikolaas De Maeyer, Eric Derom, Win Janssens, Thierry Troosters

**Who are the COPD patients who have reduced exercise capacity during recovery from hospitalization for acute exacerbation of COPD (AECOPD)? A longitudinal observational study**  
Renata Mendes (Sao Carlos (SP), Brazil), Naiara Leonardi, Erika Zavaglia Kabbach, Alessandro Domingues Heubel, Nathany Souza Schaffauser, Débora Mayumi Kawakami, Viviane Castello-Simões, Valéria A. Pires Di Lorenzo, Audrey Borghi-Silva

**Investigation of the health status and quality of life in COPD according to the caregivers-a pilot study**  
Elvan Felekoglu (Izmir, Turkey), Melissa Kopruluoglu, Aslihan Delice, Hulya Sahin, Ilknur Naz

**4-meter gait speed test (4MGS) as a promising tool to predict and prescribe walking exercise intensity in individuals with COPD**  
Fabio Pitta, Gianna Waldrich Bisca, Andrea Akemi Morita, Felipe Vilaça Cavallari Machado, Antenor Rodrigues, Thais Sant’Anna, Karina Couto Furlanetto, Nidia Aparecida Hernandez

**Exercise-induced bronchoconstriction (EIB) in young athletes - a need for repeated testing?**  
Karim Ersson (Uppsala, Sweden), Henrik Johansson, Elisabet Mallmin, Leif Nordang, Andrei Malinovschi

**The PAY test: a new approach to assessing functional performance in children and adolescents with asthma**  
Fernanda C. Lanza (Belo Horizonte, Brazil), Jeniffer Santos, Jessyca Selman, Ariane Crispim, Karina Nascimento, Giovanna Souza, Danila Cano, Anne Holland, Simone Dal Corso

**EXERCISE CAPACITY AND ASTHMA: PROSPECTIVE COHORT STUDY IN CHILDREN AND ADOLESCENTS**  
Fernanda C. Lanza (Belo Horizonte, Brazil), Luana Silva, Mariana Remberg, Bruno Soares, Rebeca Scalco, Talita Rodrigues, Gustavo Wandalsen, Dirceu Solé, Simon Dal Corso

**Musculoskeletal (MSK) assessment in children and young people (CYP) with Primary Ciliary Dyskinesia (PCD)**  
Julie Simpson (Birmingham, United Kingdom), Prasad Nagakumar, Manjith Narayanan, Rajinder Kang, Priti Kenia

**The effects of elastic tape on dyspnea and health status in COPD: a randomized controlled trial**  
Caroline Maschio de Censo (São Paulo, Brazil), Eloise A. Dos Santos, Thiago Fernandes Pinto, Rafaela F. Xavier, Regina M. Carvalho-Pinto, Rafael Stelmach, Celso R. F. Carvalho

**Comparison of physical capacity between smokers and non-smokers: an observational study.**  
Christophe Thibon (Bruxelles, Belgium), Gilles Caty, Sophie Gohy, Frank Aboubakar, Grégory Reychler

**Muscle energy techniques for COPD patients: Effects on pulmonary function and activities of daily living**  
Kimberley Sevasta (Zejtun, Malta), Anabel Sciriha, Tonio Agius

**Effect of MET training on physical capacity in lung transplant patients**  
Serpil MIHÇIOĞLU (Gaziantep, Turkey), Mehtap Malkoç, Sevgi Özalevli, Emine Handan Tüzün, Ilker Yatar

**How do we identify dysfunctional breathing (DB) in children and young people (CYP)- a UK delphi consensus.**  
Ruth Stewart (Kirkcaldy, United Kingdom), Kenneth Maclode, Ann Memurray, Kirstin Unger

**The relationship of disease knowledge level with perceived knowledge and health status in COPD – a pilot study**  
Elvan Felekoglu (Izmir, Turkey), Melissa Kopruluoglu, Aslihan Delice, Hulya Sahin, Ilknur Naz

**Late Breaking Abstract - Preferences for pulmonary rehabilitation care: a discrete choice experiment among patients**  
Rebecca Farah (Bruxelles, Belgium), Wim Groot, Milena Pavlova

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**TP-17 Session**  
**13:00 - 14:00**

**Thematic poster: Risk stratification in lung transplant patients**

<table>
<thead>
<tr>
<th>Disease(s)</th>
<th>Method(s)</th>
<th>Physiology</th>
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<tbody>
<tr>
<td>Airway diseases</td>
<td>Transplantation</td>
<td>Surgery</td>
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<tr>
<td>Interstitial lung diseases</td>
<td>Imaging</td>
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<td>Respiratory critical care</td>
<td>Cell and molecular biology</td>
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<td>Pulmonary vascular diseases</td>
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**Late Breaking Abstract - Preferences for pulmonary rehabilitation care: a discrete choice experiment among patients**
Morbimortality of severe early abdominal complications in lung transplanted patients
Laura González Ramos (Santander, Spain), Joy Selene Osorio Chávez, Marta Cristeto Porras, Noelia Borja Vargas, Sandra Tello Mena, David Iturbe Fernández, José Manuel Cifrián Martínez, José Manuel Cifrián Martínez, Victor Manuel Mora Cuesta

Sarcopenia and skeletal muscle disfunction in lung transplant candidates
Mauricio Salinas (Colina, Chile), Christian Andrade, Silvana Valdés, Claudio Caniulaf, Ditzy Provoste, Rodrigo Adasme, Virginia Linacre

IMPACT OF NEUTROPENIA AND GRANULOCYTE COLONY-STIMULATING FACTOR TREATMENT IN LUNG TRANSPLANT RECIPIENTS
Raquel Sanabrias (Madrid, Spain), Rosalía Laporta, Myriam Aguilar, María Teresa Lázaro, Christian García, Silvia Aguado, Ana Royuela, María Piedad Ussetti

Cystic Lung Diseases and Lung Transplantation
Rosa Gutiérrez-Larraya Sánchez-Andrade (Madrid, Spain), Marta Erro Irribarren, Silvia Aguado Ibáñez, Rosalía Laporta Hernández, Myriam Aguilar Pérez, Christian García Fadul, Guillermo Padín Pico, María Piedad Ussetti Gil

Renal outcomes according to baseline kidney function after lung or combined heart-lung transplantation for pulmonary hypertension
Alexander D'Haenens (Leuven, Belgium), Louis Vanwalleghem, Rozen Quinn, Catharina Belge, Guido Claessen, Dirk Kuyzers, Greet De Vlieger, Tom Verhelen, Laurens Ceulemans, Dirk Van Raemdonck, Arne Neyrinck, Geert Verleden, Robin Vos, Marion Delcroix, Laurent Godinas

Right ventricle and lung ischemia-reperfusion injury: Large animal model mimicking hemodynamics during off-pump sequential single-lung transplantation
Michaela Orlitová (Leuven, Belgium), Piet Claus, Anna E Frick, Dieter Van Beersel, Bert Demeulemaere, Marouane Benthami Khibi, Jan Van Slambrouck, Bart M Vanaudenaerde, Geert M Verleden, Stijn Verleden, Walter Coudyzer, Robin Vos, Dirk E Van Raemdonck, Laurens J Ceulemans, Tom Verhelen, Arne P Neyrinck

Referral characteristics and outcome of listing for lung transplantation in interstitial lung diseases patients
Martina Sterclová (Praha, Czech Republic), Lucie Valmentova-Bartakova, Libor Fila, Jiri Pozniak, Monika Svorcova, Robert Lischke

Lung transplantation for interstitial lung disease: lessons from a UK single centre experience
Saskia Bos (Newcastle upon Tyne, United Kingdom), Swee W Leong, Zhe K Law, James L Lordan, Arun Nair, Andrew J Fisher, Gerard Meachery

A survey of referral rates for lung transplant assessment in patients with interstitial lung disease meeting pulmonary function criteria
Ofir Deri (Petach Tikva, Israel), David Ovadia, Michael Peled, Sumit Chatterji, Liran Levy

Telomere length measurement in the pre lung transplantation evaluation of patients with interstitial lung disease
Julie Morisset (Montréal (QC), Canada), Vincent Ferraro, Basil S Nasir, Anne-Sophie Lemay, Stéphane Doucet, Genevieve Huard, Charles D Potier, Pasquale Ferraro

Downregulation of NLRP3/CASP1 and IL1B expression in COPD patients after lung transplantation
Ivona Markelić (Zagreb, Croatia), Lada Rumora, Iva Hlapčić, Feđa Džubur, Sanja Popović Grle, Miroslav Samaržija, Andrea Vukić Dugac

Airway complications after lung transplantation: risk factors and clinical characteristics
Hyeon Hwa Kim (Seoul, Republic of Korea), Dong Kyu Oh, Kyung-Wook Jo, Sang-Bum Hong, Tae Sun Shim, Geun Dong Lee, Sehoon Choi, Dong Kwan Kim, Seung-II Park, Ho Cheol Kim

The impact of donor-recipient sex match in the lung function after lung transplant
Albert Cheng (Richmond Hill, Canada), Haruna Kitazawa, Natalia Belousova, Anastasiia Vasileva, Joyce K.Y. Wu, Clodagh Ryan, Chung-Wai Chow

Bronchoalveolar lavage lymphocytes as a marker of acute cellular rejection in lung transplant recipients
Rosa Gutiérrez-Larraya Sánchez-Andrade (Madrid, Spain), Silvia Aguado Ibáñez, Marta Erro Irribarren, Guillermo Padín Pico, Myriam Aguilar Pérez, Rosalía Laporta Hernández, Maria Piedad Ussetti Gil, Beatriz Jara Chinarro

Morphological changes during CLAD development after lung transplantation
Hanne Beeckmans (Leuven, Belgium), Vincent Geudens, Lynn Willems, Janne Kaes, Astrid Vermaut, Charlotte De Fays, Arne P Neyrinck, Geert M Verleden, Lieven Dupont, Laurens J Ceulemans, Dirk E Van Raemdonck, Robin Vos, Bart Vanaudenaerde
Influence of mycophenolate mofetil dosage and plasma levels on the occurrence of chronic lung allograft dysfunction in lung transplants.
carolin steinack (Zürich, Switzerland), Philipp Saurer, Fiorenza Gautschi, René Hage, Gernot Ortmanns, Macé M Schuurmans, Thomas Gaissl

Late Breaking Abstract - Donor smoking history does not affect the risk of lung cancer in lung transplantation patients
Eline A. van der Ploeg (Groningen, Netherlands), Erik A.M. Verschuuren, T. Jeroen N. Hiltermann, Johanna P. Van Gemert, Michiel Erasmus, Carolien Van De Wauwer, C Tji Gan

Late Breaking Abstract - Effective home monitoring using portable spirometer of the patient after lung transplantation – feasibility pilot study
Mikolaj Basza, Wojciech Bojanowicz, Fryderyk Zawadzki, Marek Ochman, Lukasz Koltofski, Piotr Przybylowski, Mateusz Soliński

TP-7 Session 13:00 - 14:00

Thematic poster: Contribution of host-microbe interactions to respiratory disease
Disease(s) : Airway diseases Respiratory critical care
Method(s) : Cell and molecular biology Physiology Epidemiology Public health Imaging
Chairs : Gwenda Vasse (Groningen, Netherlands), Colin Bingle (Sheffield (South Yorkshire), United Kingdom)

Protein Blend Suppress Inflammatory Response from Bronchial Epithelial Cells Induced by SARS-Cov-2
José Roberto Mateus da Silva (São José dos Campos, Brazil), Carlos R. Oliveira, Maysa A. R. Brandao-Rangel, Anamei Silva-Reis, Fabiana R. Da S. Olimpio, Lucas Dos S. Zamariloi, Rodolfo P. Vieira

Differentially expressed FOXO1NFE2L2 and NFKB1 mRNAs are associated with differentially regulated corona- and influenza viral receptor genes and Toll-like receptor pathway genes in human bronchial epithelial cells under hyperbaric oxygen exposure
Yu-Ming Li (TAIPEI, Taiwan), Cheng-Chin Wang, Yun Chang, Chieh-Min Chen, Yi-Hui Chen

Investigating neutrophil function during SARS-CoV2 infection in human airway epithelial cells from elderly and young individuals

RNA sequencing unravels unique host transcriptional responses to infection with SARS-CoV-2 in well differentiated primary human bronchial epithelial cells compared to other coronaviruses
Ying Wang (Leiden, Netherlands), Melissa Thaler, Clarisse Salgado-Benvido, Nathan Ly, Anouk A. Leij, Dennis K. Ninaber, Martijn J. Van Hemert, Pieter S. Hiemstra, Anne M. Van Der Does, Alen Faiz

Changes in the hematological cells ratios are associated with death in COVID-19 patients

Conditions affecting bronchial epithelial cells responses to poly (I:C)
Fatemeh Moheimani (Middlesbrough, United Kingdom), Nafeesa Shahdab, Chris Ward, Stephen Cummings

A model of epithelial and neutrophil responses to cystic fibrosis microbes
Daniel Laucirica (Nedlands, Australia), Craig Schofield, Samantha Mclean, Camilla Margaroli, Patricia Agudelo-Romero, Stephen Stick, Rabindra Tirouvanziam, Thomas Riley, Anthony Kicic, Luke Garratt

Method development for flow-cytometric analysis of primary human airway epithelia infected with non-typeable Haemophilus influenzae
Katie L Horton (Southampton, United Kingdom), Jennifer L Cane, Claire L Jackson, Raymond N Allan, Jane S Lucas, Timothy S C Hinks

Phosphoinositide 3-kinase and airway infections in severe asthmatics
Anurag Bhalla (Toronto (ON), Canada), Katherine Radford, Kayla Zhang, Zachary Brautigam, Chynna Huang, Melanie Kjarsgaard, Nicola Lavigne, Sarah Svenningsen, Guillaume Pare, Manali Mukherjee, Parameswaran Nair

Staphylococcal enterotoxin B has sustained effects on the respiratory immune milieu and significantly modulates allergic airway inflammation in a mouse model
Sabine Stegemann-Koniszewski (Magdeburg, Germany), Ilka Jorde, Christina Hildebrand, Irina Han, Eva Lücke, Jens Schreiber
In vitro approaches to identify an antiviral role for BPIFB1 in the airway epithelium
Abdulaziz Alkhoshaiban (Sheffield, United Kingdom), Miraj Kobad Chowdhury, Priyanka Anujan, Lynne Bingle, Colin Bingle

Increased degradation of heparan sulfate is implicated in COPD exacerbations of different etiology
Eleni Papakonstantinou (Basel, Switzerland), Maria-Elpida Christopoulou, Michael Tamm, Daiana Stolz

The gut microbiome in COPD: a case-control study
Anders Ørskov Rotevatn (Nesttun, Norway), Tomas Mikal Lind Eagan, Solveig Tangedal, Gunnar Reksten Husebo, Rune Nielsen

Circulating levels of hyaluronic acid synthase-2 (HAS-2) are associated with COPD exacerbations of different etiology
Eleni Papakonstantinou (Basel, Switzerland), Maria-Elpida Christopoulou, Michael Tamm, Daiana Stolz

Inflammatory signature of a murine model of chronic obstructive pulmonary disease (COPD) exacerbations
Elena Tantillo (Parma, Italy), Paola Caruso, David Colecchia, Gloria Pittelli, Silvia Pontis, Maurizio Civelli, Marcello Trevisani

Late Breaking Abstract - COVID 19 severity is associated with the presence of lung derived cfDNA in plasma
Ariel Rokach (Jerusalem, Israel), Roni Ben Ami, Eden Cohen, Eden Cohen, Lama Bogot, Danit Kochan, George Kalak, Amir Jarjou, Chen Chen Shuali, Hava Azulai, Hezi Barhoum, Moshe M Greenberg, David Velleman, Ramzi Kurdi, Eli Ben Chetrit, Ahmad Quteineh, Yuval Dor

Late Breaking Abstract - Novel fully primary human airway epithelium-alveolar macrophages in vitro co-cultures models to study host pathogen interactions
Samuel Constant (Plan-les-Ouates, Switzerland), Bernadett Boda, Carole Bertinetti, Ophélie Verbeke, Xiao-Yann Huang, Song Huang

Late Breaking Abstract - Single cell mRNA sequencing of nasal swabs indicate an impaired ciliated cell function in COVID-19 convalescents with persisting dyspnea
Saskia Trump (Berlin, Germany), Jennifer Loske, Maria Theresia Völker, Olivia Debnath, Sören Lukassen, Naveed Ishaque, Marey Messingschläger, Anke Seegebarth, Fridolin Steinbeis, Florian Kurth, Thomas Zoller, Martin Witzenrath, Irina Lehmann, Sven Laudi, Roland Eils

Late Breaking Abstract - Vaccination after recovery from COVID-19 affects nasal antibody levels
Felicity Liew (London, United Kingdom), Subha Talwar, Claudia Efstatthiou, Thushan De Silva, Susannah Dunachie, Antonia Ho, Sara Fontanella, Lance Turtle, Ryan S Thwaites, Peter J M Openshaw

Late Breaking Abstract - Increased susceptibility to Pseudomonas aeruginosa pneumonia in overventilated lungs is caused by airspace acidification
Matthias Felten (Berlin, Germany), Chiunjiang Tan, Sebastian Ferencik, Jingjing Li, Eleftheria Letsiu, Jasmin Lienau, Holger C Müller-Redetzky, Theresa C Firsching, Achim D Gruber, Gopinath Krishnamoorthy, Zhang Qi, Wolfgang Kübler, Martin Witzenrath

Thematic poster: Advances in rare interstitial lung diseases
Disease(s): Interstitial lung diseases
Method(s): General respiratory patient care Cell and molecular biology Respiratory intensive care Imaging Pulmonary function testing Endoscopy and interventional pneumology Physiology
Chairs: Ivette Buendia Roldán (México D.F, Mexico), Raphaël Borie (Paris, France)

Is YouTube a reliable source for patient information in lymphangioleiomyomatosis?
Finn Wilkens (Heidelberg, Germany), Claudia Ganter, Katharina Kriegsmann, Heinrike Wilkens, Nicolas Kahn, Gillian C. Goobie, Christopher J. Ryerson, Michael Creutzer

Respiratory lesions of IgG4-related disease classified by 2019 ACR/EULAR criteria: A retrospective study
Masamichi Komatsu (Matsumoto, Japan), Hiroshi Yamamoto, Shoko Matsu, Yasuhiro Terasaki, Akira Hebisa, Tae Iwasawa, Takeshi Johkoh, Tomohisa Baba, Atsushi Miyamoto, Tomohiro Handa, Keisuke Tomii, Yuko Waseda, Masashi Bando, Haruyuki Ishii, Yasunari Miyazaki, Akihiko Yoshizawa, Tamiko Takemur, Yoshinori Kawabata, Masayuki Hanaoka, Takashi Ogura

Lane-hamilton syndrome and CCF: a fatal association
Salman Ayyaz (Multan, Pakistan), Shakeel Ahmed Khan, Faisal Zaheer, Mudassar Rasool, Waqas Afzal
Antifibrotic therapy on progressive fibrotic lung disease non-IPF – a retrospective cohort
Marta Sousa De Sá Marques (Vila Nova de Gaia, Portugal), Sérgio Campainha, Carla Nogueira, Inês Marques, Sofia Neves

The role of BAL in a long Covid population.
Francesco Bini (Pavia (PV), Italy), Bruno Dino Bodini, Umberto Zanini, Angelo De Lauretis, Giuseppe Pepe, Stefano Zucchini, Paola Faverio

Right ventricle to arterial uncoupling is a mortality predictor in fibrotic interstitial lung diseases
Angelo Canora (Napoli (NA), Italy), Ciro Santoro, Agostino Buonauro, Gaetano Rea, Mario Enrico Canonico, Roberta Esposito, Alessandro Sanduzzi Zamparelli, Giovanni Esposito, Marialuisa Bocchino

Inflammatory profile of bronchoalveolar lavage in pulmonary Langerhans cell histiocytosis
Diego Castillo, Silvia Barril, Paloma Millán, Alfonso Luque, Paloma Acebo, Sonsoles Hortelano

Characteristics, similarities and differences comparing fibrotic alveolar to airway basal cells
Sabrina Blumer (Basel, Switzerland), Petra Khan, Julien Roux, Spasenija Savic, Lars Knudsen, Danny Jonigk, Mark Kuehnel, Michael Tam, Katrin Hostettler

Survival and mortality associated factors in progressive fibrosing interstitial disease
Haifa Zaibi (Tunis, Tunisia), Khouloud Chaibi, Emna Ben Jemia, Nourchene Khalfallah, Jihen Ben Amar, Hichem Aouina

Management of bronchiolitis obliterans in a group of Tunisian children
Amal Saidani (BIZERTE, Tunisia), Sabrine Louhaichi, Mariem Hamdi, Olfa Ben Moussa, Besma Hamdi, Ikbel Khalfallah, Jamel Ammar, Agnes Hamzaoui

Idiopathic Inflammatory Myopathy-associated Interstitial Lung Disease (IIM-ILD): does radiologic features matter?
Gioele Castelli (Padova, Italy), Elisabetta Cocconcelli, Elisabetta Zanatta, Chiara Giraudo, Nicol Bernardinello, Cristina Dartora, Luca Iaccarino, Paolo Spagnolo, Elisabetta Balestro

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**TP-1**

**Session** 13:00 - 14:00

**Thematic poster: Biomarkers in COVID-19**

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

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

**Chairs:** Manali Mukherjee (Hamilton (ON), Canada), Timothy Hinks (Oxford, United Kingdom)

**The platelet-to-lymphocyte ratio (PLR) versus Neutrophil-to-lymphocyte ratio (NLR) in prediction of Coronavirus disease-19 outcome**
Luci Suliman (Mansoura, Egypt), Mona Elwasefy, Nesrine Saad Farrag, Heba Wagh Wagh Abdellwahab

**Predictive role of some biomarkers in the course of COVID-19 infection**
Pavlina Nikolova Glogovska (Pleven, Bulgaria), Elena Borisova, Snezhanka Ivanovskova, Plamen Pavlov

**Evaluation of lipid profile in patients with COVID-19 infection**
Ali Abdelaziz (Minia, Egypt), rasha abdelfattah, Mohammad O. Abdel Aziz, Mahmoud M Higazi, Noha M Abdullhal, Hany Taha Asklayan

**The evaluation of Serum angiotensin converting enzyme 2 (ACE2) levels and its relationship with clinical outcome in patients with Coronavirus disease 2019 (COVID-19)**
Seyed mehdi Hashemi (Kerman, Islamic Republic of Iran), Mitra Samareh Fekri, Mahdi Hosseinib, Amir Baniasad, Anahita Behzadi, Sajjadah Movahedinia

**Nasal swab sampling for antigen test identifies COVID-19 well in all ages**
Maria Juusela (Espoo, Finland), Juha M Koskinen, Venla Aaltosen, Matilda Sipilä, Seppo Sarna, Janne O Koskinen, Erik Qvist

**Is it really so important to study humoral immunity to SARS-CoV-2?**
Yuliia Huba (Dnipropetrovsk, Ukraine), Olena V. Myronenko, Oxana V. Plekhanova, Hanna A. Garagulya

**Outcome prediction in hospitalized COVID-19 patients: what is the prognostic value of organ failure biomarkers?**
Kateryna Gashynova (Dnipro, Ukraine), Vladyslava Rudakova, Viktorya Rodionova, Elyzaveta Lysak
RELATIONSHIP BETWEEN KREBS VON DEN LUNGEN-6 (KL-6) LEVELS AND THE SEVERITY OF PATIENTS OF A POST-COVID MULTIDISCIPLINARY UNIT

Hematological and hepatic alterations as predictors of mortality in patients hospitalized by SARS-COV-2
Laura Cornejo-Cornejo (México City, Mexico), Alejandra Rios-Pereda, Arturo Orea-Tejeda, Dulce Gonzalez-Islas, Jorge Aguilar-Meza, Carlos Marquez-Cordero, Mariana Salvatierra-Escobar, Iris Lopez-Vazquez, Carlos Sanchez-Moreno, Juan Orozco-Gutierrez, Benigno Valderrabano-Salas, Robinson Robles-Hernandez, Rafael Hernandez-Zenteno, Angelia Jimenez-Valentin, Maria Salgado-Fernandez

Severe lymphocyte dysfunction and impaired cellular immune response as a consequence of COVID-19
Katarzyna Plewka-Barcik (Warsaw, Poland), Karolina Aleksandrowicz, Klaudia Porebska, Robert Zdanowski, Jacek Z. Kubik, Krzysztof Klos, Andrzej Chcialowski

Neutrophil-to-lymphocyte ratio (NLR) as a predictor of survival in COVID-19-associated pneumonia patients (pts)
Daria Koval (Dnipropetrovsk, Ukraine), Kseniia Bielosludtseva

COMPARISON OF CARDIAC BIOMAKERS PREDICTIVE ROLE IN COVID-19 PNEUMONIA
Olha Shchudro (Dnipro, Ukraine), Mariia Krykhtina, Kseniia Bielosludtseva, Lyudmila Konopkina

TIMING AND PREDICTORS OF DECANNULATION: COMPARISON BETWEEN COVID-19 AND NO-COVID-19 ARDS
Francesca Cemmi (Peschiera del Garda, Italy), Cinzia Lastoria, Roberta Marra, Federica Fioretto, Abramo Bazza, Manuela Bergonzi, Matteo Vigna, Chiara Mele, Annalisa Carlucci

Abnormal FeNO post COVID-19
Bavithra Vijayakumar (thame (Oxfordshire), United Kingdom), James Tonkin, Christopher M Orton, Leeh Faustino, Isaac Mwita, Jadwiga Wedziela, Pallav L Shah

Neutrophil-to-lymphocyte ratio (NLR) as a marker of COVID-19-associated pneumonia progression.
Daria Koval (Dnipropetrovsk, Ukraine), Kseniia Bielosludtseva

Is lymphopenia a predictive factor of outcomes in COVID-19 patients?
Leila Douik El Gharbi (Ariana, Tunisia), Tasnim Znegui, Imen Sahnoun, Ines Moussa, Sarra Ben Sassi, Chiraz Ksouri, Asma Allouch, Rafik Guerfallah

EXPLORING THE ROLE OF KREBS VON DEN LUNGEN-6 (KL-6) IN SEVERE TO CRITICAL COVID-19: A SINGLE INSTITUTION EXPERIENCE
Vito D'Agnano (S. Vito dei Normanni, Italy), Fabio Perrotta, Filippo Scialò, Francesco Saverio Cerqua, Luigi Aronne, Lidia Atripaldi, Carlo Iadevaia, Grazia Mazzeo, Adriano Costigliola, Andrea Bianco, Cecilia Calabrese

Correlation between vitamin D and anosmia in post acute Covid syndrome clinic
Aoife O'Connor (Rathfarnham, Ireland), Carol Buckley, Mark Griffin, Ahmad Basirat, Joshwa Olanuyi, Meabh Monaghan, Seamas Donnelly, Patrick Mitchell

CAT Score Correlates with Lung Function in Post Covid Pulmonary Disease
Saeed Akbar (Gillingham (Kent), United Kingdom), Yee-Ean Ong, Adrian Draper, James Kent Bramer, Raminder Aul

Thematic poster: New insights into asthma immunology: from mouse to man
Disease(s) : Airway diseases
Method(s) : Epidemiology Imaging Pulmonary function testing Cell and molecular biology General respiratory patient care Endoscopy and interventional pulmonology Respiratory intensive care Transplantation
Chairs : Ian M. Adcock (London, United Kingdom), Tania Maes (Ghent, Belgium)
Screening and verification of differentially expressed genes for airway remodeling in asthma
Ling QiLn (Changsha, China), Chi Liu, Mengping Wu, Ye Yao
Control of T cell-dependent steroid-resistant asthma model by several kinase inhibitors
Akio Mori (Sagamihara (Kanagawa prefecture), Japan), Satoshi Kouyama, Iyako Yamaguchi, Akemi Ohtomo-Abe, Keisuke Iwamoto, Koichi Yano, Norihiro Fujita, Maki Iwata, Kisako Nagayama, Kai Ryu, Yuto Nakamura, Yuto Hamada, Kentaro Watai, Yosuke Kamide, Kiyoshi Sekiya, Yuma Fukutomı, Takayuki Ohtomo, Osamu Kaminuma

Female sex hormones affect asthma severity by altering cellular metabolism in the airways
Olivia Carroll (Newcastle, Australia), Alexandra Brown, Jemma Mayall, Nazanin Zounemat-Kermani, Henry Gomez, Richard Kim, Chantal Donovan, Evan Williams, Bronwyn Berthon, James Pinkerton, Katie Wynne, Hayley Scott, Yi-Ke Guo, Philip Hansbro, Paul Foster, Sven-Erik Dahlen, Ian Adcock, Lisa Wood, Jay Horvat

Monensin inhibits mast cell-induced airway contractions in human and guinea pig asthma models
Jielu Liu (Solna, Sweden), Mu Nie, Caijuan Dong, Jesper Säfholm, Gunnar Pejler, Gunnar Nilsson, Mikael Adner

Modulation of sensitization and inflammation through S. aureus nasal carriage in allergic asthma patients and a mouse model
Sabine Stegemann-Koniszewski (Magdeburg, Germany), Sophia Görges, Azin Asari, Eva Lücke, Silva Holtfreter, Siouxsie Wiles, Jens Schreiber

The polybacterial mucosal vaccine MV130 impairs airway inflammation in a HDM-induced eosinophilic asthma model
Ana Carmen Sevilla Ortega (Madrid, Spain), Alba Angelina Querencias, Beatriz Marcos Ramiro, Mario Pérez Diego, Laura Conejero Hall, Jose Luis Subiza, Oscar Palomares Gracia

Relationship between interleukin-13 and transferrin receptor-1 responses in the pathogenesis of asthma
Amber Pillar (New Lambton Heights, Australia), Alexandra Brown, Jemma Mayall, Jessica Weaver, Ama-Tawiah Essilifie, Gabriela Hoefel, Md Khadem Ali, Richard Kim, Chantal Donovan, Henry Gomez, Kanth Swaroop Vanka, Hock Tay, Nazanin Kermani, Elizabeth Milward, Patrick Hansbro, Peter Wark, Jay Horvat

Transcriptomic analysis of cellular senescence signatures in severe asthma
Woo-Jung Song (Seoul, Republic of Korea), Nazanin Zounemat-Kermani, Yi-Ke Guo, Ian Adcock, Kian Fan Chung

Blood eosinophils activation type, besides count, associate with exacerbations in asthma
Laura Vitiello (Italy), Carmen Mazzuca, Panaiotis Finamore, Sonia Zotti, Silvia Travaglini, Raffaele Antonelli Incalzi, Simone Scarlata

Dupilumab treatment increases transitional B-cells (regulatory B-cells) in severe asthma
Marek Lommatzsch (Rostock, Germany), Marieke Dost, Neeraja Jaishankar, Martin Weise, Paul Stoll, Johann Christian Virchow, Kai Bratke

Alarmin release in the bronchial epithelium of allergic asthma patients vary in response to different aeroallergens
Sangeetha Ramu (Lund, Sweden), Christian Uggerhoej Woehlk, Juan-Jose Nieto-Fontarigo, Samuel Cerpes, Sara Vazquez Mera, Mandy Menzel, Hamid Akbharshahi, Celeste Porsbjerg, Lena Uller

Endotyping severe asthma with qPCR for five mast cell transcripts in induced sputum correlates with microscopy
Bo Tønnesen (Aarhus C, Denmark), Johannes M Schmid, Michael Fricker, Hans Jürgen Heinrich Hoffmann

The association between complement C3 and small airway impairment in asthma
Spela Kokelj (Göteborg, Sweden), Jörgen Östling, Karin Froimell, Kristina Nilsson Ekdahl, Bo Nilsson, Henric K. Olsson, Anna-Carin Olin

Influence of polymorphisms in vitamin D receptor gene on severity and exacerbations of asthma
Seciko Uehara (Shizuoka, Japan), Keita Hirai, Toshihiro Shirai, Hinako Otaki, Taisuke Akamatsu, Kunihiko Itoh

Airway inflammation before and after bronchial thermoplasty

Impaired cytokine production of circulating immune cells in severe asthma response to Influenza virus
Kaschin Jamal Jameel (Bochum, Germany), Sarah Yank, Cansel Kamaci, Daniel Weidinger, Eike Buelthoff, Simon Rohde, Faisal Yusuf, Juliane Kronsbein, Matthias Tenbusch, Juergen Knobloch

Effect of Ozone on Allergic Airway Inflammation
 Mehrdad Arjomandi (San Francisco, United States), Hofer Wong, Rachel Tenney, Nina Holland, John Balmes

Alarmin Expression in the Upper and Lower Airways of Asthmatics with Allergic Rhinitis
Christiane Whetstone (Hamilton, Canada), Maral Ranjbar, Nadia Alsaji, Dhuha Al-Sajee, Lesley Wiltshire, Jennifer Wattie, Paul O’Byrne, Ruth Cusack, Roma Sehmi, Gail Gauvreau
Increased IgA+ memory B cells are associated with small airway dysfunction in asthma patients
Ruth Grychtol (Hannover, Germany), Anika Habener, Svenja Gaedcke, David Deluca, Anna Maria Dittrich, Christine Happle, Mustafa Abdo, Henrik Watz, Frauke Pedersen, Inke Regina König, Dominik Thiele, Mathias Volkmann Kopp, Erika Von Mutius, Thomas Bahmer, Klaus F. Rabe, Almut Meyer-Bahlburg, Gesine Hansen

Comparison of upper and lower airway expression of SARS-COV-2 receptors in mild allergic asthmatics
Maral Ranjbar (Hamilton, Canada), Christiane Whetstone, Ruth Cusack, Dhuha Al-Sajee, Nadia Alsaji, Paul O’Byrne, Roma Sehmi, Gail Gauvreau

TP-16  
Session  13:00 - 14:00

Thematic poster: Predictors of lung function and respiratory morbidity in children

Disease(s) : Airway diseases, Sleep and breathing disorders
Method(s) : Epidemiology, Public health, General respiratory patient care, Imaging, Physiology, Pulmonary function testing
Chairs : Maribel Casas (Barcelona, Spain), Franca Rusconi (Pisa, Italy)

Systematic review and meta-analysis of FEV1 in preterm born children
Sarah Kotecha (Cardiff (South Glamorgan), United Kingdom), James Gibbons, Christopher W Course, Emily Evans, Shannon J Simpson, John Watkins, Sailesh Kotecha

Lung function and structure in preterm-born adolescents of the surfactant era
Yasmin Salem (Bern, Switzerland), C. Corin Willers, Anne-Christianne Kentgens, Julian Jakob, Enno Stranzer, Ben Brabandt, Alan Peters, Laura I. Loebelelenz, Grzegorz Bauman, Philipp Latzin, Sophie Yammine

Lung function trajectories and pulmonary functions in healthy young smokers
Stoilka Koleva Mandazhieva (Plovdiv, Bulgaria), Blagoi Marinov, Stefan Kostianev

Exposure to air pollution and lung development during childhood: the LUIS Study
Jakob Usemann (Basel, Switzerland), Rebecca Mozun, Claudia Kuehni, Kees De Hoogh, Florian Singer, Alexander Möller, Philipp Latzin

Investigating the impact of London’s Ultra Low Emission Zone (ULEZ) on children’s respiratory health: Lung function of participants in the CHILL Study

Impact of biomass fuel smoke on respiratory health of children under 15 years old in Madagascar
Nolwenn Jestin-Guyon (Bordeaux, France), El Hassane Ouualalaya, Michel Tiary Harison, Kiady Ravahatra, Rondro Nirina Raharimanana, Jocelyn Robert Rakotomizao, Joelson Lovaniaina Rakotoson, Njaka Andriamahlenina, Ange Andrianarisoa, Andrianarivo Ralison, Denis Charpin, Brigitte Rahoeлина, Jean De Dieu Marie Rakotomanga, Pierre L’Her, Jean-Marie Tsopp, Raelina Andriambololona, Chantal Raherison-Semjen

Ambient air pollution exposure during pregnancy is associated with low cord blood IL-17a in infants
Olga Gorlanova (Bättwil, Switzerland), Heide Oller, Andrea Marten, Loretta Müller, Jessica Laine-Carmelli, Fabienne Decruy, Yasmin Salem, Danielle Vienneau, Kees De Hoogh, Amanda Gisler, Jakob Usemann, Insa Korten, Sophie Yammine, Uri Nahum, Noemi Künstle, Sven Schulzke, Philipp Latzin, Oliver Fuchs, Martin Röösli, Bianca Schaub, Urs Frey

Short-term air pollutant exposure and infant lung function in a South African birth cohort
Nithiseelan Rajen Naidoo (Durban, South Africa), Sheena Muttoo, Prakash Jeena, Kareshma Asharam, Kees De Hoogh, Martin Roosli

Impact of exposure reduction recommendations on asthma symptom control during the high desert dust season in Cyprus: The MEDEA randomised trial in children with asthma
Panayiotis Kouis (Nicosia, Cyprus), Paraskevi Kinni, Antonis Michanikou, Panelopi Anagnostopoulou, Konstantinos Pitsios, Maria G. Kakkoura, Stefania I. Papatheodorou, Petros Koutrakis, Panayiotis K. Yiiallourou

Predictors of suboptimal asthma control and of asthma attacks differ: the Swiss Paediatric Airway Cohort (SPAC)
Cristina Ardura-Garcia (Bern, Switzerland), Maria Christina Mallet, Daria Olena Berger, Eva Sophie Lunde Pedersen, Karyn Hoyle, Anja Jochmann, Alena Kuhn, Alexander Moeller, Nicolas Regamey, Florian Singer, Claudia E Kuehni

External Validation of the Predicting Asthma Risk in Children (PARC) tool in a clinical cohort
Daria Berger (Bern, Switzerland), Eva S L Pedersen, Maria C Mallet, Carmen M De Jong, Jakob Useman, Nicolas Regamey, Ben D Spycher, Cristina Ardura-Garcia, Claudia E Kuehni
Night cough in children: phenotypic characterisation, healthcare utilisation, and management in a population-based study
Maria Christina Mallet (Bern, Switzerland), Rebeca Mozun, Cristina Ardura-Garcia, Maja Jurca, Philipp Latzin, Moeller Alexander, Kuehni Claudia E

The impact of passive smoking in infancy on respiratory morbidity during covid-19 pandemic: a birth-cohort study
Keren Armoni Domany (Tel-Aviv, Israel), Michael Schnapper, Nataley Rosenfeld, Ilan Dalal, Diana Tasher, Alma Kamar, Avigdor Mandelberg

Mortality in children and adolescents on Home Mechanical Ventilation: Systematic Literature Review and Meta-Analysis
Roberto Vera Uribe (Santiago, Chile), Luis Vasconcello, Jordi Vilaró, Rebeca Paiva, Rodrigo Torres-Castro

What is the clinical status of patients on discharge from bronchopulmonary dysplasia clinic?
Sinead Carton (Derby, United Kingdom), Joshua Meadows, Jayesh Mahendra Bhatt

Recurrent Pneumonia in children: A Single Centre Experience in Malaysia.
Sze Chiang Lui (Kuala Lumpur, Malaysia), Charlotte Ying Shi Gan, Yi Cheau Chua, Nor Diyan Ismail, Jia Chyi Soh, Dakshnamoorthy Vythinathan, Then Moli Othayamoorthy, N.Fafwati Faridatul Akmar Mohammad, Hasliza A.Razak, Shangari Kunaseelan, Karuthan Chinna, Asiah Kassim

Late Breaking Abstract - Comparison of nasal microbiota between term and preterm infants at mean post-menstrual age of 45 weeks
Olga Gorlanova (Bättwil, Switzerland), Annika Nissen-Kratzert, Nadezda Mostacci, Noemi Künstle, Andrea Marten, Amanda Gisler, Katharina Bacher, Yasmin Salem, Jakob Uesmann, Insa Korten, Sophie Yammine, Uri Nahum, Sven Schulzke, Philipp Latzin, Oliver Fuchs, Markus Hilty, Urs Frey

Late Breaking Abstract - Cough phenotypes in children
Maria Christina Mallet (Bern, Switzerland), Eva S L Pedersen, Ronny Makhoul, Sylvain Blanchon, Karin Hoyler, Anja Jochmann, Philipp Latzin, Alexander Moeller, Nicolas Regamey, Oliver Sutter, Myrofora Goutaki, Ben D Spycher, Claudia E Kuehni

Late Breaking Abstract - Prevalence and patient characteristics of dysfunctional breathing in children and adolescents with asthma
Signe Vahlkvist (Kolding, Denmark), Louise Jürgensen, Tine Detlefsen Hell, Thomas Houmann Petersen, Poult-Erik Kofoed

Late Breaking Abstract - Application and External Validation of the Asthma Severity Scoring System (ASSESS) in children and adults
Ruth Grychtol (Hannover, Germany), Lennart Riemann, Svenja Gaedcke, Bin Liu, David Deluca, Reinhold Förster, Nicole Maison, Dominik Thiele, Nikolas Jakobs, Thomas Bahmer, Meike Meyer, Ernst Rietschel, Klaus F. Rabe, Matthias V. Kopp, Erika Von Mutius, Anna-Maria Dittrich, Hansen Gesine

Validating RespMech: an automated, free and open-source platform for respiratory mechanics analysis at rest and in exercise
Annie Liu (Richmond Hill, Canada), Yannick Molgat-Seon, Nathaniel Y. W. Yuen, Paolo B. Dominelli, Matthew D. James, Denis E. O'Donnell, Nicolle J. Domnik, Emil Schwarz Walsted

An app-based spirometer for home use can detect exercise-induced bronchoconstriction in athletes
Tonje Reier-Nilsen (Jar, Norway), Julie Stang, Hanne Flateby, Martine Isachsen, Björn Nordlund

Digital lung sound characteristics related to airflow turbulence intensity: a methodological proof-of-concept.
Eline Lauwers (Wilrijk, Belgium), Toon Stas, Hosein Sadafi, Rita Joao, Ian Mclane, Wendel Dierckx, Kim Van Hoorenbbeeck, Jan Steckel, Wilfried De Backer, Stijn Verhulst, Kris Ides

Pulmonary acinar biomechanics imaged with synchrotron phase contrast microtomography in live rats
Sam Bayat (Grenoble, France), Jose-Luis Cercos, Luca Fardin, Gaetano Perchiazzii, Alberto Bravin

Dependence of capnogram shape factors on age and anthropometric parameters in spontaneously breathing normal subject
József Tolnai (Szeged, Hungary), Ferenc Peták, Katalin Kapus, Gergely H. Fodor, Ferenc Rárosi, Zoltán Novák

Thematic poster: New techniques and improvements in lung function assessment
Disease(s): Pulmonary vascular diseases, Airway diseases, Sleep and breathing disorders, Interstitial lung diseases, Respiratory critical care
Method(s): Imaging, Physiology, Pulmonary function testing, General respiratory patient care, Public health, Respiratory intensive care, Pulmonary rehabilitation
Chairs: Raffaele Dellaca (Milano (MI), Italy), Camille Rolland-Debord (clermont-ferrand, France)

TP-4 13:00 - 14:00

Validating RespMech: an automated, free and open-source platform for respiratory mechanics analysis at rest and in exercise
Annie Liu (Richmond Hill, Canada), Yannick Molgat-Seon, Nathaniel Y. W. Yuen, Paolo B. Dominelli, Matthew D. James, Denis E. O'Donnell, Nicolle J. Domnik, Emil Schwarz Walsted

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Lung Ultrasound as a tool for monitoring the interstitial changes in recently hospitalised patients with COVID-19 pneumonia - the COVIDLUS study
Naomi Earl (Tunbridge Wells, United Kingdom), Austin Begbey, Miriam Davey, Emma Ince, Sarah Greenslade, Naveen Sharma, Nicklas Wakeham, Karina Cox, Tuck-Kay Loke

Comparison of current predicted spirometric values examined in a Bolivian population and proposal of local reference equations
Alfredo Ajata (Santa Cruz, Bolivia), Giuseppe Liistro

Pulmonary function test in obese patients
Yael González (Buenos Aires, Argentina), Alejandro Salvado, Belén Ginetti, Julieta Franzoy, Pablo Oyhamburu, Josefina Pasqua, Glenda Ernst, Fernando Di Tullio

Cardiorespiratory responses to head down tilt
ABDULAZIZ ALSHARIFI (london, United Kingdom), Akbar Irampaye, Niamh Carter, Joerg Steier, Gerrard Rafferty

Comparison of mainstream and sidestream capnography in spontaneously breathing adults
Ibolya Tóth (Hódmezővásárhely, Hungary), Ferenc Rárosi, József Tolnai, Almos Schranc, Zoltán Novák, Ferenc Peták, Gergely H. Fodor

Validity of a novel respiratory health meter for analysis of maximal respiratory pressures
Herkko Ryynänen (Helsinki, Finland), Ilpo Kuronen, Essi Ahokas, Maarit Valtonen, Johanna K. Ihalainen, Anssi Sovijärvi, Juhani Mutanen

Pulmonary Hypertension and measurement of exercise capacity remotely: the PERSPIRE study
Carol Keen (Sheffield (South Yorkshire), United Kingdom), Molly Hashmi-Greenwood, Karen Sage, David Kiely

Can Forced Expiratory Time be used as a surrogate tool in quantifying the lung hyperinflation in COPD?
Sana SELLAMI (sfax, Tunisia), Rim Kamoun, Patma Elleuch, Leila Triki, Rania Bouchech, Hela Zouari, Kaouthar Masmoudi

Physiologist- and SLT-led CPET-CLE: a one stop shop for complex breathlessness
Scott Hawkes (Woking (Surrey), United Kingdom), Joanne Clayton, Rob Peat, Thomas Simon FitzMaurice, Richard Steven, Rob Cooper

Spirometric lung function as a predictor of peak VO2 in adults with congenital heart disease
Scott Hawkes (Woking (Surrey), United Kingdom), Thomas Simon FitzMaurice, Yuen Liao, Angella Bryan, Reza Ashrafi

Late Breaking Abstract - Lung volumes differentiate the predominance of emphysema versus airway disease phenotype in early COPD
Mehrdad Arjomandi (San Francisco, United States), Siyang Zeng, Russell Bowler, Gang Luo, David Lynch

TP-10 Theme poster: Severe asthma: from phenotypes to exacerbations

Thematic poster: Severe asthma: from phenotypes to exacerbations

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

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

Chairs : Stylianos Loukides (Athens, Greece), Carolina Maria Gotera Rivera (Madrid, Spain)

Multi-ancestral meta-analysis yields novel genetic loci for asthma exacerbations

Respiratory system modeling of impedance on the effect of simulated obstructive apnea in participants with and without asthma
Xiaoshu Cao (North York, Canada), Nasim Montazeri Gahjaveerestan, Behrad Taghibeygol, Jason H. T. Bates, Azadeh Yadollahi
Respiratory muscle strength investigation in severe asthma patients with lung hyperinflation
Galyna Gumeniuk (Kyiv, Ukraine), Yuri Feshchenko, Svitlana Opimakh, Maryna Polianska, Viktoria Ignatieva, Svitlana Moskalenko, Inna Zvol

Perimenstrual worsening of asthma: prevalence and clinical outcomes in severe asthma population
Adel H Mansur (United Kingdom), Ali Bahron, Christopher Reilly, Lisa White, Julie Sullivan

Sputum eosinophilia is a useful biomarker for treatment failure of biologics for severe eosinophilic asthma
Torben Smidt-Hansen (Stavtrup, Denmark), Helle Haagensen Andersen, Lene Moelgaard Pedersen, Anne Sofie Bjerrum, Tina Skjold, Runa Poulsen, Søren Bagge Petersen, Hans Jürgen Hoffmann, Johannes Schmid

Optimizing adrenal insufficiency screening in severe asthma patients on biologic therapy
Irene Berrar Torre (London, United Kingdom), Kena Simpson, Veronica Greener, Breda Cushen, Pujan Patel

Discrepancies between anti-Intereukin5 (anti-IL5) starters from SHARP central registry and eligible patients in clinical trials

Identification of plasma fibrinogen-high asthma phenotype
Letizia Valsecchi (Torino, Italy), Andrea Sprio, Andrea Baroso, Martina Sciolla, Vitina Carriero, Francesca Bertolini, Antonino Di Stefano, Fabio Luigi Massimo Ricciardolo

REAL LIFE FOLLOW-UP OF PATIENTS WITH SEVERE EOSINOPHILIC ASTHMA TREATED WITH RESLIZUMAB.
Cristhian Correa (Madrid, Spain), Katiuska Herminia Liendo Martinez, Francisco Javier De Castro Martinez, Ji Zichen, Luis Puente Maestu, Julia Garcia De Pedro

Hand grip strength as a screening tool for frailty in elderly patients with moderate to severe asthma
Ricardo Figueredo (Feira De Santana (BA), Brazil), Gabriela P. Pinheiro, Vanessa Arata, Maia F. M. Leal, Cinthia V. N. Santana, Jean Carlos Z. Contreras, José De Bessa Junior, Alvaro A. Cruz

Body Mass Composition in asthmatics according to inflammatory phenotypes (SAMBA trial)
Stephanie Ziant (LIEGE, Belgium), Sebastien Louis, Sophie Graff, Catherine Moermans, Monique Henket, Rita Deroisy, Renaud Louis, Jean-Francois Kaux, Thierry Bury, Florence Schleich

Effects of biologics on systemic and airway inflammation in severe asthma: a real-life study
Francesco Ardesi (Milan, Italy), Dina Visca, Patrizia Pignatti, Martina Zappa, Rosella Centis, Federico Mattia Oliva, Flavia Rusconi, Ombretta Mentasti, Giovanni Battista Migliori, Antonio Spanevello

Cross-sectional validation of the German version of the Asthma Impairment and Risk Questionnaire (AIRQ)
Frank Kanniess (Reinfeld (Holstein), Germany), Marek Lommatzsch, Thomas Schultz, Hartmut Timmermann, Olaf Schmidt, Stefan Heindl, Kerstin Defosse, Hans-Joerg Baumann, Charles Lange, Dana Dirlam, Cesar Ignacio Fernandez-Lazaro, Anja Rudolph, Stephanie Korn

Predicting asthma attack risk in real life severe asthma patients on mepolizumab
Gaël Tavernier (Manchester (Greater Manchester), United Kingdom), Liam Whiday, Taqdees Qureshi, Stephen Fowler

Characterising the impact of sex on severe asthma (SA) in the UK Severe Asthma Registry (UKSAR)

Risk factors for asthma exacerbations during pregnancy: a systematic review and meta-analysis
Annelies Robijn (New Lambton Heights (NSW), Australia), Marleen Bokern, Megan Jensen, Daniel Barker, Katherine Baines, Vanessa Murphy

Severe asthma outcomes in patients self-administering biological therapy at home
Leanne Jo Holmes (manchester, United Kingdom), Lynn Elsey, Amelia Simpson, Gaël Tavernier, Stephen J Fowler

T2 and T3 cytokine expression in asthma with chronic rhinosinusitis
Vitina Carriero (Orbassano, Italy), Elisa Arrigo, Francesca Bertolini, Fabio Luigi Massimo Ricciardolo

Effects of menopause and fat mass in asthmatic inflammation in female asthmatics
Andriana Papaioannou (Vrilissia (Athens), Greece), Anastasia Papaporfyriou, Maria Kalieri, Eftychia Papachatzopoulou, Paschalinia Giouleka, Georgia Papadaki, Aris Spathis, Petros Bakakos, Spyros Papiris, Stelios Loukides
Clinical, functional, and biological characterization of neutrophilic asthma phenotype and endotypes. Elisa Arrigo (Orbassano, Italy), Camilla Demasi, Vitina Carriero, Francesca Bertolini, Gino Villetti, Daniela Miglietta, Fabio Luigi Massimo Ricciardolo

Thematic poster: COVID imaging and diagnosis

Chest CT scan features in COVID-19 pneumonia according to duration of symptoms
Donia Belkhir (Tunis, Tunisia), Hana Blbbeh, Houda Snene, Aymen Jebali, Syrine Daoud, Line Kaabi, Soumaya Debibch, Nadia Mehir, Saoussen Miladi, Ahmed Laatar, Nozha Ben Salah, Bechir Louzir

Lung ultrasound: an economic solution to estimate the severity of SARS-COV2 pneumonia
Yesmine Haddar (Sousse, Tunisia), Islam Mejri, Samira Mhamdi, Selsabil Daboussi, Chiraz Aichaouia, Zied Moetemri

Imagistic lung findings using Artificial Intelligence in SARS CoV2 hospitalized patients based on vaccine status
Stoichita Alexandru (Bucharest, Romania)

Home oxygen therapy: A suitable modality for critically ill COVID-19 patients after discharge
Fatma Essafi (Zaghouan, Tunisia), Malek Kharrat, Najila Ben Slimene, Imen Talik, Khaoula Ben Ismail, Moez Kaddour, Takoua Merhabene

Association with changes in pulmonary artery diameters and outcomes in COVID-19: Retrospective study
Aybuke Selcuk (Beylikdüzü, Turkey), Can Ilgın, Sait Karakurt

Radiological findings of severe SARS-CoV-2 pneumonia: 1-year follow-up.
Lidia Perendreu Busquets (Sabadell, Spain), Lidia Zamudio Domingo, Saioa Eizaguirre Anton, Marc Bonnin Vilaplana, Gladis Sabater Talaverano, Lidia Belen Lescano Ponce, Ramon Orrols Martinez

The ability of Lung High-Resolution Computed Tomography Severity Score to early identify COVID-19 patients who need respiratory support. A retrospective analysis of a monocentric Italian COVID-19 cohort.
emanuele Gilardi (rome, Italy), Francesco Travaglino, Silvia Mazzaroppi, Carlo Alberto Mallio, Solange Fugger, Flavia Cristofano, Tommaso Grandi, Domenico Margiotta, Silvia Navarin, Michela Orrù, Giada Zoccoli, Pasquale D’Alessio, Carlo Cosimo Quattrocchi, Federica Sambuco

COVID pneumonae: Clinical and radiological follow-up of a prospective cohort
Eva Ailín Vallejos (Ciudad Autónoma Buenos Aires, Argentina), Sabrina Resnik, Eva Ailín Vallejos, Florencia Santta, Laura Barria, Eugenia Perticone, Federico Felder, Mariano Sosa, Facundo Nogueira, Carlos Luna

Pre-COVID determinants of COVID-19 diagnosis by clinician and RT-PCR in a general adult population
Eman Quraishi (göteborg, Sweden), Chiamaka Jibuaku, Daniil Lisik, Hannu Kankaanrantta, Bright I Nwaru

Comparison of clinician diagnosis of COVID-19 against real-time polymerase chain reaction in a general adult population
Daniil Lisik (Gothenburg, Sweden), Chiamaka Jibuaku, Eman Quraishi, Hannu Kankaanrantta, Bright Nwaru

Does the accuracy of clinician diagnosis of COVID-19 compared to RT-PCR in adults depend on the number and severity of comorbidities?
Daniil Lisik (Gothenburg, Sweden), Chiamaka Jibuaku, Eman Quraishi, Hannu Kankaanrantta, Bright I Nwaru

Exhaled Breath Condensate (EBC) for SARS-CoV-2 diagnosis still an open debate.
Paola Pierucci (Bari, Italy), Maria Chironna, Daniela Loconsole, Mariagrazia Tummolo, Lavinia Palma, Giovanni Sanasi, Sara Pecinno, Giovanna Elissiana Carpagnano

Contribution of SARS-CoV-2 antigen rapid diagnostic tests for diagnosis of SARS-CoV-2 infection among health care professionals
Nidhal Belloumi (la soukra, Tunisia), Mariem Mersni, Wiem Ayed, Najla Mechergui, Dorra Brahim, Rania Nakhli, Emna Bechriha, Nizar Ladhari, Imen Youssef
Comparison of a point-of-care and a standard RT-PCR assay for COVID-19 detection in the emergency department.
Christos Kampolis (Nikea, Greece), Sabrina Gkogka, Panagiotis Varsos, Efthimia Pavlou, Ilka Babatseva-Vagena, Dimitrios Tsartsalis, Sotirios Adam, Apostolos Drolia, Georgios Charalambour

Detection of COVID-19 in hospitalised patients by exhaled breath analysis
Abraham van Poppel (Edegem, Belgium), Eline Janssens, Veronique Verplancke, Johanna Kwakkel-Van Erp, Lore Vandermeersch, Gynaika De Coster, Preben Van Overmeiren, Jan P. Van Meerbeeck, Benedicte Y. De Winter, Kristof Demeestere, Christophe Walgraeve, Therese S. Lapperre, Kevin Lamote

Analysis of Volatile Organic Compounds in Exhaled Breath of COVID-19 Patients
Tiar Oktavian (SURABAYA, Indonesia), Iin Noor Chozin, Suryanti Dwi Pratiwi

Radiological sequelae in patients with ARDS due to SARS-CoV-2 pneumonia
Yolanda Galea Colón (Barcelona, Spain), Anna Mola Ausiró, Núria Angrill Sellés, Mireia Baiges Badia, Santiago Mora Acosta, Enric Barbeta Sanchez

Factors influencing the radiological evolution of COVID19 pneumonia
Hela Cherif (Tunis, Tunisia), Selim Kalboussi, Bochra Karaborni, Mariem Triki, Ferdaous Yangui, Med Ridha Charfi

Clinical and radiological outcomes in patients with COVID-19 organizing pneumonia
Sze Shyang Kho (Kuching (Sarawak), Malaysia), Noorul Afidza Muhammad, Mona Zaria Nasaruddin, Jamalul Azizi Abdul Rahaman

Thematic poster: Chronic cough: management and impact on quality of life

Disease(s) : Airway diseases, Interstitial lung diseases, Sleep and breathing disorders, Respiratory critical care
Method(s) : Epidemiology, Physiology, General respiratory patient care, Pulmonary rehabilitation, Cell and molecular biology, Public health, Imaging, Palliative care, Pulmonary function testing

Chairs : Alyn Hugh Morice (Cottingham, United Kingdom), Chair to be confirmed

Language and geographical location influences the incidence of chronic cough in the Canadian Longitudinal Study on Aging (CLSA)
Imran Satia (Hamilton, Canada), Alexandra Mayhew, Nazmul Sohel, Om Kurmi, Kieran Killian, Megan O’Connell, Paul O’Byrne, Parminder Raina

Productive vs non-productive chronic cough associated with worse lung health and higher morbidity and mortality in the general population
Eskild Morten Landt (Koege, Denmark), Yunus Çolak, Børge Nordestgaard, Peter Lange, Morten Dahl

Impact of mental health and personality traits on the incidence of chronic cough in the Canadian Longitudinal Study on Aging (CLSA)
Imran Satia (Hamilton, Canada), Alexandra Mayhew, Sohel Nazmul, Om Kurmi, Kieran Killian, Paul O'Byrne, Parminder Raina

Canadian health care professionals’ experiences diagnosing chronic cough – results from a healthcare survey
Elena Kum (Hamilton, Canada), Nermin Diab, Mustafa Wahab, Theodore Abraham, Sevag Sahakian, Paul Hernandez, Harold Kim, Maxime Cormier, Peter Lin, Anne Ellis, Louis-Philippe Boulet, Alan Kaplan, Stephen Field, Imran Satia

Canadian health care professionals’ familiarity with chronic cough, its impact on patients, and guideline recommendations of the diagnosis and treatment of chronic cough
Mustafa Wahab (Hamilton, Canada), Elena Kum, Nermin Diab, Theodore Abraham, Sevag Sahakian, Paul Hernandez, Harold Kim, Maxime Cormier, Peter Lin, Anne Ellis, Louis-Philippe Boulet, Alan Kaplan, Stephen Field, Imran Satia

Hypotonic Saline Effectively discriminates Refractory/Unexplained Chronic Cough from Healthy Volunteers
James Wingfield Digby (Manchester (Greater Manchester), United Kingdom), Jenny King, Rachel Dockry, Shilpi Sen, Shannon Galgani, Paul Marsden, Jacky Smith

Validation of cough monitoring by Albus Home RD, a contactless bedside device for nocturnal monitoring
William Do (Oxford, United Kingdom), Richard Russell, Christopher Wheeler, Hamza Javed, Cihan Dogan, George Cunningham, Vikaran Khanna, Maarten De Vos, Mona Bafadhel, Ian Pavord

Exhaled biomarkers in adults with non-productive cough
Össur Ingi Emilsson (Uppsala, Sweden), Spela Kokelj, Jörgen Östling, Anna-Carin Olin

An algorithm to identify patients with refractory chronic cough from administrative claims data: a feasibility study
Sascha van Boemmel-Wegmann (Berlin, Germany), Philippe Vieira Pires, Ron Herrera, Pareen Vora
Consensus goals and standards of specialist cough clinics: the NEuroCOUGH international Delphi study
Woo-Jung Song (Seoul, Republic of Korea), Charlotte Van De Kerkhove, Laurent Guilleminault, Jan Willem Van Den Berg, Giovanni Fontana, Surinder Birring, Eva Milkqvist, Alyon Morice, Lieveen Dupeyt, Lorcan McGearry

Characteristics of patients with potential refractory chronic cough identified using an algorithm designed for administrative claims databases: a descriptive study
Sascha van Boemmel-Wegmann (Berlin, Germany), Philippe Vieira Pires, Ron Herrera, Pareen Vora

Does hiatal hernia impact GER-related chronic cough?
Olga Truba (Warszawa, Poland), Joanna Zuchowska, Marta Dąbrowska, Elżbieta Magdalena Grabczak, Katarzyna Białek-Gosk, Aleksandra Rybka-Frańczek, Rafał Krenke

Effects of environmental exposure to iron powder in an elastase mouse model

Posturography using video game of individuals with COPD compared to healthy elderly
Rodrigo Luiz (Mogi das Cruzes, Brazil), Carolina Castellari, Daniela Ike, Adriana Sousa, Evelin Gomes, Dirceu Costa

Late Breaking Abstract - Use of novel tidal breathing monitoring device to detect methacholine challenge test responders
Inbal Shafran (Haifa, Israel), Andreas Zachariades, Nadav Bachar, Noy Danino, Gregory Shuster, Wieland Voigt

Late Breaking Abstract - Novel QCT textures are associated with sRAGE and IL-6 in SPIROMICS

Late Breaking Abstract - Frequent productive cough is consistently associated with higher risk of COPD exacerbations during follow-up in NOVELTY
Hana Müllerová (Cambridge, United Kingdom), Rod Hughes, Stefan Franzén, Laura Belton, Clement Erhard, Christina Keen, Christr Janson, Helen K Reddel, Benjamin Fenby

Late Breaking Abstract - Development of a daily predictive model for the exacerbation of chronic obstructive pulmonary disease
Yong Suk Jo (Seoul, Republic of Korea), Kyung Hoon Min, Seoung Ju Park, Hyoung Kyu Yoon, Won-Yeon Lee, Kwang Ha Yoo, Ki Suck Jung, Chin Kook Rhee

Late Breaking Abstract - Oral corticosteroid (OCS) risk predictor for Type II Diabetes in asthma
Brooklyn Stanley (One Shenton, Singapore), Andrew Menzies-Gow, Arnaud Bourdin, Giorgio Walter Canonica, Mark Gurnell, Helen Reddel, Liam G. Heaney, Victoria Carter, Jatin Chanapan, Trung N. Tran, Ekaterina Maslova, David Price

Late Breaking Abstract - Health status, activity score and dyspnoea grade in chronic bronchitis, COPD and healthy controls in China
Jie Song (China), Paul Jones, Rongchang Chen, Jingping Zheng, Yongchang Sun, Fuqiang Wen, Qianli Ma, Xuef Li, Liang Zhang, Weilun Ke, Shang Cao, Shuling Hu, Chris Compton, Nanshan Zhong

Thematic poster: Diagnosis, risk factors and management of asthma
Thematic poster: Diagnosis, risk factors and management of asthma

Airway diseases

Method(s) : Epidemiology Public health Pulmonary function testing

Chairs : Shyam Krishnan (Kolkata (West Bengal), India), Bin Cao (Beijing, China)

Treatment situation of patients with uncontrolled GINA 4 or 5 asthma in Germany
Dirk Skowasch (Bonn, Germany), Hartmut Timmermann, Katrin Milger, Johann Christian Viechow, Olaf Schmidt, Karl Christian Bergmann, Dirk Koschel, Claus Neurohr, Florian Scholz, Robert Lindner, Sebastian Heck

Severity of adult onset asthma – a matter of blood neutrophils and severe obesity?
Sofia Winsa Lindmark (Luleå, Sweden), Caroline Stridsman, Axel Sahlin, Linnea Hedman, Nikolai Stenfors, Tomi Myrberg, Anne Lindberg, Eva Rönmark, Helena Backman

Adverse events and asthma among adults in the UK Biobank
Yueh-Ying Han (Pittsburgh, United States), Erick Forno, Wei Chen, Juan Celedón
Accuracy of asthma diagnosis and factors associated with misdiagnosis in primary care setting
Isabella Annesi Maesano (Montpellier, France), Marzia Simoni, Claudio-Maria Sanguinetti, Stefano Nardini, Fernando De Benedetto

Time trends of asthma in children – true increase or increased diagnostics?
Linnea Hedman (Luleå, Sweden), Anna Winberg, Anders Bjerg, Helena Backman, Martin Andersson, Eva Rönmark

Influence of asthma on ARIA classification of allergic rhinitis in the French population-based cohort Constances
Marine Savouré (Paris, France), Jean Bousquet, Bénédicte Leynaert, Marcel Goldberg, Marie Zins, Bénédicte Jacquemin, Rachel Nadif

The prevalence of severe asthma, use of oral corticosteroid and management strategies in the Nordic countries: results from the pan-Nordic NORDSTAR cohort

Birth order, sibship size and wheezing phenotypes: a systematic review and meta-analysis
Daniil Lisik (Gothenburg, Sweden), Athina Ioannidou, Gregorio Paolo Milani, Sungkutu Nyassi, Saliha Selin Özuygur Ermis, Giulia Carla Immacolata Spolidoro, Hannu Kankaanranta, Emma Goksör, Göran Wennergren, Bright Ibeabughichi Nwaru

Persistent asthma-like symptoms in COVID-19 patients 3 and 12 months after severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) infection
Shokouh Makvandi-Nejad (ÅS, Norway), Hooman K Moghadam, Francisco Gomez Real, Randi Jacobsen Bertelsen, Juan Pablo López-Cervantes, Nina Langeland, Björn Blomberg, Rebecca Jane Cox, Cecilee Svanes

The prevalence and risk factors of asthma, allergic rhinitis, and chronic obstructive pulmonary disease in Azerbaijan
Çagla Khurshud Huseynova (ANKARA, Turkey), Güneş Sadiqova, Dilara Bakhshaliyeva, Khursud Hajiyeva, Elvin Mammadov, Lamiya Abbasli, Beyim Mahmudova, Kamran Mammadov, Niftali Zerbelyev, Abbas Bagirov, Kamala Baylarova, Ahmet Ugur Demir, Ali Fuat Kalyoncu

Clinical and paraclinical profile in asthmatic patients with COVID-19 at Hassan II hospital in AGADIR
Oussama HALLOUMI (AGADIR, Morocco), Houda Moubachir, Hind Serhane

Adherence to Mediterranean diet and asthma control: results from a cross-sectional study in Greece.
Maria Sfika (Athens, Greece), Myrto Blizou, Spiros Papiris, Maria-Iosifina Kasdagli, Petros Bakakos, Stelios Loukides, Pagona Lagiou, Androniki Naska

The economic cost of intermittent and persistent asthma in Italy.
Simone Accordini (Verona (VR), Italy), Luigi Martinelli, Lucia Calciano, Federica Albicini, Leonardo Antonicelli, Roberto Bono, Alessandro Fois, Erica Gini, Amelia Grosso, Nicola Murga, Pietro Pirina, Giulia Squillacioti, Elisabetta Zinelu, Angelo Corsico

Impact of lockdowns on paediatric asthma hospital presentations over three waves of COVID-19 pandemic
Nusrat Homaira (Sydney (NSW), Australia), Nan Hu, Louisa Owens, Mei Chan, Melinda Gray, Philip Britton, Hiren Selvadurai, Raghu Lingam, Adam Jaffe

Different prevalence trends in allergic sensitization, asthma and rhinitis among children from 1996 to 2017 in Northern Sweden
Eva Rönmark (Luleå, Sweden), Joakim Bunne, Anders Bjerg, Linnea Hedman

Diet quality, food intake and incident adult-onset asthma
Edith Visser (Leeuwarden, Netherlands), Kim De Jong, Janneke Pepels, Huib Kerstjens, Anneke Ten Brinke, Tim Van Zutphen

A replication of the adult-onset (AOA) and late-onset asthma (LOA) genome-wide association studies (GWAS) in the Finnish Environment and Asthma Study (FEAS) of AOA
Taina Lajunen (Oulu, Finland), Jouni Jaakkola, Maritta Jaakkola

Risk factors for allergic and non-allergic asthma in adults
Petri Tapani Räisänen (Luleå, Sweden), Helena Backman, Linnea Hedman, Ann Lindberg, Linda Ekerljung, Bright Nwaru, Eva Rönmark

An examination of measurement invariance of the Asthma Control Questionnaire among adults with severe asthma
Ron McDowell (Belfast, United Kingdom), Liam Heaney, Thomas Brown, Brendan Bunting, Hassan Burhan, Rekha Chaudhuri, Paddy Dennison, Shoaib Faruqi, Robin Gore, David Jackson, Andrew Menzies-Gow, Thomas Pantin, Mitesh Patel, Paul Pfeffer, Salman Siddiqui, John Busby
**Association between Diet Quality and Frequency based on Dietary Fats and Glycaemic Index Scores with the presentation of Asthma in Young Chinese Adults in Singapore and Malaysia.**

Jun Jie Lim (Singapore, Singapore), Praneeth Malipeddi, Ying Yi Eliza Lim, Jun Yan Ng, Wei Yi Teo, Ambrose Qi Yi Wong, Yi Ru Wong, Keng Foo Teh, Smyrna Moti Rawanan Shah, Yee-How Say, Kavita Reginald, Sri Anusha Matta, Yang Yie Sio, Fook Tim Chew

**Thematic poster: Suspicion and management of pulmonary embolism**

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

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

**Chairs:** Cécile Tromeur (Locmaria Plouzané, France), Chair to be confirmed

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<tr>
<th>Title</th>
<th>Authors</th>
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<tr>
<td>Adjusted D-dimer cutoff levels to rule out pulmonary embolism in patients hospitalized for COPD exacerbation: results from de SLICE trial</td>
<td>David Jiménez Castro (Madrid, Spain), Sara Gonzalez Castro, Carmen Rodriguez Calle, Luis Jara Palomares, Eva Tabernero Huguet, Andrés Tenes Mayen, Winnifer Briceño Franquiz, Jose Luis Lobo Beristain, Raquel Morillo Guerrero, Behnood Bikdeli</td>
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<tr>
<td>Cellular indices and outcome in patients with acute venous thromboembolism.</td>
<td>Amina Bekki (València (Comunidad Valenciana), Spain), Alberto García-Ortega, Raquel López-Reyes, Grace Oscullo, Thais Beauperthuy, Fakiha Siddiqi, Jawed Fareed, José Daniel Gómez-Olivas, Miguel Angel Martinez-Garcia, Manuel Monreal</td>
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<td>Differences in patients with pulmonary embolism according to in-hospital or home therapy: findings in the RIETE registry</td>
<td>Cristhian Correa (Madrid, Spain), Zichen Ji, Javier De Miguel Diez, Rodrigo Jiménez García, Ana López De Andrés, Pedro Parra, Andrei Braester, Andris Skride, Maria Del Carmen Diaz-Pedroche, Marina Lumbierres, Manuel Monreal</td>
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<td>CHRONIC THROMBOEMBOLIC DISEASE AFTER ACUTE PULMONARY EMBOLISM RELATED TO SARS-CoV-2</td>
<td>Oswaldo Antonio Caguana Vélez (Barcelona, Spain), Oswaldo Antonio Caguana Vélez, Karys Helena Khilzi Alvarez , Juan Jose Rodriguez-Sevilla, Diana Badenes Bonet, Judith Villar Garcia, Jose Gregorio Gonzalez Garcia, Anna Herranz Blasco, Mireia Admetillo Papiol, Anna Rodo Pin, Lluis Molina Ferragut, Flavio Zucchini, Eva Balcells Vilarnau, Diego A. Rodriguez Chiaradia</td>
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<td>Post-COVID-19 patients show vascular sequelae that last up to 6 months</td>
<td>Paula Poyatos (Girona, Spain), Neus Luque, Saioa Eizaguirre, Sònia Belda, Marc Bonnin, Mònica Sánchez, Miriam Peracaula, Ramon Orriols, Olga Tura- Ceide</td>
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<td>Prospective study of pulmonary embolism in patients with SARS CoV-2 pneumonia with high levels of D Dimer</td>
<td>Joaquín Martínez Menéndez (Oviedo, Spain), Alberto Alonso Fernández, Carla Suárez Castillo, Nuria Toldo Pons, Francisco De Borja García-Cosío Piqueras, Luisa Ramon Clar, Belén Núñez Sánchez, Sara Hermoso De Mendoza, Nestor Calvo Rado, Maria Antonieta Ballesteros Bizoso, Paula Argente Del Castillo Rodriguez, Daniel Morell Garcia, Aina Millán Pons, Francisco Berga Montaner, Sara Sánchez Asis, Beatriz Garcia García, Jaume Ausias Pons Linares, Luminita Marinela Preda Uungureanu, Maria Luisa Martin Pena, Juan Antonio Palmer Sancho, Jaume Saudeja Roig, Ernest Sala Llanas</td>
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<td>Persistent dyspnoea after acute pulmonary embolism is related to perfusion defects and lower long-term quality of life</td>
<td>Coen van Kan (Amsterdam, Netherlands), Heleen Alblas, Suzanne Van Het Westeinde, Jasper Emmering, Andre Niezen, Ibraih Al Butaihi, Anton Vonk Noordegraaf, Josien Van Es</td>
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<td>An optimized D-dimer cut-off value to predict pulmonary embolism in COVID-19 patients: a retrospective study</td>
<td>Sophie Engels (Eindhoven, Netherlands), Honka Van Veen, Matthijs Oudkerk, Job Van Der Palen, Marjolein Heuvelmans</td>
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<td>Barriers to outpatient management of pulmonary embolism</td>
<td>Thomas Knowlman (Brisbane, Australia), Robert Carroll</td>
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<td>Post-acute prevalence of occult pulmonary embolism after hospitalisation for Covid-19</td>
<td>Esther L. van Voorthuizen (Nijmegen, Netherlands), Jeannette B. Peters, Jenneke Leentjens, Michel M. Van Den Heuvel, Mathias Prokop, Bram Van Den Borst</td>
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<td>D-dimer levels on admission to predict Venous thrombotic events in patients with Covid-19</td>
<td>Imen ketata (Gabes, Tunisia), Sabrine Majdoub Fehri, Wafa Medi, Rahma Sellami, Hamida Kwass</td>
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<td>A retrospective study to evaluate CTPA outcomes in COVID-19 patients at a district hospital in London</td>
<td>Ayah Mekhaimar (London, United Kingdom), Lia Chauhan, Ayantika Dhara, Ali A Mohammed</td>
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Anticoagulants in COVID-19: Is there a role for a D-dimer-driven dosing?
Ömer Selim Unat (Izmir, Turkey), Ziya Karimov, Damla Serce Unat, Gizem Caglayan, Faiq Teymuru, Mehmet Sezai Tasbakan, Pervin Korkmaz Ekren, Ozen Kacamaz Basoglu, Mustafa Hikmet Özhân, Abdullah Sayiner

Investigation of the level of knowledge about Pulmonary Embolism in the general population
Ourania Kotsiou (Larissa, Greece), Konstantinos Tourlakopoulos, Maria Tziraki, Dimitrios Rapts, Stylianos Boutlas, Georgia Rapts, Ioanna V Papathanasiou, Dimitrios Papagiannis, Zoe Daniil, Konstantinos I Gourgoulis, Foteini Malli

TP-6 Session 13:00 - 14:00
Thematic poster: New insights and biomarkers in COPD

Disease(s) : Airway diseases

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

Chairs : Arnaud Mailleux (Paris, France), Anita Somborac Ba (Zagreb, Croatia)

DNA methylation signature and epigenetic age of severe COPD
Sandra Casas Recasens (Barcelona, Spain), Nuria Mendoza, Nuria Olvera, Tamara Garcia, Oriol Sibila, Alvar Agusti, Rosa Faner

Spatial transcriptomics (ST) of cigarette smoke (CS)-induced experimental COPD
Alen Faiz (Ultimo (NSW), Australia), Hao Chen, Izabela Galvao, Chantal Donovan, Richard Kim, David Ortega, Sobia Idrees, Jonas Schulle-Schrepping, Anna Schaar, Joachim Schultze, Philip Hansbro

Sensitive and specific measurement of alpha-1 antitrypsin elastase inhibitory activity
Alfred Weber (Vienna, Austria), Andrea Engelmaier

Unique differentially expressed genes in bronchial brushes in severe COPD
Jos van Nijnatten (Groningen, Netherlands), Alen Faiz, Wim Timens, Victor Guryev, Dirk-Jan Slebos, Karin Klooster, Jorine Hartman, Tessa Kole, David F. Choy, Michele Grimaldston, Carrie M. Rosenberger, Irene Heijink, Simon D. Pouwels, Huib Kerstjens, Corry-Anke Brandsma, Maarten Van Den Berge

Sensitive and selective measurement of neutrophil elastase based on a new assay principle
Alfred Weber (Vienna, Austria), Gabriela Prodinger, Andrea Engelmaier

Gene expression changes in the COPD respiratory epithelium reveals widespread processes of mitochondrial dysfunction.
Ashley Heinson (Southampton, United Kingdom), Kristoffer Ostridge, Lisa Oberg, Bastian R Angerman, Graham Belfield, Maria G Belvisi, Hannah Burke, Doriana Cellura, Damla Etal, Anna Freeman, Michael Huhn, Alex Mackay, Christopher Mcrae, Daniel Muthas, Adam Platt, Mirella Spalluto, Karl J Staples, Alastair Watson, Tom A Wilkinson

Hypomethylation of PRSS23 (cg23771366) is associated with COPD secondary to biomass exposure
Gloria Pérez Rubio (México, Mexico), Ramcés Falfán Valencia, Omar Bravo Gutiérrez, Alejandra Ramírez Venegas, Rafael Hernández-Zenteno

Genome-wide exome identifies differential profiles associated with COPD secondary to tobacco smoking and biomass-burning smoke.
Enrique Ambrocio-Ortiz (México, Mexico), Gloria Pérez-Rubio, Alejandra Ramírez-Venegas, Rafael De Jesús Hernández-Zenteno, Juan Carlos Fernández-López, María Elena Ramírez-Díaz, Filiberto Cruz-Vicente, María De Lourdes Martínez-Gómez, Julia Pérez-Ramos, Ramcés Falfán-Valencia

A lung tissue gene expression profile of severe early onset COPD
Niek Bekker (Reeuwijk, Netherlands), Jos Van Nijnatten, Peter Horvatovich, Justina Wolters, Victor Guryev, Wierd Kooistra, Marjan Reinders-Luinge, Roy Woldhuis, Wim Timens, Maarten Van Den Berge, Corry-Anke Brandsma

Blood neutrophil adhesion properties and plasma levels of acute-phase proteins in subjects with PiMM and PiZZ alpha1-antitrypsin
Urszula Lechowicz (Warsaw, Poland), Aneta Zdral, Adriana Roży, Sabina Janciauskiene, Joanna Chorostowska-Wynimko

Alpha-1 Antitrypsin Deficiency Laboratory Testing-External Quality Assessment Program AATD LABNet 2019-2021
Joanna Chorostowska-Wynimko (Warsaw, Poland), Irene Belmonte, Malika Balduyck, Tomás P. Carroll, Timm Greulich, Noel G. Mcelhaney, Marc Miravitlles, Francisco Rodriguez-Frias, Marie-Françoise Odou, Stefania Ottaviani, Adriana Rozy, Susana Seixas, Gerard Orlols Torras, Martina Veith, Farid Zerimech, Angelo G. Corsico, Ilaria Ferrarotti

Influence of smoking on bronchial epithelial cell composition by cellular deconvolution and IHC
Senani Rathnayake (Leppington, Australia), Benedikt Ditz, Jos Van Nijnatten, Corry-Anke Brandsma, Wim Timens, Pieter Hiemstra, Nick Ten Hacken, Brian Oliver, Huib Kerstjens, Maarten Van Den Berge, Alen Faiz
The effect of COVID-19 pandemics on the comprehensive laboratory diagnostic of alpha-1 antitrypsin deficiency in Europe - report from the AATD LABNet
Joanna Chorostowska-Wynimko (Warsaw, Poland), Malika Balduyck, Tomás P. Carroll, Timm Greulich, Noel G. McElvaney, Marc Miravillelis, Francisco Rodriguez-Frias, Marie-Françoise Odou, Stefania Ottaviani, David Parr, Adriana Rozy, Susana Seixas, Gerard Orruols Torras, Martina Veith, Farid Zerimech, Angelo G. Corsico, Ilaria Ilaria Ferrarotti

COPD: can genetic background inform about disease heterogeneity?
Rui Filipe Santos Marçalo (Aveiro, Portugal), Thaís Córdova, Vasco Neves, Sonya Neto, Miguel Pinheiro, Manuel A. S. Santos, Paula Simão, Aurora Mendes, Lília Andrade, Alda Marques, Gabriela R. Moura

Late Breaking Abstract - Epigenetic clock analysis shows accelerated ageing in severe early onset COPD
Maaike de Vries (Groningen, Netherlands), Marshellen E. Martinus, Niek J. Bekker, Wierd Kooistra, Rolf H.J. Vedder, Wim Timens, Maarten Van Den Berge, Corry-Anke Brandsma

Genetic effect of SNPs in TMTC2 and COPD secondary to tobacco smoking
Enrique Ambrocio-Ortiz (México, Mexico), Ramcés Falfán-Valencia, Gloria Pérez-Rubio, Alejandra Ramírez-Venegas, Rafael De Jesús Hernández-Zenteno, Julia Pérez Ramos

Genetic variants in SCGB1A1 affect sputum CC16 levels in wood smoke COPD and are associated with COPD susceptibility in smokers.
Armando Zazueta-Marquez (México, Mexico), Ramcés Falfán-Valencia, Gloria Pérez-Rubio, Rafael De Jesús Hernández-Zenteno, Alejandro Ortega-Martínez, Alejandra Ramírez-Venegas

One carbon metabolic pathway and smoking mediated altered global DNA methylation in Chronic Obstructive Pulmonary Disease: A vegetarian community-based study from rural India
Suniti Yadav (New Delhi, India), Vijay Hadda, Kallur Nava Saraswathy

Late Breaking Abstract - An in depth study of morphological small airway changes in explant lungs with end stage COPD.
Charlotte de Fays (Loverval, Belgium), Vincent Geudens, Hanne Beeckmans, Astrid Vertommen, Tim Bonte, Susyn Kelly, Sebastian Bjorklund, Maik Schröder, Vitaly Koehrerbitov, Vitaly Koehrerbitov, Stanislav Tatkov

Genetic variants in SCGB1A1 affect sputum CC16 levels in wood smoke COPD and are associated with COPD susceptibility in smokers.
Armando Zazueta-Marquez (Mexico, Mexico), Ramcés Falfán-Valencia, Gloria Pérez-Rubio, Rafael De Jesús Hernández-Zenteno, Alejandro Ortega-Martínez, Alejandra Ramírez-Venegas

Proportion of mediastinal lymph nodes that cross predefined borders on the IASLC map.
Øyvind Yksnøy (Ålesund, Norway), Dag Arne Liaug Hoff, Bjørn Henning Grønbereg, Sveinung Sørhaug

Mediastinal "deep freeze" - transcarinal lymph node cryobiopsy
Evgeni Gershman (Givataim, Israel), Alon Ikan, Barak Pertzov, Dror Rosengarten, Mordechai Kramer

Malignant pleural effusion (MPE) diagnosis with medical thoracoscopy (MT) compared with conventional approaches
Ioannis Karampinis (Athens, Greece), Georgia Hardavella, Antonios Katsipoulakis, Nikolaos Anastasiou
Correlation of PD-L1 expression on tumour cells between diagnostic biopsies and surgical specimens of lung cancer in real life with respect to biopsy techniques and neoadjuvant treatment
Daniela Gompelmann (Vienna, Austria), Katharina Sinn, Jonas Brugger, Dominik Bernitzky, Berta Mosleh, Helmut Prosch, Silvana Gelerf, Alissa Blessing, Andreas Tiefenbacher, Konrad Hoetzenecker, Marco Idzko, Mir Alireza Hoda

A comparison of the biopsy techniques for tissue subtyping and molecular profiling in non-small-cell lung cancer: is tissue an issue?
Parniya Arooj (Plymouth, United Kingdom), Irfan Zaki, Maged Fayed, Hem Rai, Katherine Syred, Rob Hadden, Lindsey Taylor, Timothy Howell, Thomas Nicholson, John Corcoran, Cyrus Daneshvar

Clarifying oligometastatic non-small cell lung cancer in patients with local ablative therapies for oligoprogression after tyrosine kinase inhibitors
Dong-gon Hyun (Seoul, Republic of Korea), Yoon Jung Jang, Wonjun Ji, Chang-Min Choi, Dae Ho Lee, Sang-We Kim, Shinkyo Yoon, Woo Sung Kim, Jae Cheol Lee

N2 institutional consensus on Non-Small Cell Lung Cancer (NSCLC)
Hind Eid (Beirut, Lebanon), Elias Karam, Ammar Chamaa, Bassem Habr, Fadi El Karak, Himpig-Raphael Kourie, Antoine El Kik, Fares Azouri, Viviane Smayra, Noel Aoun, Joseph Kattan, Georges Chahine, Marwan Ghosn, Jad Wakim, Hussein Nasserddine, Fadi Nasr, Georges Khayat, Joseph Nakad, Carine Harmouche, Georges Dabar, Georges Tabet, Zeina Aoun, Moussa Riachy

Detection of EGFR mutation status on pleural fluid samples in patients with lung adenocarcinoma
Alessio Navarra (Harlow, United Kingdom), Anthony Maddox, Andrew Barlow, Rahul Mogal

Impact of COVID-19 (C19) on EBUS-TBNA
Muhammad Bilal Khan Niazi (Smethwick, United Kingdom), See Ling Tan, Abhimanyu Lal

Trans thoracic CT guided fine needle biopsy of pulmonary lesions, predictive factors for complications and accuracy of diagnosis
Kristina Piotkovskaya, Eva Radeka, Sven Nyrén, Reza Karimi

Frailty in the chronic respiratory patient: association with mortality in obstructive, restrictive and mixed spirometric patterns.
Simone Scarlata (Roma (RM), Italy), Matteo Cesari, Christian Osadnik, Panaiotis Finamore, Raffaele Antonelli Incalzi, Claudio Pedone

Impact of Resistance Training by Electrostimulation on Energy Cost of Walking and Chronotropic Reserve
Khadija Ayed (Nabeul, Tunisia), Zayneb El Guebsy, Ibtissem Dekhil, Imededdine Ben Dhia, Touhami Khelifi

The effect of airflow from a hand-held fan on breathlessness recovery from submaximal exercise
Miriam Johnson (Hull (North Humberside), United Kingdom), Sarah O’Beirne, Andrew Brew, Christina Ramsenthaler, Peter Watson, Usamah Adia, Philip Rubini, Michael Fagan, Flavia Swan, Andrew Simpson

Is sleep impaired in post-COVID syndrome vs. healthy controls? Preliminary data.
Inga Jarosch (Schönau am Königssee, Germany), Tessa Schneeberger, Antje Stegemann, Daniela Leitl, Rainer Gloeckl, Virginia Swan, Christopher Schoen, Andreas Rembert Koczulla

Nocturnal hypoventilation and respiratory muscle/cough weakness in COVID-19 ICU survivors
Ana Filipa Gonçalves (Vila Nova da Gaia, Portugal), Rodrigo Correia, Rui Santos, João Carlos Winck

Persistent symptoms up to a year after non-hospitalised Covid-19 and lung function findings in persons with persistent dyspnea.
Marta Alina Kisiel (Uppsala, Sweden), Helena Janols, Tobias Nordquist, Jonas Bergquist, Simone Hagfeldt, Andrei Malinovschi, Magnus Svartengren

Spirometry outcomes in survivors of COVID-19 pneumonia
Muhammad Amin Ibrahim (Puncak Alam, Malaysia), Chee Shee Chai, Bushra Johari, Roqiah Fatmawati, Abdul Kadir, Abdul Razak Muttalif, Mohammed Fauzi Abdul Rani
Persistent symptoms and spirometric abnormalities after COVID-19: A prospective cohort study
Vijay Hadda (New Delhi (Delhi), India), Tejas Suri, Anant Mohan, Saurabh Mittal, Karan Madan, Surendra Nath, Garima Srivastava, Sunil Kumar, Syam Shaji, Randeep Guleria

Frequency and clinical impact of low muscle mass in patients with asthma referred for pulmonary rehabilitation
Roy Meys (Horn, Netherlands), Felipe Machado, Martijn Spruit, Anouk Stoffels, Hieronymus Van Hees, Bram Van Den Borst, Peter Klijn, Chris Burtin, Fabio Pitta, Frits Franssen

Effect of physical conditioning evaluated in the 6-minute walk in subjects recovered from COVID-19
Laura Cornejo-Cornejo (México City, Mexico), Mariana Salvatierra-Escobar, Samanta Hernandez-Lopez, Arturo Orea-Tejeda, Dulce Gonzalez-Islas, Susana Galicia-Amor, Esperanza Trejo-Mellado, Juan Garcia-Hernandez, Iris Lopez-Vasquez, Juan Marquez-Cordero, Jorge Aguilar-Meza, Alejandra Rios-Pereda

Transcutaneous PCO2 (TcPCO2) in COPD patients during incremental exercise test (IET)
Wendel Dierckx (Kontich, Belgium), Kris Ides, Yinka De Meyer, Eline Lauwers, Wilfried De Backer

Fatigue And Dyspnea In Young Adults Recovered From COVID-19
Özge Ertan (İstanbul, Turkey), Buket Barutçu Akinci, Eylul Pinar Kisa, Begüm Kara Kaya, Ahmet Koçyiğit, Hande Şahiner, Zeynep Hosbay

Feasibility of Peak Inspiratory Flow measurement in neuromuscular patients
Shane Hanon (Bruxelles, Belgium), Sylvia Verbanck, Dimitri Stylemans, Marc Meysman, Eef Vanderhelst

The role of NT-proBNP in patients discharged after COVID-19 pneumonia
Olha Shchudro (Dnipro, Ukraine), Tetyana Pertseva, Larysa Botvinikova, Kesiia Bielosludtseva

Effect of oral and mental task on Time Up and Go in COPD.
Olivier Van Hove (Bruxelles, Belgium), Sarah Noel, Romain Pichon, Rolando Espinoza, Ana Maria Cebolla, Véronique Feipel, Dimitri Leduc, Gael Deboeck, Bruno Bonnechère

The effect of COVID rehabilitation on fatigue and post-exertional symptom exacerbation.
Enya Daynes (Leicester, United Kingdom), Molly M Baldwin, Matthew Annals, David Coope, Nikki Y Gardiner, Sally J Singh

Assessment of nutritional status and body composition in relation to quality of life in COPD patients.
Janos Tamas Varga (Budapest, Hungary), Agnieszka Feher, Andrea Lehoczki

Benefits of rehabilitation on neuropsychological symptoms in patients acquiring COVID-19 in the workplace: a longitudinal study
Katrin Mueller (Chemnitz, Germany), Katharina Zwingmann, Anna-Lena Schultz, Eva Wilhelm, Rainer-Christian Weber, Ivo Berger, Michael Stegbauer

Impact of pulmonary rehabilitation on peak respiratory pressures and dyspnea of patients with pulmonary arterial hypertension
Lina Marcela Orozco Mejia (Cali, Colombia), Ricardo Mosquera, Eleonora Girón Ruiz, Julián Andrés Rivera Motta

TP-9 Session 13:00 - 14:00

Thematic poster: Asthma treatment: real-world studies and other diseases

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

Subcutaneous specific immunotherapy (SCIT) added to omalizumab in severe allergic asthma patients -efficacy and safety M.Christopoulou, J.Moisidis, L.Panteli and A.Christopoulos Asthma Clinics Private outpatient clinic Patras/Greece
Antonios Christopoulos (Patras, Greece), Mariaelpida Christopoulou, Lilia Panteli, Ioannis Moisidis, Ioannis Christopoulos

Improvement of health-related quality of life after 3 months of treatment with extrafine single-inhaler triple therapy in asthmatics: a real-world view from Germany
Christian Gessner (Leipzig, Germany), Berkta Akyildiz, Maurice-Dominique Martini, Torben Meyer-Duderstaedt, Rembert Koczuulla

Chairs : Nicolas Roche (Paris, France), Ellen Tufvesson (Lund, Sweden)
Effectiveness of initiating biologics in severe asthma patients with high steroid exposure

Complex therapy in patients with bronchial asthma on the background of gastroesophageal reflux disease (GERD)
Yevgeniya Dyttyatkovska (Dniepropetrovsk, Ukraine), Ieliena Koretskaia, Natalia Nedogibchenko, Anastasiiia Yevtushenko

Adolescence to early adulthood transition in French severe asthmatic children treated with omalizumab
Camille Taillé (Paris, France), Marc Humbert, Arnaud Bourdin, Ralph Niarr, Céline Thonneller, Audrey Lajoinie, Alexandre Rigaut, Mathieu Molimard, Antoine Deschidile

Specialist care among adults with asthma and frequent use of oral corticosteroids – a nationwide Danish register-study
Inge Raadal Skov (Odense, Denmark), Hanne Madsen, Jacob Harbo Andersen, Anton Pottegård, Jesper Rømhild Davidsen

Outcomes from treating rhinitis in patients with refractory breathlessness
Rachel Daly (Manchester, United Kingdom), Siobhan Ludlow, Thomas Pantin, Stephen Fowler

Real-life comparative study on the effectiveness of benralizumab, mepolizumab and omalizumab in severe allergic asthma associated with nasal polyps
Angelica Tiotiu (Nancy, France), Paula Mendez-Brea, Iulia Ioan, Rodrigo Romero-Fernandez, Jean Philippe Oster, Thiam-Tu Hoang, Pauline Roux, Diana Carolina Ochoa-Gutierrez, Philippe Bonniaud, Frederic De Blay, Francisco-Javier Gonzalez-Barcala

Prevalence of anxiety and depression in patients with severe Asthma who are receiving biologic therapy.
Jane Watson (Epsom, United Kingdom), Chloe Peach, Nicola Price, Jane Evans, Adrian Draper, Sachelle Ruickbie

Suppressive effect of corticosteroid treatment on urinary levels of androgens and cortisol in mild and severe asthma
Valentyna Yasinska (Ronneüge, Sweden), Cristina Gómez, Johan Kolmert, Anna James, Lars I. Andersson, Barbro Dahlén, Craig E. Wheelock, Sven-Erik Dahlén, Eva Wikström-Jonsson, (On Behalf Of The U-Biopred Study Group)

Economic impact of oral corticosteroid treatments in severe asthmatics: a simulation study in selected European countries
Arnaud Bourdin (Montpellier Cedex 5, France), Elisabeth Bél, Barbro Dahlén, Ratko Djukanovic, Enrico Heffler, Piotr Kuna, Renaud Louis, Celeste Porsbjerg, David Ramos-Barbon, Sabina Skrgat, Giacomo Matteo Bruno, Sergio Di Matteo, Chiara Martinotti, Giorgio Lorenzo Colombo, Thomas Paulsson, Barbara Mascalino

Assessing variation in severe asthma care in England: a national benchmarking study
James Rose (Reading, United Kingdom), Seema Gadhia, Marianna Lepetyukh, Ben Williams, Hitasha Rupani, Grainne D’Ancona

Using clusters of asthmatic patients to quantitatively estimate, prior to initiating treatment, the likelihood of 2-agonist response in asthma patients
Edgar Delgado-Eckert (Basel, Switzerland), Cindy Thamrin, Ian Town, D Robin Taylor, Urs Frey

Clinical Characteristics and Disease Burden of Severe Asthma According to Oral Corticosteroid Dependence: Real-World Assessment from the Korean Severe Asthma Registry (KoSAR)
Ji-Hyang Lee (Seoul, Republic of Korea), Hyou-Jung Kim, Chan Sun Park, So Young Park, So-Young Park, Hyun Lee, Sang-Heon Kim, You Sook Cho

Prevalence of asthma-COPD overlap in COPD and severe asthma cohorts
Hyonsoo Joo (Seoul, Republic of Korea), So-Young Park, So Young Park, Seo Young Park, Sang-Heon Kim, You Sook Cho, Kwang Ha Yoo, Ki Suck Jung, Chiu Kook Rhee

Adherence to inhalers and asthma control assessed by two validated self-reported questionnaires.
Silviya Novakova (Plovdiv, Bulgaria), Plamena Novakova

Impact of baseline characteristics on clinical remission achievement in severe asthma
Christian Domingo Ribas (Sabadell (Barcelona), Spain), Ian Pavord, David Bañas Conejero, Robert G. Price, Alison Pullan, John Oppenheimer, Liam G. Heaney, Hiroyuki Nagase, Emilio Pizzichini, Peter Howarth, Frances Gardiner

Innovation in drug development: applying human factors to understand asthmatic patients’ needs.
Marta Lombardini (Parma, Italy), Giulia Marenghi, Francesco Bianchi
Analysis of the tolerance and safety of inhaled antibiotics and hypertonic saline solution in patients with bronchial hyperreactivity
Andrea Carolina Perez Figuera (Madrid, Spain), Rosa Nieto Royo, Raquel Morillo Guerrero, Carlos Almonacid Sánchez, Aurora Solier López, Esther Barbero Herranz, Diego Durán Barata, Beatriz Pintado Cort, Diurbis Velasco Álvarez, Luis Máiz Carro

Comorbidities in severe and non-severe asthma: a nationwide population-based observational study
Hannu Kankaanranta (Seinäjoki, Finland), Arja Viinanen, Pinja Ilmarinen, Juha Mehtälä, Tero Ylisaauko-Oja, Juhana J Idänpää-Heikkilä, Lauri Lehtimäki

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

Chairs: Erol Gaillard (Leicester (Leicestershire), United Kingdom), Carmen Cornelia Maria de Jong (Bern, Switzerland)

Asthma diagnosis in children by real-time breath analysis
Alexander Möller (Zürich, Switzerland), Srdjan Micic#, Houssni Lamkaddam#, Yvette Baumann, Prince Tiwari, Peter Horvath, Andre Stephan Henry Prevot, Imad El Haddad

Pulmonary function characteristics in children with suspected asthma: implications for asthma diagnosis
Mireu Park (Seoul, Republic of Korea), Yun Young Roh, Ha Min Kim, Jae Hwa Jung, Soo Yeon Kim, Jong Deok Kim, Yong Ju Lee, Min Jung Kim, Yoon Hee Kim, Kyung Won Kim, Myung Hyun Sohn

Post-bronchodilator 1-FEV1/FEV3 as a measure of small airway dysfunction in childhood asthma
Hamin Kim (Seoul, Republic of Korea), Mireu Park, Yun Young Roh, Jae Hwa Jung, Jong Deok Kim, Yoon Hee Kim, Myung Hyun Sohn, Kyung Won Kim, Soo Yeon Kim

Normal reference values of Fractional Exhaled Nitric Oxide (FENO) in healthy Indian primary school children
Neha Mohan Rao (Birmingham, United Kingdom), Sanjay Bafna, Bhakti Sarangi, Prasad Nagakumar, Satish Rao

Ethnic differences in daily FeNO response after systemic steroids in children with severe asthma
Ioannis Makariou (London, United Kingdom), Andrew Bush, Sejal Saglani, Valentina Fainardi, Cara J Bossley, Louise Fleming

Forced Oscillation Technique (FOT) in school-aged healthy children
Afnan AlRaimi (Leicester, United Kingdom), Pooja Devani, Caroline Beardsmore, Erol Gaillard

Pre- and post-bronchodilator Forced Oscillation Technique in preschool children with acute wheeze in the emergency department.
Malak Alshlowi (Alkhobar, Saudi Arabia), Pooja Devani, Afnan Alraimi, Caroline Beardsmore, Erol Gaillard

Forced Oscillation Technique (FOT) and spirometry in school aged children with stable asthma
Afnan AlRaimi (Leicester, United Kingdom), Pooja Devani, Malak Alshlowi, Caroline Beardsmore, Erol Gaillard

Sensitivity and specificity of the Forced Oscillation Technique (FOT) in school aged children with stable asthma
Afnan AlRaimi (Leicester, United Kingdom), Pooja Devani, Malak Alshlowi, Caroline Beardsmore, Erol Gaillard

Peak inspiratory flow in children with exercise induced laryngeal obstruction
Ioannis Makariou (London, United Kingdom), Serena Rhamie, Andrew Bush, Sejal Saglani, Louise Fleming, Samantha Sonnappa

Paediatric breath VOC analysis using the ReCIVA breath sampler and batch effects
Erol Gaillard (Leicester (Leicestershire), United Kingdom), Kirandeep Bhavra, Mike Wilde, Matt Richardson, Rebecca Cordell, Paul Thomas, Bo Zhao, Luke Bryant, Christopher Brightling, Wadah Ibrahim, Dahlia Salman, Salman Siddiqui, Paul Monks

The role of cardiopulmonary exercise testing to evaluate exercise induced dyspnoea in asthmatic children
Elizabeth Scotney (Harpenden, United Kingdom), Ridma Jayarathna, Latika Gupta, Andrew Bush, Sejal Saglani, Louise Fleming, Samantha Sonnappa

Urinary eosinophil-derived neurotoxin in wheezing and asthmatic children
Jimmy Omony (Neuherberg, Germany), Clemens Thölken, Azam Salimi, Kristina Laubhahn, Markus Weckmann, Ruth Grychtol, Dominik Thiele, Matthias Volkmar Kopp, Gesine Hansen, Harald Renz, Erika Von Mutius, Bianca Schaub, Chrysanthi Skevaki
Small airways dysanapsis in overweight/obese asthmatic children
Maria Cristina Gimena Donth Leger (ciudad Autonoma de Buenos Aires, Argentina), (, ), Magdalena Voces, Anahí Kruger, Doris Sofia Primrose, Marcela Roque, Gabriela Andrade, Carlos Tomás Velasco Suarez, Tania Vanessa Florez Gonzalez, Juan Manuel Figueroa Turienzo

Serum Eosinophil-Derived Neurotoxin (EDN) is a Promising Biomarker for Recurrent Wheezing and Asthma in Preschool Children
Niclas Rydell (Uppsala, Sweden), Taiga Kobori, Mizuho Nagao, Robert Movérare, Helena Ekoff, Anders Sjölander, Magnus P Borres, Takao Fujisawa

Serum Eosinophil-Derived Neurotoxin is Associated with Symptom Severity During Acute Wheeze in Preschool Children
Niclas Rydell (Uppsala, Sweden), Taiga Kobori, Mizuho Nagao, Robert Movérare, Anders Sjölander, Helena Ekoff, Magnus P Borres, Takao Fujisawa

Handgrip strength in adolescence - sex differences, determinants, and associations with Asthma-related Traits
Laura Hesselberg (København N, Denmark), Julie Nyholm Kyyvsgaard, Jakob Stockholm, Klaus Bønnelykke, Hans Bisgaard, Bo Chawes

Feasibility of Airwave Oscillometry in Preschool Children with Acute Wheeze in the Emergency Department
Malak Alshlowi (Alkhobar, Saudi Arabia), Pooja Devani, Afnan Alraimi, Caroline Beardsmore, Erol Gaillard

Influence of age on skin sensitization in atopic children
Hela Cherif (Tunis, Tunisia), Nouha Guediri, Slim Kalboussi, Mariem Triki, Hend Khouani, Ferdaous Yangui, Med Rida Charfi

Late Breaking Abstract - Exhaled air metabolome analysis for childhood asthma fingerprints identification - th e preliminary study
Andrzej Swinarew (Chorzów, Poland), Grzegorz Brożek, Agnieszka Jarosińska, Jan E. Zejda, Jadwiga Gabor, Paweł Raif, Szymon Skoczyński, Jarosław Paluch

13:00-14:00
INDUSTRY LUNCHTIME SYMPOSIUM
See Page 1

Online skills lab: Paediatric lung function and sleep measurements
**Aims:** to describe the physiology, indications, technical aspects and criteria for quality acceptability of lung function and sleep measurements; to discuss the interpretation of different lung function tests and results and polysomnography fragments and results; to discuss the clinical implication of lung function and polysomnography results using clinical cases.

**Target audience:** Paediatrician

**Chairs:** Refika Hamutcu Ersu (Ottawa, Canada), Nicole Beydon (Paris, France)

13:00  **Introduction**

13:05  **Static lung volumes and spirometry measurements**
Christian Lex (Goettingen, Germany)

13:18  **Clinical case: spirometry and a bronchodilator**
Christian Lex (Goettingen, Germany)

13:25  **Multiple breath washout**
Paul Robinson (Sydney (NSW), Australia)

13:38  **Clinical case: multiple breath washout technique in children**
Paul Robinson (Sydney (NSW), Australia)

13:45  **Scoring sleep and respiratory events using polysomnography**
Stijn Verhulst (Antwerpen, Belgium)

13:58  **Clinical case: voting on polysomnography tracings**
Stijn Verhulst (Antwerpen, Belgium)

14:05  **Sleep studies**
Hui Leng Tan (London, United Kingdom)
Symposium: Cell death modalities regulating the onset and progression of chronic lung diseases
The therapeutic potential of modulating cellular fate

Aims: to explain the relevance of different cell death modalities upon lung tissue damage in the development of various chronic lung diseases, including chronic obstructive pulmonary disease (COPD), interstitial lung disease and COVID-19; to differentiate between different cell death modalities and the underlying molecular mechanisms; to describe the immunological and pathological consequences of different cell death modalities; to explain the role of specific cell death modalities in the pathophysiology of chronic lung diseases; to provide insight into the therapeutic potential of cellular fate regulation in chronic lung diseases.

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

Method(s): Cell and molecular biology

Tag(s): Translational

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

Chairs: Silke Meiners (Sülfeld, Germany), Reinoud Gosens (Groningen, Netherlands)

14:15 Introduction to cell death modalities and their role in the progression of chronic lung diseases
Simon D. Pouwels (Zuidhorn, Netherlands)

14:30 The role of mechanical and cellular stress in lung injury and airway remodeling
Jin-Ah Park (Boston, United States)

14:45 Clinical importance of cell death modalities in COPD: from necroptosis to ferroptosis
Ken Bracke (Ghent, Belgium)

15:00 Regulation of necroptosis as novel therapeutic strategy for inflammation in lung diseases
Speaker to be confirmed

15:15 Discussion and Q&A

Symposium: What I learnt from COVID-19 to better manage my current patients
Onboarding of COVID-19 practices to improve non-COVID-19 care pathways and outcomes

Aims: to discuss lessons learnt from COVID-19 that can be implemented to improve respiratory care or access to care pathways beyond the COVID-19 pandemic.

Disease(s): Airway diseases, Paediatric respiratory diseases, Respiratory critical care

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

Tag(s): Clinical

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

Chairs: Anita Simonds (London, United Kingdom), Thierry Troosters (Leuven, Belgium)

14:15 Management of severe acute respiratory failure
Stefano Nava (Bologna (BO), Italy)

14:30 How will digital health change care of obstructive lung disease patients after the pandemic?
Niels H. Chavannes (Leiden, Netherlands)

14:45 Rehabilitation accessible to all
Anne Holland (Fitzroy North (VIC), Australia)

15:00 Care of children with chronic respiratory disease
Monika Gappa (Düsseldorf, Germany)
**Oral presentation: Biomarkers and beyond in lung cancer**

*Disease(s):* Sleep and breathing disorders, Thoracic oncology

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

**Chairs:** Rudolf M. Huber (Munich, Germany), Joanna Domaga-Kulawik (Warszawa, Poland)

- **Quantitative proteomics indicates radical removal of non-small cell lung cancer and predicts outcome**
  Embla Bodén (Lund, Sweden), Jesper Andreasson, Gabriel Hirdman, Oskar Hallgren, Franziska Olmi, Sandra Lindstedt

- **Prophylactic use of mini tracheostomy in patients with comorbidities undergoing lung resection**
  Ioannis Karampinis (Athens, Greece), Georgia Hardavella, Antonios Katsipoulakis, Nikolaos Anastasiou

- **Relationship between clinicopathologic characteristics and spread through air spaces in resected lung adenocarcinoma and squamous cell carcinoma cases**
  Tugba Nur Tezvergil (Ankara, Turkey), Ulku Yilmaz

- **Predictive Role of Granzyme B-containing CD8 T cells in Non-small cell lung cancer patients treated with Immunotherapy**
  Yun Seong Kim (Yangsan city (Kyeongsang Nam-do), Republic of Korea), Tae Hwa Kim, Doosoo Jeon, Seong Hoon Yoon, Jae Heun Chung, Hee Yun Seol

- **Subtype-specific transcription factors are clinically relevant and show distinct therapeutic vulnerabilities in human small cell lung cancer**

- **IGFBP3 inhibits tumour growth and invasion of H1299 lung cancer cells and leads to improved survival in patients with lung cancer**
  Armin Frille (Leipzig, Germany), Hartmut Kuhn, Marie Anna Petersen, Jonas Meyer, Lukas Hofmann, Albrecht Gläser, Sabine Taubenheim, Sebastian Krämer, Johannes Broschewitz, Maximilian Van Laffert, Hubert Wirtz

- **Extracellular vesicles derived from lung cancer cells exposed to intermittent hypoxia promote M2 macrophage polarization through miR-20a-5p/PTEN/Akt pathway**
  Yuanling Liu (GuangZhou, China), Gang Xu, Congrui Feng, Yuluo Chen, Huake Sun, Feng Liu, Wei Ma

**Discussion**

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**Oral presentation: What is hot in interstitial lung diseases**

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

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

**Chairs:** Wim A Wuyts (Leuven, Belgium), Fernanda Ines Hernandez Gonzalez (Barcelona, Spain)

- **Assessment of a relationship between prognostic biomarkers and treatment response in ISABELA1 & 2 IPF cohorts**
  Matthew Randall (Basel, Switzerland), Simon De Bernard, Inke Seegers, Nadia Verbruggen, Sharlene Lim, Bernt Van Den Blink, Claus Andersen, Philippe Pujuguet, Niyati Prasad, Paul Ford, Yasmina Bauer

- **Nocturnal hypoxaemia is associated with mortality in patients with fibrotic interstitial lung disease**
  Katherine Myall (London, United Kingdom), Jennifer Martinovic, Zhe Wu, Jodie Lam, Diana Roque, Victor Jardim, David J Jackson, Eui-Sik Suh, Toby Maher, Philip Molyneaux, Brian Kent, Alex West

**Outcomes of patients managed in specialised compared to non-specialised ILD centres**

Michael Kreuter (Heidelberg, Germany), Pavo Marijic, Larissa Schwarzkopf, Werner Maier, Franziska Trudzinski, Lars Schwetmann
Predicting treatment response in patients with interstitial lung disease using electronic nose technology
Iris G. van der Sar (Rotterdam, Netherlands), Catharina C. Moor, Brigitte P.M. Vellekoop, Marlies S. Wijsenbeek

Family history of ILD predicts pulmonary function decline in IPF patients
Tinne Goos (Leuven, Belgium), Marie Vermant, Laurens J. De Sadeleer, Nico De Crem, Ellen De Langhe, Adriana Dubbeldam, Erik K. Verbeken, Johny Verschakelen, Birgit Weynand, Jonas Yserbyt, Sascha Vermeer, Stijn E. Verleden, Wim A. Wuyts

Association of mUC5B rs35705950 minor allele with age and survival in European patients with Idiopathic Pulmonary Fibrosis

Nationwide prospective registry of idiopathic interstitial pneumonias with central multidisciplinary diagnosis in Japan (JIPS Registry): Analysis of disease progression

Late Breaking Abstract - An interim analysis of a phase 2 trial evaluating oral nalbuphine extended release for treating chronic cough in idiopathic pulmonary fibrosis
William Forbes (New Haven, United States), Toby M. Maher, Enoch Bortey, Thomas Sciascia

Late Breaking Abstract - Additive effect of BI 1015550 and nintedanib in patients with IPF
Luca Richeldi (Roma, Italy), Arata Azuma, Vincent Cottin, Christian Hesslinger, Susanne Stowasser, Claudia Valenzuela, Marlies Wijsenbeek, Daniel Wachtlin, Donald Zoz, Toby Maher

Late Breaking Abstract - Interim results from AIR, an open-label, single arm, 36-week ph 2 trial of C21 in subjects with idiopathic pulmonary fibrosis
Rohit Batta (Maidenhead, United Kingdom), Toby Maher, Cecilia Ganslandt, Göran Tornling, Thomas Bengtsson, Himanshu Pophale, Elin Rosendahl

Discussion

8M  Session  14:15 - 15:30

Oral presentation: Chronic airway diseases: from phenotypes to severity

Disease(s): Airway diseases, Respiratory critical care
Method(s): Cell and molecular biology, Epidemiology, Physiology, Endoscopy and interventional pulmonology, Imaging, Pulmonary rehabilitation, Pulmonary function testing, General respiratory patient care

Chairs: Petros Bakakos (Athens, Greece), Mona Bafadhel (London, United Kingdom)

The Upper and Lower Airway Microbiome in Severe Asthma
Maisha Jabeen (Oxford, United Kingdom), Nicholas Sanderson, Clair Barber, Laurie C K Lau, Ian D Padvor, Anoop Chauhan, Paul Klenerman, Teresa Street, Peter Howarth, Timothy C Hinks

Comparison of the influence of omalizumab and mepolizumab on airway remodeling in severe asthma patients with evaluation of detection techniques: endobronchial ultrasound (EBUS) and high-resolution computed tomography (HRCT)
Marek Przybyszowski (Kraków, Poland), Weronika Zastrzeżyńska, Agnieszka Gawlewicz-Mroczka, Iwona Gross-Sondej, Jacek Zarychta, Stanisława Bazan-Socha, Grażyna Bochenek, Jerzy Soja, Krzysztof Sladek

Radiomics for severe asthma phenotyping and endotyping
Paolo Montuschi (Roma (RM), Italy), Nazanin Zounemat Kermani, Giuseppe Macis, Per S Bakke, Massimo Caruso, Pascal Chanez, Ratko Djukanovic, Stephen J Fowler, Yi-Ke Guo, Idiko Horvath, Peter H Howarth, Anke I Maitland-Van Der Zee, Mario Malerba, Graham Roberts, Marek Sanak, Dominic Shaw, Susan J Wilson, Salman Siddiqui, Sven-Erik Dahlen, Kian Fan Chung, Ian M Adcock, On Behalf Of The U-Biopred Study Group

Risk factors for corticosteroid- and antibiotic only-treated asthma attacks in the NOVELTY cohort
Simon Coullard (Sherbrooke, Canada), Stefan Peterson, Thomas Bengtsson, Maarten Van Den Berge, David Price, Richard Beasley, Mohsen Sadatsafavi, Christer Janson, Alberto Papi, Laura Belton, Malin Fagerås, Hana Müllerová, Ian D Padvor

A primary ciliary dysfunction might be present in severe asthma
Céline Kempeneers (Liège, Belgium), Romane Bonhiver, Noemie Bricmont, Maud Pirotte, Françoise Guissard, Catherine Moermans, Marie-Christine Seghaye, Renaud Louis, Florence Schleich
Alterations of humoral immune response in the bronchi of rapid decliners with chronic obstructive pulmonary disease
Francesca Dossena (Gattinara, Italy), Antonino Di Stefano, Isabella Gnmemi, Vitina Carriero, Francesca Bertolini, Francesco Nucera, Silvestro Ennio D’Anna, Mauro Maniscalco, Paola Brun, Alessio Piraino, Antonio Spanevello, Bruno Balbi, Gaetano Caramori, Fabio Lm Ricciardolo

Influence of parental disease phenotypes and smoking on fractional exhaled nitric oxide values in offspring
Suneela Zaigham (Malmö, Sweden), Randi Jacobsen Bertelsen, Shyamali Dharmage, Vivi Schlünssen, Nils Oskar Jögi, Leopoldo Palacios-Gomez, Mathias Holm, Anna Oudin, Michael Abramson, Torben Sigsgaard, Rain Jögi, Cecilia Svanes, Anna-Carin Olin, Bertil Forsberg, Christer Janson, Elisabet Nerpin, Ane Johanssenn, Andrei Malinovschi

Neither baseline blood nor sputum eosinophils predict future exacerbations in the SPIROMICS cohort
Annette Hastie (Winston-Salem, United States), Pedro Miguel Quibrera, David Couper, Neil Alexis, Igor Barjaktarevic, Jeffrey Curtis, Eugene Bleecker

Stability of sputum eosinophil cell counts in COPD
Augusta Beech (Manchester, United Kingdom), Natalie Jackson, Dave Singh

Late Breaking Abstract - Clinical predictors and phenotypic associations of mucus plugging in moderate to severe asthma
Rory Chan (Glasgow, United Kingdom), Chary Duraikannu, Brian Lipworth

Discussion

8L Session 14:15 - 15:30

Oral presentation: Best of imaging research: highlights in 2022
Disease(s) : Airway diseases Interstitial lung diseases
Method(s) : Imaging Pulmonary function testing Physiology
Chairs : Helmut Prosch (Wien, Austria), Ádám Domonkos Tárnoki (Budapest, Hungary)

Machine Learning analysis of human pulmonary extracellular matrix architecture identifies disease-specific remodeling patterns
Thomas Kromann Lund (Copenhagen NV, Denmark), Monica Jane Emerson, Oliver Willacy, Chris Madsen, Raphael Reuten, Christian Beltflof Brochner, Anders Bjorholm Dahl, Thomas Hartvig Lindkaer Jensen, Janine Terra Erler, Alejandro Enrique Mayorca-Guiliani

Airway inter-tapering and tortuosity predict mortality in idiopathic pulmonary fibrosis
Ashkan Pakzad (London, United Kingdom), Wing Keung Cheung, Nersim Mogulkoc, Recep Savas, Daniel C. Alexander, Yipeng Hu, John R. Hurst, Joseph Jacob

Ultra-high-resolution photon-counting CT of the lungs: a comparative study
Valerie Van Ballaer (Leuven, Belgium), Adriana Dubbeldam, Lesley Cockmartin, Emanuele Muscogiuri, Johan Coolen, Walter Coudyzer, Walter De Wever

Deep learning model for the quantification of lung abnormalities in ILD patients
Akshayaa Vaidyanathan (Liege, Belgium), Flore Belmans, Francois Blistein, Ingrid Van Peufflik, Wim Vos, Sean Walsh, Mariaelena Occhipinti, Julien Guiot

Longitudinal lung function assessment of patients hospitalised with COVID-19 using 1H and 129Xe lung MRI
Laura Saunders (Hope Valley, United Kingdom), Guilhem Collier, Ho-Fung Chan, Paul Hughes, Laurie Smith, James Watson, Zoë Gabriel, James Meiring, Megan Plowright, Thomas Newman, James Eaden, Jody Bray, Helen Marshall, David Capener, Leanne Armstrong, Jennifer Rodgers, Martin Brook, Alberto Biancardi, Madhwsha Rao, Graham Norquay, Oliver Rodgers, Ryan Munro, Neil Stewart, Gisli Jenkins, James Grist, Fergus Gleeson, Fred Wilson, Anthony Cahn, Andy Swift, Smitha Rajaram, Gary Mills, Lisa Watson, Paul Collini, Rod Lawson, Roger Thompson, Jim Wild

Patient acceptability of dynamic chest radiography compared to pulmonary function testing
Fred Fyles (Liverpool, United Kingdom), Ryan Robinson, Fathimath Farah Shiham, Karl Hunter, Catherine Lowe, Hassa Burhan

Longitudinal chest-CT findings after moderate to critical COVID-19 pneumonia
Antine Flikweert (Breda, Netherlands), Arthur Du Mee, Ingrid De Backer, Simone van der Sar

Association of CT imaging and clinical definitions of chronic bronchitis in the COPD phenotyping study
Marisa Fat (Sacramento, United States), Seoncheol Park, Feridoun Abtin, Jonathan Phillips, John Belperio, Donald Tashkin, Christopher Cooper, Igor Barjaktarevic
Comparison of 19F-MRI, CT and spirometry in a patient with airways disease
Charlotte Holland (Newcastle upon Tyne (Tyne and Wear), United Kingdom), Mary Neal, Ben Pippard, Ian Forrest, Rod Lawson, Holly F. Fisher, John N.S. Matthews, Kieren G. Hollingsworth, A. John Simpson, Jim. M Wild, Pete E. Thelwall

Discussion

8C (live-streamed)  Session  14:15 - 15:45
Clinical cases: Lungs on fire: Pulmonary vascular diseases?

Aims: To facilitate the presentation of real-life clinical cases as part of an interactive session. Cases vary in difficulty and may require differential diagnosis. This session is led by two discussants who will present cases submitted by respiratory health professionals to a panel of experts and will drive the discussion in a step-by-step approach, encouraging dialogue and reflection among the panel who have no prior knowledge of these cases. As the cases are discussed, the discussants will invite the audience to participate in determining which diagnostic and therapeutic options would be best for these patients.

Disease(s): Pulmonary vascular diseases  Respiratory infections
Tag(s): Clinical

Target audience: Adult pulmonologist/clinician, Clinical researcher, General practitioner, Nurse, Physician in Pulmonary Training, Radiologist, Respiratory critical care physician, Medical student

Chairs: Mona Lichtblau (Zürich, Switzerland), Marc Humbert (Le Kremlin-Bicêtre, France), Laurent Bertoletti (Saint Etienne Cedex, France)

Discussants: Silvia Ulrich (Zurich, Switzerland), David Jiménez Castro (Madrid, Spain)

14:15  Case 1 incl. panel discussion and Q&A - Author: R. O’Loghlin (Ireland)
       Silvia Ulrich (Zurich, Switzerland)

14:37  Case 2 incl. panel discussion and Q&A - Author: L. Tregidgo (United Kingdom)
       David Jiménez Castro (Madrid, Spain)

14:59  Case 3 incl. panel discussion and Q&A - Author: N. Boyle (Ireland)
       Silvia Ulrich (Zurich, Switzerland)

15:21  Case 4 incl. panel discussion and Q&A - Author: S. Cullivan (Ireland)
       David Jiménez Castro (Madrid, Spain)

8A (live-streamed)  Session  14:15 - 15:45
State of the art session: Respiratory infections

Aims: To review the most relevant topics related to respiratory infection in 2021–2022.

Disease(s): Respiratory infections
Method(s): Cell and molecular biology  Public health  Pulmonary rehabilitation
Tag(s): Clinical

Target audience: Adult pulmonologist/clinician, Clinical researcher, General practitioner, Nurse, Respiratory Critical Care Physician, Paediatrician, Patient, Physician in Pulmonary Training, Physiologist, Respiratory Physiotherapist, Respiratory Therapist, Journalist

Chairs: Eva Polverino (Barcelona, Spain), Holly R. Keir (Dundee (Angus), United Kingdom), Giovanni Sotgiu (Sassari, Italy)

14:15  The lung microbiome and pneumonia: is dysbiosis the new pathway to investigate these infections?
       Leopoldo N. Segal (New York, New York, NY, United States)

14:45  The role of new diagnostics in managing mycobacterial infections
       Daniela Maria Cirillo (Milano (MI), Italy)

14:30  How new vaccine technology can modify the history of respiratory infections
       Tobias Welte (Hannover, Germany)

15:00  New drugs and regimens in tuberculosis
       Christoph Lange (Borstel, Germany)

15:15  Discussion and Q&A

8D  Session  14:30 - 16:50
Skills workshop: SW3 Exercise, muscle and sleep assessment and interpretation: tips and pitfalls
Tips and pitfalls in exercise, muscle and sleep assessment
Aims: To describe “typical” patterns of responses to exercise, muscle and sleep and to determine methods to distinguish these responses from “anomalous” response profiles that can cause misinterpretation of test results.

Disease(s): Sleep and breathing disorders

Method(s): Imaging  Physiology  Pulmonary function testing  Pulmonary rehabilitation  Respiratory intensive care

Tag(s): Clinical

Chairs: Pierantonio Laveneziana (Paris, France)

14:30 Introduction

14:30 Cardiopulmonary exercise testing: breathing patterns and dynamic hyperinflation
Pierantonio Laveneziana (Paris, France)

14:30 Respiratory and locomotor muscle testing in clinical practice
Daniel Langer (Leuven, Belgium)

14:30 From different pathophysiological traits revealed by polysomnography to treatment indications or combination of therapies
Manuel Sanchez De La Torre (Lleida, Spain)

14:30 Implementation, titration and follow-up of positive airway pressure in patients with obstructive sleep apnoea
Athanasia Pataka (Thessaloniki, Greece)

Studio Session 14:45 - 16:15

Language session: Spanish/Portuguese programme 2022
A joint ERS/ALAT/SBPT/SEPAR/SPP session

Aims: There has been a significant evolution in the screening, diagnosis, staging, and treatment and these issues were not be the object of presentations in the sessions of the last years.

Disease(s): Thoracic oncology

Tag(s): Clinical

Target audience: Adult pulmonologist/Clinician, Nurse, Respiratory critical care physician, Pathologist, Radiologist, Thoracic oncologist, Thoracic surgeon

Chairs: António Manuel Morais (Maia, Portugal), Carlos Robalo Cordeiro (Coimbra, Portugal), Maria Joana Pereira Catarata (Porto, Portugal), Sebastian Lamot (Neuquen, Argentina), Irmã De Godoy (BOTUCATU, Brazil), Juan Pablo de Torres Tajes (Kingston, Canada)

14:45 Lung Cancer Screening- time to move forward?
Luis Miguel Seijo Maceiras (Madrid, Spain)

15:00 Intervention Bronchoscopy in the diagnosis and staging of Lung Cancer
Lucia Carolina Viola Muñoz (Bogotá, Colombia)

15:15 Immunotherapy-based strategies
Gustavo Fabischew Prado (São Paulo (SP), Brazil)

15:30 Targeted therapy-based strategies
Maria Gabriela Oliveira Fernandes (Matosinhos, Portugal)

15:45 Discussion and Q&A

Oral presentation: New respiratory physiological tests and home assessment of sleep disturbed breathing in children

Disease(s): Sleep and breathing disorders  Airway diseases

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

Chairs: Nicole Beydon (Paris, France), Stijn Verhulst (Antwerpen, Belgium)

Sleep apnoea in school-age children living at high and low altitude
Mirjam Grimm (Samedan, Switzerland), Anina Seglias, Lucie Ziegler, Maamed Mademilov, Elvira Isaelova, Kubanych Tynybekov, Aigerim Tilebalieva, Nargiza Osmonbekova, Gulzada Mirzalieva, Kamila Magdileva, Aijan Taalaibekova, Simone Buenzli, Michael Furian, Talant Sooronbaev, Silvia Ulrich, Konrad E. Bloch
OSA -18 questionnaire in Down children with OSA compared to non-syndromic OSA children
Silke Anna Theresa Weber (Botucatu (SP), Brazil), Suzana Tanni, Karina Santos, Ana Julia Santos, Jefferson L De Barros, Antonio Carlos Marão, Catia Rb Fonseca

Home cardiorespiratory sleep studies in children and young people: experience of a UK Regional Service
Shweta Natarajan (Birmingham, United Kingdom), Andrea Bradbury, James Baird, Daniel Wilkinson, Andrew Prayle, David Thomas, Matthew Hurley

Evaluation of Paediatric Inpatient and Outpatient Transcutaneous Carbon Dioxide Monitoring (TOSCA) using leg versus ear lobe fixation.
Aditi Sinha (Manchester, United Kingdom), Philip Lawrence, Debbie Large, Christopher Grime, Ruth Trinick

Modified hypoxic challenge testing in children who need nocturnal ventilation: an observational study
Martin Samuels (London, United Kingdom), Mollie Riley, Stephanie Brotherston, Paula Kelly, Katharine Pike

THE IMPACT OF NEW SPIROWARE V3.3.1 SOFTWARE ON THE INTERPRETATION OF CROSS-SECTIONAL N2MBW DATA IN SICKLE CELL ANEMIA
Michele Arigliani (London, United Kingdom), Mollie Riley, Paul Aurora

Effects of a volatile compound filter on breath profiles measured by real time high resolution mass spectrometry
Leo Thanikkel (Aesch-Zh, Switzerland), Ronja Weber, Sophia Moeller, Jerome Kaeslin, Yvette Baumann, Nathan Perkins, Srdjan Micic, Alexander Möller

Novel capnographic inhomogeneity indices in preterm infants and infants with cystic fibrosis
Anne-Christianne Kentgens (Grindelwald, Switzerland), Sotirios Fouzas, Marion Curdy, Yasmin Salem, Marc-Alexander Oestreich, Sophie Yammine, Philipp Latzin

Discussion

8N Session 15:45 - 17:00
Oral presentation: COVID-19 acute respiratory distress syndrome

Disease(s) : Respiratory critical care, Airway diseases, Interstitial lung diseases
Method(s) : Physiology, Respiratory intensive care, Imaging, Public health, General respiratory patient care, Epidemiology, Pulmonary function testing, Transplantation

Usefulness of day-one chest X-ray score for predicting mortality and ICU admission in COVID-19 patients
THI TRIEU NGHI HOANG (HOCHIMINH-CITY, VIETNAM, Vietnam), Hai Dang Tran, Duc Tuan Tran, Manh Cuong Dang, Tra-My Ton-Nu, Le Hong Minh Trinh, Huy Hanh Nhi Le, Nga My Le Thi, Trinh Tran Cong, Dong Nhat Nam Dong, Anh-Tuan Dinh-Xuan

Predictive value of ultrasonic diaphragm thickening score combined with P0.1 in patients with mechanical ventilation
Tao Yang (Changchun (Jilin), China), Wenwen Han

Synchronous diaphragm neurostimulation reduced mechanical work required to ventilate pigs with ARDS
Elizabeth Rohrs (Surrey, Canada), Thiago Bassi, Karl Fernandez, Jessica Wittmann, Michelle Nicholas, Marlena Ornowska, Matt Gani, Steven Reynolds

Diaphragm neurostimulation attenuates hippocampal pro-inflammatory microglia percentage in an ARDS porcine model
Thiago Bassi (Barnaby, Canada), Elizabeth Rohrs, Karl Fernandez, Michelle Nicholas, Marlena Ornowska, Matt Gani, Doug Evans, Steven Reynolds

Improved atelectasis and lung homogeneity with diaphragm neurostimulation during mechanical ventilation in pigs with ARDS
Elizabeth Rohrs (Surrey, Canada), Thiago Bassi, Karl Fernandez, Jessica Wittmann, Michelle Nicholas, Marlena Ornowska, Matt Gani, Steven Reynolds

Estimation of transdiaphragmatic pressure using the airway occlusion in critically ill patients
Heder de Vries (Amsterdam, Netherlands), Pieter Tuinman, Annemijon Jonkman, Angelique De Man, Harm-Jan De Grooth, Leo Heunks

When should lung transplant be considered for severe COVID-19 associated ARDS?
One year overview of follow-up in a post-covid consultation of critical patients with covid-19
Jessica Gonzalez Gutierrez (Lleida, Spain), Maria Zuil, Iván D. Benítez, Maria Aguilà, Sally Santisteve, Fatty Seck, Anna Moncusi-Moix, Clara Gort-Paniello, Antoni Torres, Ferran Barbé

Late Breaking Abstract - The efficacy and safety of intravenous imatinib in invasively ventilated patients with COVID-19 related acute respiratory distress syndrome (InventCOVID): a multicentre, randomised, double-blinded, placebo-controlled, phase II clinical study.
Leila Atmowihardjo (Amsterdam, Netherlands), Job Schippers, Erik Duijvelaar, Imke Bartelink, Pierre Bet, Nienieke Van Reijn, Keith Purdy, David Cavalla, Alexia Flamarion, Andrew Mcelroy, Sarah Fritchley, Matty Koopmans, Harm Jan Bogaard, Leo Heunks, Nicole Juffermans, Marcus Schultz, Pieter Roel Tuinman, Henrik Endeman, Patricia Van Velzen, Lieuwe Bos, Jurjan Aman

Discussion

Session 15:45 - 17:00
Oral presentation: Hot topics in connective tissue disease-associated interstitial lung disease
Disease(s): Interstitial lung diseases
Method(s): General respiratory patient care  Epidemiology  Pulmonary function testing  Cell and molecular biology  Imaging
Chairs: Bruno Crestani (Paris, France), Katerina Antoniou (Heraklion, Greece)

Progression of systemic sclerosis-associated ILD (SSc-ILD) and effect of nintedanib in subgroups by monocyte and neutrophil counts
Michael Kreuter (Heidelberg, Germany), Christopher P Denton, Lawrence A Ho, Rachel K Hoyles, Ian Glaspole, Takafulmi Suda, Corinna Miede, Margarida Alves, Toby M Maher

Cohort enrichment strategies for progressive interstitial lung disease in systemic sclerosis from EUSTAR
Anna Maria Hoffmann-Vold (Oslo, Norway), Cathrine Brunborg, Paolo Airò, Lidia P Ananyeva, László Czirják, Serena Guiducci, Eric Hachulla, Mengtao Li, Carina Mihai, Gabriela Riemeckasten, Petros P Sfikakis, Gabriele Valentini, Otylia Kowal-Bielecka, Yannick Alainore, Oliver Distler

Plasma-derived exosomal miRNAs as non-invasive biomarkers for lung involvement in systemic sclerosis
Makon-Sébastien Njock (Liège, Belgium), Monique Henket, Pierre Jacquere, Catherine Moermans, Dominique De Seny, Michel Malaise, Renaud Louis, Julien Guiot

Extensive autoantibody panel in Systemic sclerosis associated Interstitial Lung Disease
Carmel Stock (London, United Kingdom), Benjamin Seeliger, Paolo Cameli, Maria Kokosi, Vasilis Kouranos, Peter George, Philip Molyneaux, Felix Chua, Voon Ong, David Abraham, Christopher Denton, Gisli Jenkins, Athol Wells, Jacqueline Donovan, Elena Bargagli, Antje Prasse, Torsten Witte, Elisabetta Renzoni

Persistent inflammation in systemic sclerosis is strongly associated with mortality: a EUSTAR database analysis
Sabina A. Guler (Bern, Switzerland), Adela-Cristina Sarbu, Odile Stadler, Yannick Allanoire, Vera Bernardino, Jörg H.W. Distler, Armando Gabrielli, Anna-Maria Hoffmann-Vold, Marco Mattucci-Cerinic, Ulf Müller-Ladner, Vera Ortiz-Santamaria, Simona Rednic, Valeria Riccieri, Vanessa Smith, Susanne Ullman, Ulrich Walker, Thomas Geiser, Oliver Distler, Britta Maurer, Florian Kollert

Effects of nintedanib in patients with systemic sclerosis-associated ILD (SSc-ILD) and differing levels of lung function impairment
Athol Wells (London, United Kingdom), Wim A Wuyts, Sven Gläser, Alfredo Guillen-Del-Castillo, Hilario Nunes, Masaki Okamoto, Rozeta Simonovska, Margarida Alves, Kristin B Highland

Lung involvement in early rheumatoid arthritis, interim analysis of the FINDRA prospective study
Antoine Fridouire (Bruxelles, Belgium), Marie Perrot, Benoît Ghaye, Deniz Zan, Aleksandra Avramovska, Maria Stoenoiu, Marie Doyen, Sandra Koenig, Patrick Durez

Serum KL-6 improves prediction of progressive phenotype (PP) at one year independently of underlying interstitial lung disease (ILD): results from the VAMOS study.
Francesco Bonella (Düsseldorf, Germany), Maria Carmen Vegas Sanchez, Diego Castillo Villegas, Paloma Millan-Billi, Eva Gottstein, Olga Sánchez Pernaute, Elena Bargagli, Maria Molina Molina

Predictors of Interstitial Lung Disease (ILD) in patients with Idiopathic Inflammatory Myopathy-associated (IIM)
Elisabetta Balestro (Padova (PD), Italy), Elisabetta Cocconcelli, Elisabetta Zanatta, Serena Bellani, Gioele Castelli, Simone Petrarulo, Luca Iaccarino, Paolo Spagnolo

Discussion
### Symposium: Update on pulmonary embolism management

**Aims:** to discuss guidelines that help identify risk factors for pulmonary embolism (PE) and venous thromboembolism (VTE); to debate definitions and their major impact on management of the disease (extended vs. short-term anticoagulant therapy); to assess the adequacy of these risk factors and whether treatment with direct-acting oral anticoagulants should reconsider any of them; to review the scores and data available to help decide when to continue or suspend anticoagulant treatment; to review the risk of thrombosis associated with COVID-19; to describe anticoagulation regimens used to treat VTE and prophylaxis to prevent recurrence in hospitalised patients; to explain the proper anticoagulation strategies for hospitalised COVID-19 patients and define the proper anticoagulation for outpatients in the active or convalescent phase of infection.

**Disease(s):** Pulmonary vascular diseases, Respiratory infections, Thoracic oncology

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

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Respiratory critical care physician, Physician in Pulmonary Training, Thoracic oncologist, Thoracic surgeon, Respiratory therapist

**Chairs:** Mona Lichtblau (Zürich, Switzerland), Marc Humbert (Le Kremlin-Bicêtre, France), Laurent Bertoletti (Saint Etienne Cedex, France)

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<thead>
<tr>
<th>Time</th>
<th>Session title</th>
<th>Speaker Details</th>
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<tbody>
<tr>
<td>16:00</td>
<td>Cancer-associated thrombosis: case fatality rates and scores to balance the risks and benefits of long-term anticoagulant treatment</td>
<td>Marc Carrier (Ottawa (ON), Canada)</td>
</tr>
<tr>
<td>16:15</td>
<td>Prevention and treatment of pulmonary embolism related to COVID-19</td>
<td>Stéphane Zuily (Vandoeuvre-lès-Nancy, France)</td>
</tr>
<tr>
<td>16:30</td>
<td>Relevance of the term “provoked” in the management of PE: PRO</td>
<td>Francis Couturaud (Brest, France)</td>
</tr>
<tr>
<td>16:45</td>
<td>Relevance of the term “provoked” in the management of PE: CON</td>
<td>Remedios Otero Candelera (Sevilla, Spain)</td>
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</tbody>
</table>

### Symposium: Post-critical care long COVID: reducing the physical and emotional toll

**Pathophysiological mechanisms, assessments and therapeutic options in patients with long COVID following intensive care unit admission**

**Aims:** to discuss the pathophysiological mechanisms of post-intensive care unit (ICU) long COVID; to explore how to wean from mechanical ventilation and the therapeutic modalities of inpatient physiotherapy and outpatient rehabilitation; to discuss the psychological and cognitive aspects of post-ICU long COVID, particularly the assessment and support of these patients.

**Disease(s):** Pulmonary vascular diseases, Respiratory infections, Thoracic oncology

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

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Respiratory critical care physician, Physician in Pulmonary Training, Thoracic oncologist, Thoracic surgeon, Respiratory therapist

**Chairs:** Ane Johannessen (Bergen, Norway), Jonathan Grigg (London, United Kingdom)

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<tr>
<th>Time</th>
<th>Session title</th>
<th>Speaker Details</th>
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<tbody>
<tr>
<td>15:45</td>
<td>Implications of menthol, aromas and tobacco free nicotine alternatives</td>
<td>Paraskevi Katsaounou (Athens, Greece)</td>
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<tr>
<td>16:00</td>
<td>Pharmaceutical transformation of the industry</td>
<td>Aslı Görek Dilektasılı (Bursa, Turkey)</td>
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<tr>
<td>16:15</td>
<td>Exposure of children to tobacco advertising; what more do we have to do?</td>
<td>Alexander Möller (Zürich, Switzerland)</td>
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<tr>
<td>16:30</td>
<td>Discussion and Q&amp;A</td>
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### Session 8H (live-streamed)  
**Symposium: Reflections from the 2022 Lung Science 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 2022 took place on March 10–13 in Estoril, Portugal with the following overarching theme: “Mucosal immunology of the lung: Balancing protective immunity and chronic inflammation”. 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

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

**Tag(s):** Basic science

**Target audience:** Clinical researcher, Medical Student, Scientist (basic, translational)

**Chairs:** Reinoud Gosens (Groningen, Netherlands), Silke Meiners (Sülfeld, Germany)

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<tr>
<th>Time</th>
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<th>Speaker, Location</th>
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<tbody>
<tr>
<td>16:00</td>
<td>Patient’s testimony</td>
<td>Grant McIntyre (United Kingdom)</td>
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<tr>
<td>16:05</td>
<td>Pathophysiology of post-ICU long COVID syndrome</td>
<td>Negin Hajizadeh (Madrid, Spain)</td>
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<tr>
<td>16:20</td>
<td>Prolonged mechanical ventilation and physiotherapy for COVID patients in ICUs</td>
<td>Nicholas Hart (London, United Kingdom)</td>
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<tr>
<td>16:35</td>
<td>Managing anxiety, depression and cognitive impairment to promote recovery</td>
<td>Tracy Vannorsdall (Baltimore, United States)</td>
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<tr>
<td>16:50</td>
<td>Rehabilitation modalities to address physical morbidity and support recovery</td>
<td>Mara Paneroni (Mazzano (BS), Italy)</td>
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<tr>
<td>17:05</td>
<td>Discussion and Q&amp;A</td>
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### Session 8B (live-streamed)

**Hot topics: The future of inhalation therapy in COPD**

**Aims:** To update colleagues on novel findings in inhalation therapy in COPD in order to provide them with current and future knowledge in the field.

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

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

**Target audience:** Basic science

**Chairs:** Malte Lücken (Oberschleissheim, Germany)

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<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker, Location</th>
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<tbody>
<tr>
<td>16:00</td>
<td>The discovAIR project: a roadmap to the Human Lung Cell Atlas.</td>
<td>Malte Lücken (Oberschleissheim, Germany)</td>
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<tr>
<td>16:15</td>
<td>Human CD116+ foetal liver progenitors migrate to the perinatal lung and give rise to alveolar macrophages in vivo</td>
<td>Elza Evren (Stockholm, Sweden)</td>
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<tr>
<td>16:22</td>
<td>Inflammatory blood neutrophils in COPD stem from activated bone marrow progenitors</td>
<td>Theodore Kapellos (Mannheim, Germany)</td>
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<td>16:29</td>
<td>Local and systemic response to SARS-CoV-2 infection in children and adults</td>
<td>Kerstin Meyer (Cambridge, United Kingdom)</td>
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<td>16:44</td>
<td>Virus-provided protection against allergic asthma</td>
<td>Laurent Gillet (Liège, Belgium)</td>
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<tr>
<td>16:59</td>
<td>Discussion and Q&amp;A</td>
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</table>
**Disease(s):** Airway diseases

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

**Tag(s):** Clinical

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

**Chairs:** Martin Kolb (Hamilton (ON), Canada), Darren Teichman (Boston, United States), Louise Donnelly (London, United Kingdom)

**16:00** **Novel inhaled bronchodilators**
Mario Cazzola (Roma (RM), Italy)

**16:15** **Novel inhaled anti-inflammatory drugs and inhaled monoclonal antibodies**
Paola Rogliani (Roma (RM), Italy)

**16:30** **Inhaled vaccines and inhaled antimicrobial agents**
Gary P. Anderson (Parkville (VIC), Australia)

**16:45** **Evolution in pulmonary drug delivery devices**
Omar S. Usmani (London, United Kingdom)

**17:00** Discussion and Q&A

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**8A (live-streamed) Session 16:00 - 17:30**

**Clinical cases: Lungs on fire: Respiratory infections?**

**Aims:** To facilitate the presentation of real-life clinical cases as part of an interactive session. Cases vary in difficulty and may require differential diagnosis. This session is led by two discussants who will present cases submitted by respiratory health professionals to a panel of experts and will drive the discussion in a step-by-step approach, encouraging dialogue and reflection among the panel who have no prior knowledge of these cases. As the cases are discussed, the discussants will invite the audience to participate in determining which diagnostic and therapeutic options would be best for these patients.

**Disease(s):** Respiratory infections

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Physician in Pulmonary Training, Respiratory critical care physician, Radiologist, Nurse, Medical Student

**Chairs:** Eva Polverino (Barcelona, Spain), Holly R. Keir (Dundee (Angus), United Kingdom), Giovanni Sotgiu (Sassari, Italy)

**Discussants:** Daiana Stolz (Basel, Switzerland), James D. Chalmers (Dundee (Angus), United Kingdom)

**16:00** **Case 1 incl. panel discussion and Q&A - Author: M. Saad (Italy)**
Daiana Stolz (Basel, Switzerland)

**16:22** **Case 2 incl. panel discussion and Q&A - Author: S. Yuvarajan (India)**
James D. Chalmers (Dundee (Angus), United Kingdom)

**16:44** **Case 3 incl. panel discussion and Q&A - Author: D. Rodrigo (Sri Lanka)**
Daiana Stolz (Basel, Switzerland)

**17:06** **Case 4 incl. panel discussion and Q&A - Author: S. Wickramasinghe (Sri Lanka)**
James D. Chalmers (Dundee (Angus), United Kingdom)

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**Studio Session 16:30 - 17:30**

**Online skills lab: Hypoxic challenge and oxygen assessments**

**Aims:** To provide skills and background knowledge needed to perform the hypoxic challenge test and oxygen assessments utilising blood gas analysis according to best practice and in accordance with the latest recommendations; to describe the basic principles, techniques and associated physiology for performance of the hypoxic challenge test, oxygen assessments and arterial/capillary blood gas analysis; to discuss standardisation of test performance in accordance with the latest best practice guidelines; to provide background knowledge needed to perform the tests, compile reports and interpret the results; to provide technical and physiological knowledge needed to perform the tests.

**Chairs:** Maria Bonsignore (Palermo, Italy), Karl Sylvester (Cambridge (Cambridgeshire), United Kingdom)

**16:30** **Blood gases**
Julie Lloyd (Birmingham (West Midlands), United Kingdom)

**16:45** **Q&A**
Julie Lloyd (Birmingham (West Midlands), United Kingdom)
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<th>Time</th>
<th>Session</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>16:50</td>
<td>Oxygen assessment</td>
<td>Magnus Ekström (Lund, Sweden)</td>
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<tr>
<td>17:05</td>
<td>Q&amp;A</td>
<td>Magnus Ekström (Lund, Sweden)</td>
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<td>17:10</td>
<td>Hypoxic challenge</td>
<td>Rachel Ong-Salvador (Amsterdam, Netherlands)</td>
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<td>17:25</td>
<td>Q&amp;A</td>
<td>Rachel Ong-Salvador (Amsterdam, Netherlands)</td>
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**18:00-19:30**

**INDUSTRY EVENING MINI-SYMPOSIUM**  
SEE PAGE 1

**18:00-19:30**

**INDUSTRY EVENING SYMPOSIUM**  
SEE PAGE 1

**18:00-19:00**

**INDUSTRY VIRTUAL SYMPOSIUM**  
SEE PAGE 1
Skills workshop: SW4 Cardiopulmonary rehabilitation beyond the basics

**Aims:** To describe diagnostic methods and interventions that enhance the comprehensiveness of cardiopulmonary rehabilitation programmes and contribute to a more patient-tailored approach; to describe methods of assessing physical activity level in patients referred for cardiopulmonary rehabilitation and methods of providing cognitive behavioural therapy to promote physical activity; to describe neuromuscular electrical stimulation and the patients referred for cardiopulmonary rehabilitation who could benefit from this treatment; and to describe the incorporation of mindfulness-based interventions into cardiopulmonary rehabilitation and their outcomes.

**Disease(s):** Airway diseases

**Method(s):** Pulmonary rehabilitation

**Tag(s):** Clinical

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

**Chairs:** Heleen Demeyer (Leuven, Belgium)

**08:00** **Introduction**

**08:00** **Physical activity assessment and intervention**
Chris Burtin (Diepenbeek, Belgium)

**08:00** **Neuromuscular electrical stimulation**
Anouk W. Vaes (Horn, Netherlands)

**08:00** **Frailty assessment and intervention**
Roberto Benzo (Rochester, United States)

**08:00** Mindfulness interventions during cardiopulmonary rehabilitation
Ingeborg Farver-Vestergaard (Vejle, Denmark)

**08:00-09:15** **INDUSTRY EARLY MORNING SYMPOSIUM** SEE PAGE 1

**08:00-08:45** **INDUSTRY SKILLS LAB WORKSHOP** SEE PAGE 1

**08:00-09:15** **INDUSTRY VIRTUAL SYMPOSIUM** SEE PAGE 1

**08:00-09:15** **INDUSTRY EARLY MORNING MINI-SYMPOSIUM** SEE PAGE 1

**8F Session 08:15 - 09:30**

**Oral presentation: Monitoring the effect of therapy with CFTR modulators**

**Disease(s):** Airway diseases

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

**Chairs:** Mirjam Stahl (Berlin, Germany), Chair to be confirmed

*Volume of trapped gas in adolescents with cystic fibrosis starting CFTR modulator therapy*
Marie-Pier Dumas (Toronto, Canada), Renee Jensen, Michelle Shaw, Aviva West, Samal Munidasa, Brandon Zanette, Jason Woods, Paul D. Robinson, Giles Santyr, Felix Ratjen

*Long-term benefits of early initiation of ivacaftor (IVA) in people with cystic fibrosis (CF): interim results from an ongoing registry-based study*
Mark Higgins (London, United Kingdom), Nataliya Volkova, Thalia Farietta, Meng Liu, Runyu Wu, Alexander Elbert, Susan C. Charman, Andrew Lee, Steven Cunningham

*Long-term effectiveness of dual CFTR modulator treatment of Cystic Fibrosis*
Danya Muilwijk (Utrecht, Netherlands), Domenique Zomer, Vincent Gulmans, Rene Eijkemans, Kors Van Der Ent
A multimodal MRI protocol for structure and functional lung, gut and liver imaging in cystic fibrosis (CF) for children aged 6 and above.
Christabella Ng (Nottingham, United Kingdom), Naaventhan Palaniyappan, Zachary Peggs, Alex Yule, Christopher Bradley, Neele Dellschaff, Jonathan Brooke, Luca Marciani, Robin Spiller, Gururprasad Aithal, Caroline Hoad, Susan Francis, Penny Gowland, Ian Hall, Andrew Prayle, Alan R Smith

Multivolume Magnetic Resonance Imaging (MRI) to assess response to triple-combination Elexacaftor/Tezacaftor/Ivacaftor (ETI) in the lung of patients with Cystic Fibrosis (CF)
Francesca Pennati (Milano (MI), Italy), Irene Borzani, Erica Nazzari, Maria Chiara Russo, Giulia Bischetti, Chiara Rosazza, Calogero Sathya Sciarrabba, Alessandra Mariani, Gianpaolo Carrafiello, Andrea Aliverti, Carla Colombo

Efficacy of elexacaftor/tezacaftor/ivacaftor therapy assessed by lung ultrasound
Uros Krivec (Ljubljana, Slovenia), Marina Praprotnik, Malena Aldeco, Dušanka Lepej, Aleksandra Zver, Jasna Rodman Berlot, Saša Šetina Šmid, Špela Dolenc, Jana Lozar Krivec

Breath profiles in cystic fibrosis children treated with CFTR modulators
Elias Seidl (München, Germany), Johann-Christoph Licht, Gitte Slingers, Rianne De Vries, Felix Ratjen, Hartmut Grasemann

Elexacaftor-tezacaftor-ivacaftor (ETI) treatment improves Lung Clearance Index (LCI) in patients with Cystic Fibrosis (CF) independently from baseline respiratory function
Sonia Volpi (, Italy), Francesca Lucca, Riccardo Guarise, Rianne De Vries, Felix Ratjen, Hartmut Grasemann

Effect of ELX/TEZ/IVA treatment on lung ventilation in children with cystic fibrosis – comprehensive assessment using spirometry, MBW, structural and functional lung MRI
Sonia Volpi (, Italy), Francesca Lucca, Riccardo Guarise, Antonella Borruso, Monica Signorini, Marco Cipolli

Late Breaking Abstract - A multimodal cell atlas of the pediatric lower airway
Melanie Neeland (Parkville, Australia), Shivanthan Shanthikumar, Jovana Maksimovic, Alicia Oshlack, Sarah Ranganathan

Discussion

8L Session 08:15 - 09:30
Oral presentation: Digital medicine for COVID-19

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

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

Chairs : Hilary Pinnock (Edinburgh (Edinburgh), United Kingdom), Omar S. Usmani (London, United Kingdom)

Developing a multivariate prediction model for the detection of COVID-19 from crowd-sourced respiratory voice data.
Wafaa Aljbawi (Amstelveen, Netherlands), Sami Simons, Visara Urovi

Deep learning-based hybrid clinical decision support system algorithm for COVID-19 diagnosis via PCR graphics and Thorax CT images, preliminary data
Elvan Burak Verdi (ANKARA, Turkey), Memetcan Gok, Deniz Dogan Mülazimoglu, Merve Begum Terzi, Aslihan Gurun Kaya, Serhat Erol, Ozlem Isik, Onur Utku Guvendik, Atila Halil Elhan, Zeynep Ceren Karahan, Alpay Azap, Akın Kaya, Orhan Arikan, Ozlem Ozdemir Kumbasar

Telemedicine implementation for management of COVID-19 patients at hospital admission: a single center experience
AYCAN YUKSEL (Ankara, Turkey), Nalan Ogan, Ceren Ilgar, Esen Sayin Gülensoy, Hale Çolakoğlu Er, Samet Altunbaş, Evrim Eylem Akpinar

Altea: Improving Long COVID affected people’s quality of life by knowledge and experience sharing
Natalie Rangelov (Wallisellen, Switzerland), Michael Schlunegger

Continuous cough monitoring with AI: Cases: treatment response, smoking cessation and COVID-19
Mindaugas Galvosas (Vilnius, Lithuania), Juan C. Gabaldón-Figueira, Virginia Orrillo, Isabel Blavia, Juliane Chaccour, Alejandro Fernandez-Montero, Nita Umashankar, Nuria Armendáriz, Francisco Javier Bartolomé, Eric M. Keen, Joe Brew, Peter M Small, Simon Grandjean Lapierre, Carlos Chaccour

Process evaluation of the Dutch COVID-19 QR code app: an example of citizen science
Esther I. Metting (Groningen, Netherlands), Bart Noort, Wolfgang Ebbers, Lotty Hooft, Joris Van Hoof
Demand for hospital-based telemedicine services among outpatients during the Covid-19 outbreak
Qi Tan (Nanjing (Jiangsu), China), Yan Chen, Cheng Zhang, Chun-Yu Li, Megan Murray

Self-monitoring using multimodal connected devices in patients with COVID-19 confined at home
Jean-Louis Pépin (Grenoble, France), Mallory Cals-Maurette, Rui-Yi Yang, Pierre Escourrou, Valéry ELIE

Tele-medicine in home treatment with physical therapy in the Sars-cov2 pandemic
Simonetta Vernocchi (Gallarate, Italy), Andreas Aceranti, Davide Emedoli, Teresa Serini

Late Breaking Abstract - Detecting COVID-19 through cough audio analysis: Pilot study initial results
Shrawan Patel (New York, United States), Freyra Cristea, Jack Hanson, Neroli Anderson, Vesa Peltonen, John May, Paul Porter, Tony Keating

Discussion

8N  Session  08:15 - 09:30
Oral presentation: Cardiopulmonary exercise and challenge testing: utilisation and safety implications
Disease(s) : Airway diseases, Interstitial lung diseases, Pulmonary vascular diseases
Method(s) : Physiology, Pulmonary function testing, General respiratory patient care, Pulmonary rehabilitation
Chairs : Karl Sylvester (Cambridge (Cambridgeshire), United Kingdom), Aisling McGowan (Dublin 15, Ireland)

Cardiopulmonary exercise test & risk assessment in lung resection surgery: A Tunisian experience
Hana Mrassi (Tunis, Tunisia), Nozha Ben Salah, Hana Blibebe, Houda Snene, Mahdi Abdennadher, Line Kaabi, Soumaya Debbiche, Nadia Mehiri, Taher Mestiri, Adel Marghilli, Bechir Louzir

Evaluation of covid-19 lung involvement effect on exercise capacity in the 3rd and 6th months
Elif Yilmazel Uçar (Erzurum, Turkey), Omer Araz, Bugra Kerget, Kadir Ozmen, Metin Akgun, Leyla Saglam

Transition to a physiologist led cardiopulmonary exercise testing (CPET) service and evaluation of one year outcomes
Sara Mcarthur (Edinburgh (Edinburgh), United Kingdom), Jill Macleod, Shaun Baxter, Kristofer Cuthbert

Comparing peripheral capillary oxygen saturation during a six-minute walk test with arterial saturation during a cardiopulmonary exercise test
Liv Karin Vesteng (Jessheim, Norway), Christine Gudim Karlsen, Anita Grongstad

NICE asthma guidelines: time to re-evaluate the diagnostic value of exercise challenge testing?
Oliver Price (Leeds, United Kingdom), Andrew Simpson

The role of transcutaneous carbon dioxide measurement during exercise.
Rachel Ong-Salvar (Amsterdam (Amsterdam), Netherlands), Patrick Jak, Rolien Bekkema, Joost Van Den Aardweg

Effects of tidal expiratory flow limitation on lung functions, exercise limitation and symptoms severity in stable COPD
Amit Kiran Rath (Raipur, India), Vikas Kumar, Dibakar Sahu, Sajal De

Recovery after histamine provocation: predictive power of gender and body mass index
Catharina C de Vrede (Delft, Netherlands)

Methacholine challenge: Safety of the quadrupling protocol
Irene Steenbruggen (Zwolle, Netherlands), Peter De Laat

Late Breaking Abstract - Adopting the 2019 ATS/ERS spirometry guidelines in clinical trials: impact on site and patient burden.
Philip Lake (Monmouth (Gwent), United Kingdom), Kevin McCarthy, Dawn Patterson, Marc-Aurel Baumle, Reza Farienfar, Jose Ramos

Discussion

TP-25  Session  08:30 - 09:30
Thematic poster: Diagnosis and epidemiology in pulmonary hypertension
Disease(s) : Pulmonary vascular diseases
Method(s) : Epidemiology, General respiratory patient care, Public health, Pulmonary rehabilitation, Physiology, Respiratory intensive care, Pulmonary function testing, Imaging, Cell and molecular biology
Fully automatic deep learning pulmonary hypertension diagnosis using CT pulmonary angiography
krit Dwivedi (Sheffield, United Kingdom), Michael Sharkey, Kavitasaagar Karunasaagar , Christopher S. Johns, Smitha Rajaram, Pankaj Garg, Dheyaa Alkhansafar, Samer Alabed, Peter Metheralf, Jonathan Taylor, Rob J. Van Der Geest, Robin Condliffe, Michael Mamalakis, David G. Kiely, Andrew J. Swift

Concordance between hemodynamic variables and echocardiographic in patients from the Colombian pulmonary hypertension network
Rafael Enrique Conde Camacho (Bogotá, Colombia), Alejandro Londoño, Manuel Pacheco, Carlos Jaime Velásquez, Ricardo Gómez-Palau, Diana Tiga, Juliana De Luque, Alba Ramírez-Sarmiento, Mauricio Orozco-Levi

External validation of machine learning prediction model for pulmonary hypertension due to left heart disease
Kenneth Verstraete (Leuven, Belgium), Katleen Swinnen, Claudia Baratto, Maarten De Vos, Marko Topalovic, Guido Claessen, Rozenn Quarck, Catharina Belge, Jean-Luc Vachiery, Wim Janssens, Marion Delcroix

Identification of pulmonary arterial hypertension patients in coded healthcare databases: a clinical evaluation study
Eva-Maria Didden (Allschwil, Switzerland), Di Lu, Andrew Hsi, Haley Hedlin, Monika Brand, Roham T. Zamanian

Completeness of right heart catheterization procedures-comparison of community hospitals and a PH center
Karen M Olsson, Da-Hee Park, Jan C Kamp, Jan Fuge, Marius M Hoepner

Hypochromic erythrocytes as prognostic indicator of survival among patients with systemic sclerosis screened for pulmonary hypertension
Ojan Gordjani (Gelnhausen, Germany), Panagiota Xanthouli, Christina Eichstadt, Nicola Benjamin, Benjamin Egenlauf, Sătenik Harutyunova, Alberto Marra, Vivienne Theobald, Nicklas Milde, Christian Nagel, Norbert Blank, Hanns-Martin Lorenz, Ekehard Grünig

INFLUENCE OF LUNG IMPAIRMENT ON ONSET OF PULMONARY HYPERTENSION IN PATIENTS WITH COVID-19-ASSOCIATED PNEUMONIA
Olha Shchudro (Dnipro, Ukraine), Mariia Krykhtina, Kseniia Bielosludtseva, Konopkina Lyudmila, Botvinikova Larysa

Conduction disease in IPAH: prevalence and clinical implications
Ashwin Reddy (Cambridge, United Kingdom), Sarah Nethercott, Wen Teh, Eckaart De Bie, Joanna Pepke-Zaba, Claire Martin, Mark Toshner

CT-derived vascular pruning assessment in portopulmonary hypertension
Emmy Mai (Cincinnati, United States), Jose Gomez-Arroyo, Akshay Pillai, Christine Zhou, Kaitlin Snapp, Sharp-Dimitri Demetrio, Dana Kay, Amin Raouf, Jean Elwing, Arun Jose, Mylavarapu Goutham

Multidimensional CT approach to predict hemodynamics in PH

Serum uric acid and long-term survival in patients with pulmonary arterial hypertension(group 1 and 4) – results from a single pulmonary hypertension centre in Slovenia
Anže Žgank (Ljubljana, Slovenia), Barbara Salobir, Matevž Harlander, Polona Mlakar, David Lestan, Matjaž Turel, Janez Toplišek, Vojka Gorjup, Irene Lang

Genetics in pulmonary arterial hypertension
Stephanie Lua (Glasgow, United Kingdom), Harrison Stubbs, Alexander Maclellan, Melanie Brewis, Colin Church, Martin Johnson

The right ventricle as treatment target in pulmonary arterial hypertension
Lucas Celani (Amstelveen, Netherlands), Lilian Meijboom, Harm Jan Bogaard, Frances S De Man, Anton Vonk Noordegraaf

Characteristics of risk strata in patients diagnosed with pulmonary hypertension in Colombia.
Mauricio A. Orozco-Levi (Barcelona, Spain), Juliana De Luque, Diana Tiga-Loza, Rafael Conde, Alejandro Londoño, Manuel Pacheco, Carlos Jaime Velásquez, Angie Pabón, Ricardo Gómez-Palau, Julián Cortés-Colorado, Alba Ramírez-Sarmiento

Phenotyping Pulmonary Hypertension in Costa Rican population: Epidemiology and treatment response.
Adriana Valverde Zuñiga (Heredia, Costa Rica), Marlene Jiménez Carro, Benjamín Ramírez Cisneros

Incidence and outcomes of pulmonary hypertension in the Republic of Ireland
Sarah Sullivan (Dublin, Ireland), Brian McCullagh, Sean Gaine

Underweight/overweight syndrome in patients with pulmonary hypertension in Colombia: a prevalence study.
Alejandro Londoño, Rafael Conde, Manuel Pacheco, Carlos Jaime Velásquez, Ricardo Gómez-Palau, Diana Tiga, Juliana De Luque, Alba Ramírez-Sarmiento, Mauricio Orozco-Levi
Childhood Trauma in patients with PAH -prevalence, impact on QoL and mental health - a preliminary report
Da-Hee Park (Hannover, Germany), Tanja Meltendorf, Kai G. Kahl, Jan C. Kamp, Manuel J. Richter, Henning Gall, Hossein A. Ghofrani, Marius M. Hoeper, Karen M. Olsson, Jan Fuge

Late Breaking Abstract - Cytokines as prognostic biomarkers in pulmonary arterial hypertension
Athénaïs Boucly (Le Kremlin Bicêtre, France), Ly Tu, Christophe Guignabert, Christopher Rhodes, Pascal De Groote, Grégoire Prévet, Emmanuel Bergot, Arnaud Bourdin, Antoine Beurnier, Anne Roche, Mitja Jevnikar, Xavier Jaïs, David Montani, Martin R Wilkins, Marc Humbert, Olivier Sitbon, Laurent Savale

Late Breaking Abstract - Improvement of risk in patients with severe chronic thromboembolic pulmonary hypertension after 24weeks treatment with subcutaneous treprostinil
Pavel Jansa (Jiminy, Czech Republic), Roela Sadushi-Kolici, Grzegorz Kopec, Nika Skoro-Sajer, Michael Halank, Iveta Simkova, Regina Steringer-Mascherbauer, Barbara Salobir, Walter Klepetko, Jaroslav Lindner, Irene Lang

TP-21  Session  08:30 - 09:30
Thematic poster: Epidemiological assessments and public health studies on tuberculosis and NTM
Disease(s) : Airway diseases
Method(s) : Epidemiology  General respiratory patient care  Public health  Imaging  Pulmonary function testing
Chairs : Alberto Garcia-Basteiro (Maputo, Mozambique), Raquel Duarte (Porto, Portugal)

A summary of contact tracing incident investigation outcomes in congregate settings from a large UK city over a 7-year period
Darryl Braganza Menezes (Birmingham (West Midlands), United Kingdom), Tom Marshall, Emmanouil Tranos, Hanna Kaur, Esther Robinson, Grace Smith, Martin Dedicoat

The impact of nontuberculous mycobacteria species on non-cancer mortality in patients with nontuberculous mycobacterial lung disease
Chin-Chung Shu (Taipei, Taiwan), Ping-Huai Wang, Chin-Hao Chang

Cannabis and negative tuberculosis treatment outcomes association: a systematic review and meta-analysis
Max Arangoitia Fernandez Baca (Lima, Peru), Daniel Bustamante, Felix Cuti, Paulo Ruiz-Grosso, Cesar Ugarte-Gil

Tuberculosis in the Roma population in southwestern Romania (2010-2020)
Andreea Miha (Staicu) (Craiova, Romania), Cristina Calarasu, Floarea Mimi Nitu, Victor Ionel Grecu, Alina Marinela Miulescu (popa)

Immunonutritional status predicts poor prognosis of active pulmonary tuberculosis
Shuichi sugiyama (shizuoka, Japan), Taisuke Akamatsu, Yutaro Kishimoto, Kazuhiro Asada, Toshihiro Shirai

Healthcare seeking pathways and diagnostic delays among extra-pulmonary tuberculosis patients: a study from Pakistan
Ahmad Wali (Quetta, Pakistan), Nauman Safdar, Atiqa Ambreen, Sabira Tahseen, Tehmina Mustafa

Spirometry, DLCO, lung volumes and PET/CT findings after completion of tuberculosis treatment - preliminary findings of the StatinTB trial
Karen Wolmarans (Cape Town, South Africa), Sandra Mukasa, Antonetta Mashinyira, Patrick Katoto, Fareda Jakoet-Bassier, Tessa Kotze, Reo Guler, Gunar Gunther, Friedrich Thienemann

Profile of patients with tuberculous mastitis in a UK district general hospital
Olutobi Ojuawo (Birmingham, United Kingdom), Shahbaz Piracha, Sannaan Irshad, Mehboob Mirza, Guy Hagan

Active tuberculosis and malignance: a 5 year retrospective study
Margarida V. Matias (Lisbon, Portugal), Joana A. Ribeiro, Joana Carvalho, Conceição Gomes
### FACTORS ASSOCIATED WITH THROMBOEMBOLIC EVENTS IN PULMONARY TUBERCULOSIS
safa marzouki (ben arous, Tunisia), Hedhli Abir, Ouahchi Yassine, Toujani Sonia, Cheikhhouhou Sanna, Meria Samira, Mjid Meriem, Dhaliri Besma

### Outcomes of Tuberculosis contact tracing and predictors of success: a 10-year retrospective cohort analysis
Felicity Andrews (COVENTRY, United Kingdom), Hanna Kaur, Martin Dedicoat

### Predictors of anxiety depression disorders during active pulmonary tuberculosis
Amani Ben Mansour (Tunisia, Tunisia), Imene Nouira, Med Iemine Sidi Oumar, Hafaoua Daighfous, Soumaya Ben Saad, Fatma Tritar

### Mycobacterium avium complex pulmonary disease. Risk factors.
Eva Tabernero Huguet (Bilbao (Bizkaia), Spain), Lander Altube, Julia Amamata García Fuertes, María Victoria Leal Arranz, Javier Ugedo Urruela, Nerea Ortiz Laza, Borja Ortiz De Urbina, Alejandro Rezola Carasusan, Ana Gomez Larrauri, Larraitz García Echeberria, Borja Santos Zurrozua

### The survival of mycobacterium abscessus over twenty years
Carolina Santamaría Valencia (Maspalomas, Spain), Miriam Rodríguez De Rivera Socorro, Iovanna Socorro Ávila, Guillermo José Perez Mendoza, María Isolina Campos-Herrero Navas, Jose Antonio Caminero Luna

### Prevalence and predictive factors of sleep disorders in active pulmonary tuberculosis
Amani Ben Mansour (Tunisia, Tunisia), Imene Nouira, Med Iemine Sidi Oumar, Hafaoua Daighfous, Soumaya Ben Saad, Fatma Tritar

### Characteristics of children and adolescents with rheumatologic diseases and diagnosis of active and latent tuberculosis in tertiary hospital in Rio de Janeiro – retrospective study
Lenita De Melo Lima (Rio de Janeiro, Brazil), Ana Alice Amaral Ibiapina Parente, Rafaela Baroni Aurilio, Adriana Rodrigues Fonseca, Flávio Sztajnbok, Marta Cristine Felix Rodrigues, Claudia Stella Pereir Battaglia, Michely Alexandrina De Souza Pinheiro, Belize Marques Barreto, Sidnei Ferreira, Maria De Fátima Bazhuni Pombo Sant'Anna, Clemix Couto Sant'Anna

### TB death: A 5 year retrospective analysis of tuberculosis mortality in Bristol, North Somerset and South Gloucestershire (BNSSG), United Kingdom
Fraser Easton (bristol, United Kingdom), Joshua Hrycaiczuk, Georgina Prestwich, Sabine Bellamy, Rajeka Lazarus

### Thematic poster: Clinical problems and management of airway diseases

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<thead>
<tr>
<th>Disease(s)</th>
<th>Method(s)</th>
<th>Chairs</th>
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<tr>
<td>Airway diseases</td>
<td>General respiratory patient care, Epidemiology, Respiratory intensive care, Palliative care, Physiology, Pulmonary function testing, Cell and molecular biology</td>
<td>Andrea Bianco (Napoli, Italy), Tiziana Patrizia Cremona (Bern, Switzerland)</td>
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#### A Possible Complication of Chronic Obstructive Pulmonary Disease: Ischemic Colitis
Shielah Mauntana (El Paso, United States), Mahesh Gajendran

#### Underdiagnosis of chronic obstructive pulmonary disease: a problem that persists
Ana Roca Noval (Madrid, Spain), Rocío García García, Miguel Jiménez Gómez, Julia Diaz Miravalls, Eduardo Catalinas Muñoz

#### Barriers to early diagnosis and smoking cessation for COPD patients
Liliya Belenko Gentet (Drucourt, France)

#### Development in diagnosed comorbidities over a twelve-month period in patients with COPD
Mia Solholt Godthaab Brath (Vadum, Denmark), Sisse Dyranm Alsted, Pernille Veiss-Pedersen, Rasmus Brath Christensen, Ulla Möller Weinreich

#### COPD patients’ experiences and understanding of exacerbations: a qualitative study
Michael Crooks (East Riding of Yorkshire, United Kingdom), Richard Russell, Helena Cummings, Kay Roy, Omar Usmani, Judith Cohen, Sarah Macfadyan, Tamsin Morris, Hana Mullerova, Yang Xu, Ann Hutchinson

#### Undiagnosed and undertreated heart disease in hospitalised patients with exacerbations of chronic obstructive pulmonary disease (COPD)
Joseph Kibbler (Carlton, United Kingdom), David P Ripley, Stephen C Bourke, John Steer

#### Impact of treatment with inhaled corticosteroids on COVID-19 risk and outcome – a potential protective effect on severity of disease and survival
Marina Labor (Linköping, Sweden), Fredrik Nyberg, Brian K. Kirui, Lowie E.G.W Vanfleteren
Relationship between plasma alpha-1-antitrypsin polymers and lung or liver function in ZZ alpha-1-antitrypsin deficient patients
Sabina Janciauskiene Wallmark (Hannover, Germany), Srinu Tumpara, Beata Olejnicka, Malin Fromme, Pavel Strnad, Tobias Welle, Jan Stolk

Effectiveness of Nationwide COPD Pay-for-Performance Program on quality-of-life for COPD patients
Sheng-Han Tsai, Chiung-Zuei Chen

Risk of malignancy in patients with asthma-COPD overlap compared to patients with COPD without asthma
Pradeesh Sivapalan (Gentofte, Denmark), Barbara Bonnesen, Alexander Jordan, Johannes Wirenfeldt Pedersen, Christina Marisa Bergsæ, Josef Eklöf, Louise Lindhardt Toennesen, Sidse Graff Jensen, Mathiullah Naqibullah, Zaigham Saghir, Jens-Ulrik Jensen

Impact of moderate to severe asthma from the patient’s perspective in Spain

Outcomes after prolonged weaning in COPD patients – Data from the German WeanNet-Initiative
Maximilian Wollsching-Strobel (Köln, Germany), Tobias Freundt, Nina Hämäläinen, Stefan Suchi, Wolfram Windisch, Bernd Schönhofer

Evaluation of risk factors for barotrauma complications in COVID-19 patients treated with high flow nasal cannula (HFNC)
Plamen Titorenkov (Sofia, Bulgaria), Dimitar Manoylov, Milena Encheva, Sofia Zabadanova, Emilia Naseva

Five-year all-cause hospitalizations in patients with COPD following their first-ever exacerbation-related hospitalization
Kiki Waetjen-Smit (Horn, Netherlands), Peter A. Jacobsen, Sarah Houben-Wilke, Sami O. Simons, Frits M. E. Franssen, Martijn A. Spruit, Christian T. Pedersen, Kristian H. Krugholm, Ulla M. Weinreich

Over-the-counter (OTC) short-acting β-agonist (SABA) purchase and asthma outcomes in SABINA III
Hisham Farouk (Dubai, United Arab Emirates), Walter Javier Mattarucco, Rocio Martina Barriga, Hao-Chien Wang, Dina Diaz, Adel Khattab, Manuel Pacheco Gallego, Ashraf Al Zaaibi, David Price

Severe eosinophilic asthma with paradoxal worsening T2 bronchial inflammation despite sequential treatment with mepolizumab and benralizumab
Christophe Marcot (strasbourg, France), Naji Khayath, Frederic De Blay

Three sensitization patterns to mugwort, timothy, birch and their main allergen components revealed by latent class analysis
Wu Liting (Guangzhou, China), Luo Wenting, Hu Haisheng, Zheng Xianhui, Chen Yuemin, Sun Baoqing

Effect of positive airway pressure (PAP) therapy in patients with excessive dynamic airway collapse (EDAC)
Neeraj Shah (New Malden (Surrey), United Kingdom), Kinjal Jadeja, Michael Cheng, Philip Marino, Michelle Ramsay, Shelley Srivastava, Joerg Steier, Nicholas Hart, Eui-Sik Suh, Patrick Murphy, Georgios Kaltsakas

Nasal high flow oxygen therapy compared to conventional oxygen therapy in hospitalised patients with respiratory illness: a systematic review and meta-analysis
Daniel Seow (Singapore, Singapore), Yet Hong Khor, Su Wei Khung, David Smallwood, Yvonne Ng, Natasha Smallwood

Extended-release morphine for chronic breathlessness in COPD: a randomized controlled trial with blinded up-titration over three weeks
Diana Ferreira (Adelaide (SA), Australia), Magnus Ekström, Sungwon Chang, Sandra Louw, Miriam Johnson, Danny Eckert, Belinda Fazekas, Katherine Clark, Meera Agar, David Currow

TP-20 Session 08:30 - 09:30
Thematic poster: Fungal infections and other relevant COVID-19 findings
Disease(s): Airway diseases, Respiratory critical care
Method(s): General respiratory patient care, Respiratory intensive care, Epidemiology, Cell and molecular biology, Public health
Chairs: Anand Shah (London, United Kingdom), Sanjay Chotirmall (Singapore, Singapore)

Aspergillus co-infection in critically ill COVID-19 patients
Gordana Pavliša (Zagreb, Croatia), Ivana Majdandžic, Andrea Vukic Dugac, Mateja Jankovic Makek, Lidija Ljubicic, Miroslav Samarzija
Effect of omalizumab on glucocorticoid use, lung function and asthma control in the treatment of allergic bronchopulmonary aspergillosis: a systematic review and meta-analysis  
Jo Douglass (Parkville, Australia), Meiling Jin, J Stuart Elborn, Ritesh Agarwal, William J Calhoun, Xavier Jaumont, Slawomir Lazarewicz, Meng Yan

Anti-IgE therapy for management of recurrent ABPA exacerbations: successful outcome in 8 patients  
Manu Chopra (Delhi, India), Meenakshi Chopra, Shafin Babu Ps

Aspergillus sensitization as a treatable trait in COPD  
Pei Yee Tiew (Singapore, Singapore), Jayanth Kumar Narayana, Marilynn Swee Li Quek, Yan Ying Ang, Fanny Wai San Ko, Mau Erm Poh, Tavleen Kaur Jaggi, Huiyung Xu, Kai Xian Thng, Mariko Siyue Koh, Augustine Tee, John Arputhan Abisheganaden, Krasmira Tsaneva-Atanasova, Fook Tim Chew, Sanjay Harsh Chotirmall

Azole resistance screening in Aspergillus species isolated from patients with COVID-associated pulmonary aspergillosis from Pakistan  
Kauser Jabeen (Karachi, Pakistan), Sadaf Zaka, Joveria Farooqi, Syed Faheem Naqvi

Critical COVID-19 Associated Pulmonary Mucormycosis (CAPM): The underreported life-threatening spectrum of the Mucormycosis epidemic  
Sameer Bansal (Navi Mumbai (Maharashtra), India), Hariprasad Kalpakam, Parikshit Thakare, Ravindra Mehta

Invasive fungal infections in COVID-19 patients from Pakistan  
Kauser Jabeen (Karachi, Pakistan), Nosheen Nasir, Joveria Farooqi, Syed Ahsan Ali, Syed Faisal Mahmood, Najia Ghanchi, Muhammad Irfan, Rumina Hasan, Afza Zafar

Fungal infections in the ICU during the COVID-19 era  
Evangelia Koukaki (SALAMINA, Greece), Nikoleta Rovina, Kimon Tzannis, Sevasti Ampelioti, Vasiliki Romanou, Antonia Koutsoukou, Georgios Dimopoulos

Efficacy of LD Bio Aspergillus ICT Lateral flow assay for serodiagnosis of chronic pulmonary aspergillosis  
Animesh Ray (Kolkata (West Bengal), India), Mohit Choudhury, Prayas Sethi, Ved Prakash Meena, Gagandeep Singh, Immaculata Xess, Sanjeev Sinha, Sunil Kumar Kabra

Comparison of clinical features, risk factors and outcome of invasive pulmonary aspergillosis in critically ill COVID-19, influenza and community acquired pneumonia patients  
Muhammad Irfan (Karachi (Sindh), Pakistan), Syed Ahsan Ali, Kauser Jabeen, Joveria Farooqi, Safia Awan

Absence of invasive mucormycosis in ventilated critically-ill COVID-19 patients: a post-mortem study in a tertiary care university hospital  
Job Schippers (Amsterdam, Netherlands), Paul Verweij, Leo Heunks, Karin Van Dijk

Late Breaking Abstract - Persistence of inflammatory and vascular damage mediators 5 months after acute COVID-19  
Nayia Petousi (Oxford (Oxfordshire), United Kingdom), James Melhorn, Asma Alamoudi, Mark Cassar, Anastasia Fries, Emily Fraser, Alexander Mentzer, Betty Raman, Nick Talbot

Late Breaking Abstract - Long-term follow-up of SARS-CoV-2 IgM and IgG production in the patients with COVID-19 in Japan  
Tomoiro Matsunaga (Tokyo, Japan), Shin Ohta, Fumihiro Yamaguchi, Kosuke Suzuki, Akihiko Tanaka, Issei Tokimatsu, Hironori Sagara

Late Breaking Abstract - THE ROLE OF LABACS IN LONG COVID-19 PATIENTS IN PRINGSEWU, INDONESIA  
Retno Ariza Soemarwoto (Bandar Lampung, Indonesia), Pralia Windia Sari, Jordy Oktabiannobel, Diyan Ekawati, Anse Diana Valentiene Messah, Adityo Wibowo, Ibnu Darmajati

Late Breaking Abstract - Clinical performance evaluation of an anti-SARS-CoV-2 IgG enzyme-linked immunosorbent assay  
Timothy Ferguson (Belfast (Belfast), United Kingdom), Julie Moore, Louise Robertson, Elisha Cain, Tara Moore

Late Breaking Abstract - Hospital-onset COVID-19 and antivirals  
Ghulam Haider Khan (Westmalling, United Kingdom), Milad Jeilani, Charlotte Butler, Efthicia Iossifidis, Shelby Bryant, Jaweriah Shoalib, Matthew Szeto

Late Breaking Abstract - The economic burden of pertussis among adults aged above 50 years, in England: post-hoc analyses of a retrospective database study in England  
Nicolas Jamet (Wavre, Belgium), Emmanuel Aris, J. Romario F. De Melo, Anna Ramond, Jason Simeone, Valérie Berlaimont
<table>
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<tr>
<th>TP-26</th>
<th>Session</th>
<th>08:30 - 09:30</th>
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<tr>
<td>Thematic poster: Updates in imaging COVID pneumonia, emphysema and interstitial lung diseases&lt;br&gt;&lt;br&gt;Disease(s): Respiratory critical care, Airway diseases, Interstitial lung diseases&lt;br&gt;&lt;br&gt;Method(s): Imaging, Respiratory intensive care, Public health, Endoscopy and interventional pulmonology, General respiratory patient care&lt;br&gt;&lt;br&gt;Chairs: David Laszlo Tarnoki (Budapest, Hungary), Veronika Müller (Budapest, Hungary)</td>
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<td>COVID-19 diagnosis and disease severity prediction assessment through an innovative AI-based model&lt;br&gt;Julien Guiot (Liège, Belgium), Benoit Ernst, Monique Henket, Renaud Louis, Paul Meunier, Dirk Smeets, Arne Brys, Simon Van Eyndhoven</td>
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<td>Automatic detection of COVID-19 pneumonia through artificial intelligence applied to chest X-rays&lt;br&gt;Enrique Añorbe (Vitoria, Spain), Arantz Bertecartua, Pilar Aisa, Andrea García-Tejedor, Andrea Valero, Artzai Picón, Teodoro Palomares, Estibaliz Garrote</td>
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<td>Three and six months follow up chest CT findings after COVID-19 pneumonia&lt;br&gt;Sabrine Majdoub Fehri (Nabeul, Tunisia), WAFA MADI, Racem Ammar, Ahmed Dhiaa Eleuch, Rahma Sellami, Imen Ketata, Hamida Kwass</td>
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<td>Impact of pre-existing respiratory disease on radiological outcomes in COVID-19 pneumonia&lt;br&gt;Hafiz Gulzeb Kamil (Chester, United Kingdom), Ammar Abdelaziz, Aravind Ponnuswamy</td>
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<td>Collateral benefits of doing HRCT for COVID 19 pneumonia&lt;br&gt;Deepak Muthreja (Nagpur (Maharashtra), India), Nilay Nimbalkar, Hardik Gopani</td>
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<td>Lung volumetry correlates with P/F ratio and inflammatory biomarkers in COVID-19 patients&lt;br&gt;Martina Sciolla (Torino, Italy), Rouslan Senkeev, Giuseppe Straniere, Luciano Cardinale, Thomas Fracalini, Emiliano Gatti</td>
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<td>Natural evolution of COVID19 pneumonia radiological findings&lt;br&gt;Irma Bracka (GALATSI ATHENS, Greece), Eleni Bellou, Ioannis Karampinis, Elli Keramida, Thodoris Daskalos, Panagiotis Demertzis, Georgia Hardavella</td>
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<td>Socio economic deprivation and its Impact on COVID-19 recovery -analysis of radiological outcome from an English Hospital&lt;br&gt;Hafiz Gulzeb Kamil (Chester, United Kingdom), Aravind Ponnuswamy</td>
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<td>Rate and spectrum of incidental findings on CT pulmonary angiogram of COVID-19 patients&lt;br&gt;Georgia Clarke (Salford, United Kingdom), Sophie Ashley, Moneeba Malik, Rajesh Kumar Yadavalli</td>
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<td>CO-RADS, COVID-PCR and prognosis relationship in patients followed in intensive care unit with the diagnosis of COVID-19&lt;br&gt;Güntüğ Batıhan (İzmir, Turkey), Funda Cansun, Seher Susam</td>
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<td>Role of 'Radiological Phenotypes' in Diagnosis, Treatment and Assessment of Covid-19 Pneumonia: Multicentric study of 6000 cases in tertiary care setting in India&lt;br&gt;Shital Vishnu Patil (Latur (Maharashtra), India), Ganesh Narwade, Rajesh Patil, Atul Deshmukh, Gajanan Gondhali</td>
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CXR severity as a predictor for post-COVID-19 related ILD
Da Wit Kim (New Malden, United Kingdom), Irilda Budaj, Hussein Chreif, Sharon Power, Nisar Tosia

Effect of kernel use on emphysema score in severe COPD patients evaluated for lung volume reduction
Jens Thomas Bakker (GRONINGEN, Netherlands), Karin Klooster, Hendrik Joost Wisselink, Gert Jan Pelgrim, Rozemarijn Vliegenthart, Dirk-Jan Slebos

Quantitative CT evaluation of lobar ventilation and perfusion in emphysematous candidate patients for Lung Volume Reduction
Arafa Aboelhassan (Assiut, Egypt), Eric Tenda, Safaa Wafy, Gamal Agmy, Pallav Shah

Comparing CT-based fissure completeness scores across software packages to predict interlobar collateral ventilation
Iwein Gyselinck (Leuven, Belgium), Pieter Hoeben, Hannelore Geysen, Frederik De Keyzer, Christophe Dooms, Dirk Van Raemdonck, Geert Verleden, Laurens Ceulemans, Wim Janssens, Johan Coolen

Correlation between radiological scores and respiratory function in patients with bronchiectasis
Soumaya Debiche (Le Kram, Tunisia), Snène Houda, Guemri Malika, Blibech Hana, Daoud Sirine, Kaabi Line, Daghfous Jalloul, Leila Ben Farhat, Mehri Nadia, Nozha Ben Salah, Bechir Louzir

Quantifying morphological airway damage in idiopathic pulmonary fibrosis
Ashkan Pakzad (London, United Kingdom), Wing Keung Cheung, Kin Quan, Nesrin Mogulkoc, Coline H.M. Van Moorsel, Brian J. Bartholmai, Hendrik W. Van Es, Alper Ezircan, Frouke Van Beek, Marcel Veltkamp, Ronald Karwoski, Tobias Peikert, Ryan D Clay, Finbar Foley, Cassandra Braun, Recep Savas, Carole Sudre, Tom Doel, Daniel C. Alexander, Peter Wijeratne, David Hawkes, Yipeng Hu, John R Hurst, Joseph Jacob

(Early) Economic Evaluation of the AI-based software "icolung" for the detection and prognosis of COVID cases from CT scans
Benoit Ernst (Liège, Belgium), Giovanni Esposito, Julien Guiot, Renaud Louis, Paul Meunier, Philippe Kolh

TP-11 Session 08:30 - 09:30
Thematic poster: Allergy and asthma: biomarkers, phenotypes and real-world evidence
Disease(s) : Airway diseases
Method(s) : Pulmonary function testing Epidemiology Cell and molecular biology General respiratory patient care Public health
Chairs : Christina Bal (Wien, Austria), Marek Lommatzsch (Rostock, Germany)

Bronchodilator reversibility in patients with severe asthma included in the GAN registry.
Katrin Milger-Kneidinger (Munich, Germany), Dirk Skowasch, Eckhard Hamelmann, Carlo Mümmler, Marco Idzko, Christian Taube, Annette Holdtirk, Hartmut Timmerman, Roland Buhl, Stephanie Korn

Interrelationships between body mass index, total IgE, and blood eosinophils count in healthy subjects
Rita Amaral (Porto, Portugal), Tiago Jacinto, Andrei Malinovschi, Christen Janson, David Price, João Fonseca, Kjell Alving

Bronchiectasis in severe asthma is associated with eosinophilic airway inflammation and activation
Laurits Frøssing (Copenhagen V, Denmark), Anna Von Bülow, Celeste Porsbjerg

Increase in blood eosinophil count over time and sputum IL8 are associated with FEV1 decline in asthma
Sophie Graff (Liège, Belgium), Catherine Moermans, Sara Gerday, Monique Henket, Virginie Paulus, Françoise Guissard, Renaud Louis, Florence Schleich

Type 2 biomarker expression according to age of asthma onset: an analysis of the German severe asthma registry (GAN)
Marek Lommatzsch (Rostock, Germany), Christian Taube, Eckhard Hamelmann, Katrin Milger-Kneidinger, Dirk Skowasch, Margret Jandl, Florian Simon Schmitz, Cordula Koerner-Rettberg, Marco Idzko, Roland Buhl, Stephanie Korn

The German Asthma Net: Anti-IL5(R) therapy reduces disease burden in a real-life severe asthma cohort
Christina Bal (Wien, Austria), Marco Idzko, Katrin Milger, Dirk Skowasch, Christian Schulz, Christian Taube, Eckard Hamelmann, Roland Buhl, Stephanie Korn

FeNO is not affected by spirometry, IOS or walking in healthy subjects or well controlled asthma patients
Helle Haagensen Andersen (Brabrand, Denmark), Lene Mølgaard Pedersen, Malu Mousa, Niha Mousa, Anne-Sofie Bjerrum, Tina Skjold, Torben Smidt-Hansen, Hans Jürgen Hoffmann, Johannes Martin Schmid

Association between Staphylococcal Enterotoxin (SE)-specific IgE and specific IgE for house dust mites (HDM) in Brazilian patients with Chronic Rhinosinusitis with Nasal Polyps (CRSwNP)
Sergio Dortas Junior (Rio De Janeiro (RJ), Brazil), Priscilla Campos Dos Santos, José Elabras Filho, Fabiana Da Cruz, Solange Valle, Priscilla Ferraiolo
Application of urinary proteomics for biomarker discovery in respiratory diseases
Laura Martelo-Vidal (santiago de compostela, Spain), Sara Vázquez-Mera, Pablo Miguéns-Suárez, Francisco Javier Salgado-Castro, Marina Blanco-Aparicio, Mar Mosteiro-Añón, Gabriel Martínez-Capoccioni, Paula Méndez-Brea, Susana Belén Bravo, Francisco-Javier González-Barcala, Juan José Nieto-Fontarigo

Overall response to anti-IL5/anti-IL5R treatment in severe asthma does not depend on initial bronchodilator responsiveness
Carlo Mümmler (München, Germany), Hendrik Suhling, Nikolaus Kneidinger, Roland Buhl, Moritz Kayser, Nora Drick, Jürgen Behr, Tobias Welte, Stephanie Korn, Katrin Milger

Factors associated with middle-aged adult obstructive lung function deficits in the grass pollen season
Sabrina Idrose (Australia, Australia), Don Vicendese, Michael Abramson, E. Haydn Walters, Garun Hamilton, Adrian Lowe, Jo Douglass, Caroline Lodge, Shyamali Dharmage

Polygenic risk score constituted by GWAS-identified disease markers helps predict asthma development
Yang Yie Sio (Singapore, Singapore), Fook Tim Chew

The epidemiology of sensitization to perennial aeroallergens in adult patients with severe asthma in Belgium. The Belgian IgE (BEIgE) study
Florence Schleich (Liège, Belgium), Sandra Gurdain, Eleonore Maury, Jan Van Schoor

ICS-LABA prescribing in asthma (maintenance only and MART), clinical and symptom unmet need in Japan
Shiyuan Zhang (Collegeville, United States), Alexandrosz Czira, Julia Harley, Kieran J Rothnie, Lauren Lee, Mark Small

High prevalence of sensitisation to house dust mite in ethnic minority severe asthma patients
Jennifer Kerks (Telford (Shropshire), United Kingdom), Julie Marsh, Ali Bahron, Thirumala Krishna, Gareth Walters, Fiona O'Riordan, Lisa White, Julie Sullivan, Adel Mansur

Asthma comorbidities: frequency, risk factors, and associated burden in children and adolescents
Giovanni Viegi (Pisa (PI), Italy), Salvatore Fasola, Giovanna Cilluffo, Velia Malizia, Laura Montalbano, Amelia Licari, Giuliana Ferrante, Stefania La Grutta

A comprehensive analysis of the components of the common weed pollens and related allergens in patients with allergic diseases in southern China
Wenting Luo (Guangzhou (Guangdong), China), Baoqing Sun

The impact of national lockdown in 2020 on admission rates for exacerbations in asthma; a nationwide cohort study.
Louise Toennesen (København K, Denmark), Barbara Bonnesen, Pradeesh Sivapalan, Alexander Svorre Jordan, Mohamad Isam Saeed, Josefín Eklöf, Charlotte Suppli Ulrik, Kristoffer Grundtvig Skaarup, Mats Christian Højberg Lassen, Tor Biering-Sørensen, Jens-Ulrik Stehr Jensen

International perspectives on outcome measurement in pulmonary rehabilitation of COPD
Sara Souto-Miranda (Aveiro, Portugal), Anouk W. Vaes, Rainer Gloeckl, Anita Grongstad, Martijn A. Spruit, Alda Marques

Contribution of muscular retraining in a post-COVID-19 exercise rehabilitation program
Khadija Ayed (Nabeul, Tunisia), Islam Mejri, Rihab Alouane, Zied Moatemri

Modified six-minutes walking test in children with medical complexity and chronic lung disease.
Gregory Villarroel Silva (Santiago, Chile), Paula Vera Tapia, Barabara Moya Torres, Maria José Miranda, Gonzalo Moscoso Altamira, Macarena Faúndez Silva, Ignacio Oyarzún Aguirre

Longitudinal change in Ultrasound derived Rectus Femoris cross sectional area (RFCSA) in patients with COPD
Timothy Jenkins (London, United Kingdom), Suhani Patel, Jane Canavan, Samantha Kon, Sarah Jones, Ruth Barker, Hannah Littlemore, Jennifer Harvey, Claire Nolan, William Man

TP-2 Session 08:30 - 09:30

Thematic poster: Methods and innovation in pulmonary rehabilitation

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

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

Chairs: İpek Çay, Candemir (Ankara, Turkey), Matthew Armstrong (Bournemouth, United Kingdom)

International perspectives on outcome measurement in pulmonary rehabilitation of COPD
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Timothy Jenkins (London, United Kingdom), Suhani Patel, Jane Canavan, Samantha Kon, Sarah Jones, Ruth Barker, Hannah Littlemore, Jennifer Harvey, Claire Nolan, William Man
The minimal important difference (MID) of the five-repetition sit to stand test (5STS) in IPF
Puja Trivedi (Middlesex, United Kingdom), Oliver Polgar, Suhani Patel, Ruth Barker, William Man, Claire Nolan

Subjective experience of eccentric and one-legged cycling in COPD
Thomas Ward (Leicester, United Kingdom), Martin Lindley, Charlotte Bolton, Rachael Evans, Michael Steiner

Non-invasive ventilation (NIV) during exercise training in people with COPD and chronic hypercapnic respiratory failure (CHRF) - a randomized controlled trial
Tessa Schneeberger (Schönau am Königsee, Germany), Antje Stegemann, Daniela Leitl, Inga Jarosch, Rainer Gloeckl, Maximilian Leidinger, Wolfgang Hitzl, Clancy Dennis, Klaus Kenn, Andreas Rembert Koczulla

Impact of cognitive capacity on physical performance in chronic obstructive pulmonary disease (COPD) patients: a scoping review
Peter Rassam (Woodbridge, Canada), Eli Maria Pazzianotto-Forti, Umi Matsumura, Antenor Rodrigues, Dmitry Rozenberg, W Darlene Reid

Greater walking distance during acute intermittent, compared to the same ground speed, endurance shuttle protocol in COPD: an interim analysis
Charikleia Alexiou (Newcastle Upon Tyne, United Kingdom), Dimitrios Megaritis, Emily Hume, Francesca Chambers, Lynsey Wakeshaw, Laura Mecellie, Carlos Echevarria, Ioannis Vogiatzis

Experiences of singing for people with chronic respiratory diseases: qualitative meta-synthesis
Natasha Smallwood (Melbourne (VIC), Australia), Lena Ly, Jennifer Philip, Peter Hudson

Respiratory Muscle Training Can Improve Cognitive, Lung Function, and Diaphragmatic Performance in Patients with Chronic Obstructive Pulmonary Disease: A Randomized Controlled Trial
Pin-Kuei Fu (Taichung, Taiwan), Yuan-Yang Cheng

Effects of inspiratory muscle training in patients with chronic obstructive pulmonary disease after stratification by the degree of static hyperinflation
Maurice J.H. Sillen (Horn, Netherlands), Anouk W. Vaes, Miriam T.J. Groenen, Frits M.E. Franssen, Martijn A. Spruit

Exploring the impact of comorbidities in individuals after a Covid hospital admission or community infection in those referred to a rehabilitation programme
Nikki Gardiner (Leicester, United Kingdom), Emma Chaplin, Sarah Ward, Enya Daynes, Molly Baldwin, Sally Singh

Validation of the one minute sit to stand test (1MSTS) for identification of exertional oxygen desaturation in chronic respiratory disease
Jennifer Harvey (Uxbridge, United Kingdom), Suhani Patel, Hannah Littlemore, Timothy Jenkins, Claire Nolan, William Man

Effect of hybrid rehabilitation on exercise tolerance in patients with long COVID-19 syndrome: an interim analysis
ANGELOS VONTETSIANOS (ATHENS, Greece), Nikolaos Chynkiamis, Christina Anagnostopoulou, Evaggelia Koukaki, Eleni Stagaki, Ioannis Vogiatzis, Antonia Koutsoukou, Nikolas Koulouris

Impact of nasal high-flow on exercise capacity and dyspnea in severe/very severe COPD.
Tristan Bonnevie (Saint Léger Du Bourg Denis, France), Francis-Edouard Gravier, Pauline Smondack, Helena Brunel, Yann Combret, Guillaume Prieur, Clément Mêdrinal, Fairuz Boujibar, Jean-François Muir, Antoine Cuvelier, Maxime Patout

Benefits of Whole Body Vibration Training in Patients with COPD Exacerbations
Fanying Yu (Changchun, China), Hongjing Lin, Qinglin Li, Xiuyun Jia, Ting Yu, Jiahui Ma, Zeyu Qin, Wenlong Liu

The obstacles to expectorating sputum in cystic fibrosis (CF) patients
Ivana Arnaudova Danevska (Skopje, North Macedonia), Tatjana Jakovska, Ani Vidoevska, Sonja Momchilovikj, Elena Gjinovska Tasevska, Gorica Popova, Dimitar Arnaudov, Katerina Boshkovska

Late Breaking Abstract - PCCM standardized management reduces mortality in asthma, COPD and ACO patients with exacerbation history in Tianjin, China
Ting Yang (Beijing, China), Ke Huang, Xiaoyun Zhao, Yuechuan Li

DECANNUATION AFTER COVID-19 ARDS: ARE THERE DIFFERENCES BETWEEN REHABILITATION AND RESPIRATORY WARDS?
Cinzia Lastoria (, Italy), Francesca Cemmi, Abramo Bazzà, Manuela Bergonzi, Roberta Marra, Federica Fioretto, Matteo Vigna, Chiara Mele, Annalisa Carlucci

Thematic poster: Factors associated with lung function and prevalence of respiratory diseases
Disease(s): Airway diseases, Interstitial lung diseases
Method(s): Epidemiology, Public health, Pulmonary function testing, General respiratory patient care
### Chairs:
elisa lopez varela (Barcelona, Spain), Jose Leonidas Alves Junior (São Paulo (SP), Brazil)

### Period and cohort effects: consequences on lung function in Norway during the 20th century
Lucia Cestelli (Bergen, Norway), Ane Johannessen, Knut Stavem, Amund Gulsvik, Rune Nielsen

### Associations between breast feeding and lung function in middle age
Dinh Bui (Melbourne (VIC), Australia), Jennifer Ferret, Caroline Lodge, Adrian Lowe, Gayan Bowatte, Erbas Bircan, Alan James, Michael Abramson, Garun Hamilton, Haydn Walters, Shyamali Dharmage

### Supranormal lung function by age bins in the LEAD Study
Caspar Schiffers (Vienna, Austria), Rosa Faner, Alina Ofenheimer, Patricia Puchhammer, Marie-Kathrin Breyer, Otto Chris Burghuber, Sylvia Hartl, Alvar Agusti, Robab Breyer-Kohansal

### Cardiovascular disease linked plasma proteins relate mainly to lung volumes
Andreas Rydell (FALUN, Sweden), Elisabeth Nerpin, Xing Wu Zhou, Lars Lind, Eva Lindberg, Jenny Theorell Haglöw, Tove Fall, Christer Janson, Karin Lisspers, Sölve Elmståhl, Suneela Zaigham, Olle Melander, Peter Nilsson, Marju Orhun-Melander, Johan Arnlöv, Andrei Malinovschi

### Associations of black carbon with lung function in COPD patients
Ornella Salimbene (Buccino, Italy), Ivano Salimbene, Maria Chiara Zanetti, Marco Ravina, Deborah Panepinto

### Respiratory function in patients post-infection by COVID-19
Sabrine Majdoub Fehri (Nabeul, Tunisia), WAFA MADI, Imen Ketata, Ahmed Dhia Eleuch, Racem Ammar, Rahma Sallami, Hamida Kassw

### BMI increase – A determinant of FEV1 decline for overweight and obese adults with asthma
Nicolas Bermudez Barón (Luleå, Sweden), Hannu Kankaanranta, Linnea Hedman, Martin Andersson, Caroline Stridsman, Anne Lindberg, Eva Rönmark, Helena Backman

### Changes in COPD prevalence in Madrid from 2007 to 2017
Elena Garcia Castillo (Madrid, Spain), Tamara Alonso Pérez, Jose Maria Eiros Bachiller, Adrián Peláez Laderas, Patricia Pérez González, Elena Avalos Pérez-Urría, Elisa Martinez Besteiro, Joan B. Soriano, Julio Ancochea

### Incidence, prevalence and regional distribution of systemic sclerosis and associated interstitial lung disease: a nationwide cohort study
Malene Knarbørg (Ry, Denmark), Charlotte Hyldgaard, Elisabeth Bendstrup, Jesper Rømhild Davidsen, Anders Løkke, Sahe Burhan Shaker, Ole Hilberg

### Prevalence of respiratory viruses in COPD exacerbations: A meta-analysis
Alexander Mathioudakis (Stockport, United Kingdom), Anastasia Kefala, Gioulinta Alimani, Victoria Chatzimavridou-Grigoriadou, Nikolaos Papadopoulos, Apostolos Beloukas, Jørgen Vestbo

### Among both men and women with COPD ever-smokers have higher disease burden and worse prognosis than never-smokers
Ann Lindberg (Boden, Sweden), Erika Szakacs, Caroline Stridsman, Sami Sawalha, Ulf Nilsson, Linnea Hedman, Eva Rönmark, Helena Backman

### A descriptive cross-sectional study on prevalence of respiratory diseases among patients visiting Jiri District Hospital, Nepal.
Kiran Paudel (Kathmandu, Nepal), Tara Ballav Adhikari, Durga Rijal, Bhoj Raj Kalauni, Biplav Aryan, Rajan Paudel, Milan Gaihre, Surya Devkota

### Prevalence of and factors associated with respiratory symptoms among patients with inflammatory bowel disease: a prospective study
Brian Renel (Kockelscheuer, Luxembourg), Simon Valentin, Florian Manneville, Bénédicte Caron, Myriam Choukour, Anne Guillaumot, Ari Chaouat, Mathias Poussel, Thomas Chateau, Carina Peyrin-Biroulet, Hamza Achit, Laurent Peyrin-Biroulet, François Chabot

### Comparative study of smoking and non-smoking chronic obstructive pulmonary disease.
Ankita Mandal (Lucknow, India), Ajay Kumar Verma, Anuj Kumar Pandey, Arpita Singh, Surya Kant, Ved Prakash, Rakesh Kumar Dixit, Umesh Pratap Singh, Shyam Chand Chaudhari

### Trends in burden of COPD in Saudi Arabia
Jaber Alqahtani (Dammam, Saudi Arabia)

### Prevalence of respiratory viruses in stable COPD: A meta-analysis
Alexander Mathioudakis (Stockport, United Kingdom), Anastasia Kefala, Gioulinta Alimani, Victoria Chatzimavridou-Grigoriadou, Nikolaos Papadopoulos, Apostolos Beloukas, Jørgen Vestbo

### The disease burden and quality of life of chronic cough patients in South Korea and Taiwan
Woo-Jung Song (Seoul, Republic of Korea), Chong-Jen Yu, Sukhyun Kang
PERSISTING SYMPTOMS IN A COHORT OF 1966 SUBJECTS WITH SARS-COV-2 INFECTION: 1 YEAR FOLLOW-UP
Maria Cinta Cumpli Gargallo (Amposta, Spain), Oswaldo Antonio Caguana Vélez, Merce Comas serrano, Margarita Posso Rivera, Xavier Duran Jordà, Eva Balcells Vilarnau, Mireia Admetllo Papiol, Anna Herranz Blasco, Judith Villar Garcia, Diana Badenes Bonet

Burden of chronic respiratory diseases in population in four South/South-East Asian low-and middle-income countries (LMICs).
Dhiraj Agarwal (Pune (Maharashtra), India), Nik Sherina Hanafi, Ee Ming Khoo, Richard A. Parker, Deesha Ghorpade, Sundeep Salvi, Ahmad Ihsan Abu Bakar, Karuthan Chinna, Deepa Das, Monsur Habib, Norita Hussein, Rita Isaac, Mohammad Shahidul Islam, Mohsin Saeed Khan, Su May Liew, Yong Kek Pang, Biswajit Paul, Samir K Saha, Li Ping Wong, Osman M Yusuf, Shahida O Yusuf, Sanjay Juvekar, Hilary Pinnock

Epidemiology and healthcare impact of IPF in Ontario from 2013-17.
Shannon Tang (Kingston, Canada), Onofre Morán-Mendoza, Shahriar Khan, Ana Johnson

TP-13 Session 08:30 - 09:30

Thematic poster: Occupational chronic airway, interstitial, pleural and neoplastic diseases

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

Chairs: Benoît Nemery (Leuven, Belgium)

Immunopathological mechanisms of bird-related hypersensitivity pneumonitis in an acute and chronic murine model
Silvia Sánchez-Díez (Barcelona, Spain), Miquel De Homdedeu, María Jesús Cruz, Iñigo Ojanguren, Christian Romero Mesones, David Soler, Xavier Muñoz

A smoking human lung-on-chip to study COPD and cancer
Arumina Sengupta (Bern, Switzerland), Aurélien Dorn, Nuria Roldan, Janick Stucki, Tobias Krebs, Oliver Wisser, Nina Hobi, Olivier.T. Guenat

Mortality in association with occupational exposure and respiratory diagnosis in Helsinki, Finland – a 24-year follow-up
Juuso Jalasto (Helsinki, Finland), Paula Kauppi, Ritva Luukkonen, Ari Lindqvist, Arnulf Langhammer, Hannu Kankaanranta, Helena Backman, Eva Rönnmark, Anssi Sovijärvi, Päivi Piirilä

COPD in a sample of retired persons from Skopje region
Sasho Stoleski (Skopje, North Macedonia), Jordan Minov, Dragan Mijakoski, Aneta Atanasovska, Dragana Bislomvskva, Jovanka Karadžinska-Bislomvskva

Cardiopulmonary function in women exposed to biomass fuel smoke: Cross-sectional study in rural Maharashtra, India
Rohan Shah (Pune, India), Aboli Bhalerao, Dhiraj Agarwal, Nitin Vanjare, Sanjay Juvekar

Asthma and respiratory symptoms as related to traditional textile industry in Guatemala: a cross-sectional pilot study in Mayan communities
Juan Pablo López-Cervantes (Bergen, Norway), Shokouh Makvandi-Nejad, Fernando Jerez, Ana Lorena Ruano, Cecílie Svanes

Fitness to work and quality of life after pulmonary emphysema surgery
Imene MAGROUN (Ariana, Tunisia), Soumaya Chebbi, Faten Mhir, Latifa Ben Afia, Dorra Zarati, Adel Merghali, Sarra Zairi

Respiratory health in artisanal copper-cobalt miners in DR Congo
Joseph PYANA KITENGTE (Lubumbashi, Democratic Republic of the Congo), Paul Musa Obadia, Trésor Carsi Kuhangana, André Nyongoni, Celestin Banza Lubaba, Jean-Marie Kayembe Ntumba, Antoine Froidure, Benoît Nemery

Mixed dust pneumoconiosis in flour mill workers
Anita Anokar (Pune (Maharashtra), India), Himanshu Pophale, Divya Patel, Ram Deoskar, Medha Bargaje

Modelling silica-induced immune response in silica exposed patients
Nirosha Ganesan (Leuven, Belgium), Steven Ronsmans, Peter Hoet

Evaluation of oxidative stress parameters and genotoxic effects in patients with work-related asthma and silicosis
Özlem Kar Kurt (ZEYTINBURNU, Turkey), Dilek Ergun, Hatrice Gul Anlar, Merve Hazer, Sevtap Aydn Dilsiz, Mevlut Karatas, Ayse Nursen Basaran
Hypoxemia and radon exposure during underground work in artisanal cobalt mines
Paul Musa Obadia (Lubumbashi, Democratic Republic of the Congo), Joseph Pyana Kitenge, Trésor Carsi Kuhangana, Tony Kayembe Kitenge, André Ndala Nyongonyi, Patrick De Marie Katoto, Boris Dehandschutter, Célestin Banza Lubaba Nkulu, Benoit Nemery

A comparison of the EQ-5D-5L and the AQoL-8D in people living with idiopathic pulmonary fibrosis
Ingrid A. Cox (Bellerive (TAS), Australia), Julie Campbell, Barbara De Graaff, Petr Otahal, Tamera Corte, Yuben Moodley, Peter Hopkins, Sacha Macansh, Haydn Walters, Andrew Palmer

Behavior and effect of nanoparticles on neutrophil recruitment in the pulmonary microcirculation
Chenxi Li (munich, Germany), Qiongliang Liu, Tobias Stoeger, Markus Rehberg

Occupational Pulmonary Fibrosis
Ons Grissa (Tunis, Tunisia), Slim Ernez, Saloua Ismail, Nihel Khouja, Amani Dallagi, Aida Benzarti, Jihen Hsinet, Abdelmajid Ben Jemaa

Occupational Exposures associated with Pulmonary Sarcoidosis: A Systematic Review and Meta-analysis
Christopher C. Huntley (Bromsgrove, United Kingdom), Ketan Patel, Aishah Mughal, Shirley Coelho, P. Sherwood Burge, Alice M. Turner, Gareth I. Walters

Outbreak of silicosis in workers producing silica-based composite skirting boards
Steven Ronsmans (Leuven, Belgium), Pieter Goeminne, Naïm Jerjir, Vicky Nowé, Eline Vandebroek, Stephan Keirsbilck, Birgit Weynand, Peter H M Hoet, Jeroen A J Vanoirbeek, Wim A Wuys, Jonas Yserbyt, Benoit Nemery

Late Breaking Abstract - A major outbreak of artificial stone silicosis in Australia: Results from the Victorian Silica-associated Disease Registry
Ryan Hoy (Melbourne (VIC), Australia), Deborah Glass, Dimitriadis Christina, Stelamay Gwini, Fiona Hore-Lacy, Michael Abramson, Karen Walker-Bone, Malcolm Sim

Late Breaking Abstract - Effects of face masks on cardiopulmonary performance in a partly double-blinded randomized cross-over study
Eike Marek (Bochum, Germany), Vera Van Kampen, Birger Jettkant, Kirsten Sucker, Melanie Ulbrich, Anja Deckert, Hans Berresheim, Christian Eisenhawer, Frank Hoffmeyer, Simon Weidhaas, Thomas Behrens, Thomas Brüning, Jürgen Bünger

Late Breaking Abstract - Influence of different face masks on the subjective impairment at different physical workloads
Vera van Kampen (Bochum, Germany), Eike Marek, Birger Jettkant, Kirsten Sucker, Benjamin Kendzia, Anja Deckert, Melanie Ulbrich, Hans Berresheim, Frank Hoffmeyer, Simon Weidhaas, Christian Eisenhawer, Thomas Bruening, Juergen Buenger

GLPG1205 shows reduction in lung volume decline over 26 weeks vs placebo when measured with novel volumetric CT analysis in IPF patients
muhunthan thillai (CAMBRIDGE, United Kingdom), Kiril Kirov, Eva Santermans, Michael Roberts, Philip Molyneaux, Fahdi Kanavati, Darren Gallagher, Angela De Haas-Amatsaleh, Tom Van Der Aa, Paul Ford, Christian Seemayer, Bernt Van Den Blink, Alessandro Ruggiero

GALACTIC-1: Galectin-3 inhibition in idiopathic pulmonary fibrosis (IPF) – rationale, objectives and design of a 52-week, Phase IIb study of GB0139
Toby Maher (Los Angeles, United States), Marlies Wijsenbeek, Nikhil Hirani, Bertil Lindmark, De Phung, Alison Mac Kinnon, Tariq Sethi, Vassilios Aslanis, Catherine Mc Clinton, Elin Andersen, Hans Schambye, Jie Wang-Jairaj

A phase 2b randomized trial to evaluate LYT-100 in patients with idiopathic pulmonary fibrosis (IPF)
Paul Ford (Hurstpierpoint (W. Sussex), United Kingdom), Vincent Cottin, Kevin Flaherty, Toby Maher, Paul Noble, Marlies Wijsenbeek, Michael Chen, Eric Elenko, Liza Micioni, Heather Paden, Mark Harnett, Julie Krop

Study Design and Rationale for the TETON Phase 3 Clinical Trials of Inhaled Treprostinil in the Treatment of Idiopathic Pulmonary Fibrosis
Steven D Nathan (Falls Church, United States), Jürgen Behr, Vincent Cottin, Lisa Lancaster, Peter Smith, Cq Deng, Natalie Pearce, Heidi Bell, Leigh Peterson, Kevin Flaherty
Continued nintedanib treatment in patients with progressive fibrosing ILDs: interim analysis of INBUILD-ON
Wim A Wuyts (Leuven, Belgium), Francesco Bonella, Nazia Chaudhuri, Francesco Varone, Danielle Antin-Ozerkis, Heiko Mueller, Carl Coeck, Klaus B Rohr, Vincent Cottin

Efficacy of pirfenidone in patients with advanced IPF
Juergen Behr (München, Germany), Wim Wuyts, Harold Haller Jr, Katerina Samara, Klaus-Uwe Kirchgässler, Frank Gilberg, Steven D Nathan

Nebulization performance and lung biodistribution profile of PRS-220, an inhaled CTGF antagonist for the treatment of IPF
Vanessa Neiens (Hallbergmoos, Germany), Marina Pavlidou, Claudia Wurzenberger, Thomas Jaquin, Eva-Maria Hansbauer, Antonio Konstiotis, Josefine Morgenstern, Cornelia Wurzenberger, Matthias Hagner, Casper Gravensen Salinas, Ursma Roostalu, Gabriele Matschner, Shane Olwill

Combination antifibrotic therapy in Idiopathic Pulmonary Fibrosis patients: real life experience in an ILD Unit.
Elisa Martinez Besteiro (Madrid, Spain), Maria José Beceiro, María Churruca Arróspide, Daniel Mouhtar, Adrián Peláez, Tamara Alonso, Julio Ancochea, Claudia Valenzuela

Interstitial lung disease with pulmonary hypertension and the potential for inhaled Treprostinil: A single centre perspective
Sheila Ramjug (Altrincham, United Kingdom), Conal Hayton, Pilar Rivera-Ortega, Colm Leonard, Helen Morris, Katie Zakis, Jenna Swale, Theresa Garfoot, Kate Newman, Cristina Avram, John Blaikley, Nazia Chaudhuri

Effects of a twelve-week course of azithromycin on respiratory microbiota in idiopathic pulmonary fibrosis
Pieter-Jan Gigs (Lutry, Switzerland), Cecile Daccord, Eric Bernasconi, Martin Brutsche, Christian Clarenbach, Sabina Guler, Katrin Hostettler, Manuela Funke-Chambour, Christophe Von Garnier

Drug-drug interactions and safety assessment between selective Prolyl-tRNA Synthetase inhibitor, DWN12088, and “pirfenidone” or “nintedanib” in healthy subjects
Min Young Park (Seoul, Republic of Korea), Jihyeon Kim, Jun Hee Nam, Jongwon Choi, Wonsuk Shin, Hyonggyoon Yoo, Anhye Kim

Comparative analysis of fibroblastic foci in patients with idiopathic pulmonary fibrosis and pulmonary sarcoidosis
Jan-Christopher Kamp (Hanover, Germany), Lavinia Neubert, Helge Stark, Jan B. Hinrichs, Caja Boekhoff, Allison D. Seidel, Fabio Ius, Axel Haverich, Jens Gottlieb, Tobias Welte, Peter Braubach, Florian Laenger, Marius M. Hoeper, Mark P. Kuehnel, Danny D. Jonigk

INV-101, a cannabinoid receptor-1 inverse agonist, reduces fibrosis in a bleomycin mouse model of IPF
Glenn D. Crater (Raleigh, United States), Genevieve Gaucher, Michael Harvey, Francois Ravenelle

Changes in Serum Metabolomics in Idiopathic Pulmonary Fibrosis and effect of approved antifibrotic medication
Benjamin Seeliger (Hanover, Germany), Alfonso Carleo, Pedro David Wendel-Garcia, Jan Fuge, Ana Worboys, Sven Schuchardt, Maria Molina-Molina, Antje Prasse

Harnessing the therapeutic power of secretomes to treat IPF
Michael Timaner (Jerusalem, Israel), Tali Fishman-Jacob, Barak Pertzov, Boaz Tadmor, Jason Laufer, Mordechai Kramer, Yuval Shaked

Does hypoxia drive alveolar macrophages to potentiate fibrosis in idiopathic pulmonary fibrosis?
Lauren Davis (Birmingham, United Kingdom), Louise Crowley, Ellen Jenkins, Dhruv Parekh, Elizabeth Sapey, David Thickett, Aaron Scott

Late Breaking Abstract - Patients with a genomic classifier result positive for UIP show a greater decline in lung function when treated with combination immunosuppressive therapy
Athol Wells (London, United Kingdom), Chris Ryerson, Lisa Lancaster, Marla Johnson, Jing Huang, Jeremy Burbanks-Ivey, Eric Morrie, Lori Lofaro, William Bulman, Giulia Kennedy, Ganesh Raghu, Mary Beth Scholand

Late Breaking Abstract - The effect of antifibrotics in patients with different forms of pulmonary fibrosis: data from the Dutch PF registry
Aernoud van Batenburg (Nieuwegein, Netherlands), Gizal Nakshbandi, Catharina Moor, Marlies Wijsenbeek, Jan Grutters

Late Breaking Abstract - National data on prevalence of idiopathic pulmonary fibrosis and antifibrotic drug use in Finnish specialised care
Johanna Salonen (Oulu, Finland), Minna Purokivi, Ulla Hodgson, Riitta Kaarteenaho
Identification and validation of prognostic models of critical COVID-19 at hospital admission
Gabriela Cárdenas-Fuentes (Barcelona, Spain), Magda Bosch De Basea , Inés Cobo, Mario Ceresa , Ernest Famada , Elena Gimeno-Santos , Laura Delgado-Ortíz, Rosa Faner , Maria Molina, Alvar Agustí , Xavier Muñoz, Oriol Sibila , Joaquim Gea, Judith García-Aymerich

Relevance of IFNAR2 variants in the mortality of patients with severe COVID-19
Ingrid Fricke-Galindo (Mexico City, Mexico), Alfonso Martínez-Morales, Gloria Pérez-Rubio, Ivette Buendia-Roldán, Leslie Chávez-Galán, Rafael De Jesus Hernández-Zenteno, Iris Paola Guzmán-Guzmán, Ramcés Falfán-Valencia

MORTALITY PREDICTORS IN COVID-19 PNEUMONIA: RESULTS OF LARGE ROC-ANALYSIS
Yuliia Huba (Dnipropetrovsk, Ukraine), Kseniia Bielosludtseva, Lyudmyla Konopkina, Tetyana Pertseva

Hospital admissions in patients with COPD before and during the COVID-19 pandemic
Niklas Andreen (Göteborg, Sweden), Johan Westin, Lowie Vanfleteren

Prognostic factors in hospitalized community-acquired pneumonia
Sabrine Majdoub Fehri (Nabeul, Tunisia), Rahma Sellami, Imen Ketata, Wafa Madi, Racem Ammar, Hamida Kwass

Mortality of hospitalized COVID-19 patients that were residents of nursing homes
Galateia Verykokou (Athens, Greece), Vassiliki Apollonatou, Andriana Papaioannou, Anastasios Vogiatzoglou, Konstantinos Roukas, Diamantis Chloros, Christos Kyriakopoulos, Christos Chronis, Christina Aggelopoulou, Deniz Gundogdu, Pinelopi Schoini, Dimitra Kavatha, Effrosyni Manali, Spyros Papiris, George Tsoukalas, Konstantinos Kostikas, Evangelia Fouka, Dimitrios Boumpas, Stelios Loukides

Risk factors for long term hospitalization in patients with COVID19
Sabrine Majdoub Fehri (Nabeul, Tunisia), Imen Ketata, Wafa Madi, Rahma Sellami, Hamida Kwass

IMPACT SHORT-TERM EXPOSURE OF AIR POLLUTION ON COVID-19 OUTCOME.
Elien De Waele (Sint-Niklaas, Belgium), Stijn Vos, Dries Martens, Esmée Bijnen, Geert Mestiaen, Geert Dewyspelaere, Tim Nawrot, Pieter Goeminne

what relationship between eosinophilia and covid19 prognosis?
Imen ketata (Gabes, Tunisia), Sabrine Majdoub Fehri, Wafa Madi, Rahma Sellami, Hamida Kwass

Elevated serum levels of soluble ST2 in severe COVID-19: as a potential biomarker for invasive mechanical ventilation
Hideki Inoue (Tokyo, Japan), Yosuke Fukuda, Shin Ohta, Tetsuya Homma, Kaoru Mochizuki, Hitoshi Ikeda, Takaya Ebato, Hatsuko Mikuni, Tomoko Okazaki, Tomoki Uno, Yoshitaka Uchida, Tomoyuki Kimura, Yoshito Miyata, Kuniaki Hirai, Sojiro Kusumoto, Shintaro Suzuki, Akihiko Tanaka, Hironori Sagara

Vitamin D deficiency is not related to adverse COVID-19 outcomes
Balamugesh Thangakunam (Vellore (Tamil Nadu), India), Barney Isaac, Flavita John, Rajasekar Sekar, Prasanna Samuel, Deepa Shankar, Devasahayam John, Christopher

Prognostic implications of comorbidity patterns in critically ill COVID-19 patients.
Jordi De Batlle Garcia (Lleida, Spain), Iván D Benítez, Gerard Torres, Jessica González, David De Gonzalo-Calvo, Adriano DS Targa, Antoni Torres, Ferran Barré

COVID-19 in Ventilated Elderly Patients: Data from 52 Intensive Care Units in Spain
Catia Cilloniz Campos (Barcelona, Spain), Anna Motos, Albert Gabarrus, Juan Manuel Pericas, Laia Fernandez, Tatiana Guadalupe Castañeda, Andrea Palomeque, Adrian Cecato, Antoni Torres

Endocrine, metabolic and hepatic dysfunction in patients with COVID-19 pneumonia with severe and critically ill status
Ahmed Elesdoudy (Menouf (el menoufia), Egypt)

Overweight, obesity and COVID19 pneumonia in a real life clinical setting; Does size really matter?
ANTONIS XIPOLITOS (ATHENS, Greece), Elli Keramida, Elena Bellou, Thodoris Daskalos, Ioannis Karampinis, Panagiotis Demertzis, Georgios Hardavella

Retrospective evaluation of high dose systemic steroids therapy on mortality of hospitalized COVID pneumonia patients
Vratislav Sedláček (Hradec Králové 9, Czech Republic), Vladimír Koblížek, Michal Kopecký, Ivo Jarolímek, Martin Sedláček
Predictive factors of mortality in hospitalized patients with 2019 novel coronavirus pneumonia.
Nouha Boubaker (Nabeul, Tunisia), Sabrine Louhaichi, Besma Hamdi, Jamel Ammar, Agnès Hamzaoui

Back to basics: complete blood count parameters and the neutrophil-to-lymphocyte ratio as prognostic factors in hospitalized patients with COVID-19
Marija Topalovic (Nis, Republic of Serbia), Borislav Bozanic, Tatjana Pejic, Aleksandra Ignjatovic, Vuk Pejic, Desa Nastasijevic Borovac, Marko Bjelakovic, Marija Marinkovic

Is smoking a risk factor for severe outcomes in COVID-19?
Souh Abdenneji (Tunis, Tunisia), Wafa Fekih, Iheb Ben Krayen, Jamel El Ghoul

Prognosis for ICU Admission in hospitalized patients with Coronavirus diseases -19 (COVID-19)
Adamadia Liapikou (Athens, Greece), Nikos Tselonis, Eleni Dionelli, Alexandra Kote, Aggeliki Sotiropoulou, Panagiotis Peristeris, Ioanna Augerinou, Ioannis Dimitroulis

Symptom profile in obese COPD (Chronic Obstructive Pulmonary Disease) patients compared with non-obese patients: retrospective evaluation in the French overseas department of Reunion Island (period 2015-2020).
Bashir Omarjee (Saint-Denis (La Réunion), Reunion), Suren Budhan

ANXIETY SCREENING IN PATIENTS WITH COPD
Enrique Barrueco-Otero (, ), Belén Refoyo-Matellán, Tamara Clavero-Sánchez, Maria Bartol-Sánchez, Laura Gil-Pintor, Cristina Juliá-Alvarez, Vanesa Hidalgo-Sierra, Miguel Barrueco-Ferrero, Javier Perez-Rodriguez, Miguel Angel Hernandez-Mezquita

Simple clinical phenotypes as predictor of all-cause mortality in the real-life COPD cohort (post-hoc analysis of the Czech data from POPE Study)
Vladimir Koblizek (Hradec Králové, Czech Republic), Michal Svoboda, Jana Kocianova, Stanislav Holub, Vladimir Zindr

Using UK primary care electronic health records to understand diagnostic pathways for chronic breathlessness
Urvee Karsanji (Leicestershire, United Kingdom), Claire A Lawson, Jennifer K Quint, Kamlesh Khunti, Emily Petherick, Michael C Steiner, Rachael A Evans

Is CPAP Therapy improving the Cardiovascular Outcome in Patients with Obstructive Sleep Apnea?
Anca Diana Maierean (, ), Damiana Maria Vulturar, Ioana Maria Chetan, Doina Adina Todea

Sleep-tracking device compared to polysomnography for respiratory events and sleep architecture analysis
Maria De Los Angeles Zambrano Chacon (MADRID, Spain), Julia Herrero Huertas, Maria Fernanda Troncoso Acevedo, Marcel José Rodríguez Guzmán, Cristina Patricia Esteban Amarilla, Laura Núñez García, Laura De La Dueña Muñoz, Carlos López Chang, Maria Jesús Rodríguez Nieto

Subjective swallowing symptoms in COPD, a 2-year follow up
Margareta Gonzalez Lindh (Gävle, Sweden), Björn Ställberg, Maria Härdstedt, Andrei Malinovschi, Kristina Bröms, Karin Lisspers, Anders Palm, Christer Janson, Marieann Högman

The STREET (Structured Efficient E-Tracking) Project for early COPD Diagnosis and Care
Manlio Milanese (Pietra ligure (SV), Italy), Roberta Pennazio, Adriana Brusa, Giancarlo Conte, Alessandro Cavaliere, Giovanni Cavallaro, Monica Cirone

Factors associated with COPD exacerbations in emergency services
Angela Maria Giraldo Montoya (Pereira, Colombia), Giovanni García Castro

Perceptions of Australian general practitioners on e-cigarettes as a smoking cessation aid
Melis Selamoglu (Melbourne, Australia), Bircan Erbas, Hester Wilson, Jamie Brown, Chris Barton

The relationship between peak inspiratory flow rate (PIFR) and COPD severity measured as FEV1% predicted, and other lung function parameters in 33304 tests in patients at two different sites in Karolinska University Hospital in Stockholm, Sweden.
Martin Anderson (Hägersten, Sweden), Esther Sailer, Evelina Björk, Thomas Gustafsson

Informing an intervention to improve referral to Pulmonary Rehabilitation (PR) for patients with Chronic Obstructive Pulmonary Disease (COPD): A survey of primary health care practitioners.
Jane Watson (Epsom, United Kingdom), Rachel Jordan, Peymane Adeb, Sheila Greenfield
Multidisciplinary perspectives on the role of primary care in managing chronic breathlessness
Anthony Paulo Sunjaya (Sydney, Australia), Allisson Martin, Clare Arnott, Christine Jenkins

Maximizing the benefit from the Inhaler In Order to Minimize Carbon Footprint
Mark Nagel (London (ON), Canada), Cathy Doyle, Rubina Ali, Jason Suggett

To Assess Metered-dose Inhalers With Spacer Technique Among Postgraduate Trainee Doctors
Raza Ullah (peshawar, Pakistan), Tahir Iqbal , Shahida Naz

Relation of health-related quality of life and caregiver anxiety and depression in primary ciliary dyskinesia
Mina Hizal (Ankara, Turkey), Pinar Zengin Akkus, Dilber Ademhan Tural, Sanem Eryilmaz Polat, Nazgahan Emiralioglu, Elif Ozment, Sevilay Karahan, Ebru Yalcin, Deniz Dogru, Nural Kiper, Uğur Ozcelik

Carbon footprint of inhalers in respiratory treatment: SABA CARBON International
Ashraf Alzaabi (Abu Dhabi, United Arab Emirates), John Bell, Felicia Montero-Arias, David Price, David Jackson, Hao-Chien Wang, Nigel Budgen, Hisham Farouk, Ekaterina Maslova

Knowledge about practical aspects of use of inhaler devices among primary care practitioners in India
Monica Barne (Pune (Maharashtra), India), Sapna Madas, Medha Bargaje, Swati Joshi, Amit Karad, Vaishali Naik, Sundeep Salvi

Frontline health care worker delivered interventions for improving outcomes in people with chronic respiratory diseases in resource limited settings
Paul Jebraj (Vellore, India), RITA ISAAC, Biswajit Paul , Deepa Das, Hilory Pinnock, John Norrie, David Weller

Thematic poster: Lung infections in children: from COVID-19 to postinfectious bronchiolitis obliterans
Method(s): General respiratory patient care Public health Pulmonary function testing Epidemiology Cell and molecular biology
Chairs: Refiloe Masekela (Pretoria, South Africa), Mieke Boon (Wilsele, Belgium)

Respiratory functions in the follow-up of children with COVID-19 infection

Respiratory function and symptoms after acute COVID-19 infection in children and adolescents
Alicia Mitchell (Sydney, Australia), Brendan Kennedy, Brooke Bailey, Beth Weldon, Tatiana Diaz Rodriguez, Philip Britton, Hiran Selvadurai

Prospective respiratory follow-up of children with COVID-19, 6-months post-diagnosis
Marita Antoniadi (Athens, Greece), Dimitra-Irinna Vitoratou, Patra Koletsi, Despina-Zoe Mermiri, Athina Papadopoulou, Stavroula Kostaridou

Evaluation of Pulmonary Function Tests of Patients Diagnosed with Multisystem Inflammatory Syndrome in Children (MIS-C)
Saithı Uytun (Ankara, Turkey), Murat Yasin Gençoğlu, Süle Selin Akyan Soydaş, Ece Oacak, Satış Özkan Tabakçı, Gökçen Dilşa Tuğcu, Sanem Eryılmaz Polat, Tuğba Bedir Demirdağ, Güzel Cinel

Clinical features of COVID-19 among children with recurrent respiratory infections in Ukraine
Tetiana Harashchenko (Kyiv, Ukraine), Tetiana Umanets, Volodymyr Lapshyn, Tetiana Kaminska, Yuriy Marushko, Victoria Khomenko, Yurii Antipkin

Varying numbers of acute wheezing cases presenting to paediatric emergency during the COVID-19 pandemic
Kal Wee Teo (Glenfield, United Kingdom), Deepa Patel, Shilpa Sisodia, Damian Roland, Erol Gaillard, Julian Wei-Tze Tang

Pediatric admissions due to respiratory diseases during the COVID-19 pandemic
Dana Pe'er Moscovitch (Jerusalem, Israel), Diana Averbuch, Dana Wolf, Oded Breuer

RSV circulation during SARS-CoV-2 pandemic era: what happened in Italy
Luigi Matera (Rome, Italy), Raffaella Nenna, Antonella Frassanito, Maria Giulia Conti, Greta Del Mattia, Laura Petrarca, Enrica Mancino, Domenico Paolo La Regina, Gian Luigi Marseglio, Amelia Licari, Salvatore Leonardi, Sara Manti, Luana Nosetti, Alessandra Pierangelo, Carolina Scagnolari, Margherita Di Jorgi, Alessia Solco, Chiara Moriano, Simone Crinò, Enea Bonci, Fabio Midulla
Features of an aseasonal 2021 RSV epidemic in the UK and Ireland: analysis of the first 10,000 patients
Steve Cunningham (Edinburgh (Scotland), United Kingdom), Damian Roland, Thomas Williams, Mark Lyttle, Robin Marlow, Pia Hardelid, Ian Sinha, Olivia Swann, Abigail Maxwell-Hodkinson

Prognostic value of vitamin D status in young children with viral-induced wheeze
Kateryna Hodiatska (Dnipro, Ukraine)

The clinical significance of thrombocytosis in children with viral respiratory tract infections
Sergei Elber-Dorozko (Jerusalem, Israel), Liya Kerem, Dana G. Wolf, Yaacov Berkun, Oded Breuer

Respiratory syncytial virus (RSV) infection in children with neuromuscular diseases (NMD): a literature review & a survey of Palivizumab prophylaxis in the UK
Andrew Willard (Leicester, United Kingdom), Trinity Axelson, Kamini Jain

Rapid mobilisation of parent champions empowers vulnerable families on bronchiolitis.
Alice Lee (Liverpool, United Kingdom), Hazel Blackham, Hibba Khalil, Kalina Mlodawska, Katie Parry, Katie Sefton, Nicola Lynch, Bernie Carter, Daniel Hawcutt, Ian Sinha

Clinical features, bronchoscopic findings and microbiology of children with chronic endobronchial suppuration in Greece
Maria Eleni Papakonstantinou (Athens, Greece), Konstantinos Douros, Alexndra Krontsi, Adamadia Savvopoulou, Olympia Sardeli, Duññi Moriki, Angeliki Galani

Efficacy of antibiotic eradication therapy of early Pseudomonas aeruginosa infection in children with primary ciliary dyskinesia
Dvir Gatt (Beer Sheva, Israel), Michelle Shaw, Wallace B Wee, Melinda Solomon, Sharon Dell, Felix Ratjen

The airway microbiota in siblings with primary ciliary dyskinesia: related factors and correlation with clinical characteristics
Dilber Ademhan Tural (Ankara, Turkey), Merve Kasikci, Ozlem Altay, Sanem Eryilmaz Polat, Beste Ozsezen, Mina Hizal, Birce Sunman, Halime Nayir Buyukshahin, Ismail Guzelkas, Tugba Yuksel Dolgun, Nafizhan Emiralioglu, Ebru Yalcin, Deniz Dogru, Nural Kiper, Gulsen Hascelik, Kadir Serdar Diker, Ugur Ozcilik

Title: Bacterial profile by age in paediatric Non-CF Bronchiectasis (NCFB)
Kirstin Unger (Edinburgh, United Kingdom), Mohammad Dazham, Stefan Unger

Outcome of post-infectious bronchiolitis obliterans (PIBO) among children in Malaysia
Sze Chiang Lui (Kuala Lumpur, Malaysia), Che Zubaidah Che Daud, N.Fafwati Faridatul Akmar Mohammad, Maria Kamal, Azizah Musa, Nor Khailawati Sharribudin, Hafizah Zainuddin, Farizah Mohd Hairi, Eu Ann Gan, Pavithira Devi Kailasam, Eunice Chin Nien Ng, Cheng Guang Gan, Alifah Alias, Mohd Shahrulfahmi Abu Osman, Hasliza Razak, Siti Ashah Abd Rahim, Wen Ying Ng, Asiah Kassim

Evaluation of machine learning to detect adventitious lung sounds using digital auscultation to aid childhood pneumonia diagnosis
Salahuddin Ahmed (Dhaka, Bangladesh), Harish Nair, Steven Cunningham, Abdullah Baqui, Eric Mccollum

Discerning between paediatric bacterial and viral lower respiratory tract infection (LRTI) to guide antibiotic decision making: a systematic review
Jonathan Twynam-Perkins (Edinburgh, United Kingdom), Bohee Lee, Steve Cunningham, David Dockrell

Thematic poster: Paediatric lung function: new recommendations and evolution in ex-preterm

**Thematic poster: Paediatric lung function: new recommendations and evolution in ex-preterm**

**Disease(s):** Airway diseases

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

**Chairs:** Enrico Lombardi (Florence, Italy), Iulia Cristina Ioan (Vandoeuvre-Les-Nancy, France)

**Childhood Re-admission Following Preterm Birth Predicts Respiratory Morbidity at 19 Years**
Elizabeth Smith (Beaconsfield (WA), Australia), Naomi Hemy, Jasmine Gridosic, Andrew Wilson, Conor Murray, Denby Evans, Graham Hall, Shannon Simpson

**Association of air pollution exposure at birth and in childhood with lung function in preterm-born school-aged children**
Chris Course (Cardiff, United Kingdom), John Watkins, Sarah Kotecha, Sailesh Kotecha

**Effect of IUGR and catch-up growth on later lung function in preterm children: prospective cohort study**
Sarah Kotecha (Cardiff (South Glamorgan), United Kingdom), Michael Cousins, Kylie Hart, W John Watkins, Sailesh Kotecha
Extremely preterm born adults from the pre-surfactant era have increased COPD risk
Tonje Bårdsen (Bergen, Norway), Merete Benestad, Ola Roksund, Hege Clemm, Thomas Halvorsen, Maria Vollsæter

Combined inhaled corticosteroids with long-acting beta-2 receptor agonists improve spirometry deficits in school-aged children with preterm lung disease
Michael Cousins (Cardiff (South Glamorgan), United Kingdom), Nia Goulden, Kylie Hart, Alison Jenkins, Gill Willetts, Louise Yendle, Iolo Doull, E Mark Williams, A John Henderson, Zoe Hoare, Sailesh Kotecha

Detecting reversible airway disease in those born preterm – which is the best test?
Tiffany Bradshaw (Perth, Australia), Shannon Simpson, Denby Evans, Naomi Hemy, Rhea Urs, Elizabeth Smith

Oscillometry in preterm-associated obstructive and non-obstructive lung disease
Michael Cousins (Cardiff (South Glamorgan), United Kingdom), Kylie Hart, Chris Course, Bence Radics, Zoltan Hantos, Peter Sły, Sailesh Kotecha

Specific respiratory conductance by forced oscillations reveals ventilation inhomogeneity in patients with cystic fibrosis
Sotirios Fouzas (Patras, Greece), Maria Gioulvanidou, Christos Kogias, Elisavet-Anna Chrysochoou, Aris Bertzouanis, Michael Anthracopoulos, John Tsanakas, Elpis Hatzigiorou

Feasibility and Inter-Test Reproducibility of Lung Clearance Index in Children with Neuromuscular Disorders
Grace Pettigrew (Perth, Australia), Jenny Lam, Adelaide Withers, Andrew Wilson

Feasibility of respiratory muscle assessment tests in children with neuromuscular disease
Yama Latif (Cambridge, United Kingdom), Matthew Rose, Theofilos Polychronakis

Retrospective assessment of changes in bronchial obstruction severity interpretation in children according to new recommendations
Nicole Beydon (Paris, France), Jessica Assouline, Marc Koskas, Marie-Claude La Rocca, Fatma Lacin, Lucia Maingot-Sandu, Noria Medjahdi, Houda Saleh-Guillo

Retrospective assessment of changes in bronchial reversibility interpretation in children according to new recommendations
Nicole Beydon (Paris, France), Jessica Assouline, Marc Koskas, Marie-Claude La Rocca, Fatma Lacin, Lucia Maingot-Sandu, Noria Medjahdi, Houda Saleh-Guillo

Evaluation of lung volumes in Caucasian and African-Caribbean asthmatic children using GLI reference equations
Iulia Cristina Ioan (Vandoeuvre-Les-Nancy, France), Nicole Beydon

Late Breaking Abstract - Does infant lung function affect clinical management in children with cystic fibrosis?
Michele Arigliani (London, United Kingdom), Sidrah Chaudhry, Rossa Brugha, Ranjan Suri, Paul Aurora

Late Breaking Abstract - Impact of routine spirometry on clinical decisions and quality of life in children: an open-label randomised controlled trial
Wicharn Boonjindasup (Bangkok, Thailand), Julie Marchant, Margaret McElrea, Stephanie Yerkovich, Ian Masters, Ann Chang

Late Breaking Abstract - Effect of different stimulating waveforms on the derivation of oscillometry spectral parameters in asthmatic children
Pasquale Pio Pompilio (Milano (MI), Italy), Giuliana Ferrante, Alessandro Gobbi, Laura Venditto, Michele Piazza, Raffaele Dellaca, Giorgio Piacentini

Late Breaking Abstract - Prediction of adolescent asthma outcomes using childhood lung function
Hans Jacob Koefoed (Groningen, Netherlands), Jenny Hallberg, Jolanda Boer, Ulrike Gehring, Roel Vermeulen, Inger Kull, Anna Bergström, Judith M. Vonk, Gerard H. Koppelman, Erik Melén

Late Breaking Abstract - Type 2-high airway inflammation in childhood asthma distinguishes a more severe phenotype
Frederikke Rosenvinge Skov (Gentofte, Denmark), Bo Chawes, Klaus Bonnelykke, Jakob Stokholm, Hans Bisgaard, Ann-Marie Malby Schoos

**TP-8 Session 08:30 - 09:30**

**Thematic poster: COPD management: comorbidities, cohorts and real-world studies**

**Disease(s):** Airway diseases

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

**Chairs:** Carolina Maria Gotera Rivera (Madrid, Spain), Chair to be confirmed
Changes in critical inhaler technique errors in inhaled COPD treatment – a one-year follow-up study in Sweden
Johanna Sulku (Gävle, Sweden), Christer Janson, Håkan Melhus, Björn Ställberg, Kristina Bröms, Marieann Högman, Karin Lisspers, Andrei Malinovschi, Elisabet Nielsen

Exacerbation outcome definitions in clinical trials of COPD interventions: a systematic review
Thomas Bradbury (Newtown, Australia), Sachin Ananth, Sikandar Hussaini, Alexander Mathioudakis, Rebecca Nguyen, Christine Jenkins

Clinically important deterioration in patients with COPD: a post-hoc analysis of ETHOS
Dave Singh (Manchester, United Kingdom), Fernando J Martinez, John R Hurst, Melian Han, Patrick Darken, Mehul Patel

Estimation and visual representation of hospital costs after an acute exacerbation of COPD. COHERENT-COPD study.
Maria Teresa Tejedor Ortiz (Madrid, Spain), Joaquin Sanchez-Covisa Hernandez, Clara Goñi Echeverria, Hector Bueno Zamora, Jose Luis Bernal Sobrino, Monica Juarez Campo, Maria Piniero Roncal, Gema Maria Siesto Lopez, Carlos Jose Alvarez Martinez

Effect of a technology-enabled respiratory in-reach service on reduction in the inappropriate use of oral corticosteroids (OCS) for suspected Airways Disease exacerbations (ADE) in an acute general hospital
Alain Al Helou (Solihull, United Kingdom), Gajan Chellappah, Kayleigh Jones, Paul Ellis, Adel Mansur, Rahul Mukherjee

Clinical efficacy of anemia of chronic disease treatment in patients with COPD.
Anna Kovchun (Sumy, Ukraine), Vladyslava Kachkovska, Anna Bondarkova, Lyudmyla Prystup

Time trends (2012-2020) and sex differences for influenza vaccination uptake among individuals with chronic obstructive pulmonary disease in Spain.
IRENE MILAGROS DOMINGUEZ ZABALETA (Madrid, Spain), Marta Fuentes Alonso, Cristhian Alonso Correa Gutierrez, Cristina Sanchez Gutierrez, Gabriella Manzanares Cavi, Manuel Mor Martinez, Luis Puente Maestu, Javier De Miguel Diez

Reduced exacerbations following switch from multiple-inhaler to once-daily single-inhaler triple therapy in COPD patients in a real-world primary care setting in England
Kieran Rothnie (London, United Kingdom), Robin Wood, Alexandros Czira, Vicky Banks, Lucinda Camidge, Olivia Massey, Monica Seif, Chris Compton, Raj Sharma, Afisi Ismaila

Identifying risk of first COPD exacerbation in COPD patients in GOLD group A/B in the UK
Kieran Rothnie (London, United Kingdom), Steven Gelwicks, Beade Numbere, Yifel Lu, Raj Sharma, Chris Compton, Afisi Ismaila

COPD as a risk factor for Coronary Artery Disease (CAD): Overview of 10-year atherosclerotic cardiovascular disease (ASCVD) risk assessment
Daniela Buklioska Ilievska (Skopje, North Macedonia), Jordan Minov, Nade Kochovska Kamchevska, Ivana Mickovski, Taner Hasan, Marjan Baloski, Radmila Neshovska, Natasha Nedeska Minova, Biljana Prgova-Veljanova, Daniela Doneva, Vanche Trajkovska, Magdalena Simeonova, Jane Bushev

Utilization of exacerbation-related drugs by COPD patients with Arg16Gly polymorphism of ADRB2 gene
Kostiantyn Dmytryiev (Vinnitsya, Ukraine), Yuriy Mostovoy, Nataliia Slepenchenko, Yuliia Smereka, Dmytro Dmytryiev, Kateryna Dmytryieva

Compliance to pharmacological therapy of COPD patients with skeletal muscle dysfunction
Vitalii Poberezhts (Vinnitsya, Ukraine), Anna Demchuk, Yuriy Mostovoy

Risk factors and guideline adherence of empiric antibiotic use in community-acquired pneumonia
Sergi Pascual Guardia (Barcelona, Spain), Judith Marin-Corral, Francesco Amati, Stefano Aliberti, Manuela Carugati, Oriol Sibila, Francisco Sanz, Alejandro Rodriguez, Giovanni Sotgiu, Pedro J. Marcos, Marcos I. Restrepo, On Behalf Of Glimp Investigators

The role of physical rehabilitation in the treatment of COPD
Kostiantyn Shvets (Ivano-Frankivsk, Ukraine), Mykola Ostrovsksyy, Oleksandr Varunkiv, Iryna Savelikhina, Mariana Kulynych-Miskiv, Galyna Korzh, Nadia Korzh, Ksenia Ostrovskaya

A 7-year retrospective evaluation of incidence of exacerbations in COPD patients pre and post pneumococcal vaccination. Results from RETRIEVE study.
Efthymia Papadopoulou (Thessaloniki, Greece), Maria Bertoli, Alexandros Ginis, Stavros Tryfon

Association between sub-optimal medication adherence and risk of COPD diagnosis in patients with physician-diagnosed asthma: A propensity score-based analysis
Michael Asamoah-Boaheng (St John's, Canada), Jamie Farrell, Kwadwo Osei Bonsu, Alwell Oyet, William K Midodzi
Rescue medication use in patients with chronic obstructive pulmonary disease receiving umeclidinium/vilanterol versus tiotropium bromide/olodaterol in England
Gema Requena (Brentford, United Kingdom), Alexandrosz Czira, Victoria Banks, Robert Wood, Theo Tritton, Catherine Castillo, Jie Yeap, Rosie Wild, Chris Compton, Maria Duarte, Kieran Rothnie, Afisi Ismaila

Comparative effectiveness of umeclidinium/vilanterol versus indacaterol/glycopyrronium on acute exacerbations in patients with chronic obstructive pulmonary disease in England
Gema Requena (Brentford, United Kingdom), Alexandros Czira, Victoria Banks, Robert Wood, Theo Tritton, Catherine Castillo, Jie Yeap, Rosie Wild, Chris Chris Compton, Maria Duarte, Kieran Rothnie, Afisi Ismaila

A 7-year retrospective evaluation of lung function in COPD patients pre and post pneumococcal vaccination. Results from RETRIEVE study.
Efthymia Papadopoulou (Thessaloniki, Greece), Maria Bertoli, Alexandros Ginis, Stavros Tryfon

Nebulizer use in tobacco-exposed SPIROMICS participants with or at risk of COPD
Jane Fazio (Los Angeles, United States), Andrew Hong, Daniela Markovic, R. Graham Barr, Eugene Bleecker, Russell P. Bowler, David Couper, Jeffrey L. Curtis, Brad Drummond, Spyridon Fortis, Meilan Han, Lindsay Holland, Victor Kim, Fernando J. Martinez, Jill Ohar, Victor E. Ortega, Robert Paine, Michael Wells, Prescott Woodruff, Russell Buhr, Christopher B. Cooper, Donald Tashkin, Igor Barjaktarevic

TP-9 Session
08:30 - 09:30
Thematic poster: Studies targeting IL-5 pathways in asthma

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

Chairs : Celeste Michala Porsbjerg (Copenhagen, Denmark), Juan José Nieto Fontarigo (Santiago De Compostela, Spain)

Temporal trend of benralizumab safety profile in severe asthma: a cumulative meta-analysis
Luigino Calzetta (Roma (RM), Italy), Josuél Ora, Francesco Cavalli, Rossella Lattano, Paola Rogliani

Reduction in work and activity impairment within 6 months of benralizumab initiation in Canadians with severe eosinophilic asthma
Erika Penz (Saskatoon, Canada), Sheena Kayaniyil, Brett Lancaster, Bruno Francoeur, Jason K Lee, Marcel Mallet, Olga Tourin, Warren Ramesh, Masoud Mahdavian, Brandie L Walker, Zenon Belak, Amin Thawer, Vivek Dhawan, Lawrence Mbuagbaw, Stephen G Noorduyn

Influence of baseline FEV1 on improvement in severe eosinophilic asthma with mepolizumab
Francisco-Javier Gonzalez Barcala (Santiago de Compostela, Spain), Marina Blanco-Aparicio, Ana Gómez-Bastero, Gregorio Soto-Campos, David Bañas Conejero, M Guadalupe Sánchez-Herrero

REDES study: Mepolizumab is effective in patients with severe eosinophilic asthma and comorbid NP
Ehymar Arismendi Nunez (Vilassar de Dalt, Barcelona, Spain), Carolina Cisneros, Marina Blanco-Aparicio, David Bañas Conejero, Abraham L. Moure, M Guadalupe Sánchez-Herrero

Clinical effectiveness of benralizumab in clinical practice in Spain.
Pilar Ausin Herrero (Barcelona, Spain), Alberto Levy, Alicia Padilla Golo, Isabel Moya Carmona, Elisa Luzón Alonso, Jesús Sánchez Tena, Gustavo Resler

Arthritis, a new adverse effect of anti-IL5 biologics in severe asthma patients?

Sustained improvement of asthma control over 6 months of benralizumab treatment in Canadians with severe asthma
Stephen Noorduyn (Mississauga, Canada), Stephen G Noorduyn, Sheena Kayaniyil, Brett Lancaster, Bruno Francoeur, Jason K Lee, Marcel Mallet, Olga Tourin, Warren Ramesh, Masoud Mahdavian, Brandie L Walker, Zenon Belak, Amin Thawer, Vivek Dhawan, Lawrence Mbuagbaw, Erika Penz

Benralizumab continues to improve quality of life after 6 months of treatment in Canadians with severe eosinophilic asthma
Erika Penz (Saskatoon, Canada), Sheena Kayaniyil, Brett Lancaster, Bruno Francoeur, Jason K Lee, Marcel Mallet, Olga Tourin, Warren Ramesh, Masoud Mahdavian, Brandie L Walker, Zenon Belak, Amin Thawer, Vivek Dhawan, Lawrence Mbuagbaw, Stephen G Noorduyn

First Outcomes of Anti-IL-5 Biological Therapy in Patients with Severe Asthma in Croatia
Dina Rnjak (Zagreb, Croatia), Anamarija Stajduhar, Sanja Popović-Girle, Nikola Ferara, Iva Jelavić, Marina Lampalo
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<td>Effects of benralizumab in patients affected by severe eosinophilic asthma and chronic rhinosinusitis with nasal polyps</td>
<td>Carla Santomasi (Bari, Italy), Enrico Buonamico, Silvano Dragonieri, Ernesto Lulaj, Leonardo Maselli, Ilaria Iorillo, Sara Piccinino, Alessandro Capuano, Madiha Ahroud, Ilaria Dei Lazzaretti, Lucia Iannuzzi, Giovanna Elisiana Caragnano</td>
<td>Bari, Italy</td>
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<td>Clinically relevant benefit of mepolizumab and benralizumab in asthma following EGPA in real-life settings</td>
<td>Charlène Desaintjean (Lyon, France), Mouhammad Nasser, Kais Ahmad, Julie Traclet, Ségolène Turquier, Jean-Charles Glérant, Vincent Cottin</td>
<td>Lyon, France</td>
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<td>Dual Biologic therapy- is it safe in patients with concomitant severe asthma and other immune-mediated diseases?</td>
<td>Maria Eugenia Navarrete Rouco (Barcelona, Spain), Nuria Carballo, Irina Bobolea, Eva Martínez-Moragón, Silvia Pascual-Erquicia, Moises Labrador, Miguel Angel Racionero, Pilar Ausín</td>
<td>Barcelona, Spain</td>
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<td>Clinical improvement in REDES study stratified by blood eosinophil reduction after mepolizumab treatment</td>
<td>Christian Domingo Ribas (Sabadell (Barcelona, Spain), Rocío Díaz-Campos, Tamara Hermida-Valverde, Ebymar Arismendi, David Bañas Conejero, M Guadalupe Sánchez-Herrero</td>
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<td>Real world use of mepolizumab in Severe Asthma according to smoking status</td>
<td>Juan Luis García Rivero (Argoños (Cantabria), Spain), Eva Martínez-Moragón, Celia Pinedo, Nuria Marina, David Bañas Conejero, M Guadalupe Sánchez-Herrero</td>
<td>Madrid, Spain</td>
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<td>Real-life biomarker response to anti-IL5 and anti-IgE therapies in severe asthma patients</td>
<td>John Townsend (Norwich, United Kingdom), Sarah Burkill, Celeste M. Porsbjerg, Arnaud Boudrin, Trung N Tran, Neil Martin, Rohit Katial, Peter Barker, Michael E Wechsler, Jorge Maspéro, Synthia Bosnic-Anticevich, Li Ping Chung, Gregory Katsoylozos, George C Christoff, Todor A Popov, Mohsen Sadatsafavi, Carlos A Torres-Duque, Charlotte Ülrik, Karin Dahl Assing, Susanne Hansen, Alan Altraja, Lauri A Lehtimäki, Nikolaos G Papadopoulos, Konstantinos Kostikas, Sundeep Salvi, Richard W Costello, Puggioni Francesca, Takashi Iwanaga, Chin Kook Rhe, Mona Al-Ahmad, Desiree Larenas-Linnemann, Joao A Fonseca, Rita Amaral, Kjell Alving, Riyad Al-Lehebi, Luis Perez De-Llano, Bruce Kirenga, Ming-Ju Tsai, Bassam Mahboub, Paul E Pfeiffer, William Henley, Yang Liu, Juntao Lyu, Celine Goh, Thendral Uthaman, David Price</td>
<td>Madrid, Spain</td>
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<td>Cost-effectiveness of benralizumab in patients with uncontrolled severe eosinophilic asthma in Spain</td>
<td>Maria Mareque (Madrid, Spain), Mónica Climente, Eva Martínez-Moragon, Alicia Padilla, Itziar Oyagüez, Carolina Tournon, Covadonga Torres</td>
<td>Madrid, Spain</td>
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<td>Effect of biological therapies on the rate of exacerbations in patients with severe eosinophilic asthma</td>
<td>Antonio Menéndez (Granada, Spain), Susana Rojo-Tolosa, Cristina Pérez-Ramirez, Jose Antonio Sánchez-Martínez, María Victoria González-Gutiérrez, Alberto Jiménez-Morales, Concepción Morales-García</td>
<td>Granada, Spain</td>
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<td>Benralizumab leads to sustained asthma control improvement after 1 year in real-life severe asthmatics.</td>
<td>Andreas Renner (Wien, Austria), Katharina Marth, Karin Patocka, Marco Idzko, Wolfgang Pohl</td>
<td>Vienna, Austria</td>
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<td>Response to reslizumab in a real-life setting: biologic-naïve asthma patients versus switchers.</td>
<td>Luis Pérez De Llano (Lugo, Spain), Bg Cosío, Ignacio Lobato Astiárraga, Gregorio Soto Campos, Miguel Ángel Alonso Tejedor, Nuria Marina Malanda, Alicia Padilla Galo, Isabel Urrutia Landa, Javier Michel De La Rosa, Ismael Garcia Moguel</td>
<td>Barcelona, Spain</td>
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<td>Impact of biological therapy on cumulative corticosteroid dose reduction in patients with severe asthma.</td>
<td>David Rodríguez Plaza (Barcelona (Barcelona), Spain), Mireia Vivas Roca, Héctor Cabrerizo Carreño, Blanca Gómez Martínez, Salud Santos Pérez, Mariana Muñoz-Esquerrera</td>
<td>Barcelona, Spain</td>
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**Thematic poster: Comorbidities in chronic airway diseases**

**Disease(s):** Airway diseases

**Method(s):** General respiratory patient care, Pulmonary function testing, Imaging, Physiology, Epidemiology, Respiratory intensive care

**Chairs:** Bilun Gemicioglu (Istanbul, Turkey)

**Characterizing healthcare resource use among adults with COPD by presence of comorbidities**
Meredith Barrett (Portland, United States), Vy Vuong, Elroy Boers, Ann Cameron, Leanne Kaye, Caleb Woodford, Carlos M. Nunez, Kimberly L. Sterling

**Healthcare resource utilization among adults with asthma by disease severity and presence of comorbidities**
Meredith Barrett (Portland, United States), Vy Vuong, Elroy Boers, Ann Cameron, Leanne Kaye, Caleb Woodford, Carlos M. Nunez, Kimberly L. Sterling
Airflow obstruction as a marker of prognosis in rheumatoid arthritis
Anna Denis (Liège, Belgium), Céline Regnier, Monique Henket, Nathalie Maes, Marie Thys, Renaud Louis, Michel Malaise, Julien Guiot

Are obesity and visceral adipose tissue a trait of asthma?
Alina Ofenheimer (Zürich, Switzerland), Caspar Schiffers, Emiel Wouters, Patricia Puchhammer, Robab Breyer-Kohansal, Marie-Kathrin Breyer, Otto Chris Burghuber, Renaud Louis, Sylvia Hartl

Early alterations in lung function in a cohort of patients with non-affective psychotic disorder and a control group.
Carlos Antonio Amado Diago (Santander (Cantabria), Spain), Ana Viejo Casas, Javier Vazquez Bourgon, Juan Agüero Calvo, Benedicto Crespo Facorro, Mario Ruiz Nuñez, Roberto Garastazu

RISK OF IN-HOSPITAL MORTALITY DUE TO COVID-19 IN PATIENTS WITH BRONCHIAL ASTHMA: APPLICATION OF 4C MORTALITY SCALE.
IRENE MILAGROS DOMINGUEZ ZABALETA (Madrid, Spain), Gabriella Manzanares Cavi, Walther Ivan Giron Matute, Zichen Ji, Beatriz Recio Moreno, Paola Benedetti, Alicia Oliva Ramos, Luis Puente Maestu, Javier De Miguel Diez

Small airway dysfunction detected by oscillometry in asthma, COPD, and asthma-COPD overlap
Toshihiro Shirai (Shizuoka, Japan), Keita Hirai, Yasuhiro Gon

The association between transfer coefficient of the lung and the risk of exacerbation in asthma-COPD overlap
Hiroaki Ogata (Fukuoka, Japan), Katsuyuki Katahira, Aimi Enokizu-Ogawa, Yujiro Jingushi, Akiko Ishimatsu, Kazuhito Taguchi, Atsushi Moriwaki, Makoto Yoshida

Integrating Care: screening for anxiety and depression in COPD
Thomas Mason (London, United Kingdom), Amy Dewar, Jocelin Hall

Bronchiectasis on chronic obstructive pulmonary disease patients: what special features?
Chaima Habouria (Manouba, Tunisia), Imen Bachouch, Nidhal Balloumi, Khaoula Bouguerra, Nour El Houdauda Khezemi, Asma Zargouni, Fatma Chermiti, Sorraya Fennich

Impact of COVID-19 on hospital admissions, health status and behavioral changes of patients with severe COPD
Eva Pappe (Berlin, Germany), Ralf Hammerich, Jacopo Saccomanno, Leonore Erdmann, Thomas Sgarbossa, Martin Witzenrath, Norbert Suttrop, Ralf-Harto Hübner

Factors underlying the increasing prevalence of comorbidities over time and their mutual relationship in COPD: Results from COSYCONET
Peter Alter (Marburg, Germany), Kathrin Kahnert, Franziska C. Trudzinski, Robert Bals, Henrik Watz, Tim Speicher, Sandra Söhler, Stefan Andreas, Tobias Welte, Klaus F. Rabe, Emiel F.M. Wouters, Christoph Lange, Hubert Wirtz, Joachim H. Ficker, Claus F. Vogelmeier, Rudolf A. Jörres

Right heart changes depending on the functional status of patients with COPD combined with hypertension
Anastasiia Melenevych (Kharkiv, Ukraine)

Detection of progressive airway disease on chest computed tomography in the Ataluren CF cohort using an airway-artery algorithm
Qianting Lv (Rotterdam, Netherlands), Leticia Gallardo Estrella, Eleni-Rosalina Andrinopoulou, Pierluigi Ciet, Jean-Paul Charbonnier, Mariette P.C. Kemner - Van De Corput, Daan Caudri, Marleen De Bruin, Harm A.W.M. Tiddens

Longitudinal variation of nasal nitric oxide in patients with Primary Ciliary Dyskinesia and healthy controls.
Charlotte Olivia Pioch (Berlin, Germany), Niklas Ziegahn, Marcus A. Mall, Jobst F. Röhmel

Vocal biomarkers in COPD: capturing disease severity using voice
Iris Lina Michels (Maastricht, Netherlands), Iris Michels, Visara Urovi, Helmer Strik, Hanneke A. C. Van Helvoort, Sami O. Simons

Evolution of asthmatic patients at 6 and 12 months after acute COVID-19 recovery

Vaccination and hospitalization of COVID-19: what difference does it make?
Abir Hedhli Ep Cherni (tunis, Tunisia), Rihab Jebali, Abir Hedhli, Yassine Ouahchi, Sana Cheikhrouhou, Samira Merai, Sonia Toujani, Meriem Mjid, Bessma Dhahri

Exercise induced laryngeal obstruction in asthma
Aase Johnsen Rogde (Bergen, Norway), Sverre Lohmann, Haakon Kristian Kvidal, Ola Orange Roksund, Hege Synnøve Havstad Clemm, Thomas Halvorsen, Maria Vollsæter, Tina Maartit Andersen
Incidental pulmonary emphysema and COPD cases in a national lung cancer screening program feasibility study.
Anneli Poola (Tartu, Estonia), Anneli Poola, Vahur Makke, Marianna Frik, Piret Vilklepp, Tarvo Kiudma, Urmas Takker, Anneli Rätsep, Kaja-Triin Laaiais, Tanel Laisaar

TP-22 Session 08:30 - 09:30
Thematic poster: Identification of therapeutic strategies in lung cancer

Disease(s) : Thoracic oncology Airway diseases Interstitial lung diseases
Method(s) : Imaging Surgery General respiratory patient care Palliative care Pulmonary function testing Cell and molecular biology Epidemiology Endoscopy and interventional pulmonology Pulmonary rehabilitation
Chairs : Assia Konsooulova-Kirova (Varna, Bulgaria), Andriani Charpidou (Athens, Greece)

To stop or not to stop immunotherapy after 2 years in Non Small Cell Lung Cancer (NSCLC)? Results of a cross sectional survey among French thoracic oncologist.
Simon Storme (Lyon, France), Didier Debieveure, Pierre-Jean Souquet, Sébastien Courraud

The therapeutic potential of ADAMTS8 in lung cancer patients without Immune checkpoint inhibitors/EGFR mutation
Ying-Ming Tsai (Kaohsiung, Taiwan), Yung-Chi Huang, Chao-Yuan Chang, Lian-Xiu Liu, Kuan-Li Wu

Clinical determinants of immunotherapy outcomes in non-small cell lung cancer patients with checkpoint inhibitor pneumonitis
Ioannis Vathiotos (Cholargos, Greece), Kyriaki Tavernarakis, Ioannis Trontzas, Eirini-Chrysovalanti Antonogiannaki, Evangelia Kourkaki, Nikolaos Syrigos, Ioannis Gkiozos, Elias Kotteas, Andriani Charpidou

Cellular and plasmatic immune profile of anti-PD-1 therapy in phase IIIB/IV non-small cell lung cancer: relevance of immunosuppressive factors
Paulo Rodrigues-Santos (Coimbra, Portugal), Jani Sofia Almeida, Luana Madalena Sousa, Manuel Santos-Rosa, Fernando Barata, Ana Figueiredo

Long-term outcomes in patients with Non Small Cell Lung Cancer (NSCLC) treated by Immune Checkpoint Inhibitors (ICIs) for a minimal duration of 2 years: a cohort study in a tertiary hospital.
Simon Storme (Lyon, France), Lize Kikouama, Marie Darrason, Gilles Devouassoux, Michael Duruisseaux, Sébastien Courraud

Pulmonary complications after surgical resection of lung cancer - analysis of thousands cases.
Anna Trojan (Warszawa, Poland), Joanna Domagala-Kulawik, Anna Sienkiewicz-Ulita, Marcin Zbytniewski, Grzegorz Gryszko, Marcin Cackowski, Michał Dziedzic, Katarzyna Woźnica, Tadeusz Orlowski, Dariusz Dziedzic

Right intrapericardial pneumonectomy; is it still a forbidden procedure?
Ioannis Karapaninis (Athens, Greece), Georgia Hardavella, Antonios Katsipoulakis, Nikolaos Anastasiou

Povidone Iodine use as effective pleurodesis treatment for prolonged air leak?
Abdessalem Boumal (Sfax, Tunisia), Zied Chaari, Aymen Ben Ayed, Ghassen Ben Hlima, Walid Abid, Imed Frihka

Longitudinal changes in pulmonary function and patient reported outcomes after lung cancer surgery
Hye Yun Park (Seoul, Republic of Korea), Sumin Shin, Sunga Kong, Danhee Kang, Genehee Lee, Jong Ho Cho, Young Mog Shim, Juhee Cho, Hong Kwan Kim

Effect of HIIT-based interventions on exercise capacity in lung cancer survivors: Meta-Analysis
Alejandro Heredia Ciuró (Granada, Spain), Javier Martin Nuñez, Antonio Lazo Prados, Araceli Ortiz Rubio, Andres Calvache Mateo, Marie Carmen Valenza

Characteristics and clinical courses in a monocentric NSCLC cohort with MET exon 14 skipping mutations
Gesa Rafflenbeul (Berlin, Germany), Carolin Lips, Torsten Gerriet Blum, Manuel Hollmann, Jens Kollmeier, Daniel Misch, Susann Stephan-Falkenau, Anna Streubel, Sebastian Thiel, Thomas Mairinger, Torsten Bauer

Marie Veron (La Tronche, France), Thomas Pierret, Maurice Perol, Justin Benet, Natacha Denis, Denis Moro-Sibilot, Aurélie Swalduz, Anne Claire Toffart

Osimertinib as neoadjuvant therapy for resectable non-small cell lung cancer: a single-center real-world study
Yan Hu (Changsha, China), Siying Ren, Lulu Yang, Zhongyi Tong, Ruoyao Wang, Wei Han, Fenglei Yu, Wenliang Liu

The impact of the COVID-19 pandemic on delay in diagnosis and management of lung cancer in developing countries
Imen Bachouch (Ariana, Tunisia), Nourelhouda Khézami, Chaima Habouruia, Nidhal Belloumi, Bougurra Khawla, Asma Zargouni, Fatma Chermiti, Soraya Fenniche
Response evaluation with FDG PET-CT after 2 years of immune checkpoint inhibition
Reinier R.L. Wener (Edegem, Belgium), Annemiek Snoeckx, Laurens Carp, Jo Raskin, Charlotte De Bondt, Jan P. Van Meerbeeck, Annelies Janssens

Best first-line therapy for patients with advanced non-small cell lung cancer, performance status 2 without a targetable mutation.
Rolof G.P. Gijtenbeek (Leeuwarden, Netherlands), Kim De Jong, Ben J.W. Venmans, Femke Van Vollenhoven, Anthonie J. Van Der Wekken, Wouter H. Van Geffen

TP-4
Session 08:30 - 09:30
Thematic poster: Topics in respiratory and muscle function

The effect of nostril occlusion and mouth sealing in the measurement of sniff nasal inspiratory pressure
Anne Rossel (London, United Kingdom), Neeraj M. Shah, Shauna Sheridan, Eui-Sik Suh, Joerg Steier, Nicolas Hart, Patrick B. Murphy, Michelle Ramsay, Georgios Kaltasakas

A simple approach for assessing leg muscle oxygenation during incremental exercise in fibrotic interstitial lung disease
Mathieu Marillier (Echirolles, France), Anne-Catherine Bernard, Samuel Vergès, Denis E. O'Donnell, Onofre Moran-Mendoza, J. Alberto Neder

Capacity of PImax and SNIP for the diagnosis of respiratory muscle weakness
Walther Ivan Giron Matute (Madrid, Spain), Sergio Suarez Escudero, Zichen Ji, Alicia Cereo Lajas, Beatriz Recio Moreno, Katuska Liendo Martínez, Irene Milagros Domínguez Zabaleta, Virginia Parra León, Cristina Sánchez Fernández, Cristhian Alonso Correa Gutiérrez, Paola Antonella Benedetti, José Javier García López, Luis Puente Maestú

Exercise Induced Laryngeal Obstruction (EILO) while breathing cold air.
Haakon Kvidalnd (BERGEN, Norway), Hege Clemm, Ola Oranger Røksund, Maria Vollseter, Silje Mæland, Jon Hardie

Exercise Induced Laryngeal Obstruction (EILO) – diagnosis and therapy response
Siobhan Ludlow (Cheshire, United Kingdom), Stephen Fowler, Thomas Pantin

Can six weeks with Inspiratory Muscle Training (IMT) with individualized pressure-settings improve Exercise induced laryngeal obstruction (EILO)-symptoms?
Petrine Solli Veierod (Bergen, Norway), Haakon Kvidalnd, Thomas Halvorsen, Hege Clemm, Ola D. Røksund, Maria Vollseter

Short-term repeatability of maximal respiratory pressures in healthy volunteers measured with a novel respiratory health meter.
Herkko Ryynänen (Helsinki, Finland), Ilpo Kuronen, Essi Ahokas, Maari Valtonen, Johanna K. Ihlalainen, Anssi Sovijärvi, Juhani Multanen

Respiratory muscle pressures in ALS patients: Can we do without them? (Correlation of FVC decrease from erect to supine position with maximum inspiratory muscle pressure)
Evangelia Koukaki (SALAMINA, Greece), Vasiliki Panou, Petros Bakakos, Nikolaos Koulouris, Antonia Koutsoukou

Prognostic value of a low resting inspiratory capacity and reduced inspiratory muscle strength in COPD
Matthew D. James (Kingston (ON), Canada), Devin Phillips, Matthew James, Sandra Vincent, Juan Pablo De-Torres, J Alberto Neder, Daniel Langer, Denis O'Donnell

The effect of pulmonary rehabilitation on respiratory and peripheral muscle weakness following SARS-CoV-2 infection: an interim analysis
Nikolaos Chynkiamis (Ilion, Greece), Angelos Vontetsianos, Christina Anagnostopoulou, Aikaterini Bakiri, Nektarios Anagnostopoulos, Kyriaki Cholidou, Ioannis Vogiatzis, Antonia Koutsoukou, Nikolaos Koulouris

Validating RespMech: an automated, free and open-source platform for diaphragmatic electromyography analysis at rest and in exercise
Annie Liu (Richmond Hill, Canada), Nathaniel Y. W. Yuen, Yannick Molgat-Seon, Matthew D. James, Denis E. O'Donnell, Nicolle J. Domnik, Emil Schwarz Walsted

Post-Covid-19 peripheral muscle weakness is not associated with muscle ultrasound echogenicity or muscle thickness
Anouk Stoffels (Nijmegen (GE), Netherlands), Nicol Voermans, Hieronymus Van Hees, Jeannette Peters, Hanneke Van Helvoort, Esther Van Voorthuizen, Jonne Doorduin, Bram Van Den Borst
The role of extracellular matrix proteins on exercise training-induced muscle fibre adaptations in COPD
Ioannis Vogiatzis (Blyth, United Kingdom), Efpraxia Kritikaki, Kay Padget, Gerasimos Terzis, Davina Simoes

Respiratory function in subjects recovered from covid-19 with sarcopenia
Laura Cornejo-Cornejo (México City, Mexico), Arturo Orea-Tejeda, Carlos Sanchez-Moreno, Dulce Gonzalez-Islas, Mariana Salvarierra-Escobar, Iris Lopez-Vazquez, Jorge Aguilar-Meza, Juan Marquez-Cordero, Alejandra Rios-Pereda, Mariana Salgado-Fernandez, Angelia Jimenez-Valentin, Samanta Hernandez-Lopez

Effects of inspiratory muscle training on thoracoabdominal muscle kinematics during exercise in older adults
James Manifield (Newcastle upon Tyne, United Kingdom), Charikleia Alexiou, Dimitrios Megaritis, Katherine Baker, Nicola Adams, Gill Barry, Ioannis Vogiatzis

Post-COVID Assessment of Pulmonary Function and Muscles Strength Test in Healthy Subjects
Josuéler Ora (Roma (RM), Italy), Paola Rogni, Marilisa Vignuoli, Letizia Valentino, Giancarlo Pontoni, Francesca Di Ciuccio, Roberto Ferrara, Tommaso Sciarra

How does Sarcopenia effect elderly COPD Patients?
Seda Tural Önür (Istanbul, Turkey), Kaan Kara, Fatma Akyl Tokgöz, Hülüya Abali, Sinem Nedime Sökücü

A model of peripheral edema and its impact on the quantification of leg strength in COPD and healthy subjects
Jason Peng (Maywood, United States), Paul Chung, Stefano Pini, Hameeda Shaikh, Lissette Orozco-Bersoza, Martin Tobin, Franco Laghi

Unobtrusive estimation of ventilatory and muscle activity for COPD assessment
Dolores Blanco-Almazán (Barcelona, Spain), Willemijn Groenendaal, Manuel Lozano-Garcia, Luis Estrada-Petrocelli, Lien Lijnen, Rana Önder, Christophe Smeets, David Ruttens, Francky Catthoor, Raimon Jané

Self-monitoring to detect early signs of altitude illness in COPD. A diagnostic accuracy study.
Michael Furian (Zürich, Switzerland), Maammed Mademilov, Konstantinos Bits, Simone Buenzli, Ainura Abdraeva, Benoit Champignuelle, Arcangelo Carta, Meret Bauer, Tanja Ulrich, Philipp M Scheiwiller, Julian Mueller, Ahmad Rastegar, Stefanie Ulrich, Laura Mayer, Mirjam Grimm, Simon R Schneider, Ulkan Sheraliev, Aichurok Akylbekova, Nurdin Shakiev, Aijan Talaibekova, Aigul Ozonova, Kamilla Magdieva, Gulzada Mirzalieva, Azamat Akylbekov, Sultanat Shabykeeva, Talant M Sooronbaev, Silvia Ulrich, Konrad E Bloch

**Thematic poster: Pathophysiological consequences of sleep apnoea: insights from basic research**

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

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

**Chairs:** Martino Pengo (Milano (MI), Italy), Chair to be confirmed

**Session 08:30 - 09:30**

**Overnight oxygen saturation is higher at the forehead compared to fingertip measurements**
Hartmut Schneider (Frankfurt, Germany), Hartmut Schneider, Sandra Mukasa, Syuyumbeki Mueller, Adelina Varavino, Felix Fronek, Flavio Raschella, Pieter Ermers, Marjolein Vliexs, Ruben De Francisco

**Predictors of chronic hypercapnia in obese patients with suspected breathing sleep disorder**
Hänen Wrath (Sfax, Tunisia), Rim Kammoun, Sourour Bouattour, Issraa El Wadhane, Amina Kotti, Sameh Msaad, Amm Bahloul, Walid Feki, Samy Kammoun

**Combined ECG and breathing frequency measurements for sleep apnea assessment using a multi-sensor monitoring device**
Florent Baty (St. Gallen, Switzerland), Maximilian Boesch, Frederik Bauer, Simon Annaheim, Martin Brutsche

**Low arousal threshold: a common pathophysiological trait in patients with obstructive sleep apnea syndrome and asthma**
Caterina Antonaglia, Giovanna Passuti, Barbara Ruo, Francesco Salton, Marco Confalonieri, Chiara Torregiani

**Sleep parameter comparison between mild and difficult-to-treat asthma using accelerometer**
Varun Sharma (Glasgow, United Kingdom), Helen C Ricketts, Femke Steffensen, Anna Goodfellow, Duncan S Buchan, Douglas C Cowan

**GENE POLYMORPHISMS OF 5-HYDROXYTRYPTAMINE (SEROTONIN) RECEPTOR 2 (HT2A) 1438G/A AND NADPH OXIDASE (P22PHOX) A930G IN OBSTRUCTIVE SLEEP APNEA PATIENTS**
Mehmet Sezai Taşbakan (Izmir, Turkey), Özen K. Basoglu, Huseyin Onay, Ferda Ozknay

**Sleep apnea syndrome and erectile dysfunction: A possible risk factor?**
Warda Jelassi (TUNIS, Tunisia), Islam Mejri Ep Ajili, Souhail Ben Taher, Selsabil Daboussi, Samira Mhamdi, Chiraz Aichaoui, Zied Moatemri
Use of nocturnal pulsoximetry (POX) to assess the control of CPAP therapy in patients with obstructive sleeping apnea (OSA)
Isabel Muñoz Ramirez (Seville, Spain), Raquel De Andres David, Aureliano Ais Daza, Francisca Montoro Ballesteros, Alfonso Marin Andreu, Aurelio Arnedillo Muñoz

Impact of shift work on quality of sleep in healthcare workers
Sarra Ben Sassi (ariana, Tunisia), Sourour Abid, Mariem Friha, Ons Badri, Rahma Gargouri, Sameh Msaad, Hajeur Ayedi

Position trainer device for Obstructive Sleep Apnea.
Jorge Rodríguez Sanz (ZARAGOZA (SPAIN), Spain), Laura Torralba García, Maria Aguado Agudo, Maria Teresa Martin Carpi

Anxiety and depression in patients with obstructive sleep apnea
Imen Touil (Mahdia, Tunisia), Imen Touil, Braham Yosra, Omrane Amira, Boujneh Soumaya, Bouchareb Soumaya, Hamdi Amani, Zaara Eya, Belhadj Ines, Khalilah Taoufik, Boussoffara Leila, Knani Jalal, Keskes Boudawara Nadia

Nasal symptoms in patients with obstructive sleep apnoea and the association with continuous positive airway pressure
Kallirroi Lamprou (Oxford, United Kingdom), Konstantinos Chaidas, Amberley Munnings, John Stradling, Annabel Nickol

Lung function and sleep disorder in general population: RHINESA study
Rajesh Shigdel (Bergen, Norway), Elin H Thorarinsdottir, Nils Oskar Jögi, Leopoldo Palacios Gómez, Chamara V. Senaratna, Andrei Malinovschi, Þórarinn Gíslason, Randi Jacobsen Bertelsen

Sleep disorders in healthcare workers
Améni Nâaroura (Tunis, Tunisia), Soumaya Ben Sâad, Amani Ben Mansour, Azza Slim, Hafaoua Daighfous, Fatma Tritar

Thematic poster: Molecular pathology and cellular biology of pulmonary diseases

Thematic poster: Molecular pathology and cellular biology of pulmonary diseases

Thematic poster: Molecular pathology and cellular biology of pulmonary diseases

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Thematic poster: Molecular pathology and cellular biology of pulmonary diseases
Translational chronic drug-induced ILD mouse model, characterized by low-grade inflammation, fibrosis and dilated large airways
Irma Mahmutovic Persson (Lund, Sweden), Jian Liu, René In ‘T Zandt, Nina Fransén Petterson, Anders Örbom, Hanna Falk-Hákansson, Caria Carvalho, Karin Von Wachenfeldt, Lars E. Olsson

Exposure to nicotine containing e-cigarette vapor leads to endothelial barrier dysfunction and increased susceptibility to LPS in-vitro
Benjamin Seeliger (Hannover, Germany), Thorben Pape, Paul Horn, Klaus Stahl, Julius J Schmidt, Tobias Welte, Antje Prasse, Natasha Sommer, Sascha David

Fibroblast from IPF patients produces glycosaminoglycans with higher affinity for FGF2
Zackarias Söderlund (Lund, Sweden), Roberto Mastio, Daniel Willén, Emil Tykesson, Ulf Ellervik, Gunilla Westergren-Thorsson

A lung and kidney specific fragment of type IV collagen is associated with increased mortality in idiopathic pulmonary fibrosis
Annika Hummersgaard Hansen (Herlev, Denmark), Thomas Skovhus Prior, Diana Julie Leeming, Morten Asser Karsdal, Janne Marie Bülow Sand, Elisabeth Bendstrup

Disruption of prostaglandin F2 receptor signaling attenuates fibrotic remodeling in a preclinical murine model of idiopathic pulmonary fibrosis
Michael Beers (Philadelphia, United States), Soon Yew Tang, Luis Rodriguez, Yaniv Tomer, Aditi Murthy, Tian-Quan Cai, Caitlin Connelly, Astrid Gillich, Yao Wong, Garret Fitzgerald

WNK1 signaling after loss of CFTR function in pneumonia-induced lung barrier failure
Laura Kneller (Berlin, Germany), Lasti Erfinanda, Wolfgang M Kuebler, Martin Witzenrath, Birgitt Guttbier

Air pollution induced emphysema in ageing rats via Hippo signaling pathway
Vincent Laiman (Taipei, Taiwan), Hsiao-Chi Chuang

Interleukin-1 alpha counteracts transforming growth factor-2 signaling in lung extracellular matrix remodeling.
Kauna Usman (Vancouver, Canada), May Fouadi, Emmanuel Osei, Tillie-Louise Hackett

Greenspace and children’s lung function in China
Tingting Ye (Melbourne, Australia), Yuming Guo, Michael Abramson, Tiantian Li, Shanshan Li

Late Breaking Abstract - Exposure to particulate matter alters neutrophil lysosomal function and activation status
Emily Watts (Edinburgh, United Kingdom), Ryan Huff, Christopher Rider, Moira Whyte, Sarah Walmsley, Christopher Carlsten

Late Breaking Abstract - A novel neuropilin-2 (NRP2) antibody for immunohistochemical staining of patient tissue samples
Yeeting Chong (San Diego, United States), Sarah Foerster, David Siefker, Yvonne Becker, Erik Escobedo, Luke Burman, Kaitlyn Rauch, Suzanne Paz, Christoph Burkart, Andrea Cubitt, Michael Muders, Leslie Nangle

The effect of telerehabilitation-based chest physiotherapy on anxiety level and the perception of pain, dyspnea and fatigue in patients undergoing lung surgery
Esra Pehlivian (Istanbul, Turkey), Ayça Evkaya Acar, Yaman Khoraki, Sibel Gayretli Atan, Burcu Kılıç, Akif Turna

Preferences for an eHealth tool to support physical activity and exercise training in COPD
Perminna Sonnerfors (Stockholm, Sweden), Kirsti Skavberg Roaldsen, Sara Lundell, Annika Toots, Karin Wadell, Alexandra Halvarsson

Technological features of smartphone apps for physical activity promotion in patients with COPD: A systematic review
Joana Cruz (Leiria, Portugal), João Silva, Nádia Hipólito, Pedro Machado, Sofia Flora

Effectiveness of a remote pulmonary rehabilitation program for patients with Chronic Obstructive Pulmonary Disease: A case series.
Shaemen Stallwood (London, United Kingdom), Caitlin Smyth, John R Hurst, Heidi Ridsdale
Experiences of using an electronic health (eHealth)-tool among healthcare professionals involved in COPD management - a qualitative analysis.
Andre Nyberg (Umeå, Sweden), Anna Sondell, Sara Lundell, Sarah Marklund, Malin Tistad, Karin Wadell

End-users’ perspectives of an eHealth platform to promote physical activity in COPD: a qualitative study
Nádia Hipólito (LEIRIA, Portugal), Sofia Flora, Marcelo Brites-Pereira, Cândida G. Silva, Jessica Gordo, Nuno Morais, José Ribeiro, Fernando Silva, Chris Burtin, Dina Brooks, Alia Marques, Joana Cruz

Is pulmonary tele rehabilitation effective and safe for people with respiratory conditions?
Joshua Bishop (Balmain, Australia), Lissa Spencer, Amanda Mcanulty, Wendy Denniss, Jennifer Alison

Pulmonary rehabilitation including interactive 3D visualization technique, in COPD - a randomized controlled study
Ulrika Einarsson (Huddinge, Sweden), Pernilla Sönnerfors, Anna-Karin Nordlin, Gun Faager

Curating audio-visual self-management digital resources for people with Chronic Obstructive Pulmonary Disease (COPD): A novel process report.
Kirsti Loughran (Middlesbrough, United Kingdom), Sian Williams, Katya Jouravleva, Philip Mordue, Isabel Saraiva, Matthieu Bremond, Clare Cook, Mark Orme, Deborah Turnbull, Nathaniel Skidmore

Digital pulmonary rehabilitation (PR)
Samantha Pilsworth (Liverpool (Merseyside), United Kingdom), Samantha Pilsworth, David Barber, Simon Taylor, Rosemary Hughes, Michelle Coleiro

Physical therapy follow-up before and during COVID-19 pandemic of patients with amyotrophic lateral sclerosis
Karen Pondofe (Natal, Brazil), Ozana De Fatima Costa Brito, Rayane Grayce Da Silva Vieira, Esther Beatriz Camara Da Silva, Lariza Maria Da Costa, Tatiana Ribeiro, Mario Emilio Teixeira Dourado Junior, Antonio Jose Sarmento, Guilherme Fregonezi, Vanessa Resqueti

iLiFE-Lifestyle Integrated Functional Exercise for people with interstitial lung disease: the experience of patients
Cátia Paixão (Aveiro, Portugal), Pedro Ferreira, M Aurora Mendes, Dina Brooks, Alia Marques

Successful provision of a specialised Interstitial Lung Diseases (ILD) pulmonary rehabilitation program during COVID-19 using recorded ILD educational videos developed by allied health professionals
Hana Alsomali (Newcastle upon Tyne, United Kingdom), Francesca Chambers, Evelyn Palmer, Claire Donaldson, Lyndsey Langlands, Isobel Bowe, Anne-Marie Bourke, Chris Ward, Ian Forrest

Impact of urban circuits in increasing exercise capacity in COPD
Santiago Larrateguy (Paraná, Argentina), Guillermo Mazzucco, Elena Gimeno-Santos, Rodrigo Torres-Castro, Nicolas Decarlo

The Effect of Pulmonary Rehabilitation on Exercise Capacity and Quality of Life in Patients with SCLC Receiving Chemotherapy
Seda Saka (Istanbul, Turkey), Merve Hasgül, Nur Tunalt, Süleyman Furkan Hangün, Salih Emri

Expert survey-based experiences on performing and adjusting endurance exercise training in patients with chronic respiratory disease
Rainer Gloeckl (Schoenau am Königssee, Germany), Ralf Zwick, Ulrich Fürlinger, Inga Jarosch, Tessa Schneebberger, Daniela Leitl, Rembert Koczulla, Ioannis Vogiatzis, Martijn A. Spruit

REPERCUSSION OF PHYSIOTHERAPY ORIENTATION ON FUNCTIONAL CAPACITY AND QUALITY OF LIFE AFTER CORONARY BYPASS GRAFTING ARTERY
Andre Luiz Cordeiro (Feira De Santana (BA), Brazil), Dalyla Gomes, Lucas Soares, Hayssa Mascarenhas, André Guimarães

Reliability of computerised ventilatory symptoms in people with stable bronchiectasis
Beatriz Herrero Cortina (Zaragoza, Spain), Marina Francin-Gallego, Juan Antonio Saez-Perez, Marta San Miguel-Pagola, Cristina Jácome

Late Breaking Abstract - InspiAir, the mHealth App to monitor asthma symptoms for people with asthma
Celso Ricardo Fernandes de Carvalho (São Paulo (SP), Brazil), Landro Velloso, Regina Carvalho-Pinto, Renata Yasiro, Carlos Farfan, Giselle Jensen, Lucia Filgueiras

**TP-18**

**Session 08:30 - 09:30**

**Thematic poster: Basic science of respiratory infection**

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

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

**Chairs:** James D. Chalmers (Dundee (Angus), United Kingdom), Gernot G.U. Rohde (Frankfurt am Main, Germany)
Non-typeable Haemophilus influenzae activates respiratory epithelial cell innate immune responses independently of intracellular internalisation
Timothy Hinks (Oxford, United Kingdom), Mary Brown, Sophie Morgan, Gillian Donachie, Ian Pavord, Carolina Arancibia

Acute lung inflammation in mice by inhaled aerosolized LPS: effects of various forms of human alpha 1-antitrypsin
Sabine Wrenger (Hannover, Germany), Kokilavani Sivaraman, Dirk Schaudien, Christina Hesse, Katherina Sewald, Tobias Welte, Sabina Janciauskienė

Mucosal administration of anti-bacterial antibody (Ab) provides long-term cross-protection against Pseudomonas aeruginosa respiratory infection
Thomas Secher (Tours, France), Aubin Pitiot, Marion Ferreira, Christelle Parent, Chloé Boisseau, Mélanie Cortes, Laura Bouvart, Nicolas Aubrey, Christophe Paget, Nathalie Heuzé-Vourc’h

Lack of S100A9 aggravates pneumococcal pneumonia in mice
Lena Ostermann (Hannover, Germany), Konstantina Katsarou, Regina Maus, Martin Christmann, Konstantin Neumann, Korbinian Brand, Benjamin Seeliger, Frank Bühling, Dorothee Viemann, Tobias Welte, Ulrich A. Maus

The airway metagenome in Pseudomonas aeruginosa associated severe asthma
Fransiskus Xaverius Ivan (Singapore, Singapore), Pei Yee Tiew*, Kai Xian Thng, Tavleen Kaur Jaggi, Esther Pang Pei Hwee, Ong Thun How, John Arputhan Abisheganaden, Mariko Siyue Koh, Sanjay H. Chotirmall

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Triple combinations of ferulic acid, quercetin and glycyrrhizic acid inhibit influenza virus H5N1 hemagglutinin-induced acute lung injury by targeting Janus tyrosine kinase 3 and cAMP-dependent CFTR channel
Cao Ke (Jinzhou, China), Wang Yansheng, Sun Qiang, Xu Jun

Histone deacetylase-6 (HDAC6) promotes protective responses during murine influenza A virus (IAV) infection
Katie Daly (Booker Bay, Australia), Alan Hsu, Kristy Nichol, Jay Horvat, Jemma Mayall, Phil Hansbro, Peter Wark

Effect of novel LasB inhibitor ANT3273 on activation of IL-1 in macrophage and mouse Pseudomonas aeruginosa infection models
Martin Everett (Labege, France), Nicolas Sprynski, Larock Doris, Larock Christopher, Magdalena Zalacain

IL-4 levels in sputum correlate with increased mucus production and ciliary dysfunction
Erin Cant (Dundee, United Kingdom), Mathieu Bottier, Morven Shuttleworth, Farheen Daudvohra, Ross J Urquhart, Amy Gilmour, Megan L Crichton, Diane Cassidy, Thomas Burgoyne, Claire Hogg, Jeffrey T J Huang, James D Chalmers, Amelia Shoemark

The influence of the storage medium on respiratory ciliary beating
Noemie Bricmont (Liège, Belgium), Romane Bonhiver, Lionel Benchimol, Anne-Lise Poirrier, Philippe Lefèbvre, Renaud Louis, Marie-Christine Seghaye, Céline Kempeneers

Crucial role of iron metabolism in determining outcomes of influenza A virus infection and disease
Jemma Mayall (Newcastle, Australia), Amber Pillar, Katie Daly, Alexandra Brown, Ama-Tawiah Essilfie, Henry Gomez, Richard Kim, Kristy Nichol, Chantal Donovan, Greg Anderson, David Frazer, Elizabeth Milward, Philip Hansbro, David Reid, Alan Hsu, Peter Wark, Jay Horvat

Clinically relevant administration of naive and activated mesenchymal stem cells for the treatment of bacterial induced pulmonary sepsis
Declan Byrnes (Galway (County Galway), Ireland), Claire Masterson, Hector Gonzalez, Sean Mccarthy, Daniel O’Toole, John Laffey

LSC - 2022 - Single cell transcriptomic dissection of virus induced immunopathology in interferon gamma receptor null mice
Lin Yang (Oberschleißheim, Germany), Ilia Angelidis, Lukas Heumos, Meena Ansari, Shuhong Zhou, Christoph Mayr, Lukas Simon, Maximilian Strunz, Fabian Theis, Heiko Adler, Herbert Schiller

LSC - 2022 - Influenza infection of epithelial cells alters extracellular vesicle microRNA involved in viral replication and the immune response
Laura Reid (Southampton, United Kingdom), C. Mirella Spalluto, Karl Staples, Tom Wilkinson

LSC - 2022 - Identification of a host antiviral and anti-inflammatory metabolite that protects against influenza virus s-driven morbidity and mortality
Adeline Cezard (Tours, France), Déborah Brea-Diakite, Virginie Vasseur, Loic Gonzales, Ronan Le Goffic, Bruno Da Costa, Delphine Fouquet, Thomas Baranek, Christophe Paget, Antoine Guillon, Mustapha Si-Tahar

A phage cocktail against Pseudomonas aeruginosa lung infection: results from experimental studies
Markus C. Brack (Berlin, Germany), Moritz Vollgraf, Geraldine Nouailles, Imke Korf, Sarah Wienecke, Antonia Dannheim, Holger Ziehr, Judith Bushe, Anne Voss, Achim D. Gruber, Andreas C. Hocke, Stefan Heppenstiel, Mario Toennies, Jasmin Lienau, Manfred Rohde, Christine Rohde, Sandra-Maria Wienhold, Martin Wittenrauth
Delayed immunological reaction of Human Microvascular Lung Endothelium in response to Human Coronavirus 229E infection.
Robert Szewczyk (Łódź, Poland), Mateusz Gawrysiak, Adrian Gajewski, Maciej Chałubiński

Late Breaking Abstract - Nebulized mesenchymal stem cells derived conditioned media retains the capacity to mitigate lung injury in vivo.
Hector Gonzalez Esteban (Galway, Ireland), Sean Mccarthy, Claire Masterson, Declan Byrnes, Ronan Macloughlin, John Laffey, Daniel O’Toole

Late Breaking Abstract - Single cell transcriptomic dissection of virus induced immunopathology in interferon gamma receptor null mice
Lin Yang (Oberschleißheim, Germany), Lukas Heumos, Ilias Angelidis, Meshal Ansari, Shuhong Zhou, Christoph H. Mayer, Lukas M. Simon, Maximilian Strunz, Fabian J. Theis, Heiko Adler, Herbert Schiller

Molecular characterisation of COPD exacerbations
Holly R. Keir (Dundee (Angus), United Kingdom), Hollian Richardson, Abirami Veluchamy, Daniela Alferes De Lima, Amy Gilmour, Chandani Hennayake, Alison Dicker, Megan Crichton, James D. Chalmers

Ultrasound may detect subclinical interstitial lung disease in systemic sclerosis
Marwin Gutierrez (Mexico City, Mexico), Chiara Bertolazzi, Denise Clavijo-Cornejo, Fausto Salaffi

Progressive interstitial lung disease is frequent also in late disease stages in systemic sclerosis patients from EUSTAR
Anna Maria Hoffmann-Vold (Oslo, Norway), Cathrine Brunborg, Paolo Airò, Lidia P Ananyeva, László Czirják, Serena Guiducci, Eric Hachulla, Mengtao Li, Carina Mihai, Gabriela Riemekasten, Petros P Sífkakis, Gabrielle Valentini, Otylia Kowal-Bielecka, Yannick Allamore, Oliver Distler

Anti-Ro52 antibodies positivity in antisynthetase syndrome: a single centre cohort study
Sara Lettieri (Pavia, Italy), Emanuele Bozzalla-Cassione, Giovanni Zanframundo, Valentina Vertui, Matteo Della Zoppa, Vittorio Chino, Francesco Bertuccio, Lorenzo Cavagna, Federica Meloni

Radiological Patterns and Pulmonary Function Value of Lung Involvement in Primary Sjögren’s Syndrome
Claudio Candia (Naples, Italy), Roberto Rega, Ilaria Mormile, Michela Williams, Eliana Serra, Anato De Paulis, Francesca Wanda Rossi, Antonio Molino

Adherence to daily home-based spirometry during a 3-month period in patients with ILD: The RALPMH Study
Malik A Althobiani (London, United Kingdom), Yatharth Ranjan, Joseph Jacob, Michele Orini, Richard Dobson, John R. Hurst, Joanna C. Porter, Amos A. Folarin

Gratitude perception during Mindfulness-Based Intervention (IBM) in patients with interstitial lung disease (ILD)
Silvia Maria Duarte Miranda (, ), Eliane Viana Mancuso, Gabriela Assis Pires, Luiz Fernando Ferreira Pereira, Andrew Nogueira Albuquerque Leal, Sara Cunha Paiva

Progressive fibrosing interstitial lung disease in hypersensitivity pneumonitis
Maria Laura Alberti (Buenos Aires, Argentina), Jose Maria Malet Ruiz, Leandro Fassola, Santiago Auteri, Martin Fernandez, Pablo Donati, Fabian Caro

Baseline characteristics and survival of Progressive Fibrosing Interstitial Lung Disease in Rheumatoid Arthritis. A single center retrospective study
Fabián Matias Caro (Ciudad Autónoma Buenos Aires, Argentina), Pablo Donati, Rocio Ruiz, Santiago Auteri, Leandro Fassola, Martín Eduardo Fernández, Tatiana Barbich, María Laura Alberti

Effectiveness of immunosuppressive therapy in the progression of rheumatoid arthritis-associated interstitial lung disease in adult patients. A systematic review and meta analysis
Josefa López Herrera (Santiago, Chile), Mercedes Tapia, Luis Toro, Nataly Ruiz, Mauricio Salinas

Clinical outcomes of patients with acute exacerbations in interstitial lung diseases
Mariana Ramos Martins (Faro, Portugal), David Barros-Coelho, Pedro Ribeirinho-Soares, André Terras-Alexandre, Natália Melo, Patricia Caetano-Mota, Hélder Novais-Bastos, António Morais
ILD associated with primary Sjögren’s syndrome is frequently progressive
Anna Maria Hoffmann-Vold (Oslo, Norway), Håvard Fretheim, Phuong Phuong Diep, Karoline Lerang, Helena Andersson, Øyvind Midveld, Torhild Garen, Michael Durheim, Trond Mogens Aaløkken, Øyvind Palm, Øyvind Molberg

Clinical difference of interstitial lung disease patients positive for anti-amnioacyl-tRNA (ARS) synthetase antibodies between dermatomyositis/polymyositis (PM/DM) group and non-myositis group
Masashi Momose (Kurashiki, Japan), Machiko Arita, Tadashi Ishida

PAD4 is associated with the predominance of fibrosis in interstitial lung diseases-rheumatoid arthritis
Karol Jazmin Nava Quiroz (México, Mexico), Gloria Pérez-Rubio, Ivette Buendia-Roldán, Mayra Mejía, Jorge Rojas-Serrano, Pedro Rodríguez-Henríquez, Ramcés Falfán-Valencia

Estimating the addition clinical workload required for nintedanib treatment in PF-ILD
Alana Livesey (Birmingham (West Midlands), United Kingdom), Manbir Duggal, Anjali Crawshaw, Davinder Dosanjh, David Thickett

UK Pigeon Fanciers display a high prevalence of symptoms normally associated with connective tissue disease ILD
Mark Spears (Stirling (Stirlingshire), United Kingdom), Louise Wain, Bibeck Goopu, Stephen J Bourke, Matthew Embley, Philip Lynch, Gavin Boyd, Charles Mcsharry

Assessment of initial dyspnea predicts progression of systemic sclerosis-associated interstitial lung disease (ILD-SSc) at 5 years.
Eliane Viana Manceu (Belo Horizonte (MG), Brazil), Luiz Arreguy Nogueira, Ricardo Amorim Correa, Luiz Fernando Ferreira Pereira

Computed tomography morphometric analysis of idiopathic inflammatory myopathy related interstitial lung disease correlates with forced vital capacity
Patrick Coghlan (Dublin 4, Ireland), Alex O'Mahony, Patrick Henry, Claire Crowley, David Ryan, Niamh Moore, Michael Maher, Owen J O'Connor, Michael Henry

Profile of patients with Connective disease associated ILD presenting to a tertiary care hospital in South India
Barney Isaac (Vellore (Tamil Nadu), India), Shona Christopher, Balamugesh Thangakunam, Devasahayam J Christopher

Evolution of fibrotic interstitial lung diseases (ILD) after COVID-19
Mariana Ramos Martins (Faro, Portugal), Mariana Serino, Beatriz Martins, Inês Carvalho, Carolina Valente, Miguel Barbosa, Catarina Cascais-Costa, Marina Alves, André Terras-Alexandre, Natâlia Melo, Patricia Caetano-Mota, Hélder Novais-Bastos, António Morais

Profile of patients with Connective disease associated ILD presenting to a tertiary care hospital in South India
Barney Isaac (Vellore (Tamil Nadu), India), Shona Christopher, Balamugesh Thangakunam, Devasahayam J Christopher

Progressive Idiopathic Inflammatory Myopathy-associated Interstitial Lung Diseases (IIM-ILDs)
Gioele Castelli (Padova, Italy), Elisabetta Cocconcelli, Elisabetta Zanatta, Chiara Giraudo, Nicol Bernardinello, Giordano Fiorentù, Cristina Dartora, Luca Iaccarino, Paolo Spagnolo, Elisabetta Balestro

Thematic poster: Advanced models for drug discovery and functional changes in lung disease

Therapeutic poster: Advanced models for drug discovery and functional changes in lung disease

Bleomycin-induced in vitro 3D spheroid model to emulate pulmonary fibrosis
Ozlem Goksel (Izmir (Bornova), Turkey), Ecem Saygili, Utku Devamoglu, Bakiyev Goker-Bagca, Cigir Biray-Avci, Tuncay Goksel, Ozlem Yesil-Celiktas

Reticular basement membrane proteins modulate basal airway epithelial attachment and barrier formation in asthmatic airways
Aileen Hsieh (Vancouver, Canada), Emmanuel Osei, May Fouadi, Kauna Usman, Yolanda Yang, Tillie-Louise Hackett

Late Breaking Abstract - An apical-out airway organoid model to study viral infections and assess antiviral drug effects
Georgios Stroulakis (Cambridge, United Kingdom), Tyler Brown, Douglas Kondro, Alessandro Dei, Allen Eaves, Sharon Louis, Juan Hou, Wing Chang, Salvatore Simmini

Aging Induces Stiffening of the Lung Extracellular Matrix
Isaac Almendros Lopez (Barcelona, Spain), Maria Narciso, Anna Ulldemolins, Daniel Navajas, Ramon Farre, Nuria Gavara

Autosomal recessive mutations in TP73 cause a mucociliary clearance disorder and lissencephaly
Heymut Omran (Münster, Germany), Julia Wallmeier, Diana Bracht, Hess S. Alsaiif, Ggerard W. Dougherty, Heike Olbrich, Sandra Cindric, Mark Dzietko, Christoph Heyer, Norbert Teig, Charlotte Thiels, Fowzan Alkuraya, Cordula Koerner-Rettberg
An in vivo genetic screen of lung function candidate genes using tissue-specific RNAi in Drosophila melanogaster
Emma Szamek (Nottingham, United Kingdom), Ian Sayers, Marios Georgiou, Zsuzsa Markus

Humanized Patient-derived xenograft models for developing personalized therapy against Small Cell Lung Cancer
Ralph Meuwissen (Izmir, Turkey), Hadi Rouhrazi, Sevgi Erdem, Venus Zafari, Giti Esrailnia

Airspace dilatation is present at birth and increases with age in mice with cystic-fibrosis like lung disease
Pinelopi Anagnostopoulou (Nicosia, Cyprus), Sanja Blaskovic, Dominik Schittny, Elena Borisova, Florian Kronig, Sai K. Ganesh, Zhe Zhou-Suckow, Marcus A. Mall, Christian M. Schleputz, Marco Stampanoni, Johannes C. Schittny

Respiratory disease modeling using submerged differentiated airway epithelial cells
Gimano Amatngalim (Utrecht, Netherlands), Hetty Raeven, Lisa Rodenburg, Loes Oosterhoff, Shannon Smits, Isabelle Van Der Windt, Cornelis Van Der Ent, Jeffrey Beekman

An amplification-free, innovative, multiplex assay to quantify microRNAs in single cells from COPD patients
Vanessa Ho (London, United Kingdom), Jonathan R Baker, Keith R Willison, David R Klug, Peter J Barnes, Louise E Donnelly

Novel strategies for genetic manipulation of human iPSC-derived organoid platforms
Irene Oglesby (Dublin 9, Ireland), Chiara De Santi, Anja Schweikert, Sally Ann Cryan, Killian Hurley

Development of a bronchial epithelium model innervated by sensory neurons from human induced pluripotent stem cells
FLORENT FOISSET (ILLKIRCH CEDEX, France), Christine Lehalle, Amel Nasri, Carine Bourdais, Isabelle Vachier, Said Assou, Quentin Muller, Vincent Flacher, Arnaud Bourdin, John De Vos, Nelly Frossard

Prolonged 3D culture leads to telomere length attrition in induced pluripotent stem cell-derived type 2 alveolar epithelial cells
Anja Schweikert (Dublin, Ireland), Mari Ozaki, Irene Oglesby, Killian Hurley

High through-put computerised image analysis for primary ciliary dyskinesia diagnostics
Claire L Jackson (Southampton (Hampshire), United Kingdom), Neveltha Pathmanathan, Janice L Coles, David Chatelet, Gemma Fryatt, Jane S Lucas

Cross-talk between alveolar epithelial cells and pulmonary arterial endothelial cells modulates activity of the L-arginine–dimethylarginine–NO pathway in hypoxia.
Rainer Böger (Hamburg, Germany), Lena Schmidt-Hutten, Fiona Franke, Mariola Kastner, Melanie Reckordt, Juliane Hannemann

Defining spatial secretome and ciliome across multiciliated epithelia
Md. Miraj Kobad Chowdhury (Dhaka, Bangladesh), Lynne Bingle, Colin Bingle

Defining the functions of PIERCE1 and C15ORF65 during ciliogenesis of HBEC3-KT cells
Md. Miraj Kobad Chowdhury (Dhaka, Bangladesh), Priyanka Anujan, Lynne Bingle, Colin Bingle

Relating ciliary dysfunction to clinical phenotypes in COPD
James Tonkin (London, United Kingdom), Andrew Rogers, Christopher M Orton, Francesca M Conway, Bavithra Vijayakumar, Ley Chan, Anand Tana, Cielito Caneja, Laura Avanzi, Rebecca Wawman, Alexandra Baikov, Pankaj K Bhavsar, Pallav L Shah

An artichoke-derived compound increase [Ca2+i by inhibiting Sarco/Endoplasmic Reticulum Ca2+-ATPase (SERCA) and activates airway ciliary beating in humans
Shigekuni Hosogi (Kyoto, Japan), Nobuhisa Todo, Kouta Noriyama, Nobuyo Tamiya, Masaki Shigeta, Seikou Nakamura, Koichi Takayama, Eishi Ashihara

Comparative secretome analysis of differentiated epithelial cells grown at the Air liquid interface (ALI)
Zeyad Alharbi (Sheffield (Engeland), United Kingdom), Lynne Bingle, Colin Bingle

**TP-16**

**Session**
08:30 - 09:30

**TP-16**

**Thematic poster: Surgery for mediastinal and benign thoracic diseases**

- **Disease(s):** Pulmonary vascular diseases, Thoracic oncology, Interstitial lung diseases, Airway diseases
- **Method(s):** Imaging, Surgery, Pulmonary function testing, Public health, Cell and molecular biology, Epidemiology
- **Chairs:** Stefano Elia (Roma (RM), Italy), Cecilia Pompei (Leeds, United Kingdom)

**Dyspnoea improves following composite repair of giant hiatus hernia**
Gregory Falk (Lindfield, Australia), Oleksandr Khoma, Ngar Lok Joshua Wong, Miho Mugino, Maite Jeanne Khoma, Hans Van Der Wall
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<tr>
<th>Title</th>
<th>Authors</th>
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<tr>
<td>Reflux cough and LPR: The utility of fundoplication</td>
<td>Gil Falk (Lindfield, Australia), Sashidhar Yeluri, David Mitchell, Hans Van Der Wall</td>
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<td>Impact of diaphragmatic surgery on spirometric parameters</td>
<td>YOSR BEN ATTIG (Tunis, Tunisia), Emna Ben Jemia, Rime Essid, Kaouther Ben Amara, Mohamed Sadok Boudaya</td>
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<td>Contribution of ultrasound in the postoperative evaluation of the diaphragmatic function after surgery for intrathoracic occurrence of hepatic hydatid cyst</td>
<td>YOSR BEN ATTIG (Tunis, Tunisia), Emna Ben Jemia, Kaouther Ben Amara, Siwar Hamdi, Mohamed Sadok Boudaya</td>
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<td>Pulmonary decortication: indications and results</td>
<td>Abdesselam Hentati (Sfax, Tunisia), Mouna Nasri, Walid Abid, Ahmed Ben Ayed, Zied Chaari, Imed Frihka</td>
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<td>One-stop-shop diagnosis and surgical therapy for small nodules of early stage lung cancer in a hybrid theatre</td>
<td>Claudio Caviezel (Zürich, Switzerland), Konstantinos Kostopanagiotou, Gilbert Puppie, Raphael Werner, Isabelle Opitz</td>
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<td>Thoracic approach of concomitant lung and liver hydatid cysts</td>
<td>Sarra Zairi (Tunis, Tunisia), Wissem Jendli, Hela Kamoun, Mahdi Abdennadher, Hazem Zribi, Monia Attia, Taher Mestiri, Saoussen Hantous, Adel Marghli</td>
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<td>Conservative Surgical Management in Giant Lung Hydatid Cyst</td>
<td>amina abdelkbir (ben arous, Tunisia), Mahdi Abdennadher, WIFEK SAIDANI, Mariem Hadj Dahmen, Hazem Zribi, Imen Bouacida, Amina Abdelkebir, Sonia Ouerghi, Sarra Zairi, Adel Marghli</td>
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<td>Intrathoracic hemangioma: Report of 8 cases</td>
<td>amina abdelkbir (ben arous, Tunisia), Mahdi Abdennadher, Noura Boubaker, Hazem Zribi, Sarra Zairi, Amina Abdelkabir, Imen Bouacida, Mouna Mlika, Sonia Ouerghi, Adel Marghli</td>
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<td>Primary Mediastinal Germ Cell Tumors in Children and Adolescents: a report of 6 cases</td>
<td>amina abdelkbir (ben arous, Tunisia), Kaouther Ben Amara, Mahdi Abdennadher, Amina Abdelkebir, Hazem Zribi, Aida Kaddour Ayadi, Sonia Ouerghi, Sarra Zairi, Adel Marghli</td>
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<td>Primary muscular hydatid cyst of the anterior chest wall: the pectoralis major muscle, four cases</td>
<td>amina abdelkbir (ben arous, Tunisia), Asma Saad, Imen Bouacida, Mahdi Abdennadher, Chaker Jaber, Amira Dridi, Hazem Zribi, Adel Marghli</td>
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<td>Management of pulmonary abscesses in a surgical setting</td>
<td>Sabrine Maddeh (Bizerte, Tunisia), Bechir Ben Radhia, Chrif Taieb, Kortas Chokri, Sofiane Jerbi</td>
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<td>One-stage surgery of bilateral pulmonary hydatidosis</td>
<td>amina abdelkbir (ben arous, Tunisia), Noura Boubaker, Mahdi Abdennadher, Amina Abdelkebir, Hazem Zribi, Henda Neji, Faouzi Mezni, Sonia Ouerghi, Sarra Zairi, Adel Marghli</td>
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<td>Post-CABG pleural effusions: Does previous asbestos exposure increase the risk?</td>
<td>Hugh Welch (Bristol, United Kingdom), Jessica Harris, Maria Pufulete, Arnaldo Dimagli, Umberto Benedetto, Nick Maskell</td>
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<td>Hemoptosis revealing Pulmonary arteriovenous malformation: A rare indication of surgical treatment</td>
<td>amina abdelkbir (ben arous, Tunisia), WIFEK SAIDANI, Imen Bouassida, Mahdi Abdennadher, Hazem Zribi, Amina Abdelkebir, Sarra Zairi, Amira Dridi, Adel Marghli</td>
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<td>Primary chest wall Ewing sarcoma: peculiarities of management</td>
<td>Sarra Zairi (Tunis, Tunisia), Emma Brahem, Hela Kamoun, Mehdi Abdennadher, Hazem Zribi, Monia Attia, Taher Mestiri, Saoussen Hantous, Faouzi El Mezni, Adel Marghli</td>
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<td>Neurogenic tumors of the chest wall: a report of 30 cases</td>
<td>amina abdelkbir (ben arous, Tunisia), Kaouther Ben Amara, Mahdi Abdennadher, Hazem Zribi, Sarra Zairi, Adel Marghli</td>
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<td>Surgery of malignant neurogenic tumors of the mediastinum: a series of 13 cases</td>
<td>amina abdelkbir (ben arous, Tunisia), Asma Saad, Imen Bouacida, Mariam Hadj Dahmen, Chaker Jaber, Sonia Ouerghi, Hazem Zribi, Adel Marghli</td>
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<td>The role of alveolar macrophages and smoking in the development of postoperative pulmonary complications after lung cancer surgery.</td>
<td>Sebastian Lugg (Birmingham (West Midlands), United Kingdom), Rahul Mahida, Lauren Davis, Dhruv Parekh, Babu Naidu, Aaron Scott, David Thickett</td>
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News from the Studio: Day 2 highlights not to miss

Chairs: Thierry Troosters (Leuven, Belgium), Silke Meiners (Sülfeld, Germany)

Discussion and Q&A

Symposium: Treatment of acute respiratory failure in chronic obstructive pulmonary disease patients

Aims: to provide an update on and discuss existing and new treatment options for acute respiratory failure due to chronic obstructive pulmonary disease (COPD) exacerbations; to discuss long-term outcomes and treatment options to change the long-term consequences of severe COPD exacerbations.

Disease(s): Airway diseases, Respiratory critical care

Method(s): Palliative care, Respiratory intensive care

Tag(s): Clinical

Target audience: Adult pulmonologist/Clinician, Clinical researcher, Medical Technical Assistant, Nurse, Respiratory critical care physician, Respiratory physiotherapist, Journalist

Chairs: Leo Heunks (Amsterdam, Netherlands), Miriam Barrecheguren Fernandez (Barcelona, Spain)

Evidence-based recommendations for non-invasive ventilation in patients with acute COPD exacerbations
Marieke L. Duiverman (Groningen, Netherlands)

Nasal high-flow therapy for acute COPD exacerbations: the new kid on the block
Paolo Navalesi (Padova, Italy)

Invasive mechanical ventilation and extracorporeal CO2 removal in patients with acute COPD exacerbations
Christian Karagiannidis (Cologne, Germany)

Long-term outcomes after severe COPD exacerbations
Rebecca D'Cruz (London, United Kingdom)

Discussion and Q&A

Symposium: Dangers in the air we breathe

Aims: to present recent scientific highlights about the effects of airborne pollution factors, especially allergens, diesel exhaust particles, microplastics and microtextiles, on the lungs; to compare their effects in children and adults; to discuss the biology of allergen-induced lung disease; to describe biological sex differences in response to exposure to these factors. The dangers of airborne environmental factors to the human lung are of great and diverse interest due to the current strong international focus on climate change and air pollution.

Disease(s): Airway diseases, Paediatric respiratory diseases

Method(s): Cell and molecular biology, Epidemiology, Public health

Tag(s): Translational

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

Chairs: Charlotte Suppli Ulrik (Virum, Denmark), Catherine Greene (Dublin 9, Ireland)

Overview of environmental factors affecting allergic airway disease
Cezmi A. Akdis (Davos, Switzerland)

Smoke, smog and aeroallergens: effects on children and adults
Mary Rice (Boston, United States)

Microplastics and microfibres in the air we breathe
Barbro N. Melgert (Groningen, Netherlands)

Effects of inhaled diesel exhaust particles on airway inflammation
Neeloffer Mookherjee (Winnipeg (MB), Canada)

Discussion and Q&A
8H (live-streamed)  Session  09:30 - 11:00

Hot topics: Bronchiectasis: how recent advances in research can support personalised medicine in practice

From research to personalised medicine in bronchiectasis

**Aims:** To provide the most recent advances in the understanding of bronchiectasis and in potential applications in clinical practice; to improve the clinical management of the disease through a personalised medicine approach.

**Disease(s):** Respiratory infections

**Method(s):** Cell and molecular biology  Imaging  Pulmonary rehabilitation

**Tag(s):** Translational

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Technical Assistant, Patient, Radiologist, Respiratory physiotherapist, Scientist (basic, translational), Respiratory therapist, Journalist

**Chairs:** Eva Polverino (Barcelona, Spain), Giovanni Sotgiu (Sassari, Italy)

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>09:30</td>
<td>The role of microbiome analysis in the pathophysiology and clinical management of bronchiectasis</td>
<td>Sanjay Haresh Chotirmall (Singapore, Singapore)</td>
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<tr>
<td>09:45</td>
<td>Bronchiectasis: is airways inflammation more important to tag than infections?</td>
<td>James D. Chalmers (Dundee (Angus), United Kingdom)</td>
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<tr>
<td>10:00</td>
<td>How technological innovation can support physicians regarding decision making in bronchiectasis</td>
<td>Harm Tiddens (Rotterdam, Netherlands)</td>
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<td>10:15</td>
<td>What we need to build a multidisciplinary team for the optimal management of bronchiectasis</td>
<td>Stefano Aliberti (Milano (MI), Italy)</td>
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11:00 Discussion and Q&A

8B (live-streamed)  Session  09:30 - 11:00

Clinical trials session: ALERT 2: Digital and paediatric

**Aims:** Including the ALERT sessions (Abstracts Leading to Evolution in Respiratory Medicine Trials), these formats showcase important and very late-breaking clinical trial data from all respiratory disease areas. Presenters, session chairs and viewers will take part lively discussions on the presented trials.

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

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

**Tag(s):** Clinical

**Chairs:** Anita Simonds (London, United Kingdom), Ay e Arzu Yorganc o lu (Konak, Turkey)

**Discussants:** Andrea Aliverti (Milan, Italy), Discussant to be confirmed

**Late Breaking Abstract - Clinically relevant effects on physical activity with web-based self-management support in people with COPD: a randomized controlled trial**

Andre Nyberg (Umeå, Sweden), Tobias Stenlund, Åsa Karlsson, Per Liv, Karin Wadell

**Effect of an immediate, remote smoking cessation intervention vs usual care among participants enrolled in lung health check: QuLIT2 study.**

Parris Williams (London, United Kingdom), Keir Philip, Navjot Kaur-Gill, Deirdre Flannery, Sara Butterly, Emily Bartlett, Anand Devaraj, Jamie Addis, Samuel Kemp, Michelle Chen, Jane Derbyshire, Katie Morris, Anthony Laverty, Nicholas Hopkinson

**RCT Abstract - Effect of pharmacy-supported digital medicine program on asthma control**

Luca Ponti (Milan, Italy), Cristina Onnis, Sebastian Ferri, Job Van Der Palen, John Pritchard, Mauro Citterio, Giuseppe Recchia, Luca Ponti, Martijn Grinovero

**Wrap-up by discussant and discussion**

Andrea Aliverti (Milan, Italy)

**Antibiotic use during severe RSV bronchiolitis may increase subsequent recurrent wheeze risk**

Late Breaking Abstract - Inhaled corticosteroids to improve lung function in survivors of very preterm birth: PICSI RCT
Shannon Simpson (Perth (WA), Australia), Rhea Urs, Denby Evans, Tiffany Bradshaw, Rachel Foong, Elizabeth Smith, James Gibbons, Andrew Wilson

Wrap-up by discussant and discussion
Speaker to be confirmed

Closing remarks

8A (live-streamed) Session 09:30 - 11:00

State of the art session: Interstitial lung diseases
Trends, controversies and open questions in ILD
Aims: to present significant insights gained recently about many different forms of rare lung diseases, i.e cystic lung diseases (lymphangioleiomyomatosis), fibrosing lung diseases. To discuss new treatment options that have been licensed for different pulmonary complications of autoimmune diseases, which commonly affect the lungs; to provide an update about drug-induced lung diseases that are an important differential diagnosis of ILDs; to discuss challenges in diagnosis and treatment. to emphasize the importance of acute exacerbations which are one of the most debilitating complications of mainly fibrosing ILDs and are a neglected field.

Disease(s): Interstitial lung diseases
Method(s): Imaging Respiratory intensive care
Tag(s): Clinical
Target audience: Adult pulmonologist/Clinician, Clinical researcher, Medical Student, Respiratory critical care physician, Physician in Pulmonary Training, Radiologist
Chairs: Katerina Antoniou (Heraklion, Greece), Karen Moor (Rotterdam, Netherlands), Sergio Harari (Milano (MI), Italy)

09:30 New trends in cystic lung diseases
Cormac McCarthy (Dublin 4, Ireland)

09:45 Acute exacerbations of fibrosing ILDs: controversies and new insights
Michael Kreuter (Heidelberg, Germany)

10:00 Pulmonary manifestations in autoimmune diseases
Elisabeth Bendstrup (Aarhus N, Denmark)

10:15 Drug-induced lung diseases: past, present and future
Philippe Camus (Dijon, France)

10:30 Discussion and Q&A

Studio Session 09:30 - 12:15

Online skills lab: Interventional pulmonology
Aims: To demonstrate bronchoscopic techniques for the diagnosis, nodal staging and treatment of lung cancer
To provide update on novel interventional techniques
To demonstrate how to perform cryobiopsy in ILD
To demonstrate how to do rigid thoracoscopy and pleuro desis for suspected pleural malignancy.
To demonstrate TUS in various pulmonary diseases including interventions
Chairs: Jouke T. Annema (Amsterdam, Netherlands), Daniela Gompelmann (Vienna, Austria)

09:30 Introduction

09:35 Diagnostic bronchoscopic procedures: Cryobiopsy for ILD
Claudia Ravaglia (Forlì, Italy)

09:50 Diagnostic bronchoscopic procedures: Bronchoscopic Access to peripheral lesions using conebeam + radial ebus
Erik H.F.M. van der Heijden (Nijmegen, Netherlands)

10:05 Diagnostic bronchoscopic procedures: Combined EBUS and EUS-B for lung cancer staging
Artur Szlubowski (Kraków, Poland)

10:20 Diagnostic bronchoscopic procedures: Cryo – TBNA for lung and mediastinal diagnosis
Felix J.F. Herth (Heidelberg, Germany)

10:35 Q&A
10:45 Break

11:00 Therapeutic bronchoscopic/pleural procedures: Airway recanalization for central airway obstruction
Jiri Votruba (Prague, Czech Republic)

11:15 Therapeutic bronchoscopic/pleural procedures: Radiofrequent ablation for bronchoscopic lungtumor treatment
Judith Brock (Heidelberg, Germany)

11:30 Therapeutic bronchoscopic/pleural procedures: One stop Rapid Pleurodesis - Thoracoscopic Talc Poudrage for malignant pleural effusions
Mohammed Munavvar (Preston (Lancashire), United Kingdom)

11:45 Therapeutic bronchoscopic/pleural procedures: Bronchial thermoplasty and Optical Coherance Tomography for severe asthma
Peter I. Bonta (Amsterdam, Netherlands)

12:00 Q&A

8N Session 09:45 - 11:00

Oral presentation: Chronic and acute lung infections in children

Disease(s) : Airway diseases
Method(s) : General respiratory patient care Surgery Cell and molecular biology Public health Endoscopy and interventional pulmonology Pulmonary function testing Epidemiology
Chairs : Marijke Proesmans (Leuven, Belgium), Stefan Unger (Edinburgh (Edinburgh), United Kingdom)

Reticular basement membrane thickness for prediction of subsequent lung function in children with primary ciliary dyskinesia: follow up study.
Václav Koucký (Tanvald, Czech Republic), Jiří Uhlík, Petr Pohnunk

Distinct inflammatory responses and effect of Azithromycin on respiratory cells in PCD
Zofia Varényiová (Prague, Czech Republic), Laura Rojas, Jacquelyn Spano, Tyson Holmes, Carlos Milla

Mannose-binding lectin genotype in relation to childhood respiratory infection and atopy outcomes: a multi-centre cohort study
Tom Ruffles (hove, United Kingdom), Kaninika Basu, Sarah Inglis, Stephen Bremner, Heike Rabe, Anjum Memon, Paul Seddon, Roger Tavendale, Colin Palmer, Somnath Mukhopadhyay, Katy Fidler

Proteomics of paediatric airway secretions to identify potential biomarkers to guide antibiotic decision making in LRTI
Jonathan Twynam-Perkins (Edinburgh, United Kingdom), Anna Karagianni, Samir Saha, Judit Aguilar, Dominic Thekkedath Kurian, Hafizur Rahman, David Dockrell, Steve Cunningham

Investigating markers of pulmonary aspiration in bronchoalveolar lavage from children with severe neurodisability
Rosie Maher (Liverpool, United Kingdom), Robert Beynon, Ruth Trinick, Paul Mencamara

Pulmonary genetic basis of bronchiolitis obliterans in children
Hasan Yuksel (Manisa, Turkey), Gülşüm Kayhan, Mahmut Turğut, Merve Öçalan, Özge Yılmaz

Fish oil and vitamin D supplementations in pregnancy protect against childhood croup
Nicklas Brustad (Gentofte, Denmark), Luo Yang, Bo Chawes, Jakob Stokholm, Gözde Gürdeniz, Klaus Bønnelykke, Hans Bisgaard

Plasma steroid metabolite profiles are strongly associated with childhood respiratory infection proneness (CRIP)
Craig Wheelock (Stockholm, Sweden), Nicole Prince, Min Kim, Rachel Kelly, Hans Bisgaard, Bo Chawes, Jessica Lasky-Su

Surgery for hydatid cyst of the lung in children: over 30-years bi-centric experience.
Abdessalem Hentati (Sfax, Tunisia), Zied Chaari, Aymen Ben Ayed, Emna Krichen, Saloua Ammar, Walid Abid, Riadh Mhiri, Imed Frikha

Late Breaking Abstract - The monopoly of minor group rhinovirus in respiratory virus infection in children during the SARS-CoV-2 pandemic
Chun Sang PUN (Hong Kong, Hong Kong), Shaojun Liu, K.P. Tao, Yan Wang, Joseph G.S. Tsun, Agnes S.Y. Leung, Zigui Chen, Paul K.S. Chan, Kate C.C. Chan, Albert M. Li, Renee W.Y. Chan

Discussion
Maternal PIGR deficiency predisposes to severe viral bronchiolitis by affecting the infant microbiome and neonatal immune development
Ridwan Rashid (Brissbane City, Queensland, 4006, Australia), Paraic O Cuiv, Robert Hoelzle, Paul Dennis, Simon Phipps

Unravelling the role of miR-223 in the regulation of pollutant-aggravated allergic airway inflammation
Tania Maes (Ghent, Belgium), Mirjam Roffel, Annelies Bontinck, JoyceLine De Volder, Corry-Anke Brandsma, Sonja Skevin, Filip Van Nieuwbergh, Guy Joos, Guy Brusselle, Ken Bracke, Maarten Van Den Berge, Irene Heijink

LSC - 2022 - G-CSF drives pathophysiology of RV-induced allergic asthma exacerbations by potentiating neutrophili c inflammation and ILC2 function
Nicoletta Bruno (London, United Kingdom), Aran Singanayagam, Hugo A. Farne, Julia Aniscenko, Nicholas Glanville, Chloe J. Pyle, Dhiren F. Patel, Sebastian L. Johnston, Robert J. Snelgrove

Maternal PIGR deficiency predisposes to severe viral bronchiolitis by affecting the infant microbiome and neonatal immune development

LSC - 2022 - Nasal polyposis in severe asthma is associated with airway autoimmunity towards eosinophils and macrophages
Lise Lotte Eriksen (Copenhagen NV, Denmark), Anna Von Bülow, Laurits Frossing, Morten Hvidtfeldt, Ditte Kjaersgaard Klein, Manali Mukherjee, Parameswaran Nair, Celeste Pursbjerg

IL-6high asthma is associated to a downregulation of several exosomal microRNAs
Sara Vázquez-Mera (Santiago de Compostela, Spain), Pablo Migués-Suárez, Laura Martelo-Vidal, Juan José Nieto-Fontarigo, Coral González-Fernández, Uxio Calvo-Alvarez, Ana Faraldo-Garcia, Christian Calvo-Henriquez, Paula Méndez-Brea, Francisco-Javier González-Barcala, Francisco Javier Salgado-Castro

Reduced ACE2 and TMPRSS2 immunopositive bronchial cells in asthmatics after inhaled allergen challenge.
Christiane Whetstone (Hamilton, Canada), Maral Ranjbar, Nadia Alsaji, Dhuha Al-Sajee, Lesley Wiltshire, Jennifer Wattie, Paul O’Byrne, Ruth Cusack, Roma Sehmi, Gail Gauvreau

LSC - 2022 - Distinct metabolic reprogramming of airway epithelium in asthma in response to infection wit rhinovirus
Urszula Radzikowska (Davos Platz, Switzerland), Mengting Huang (Davos Wolfang, Switzerland), Mei Ding, Urszula Radzikowska, Juan Rodriguez-Coira, Nino Stocker, Ge Tan, Anja Heider, Sebastian Johnston, Cezmi A. Akdis, Milena Sokolowska

Effect of exercise training on Treg cell response in severe COPD individuals: a randomized and controlled trial
Fernanda Degobbi Tenorio Quirino dos Santos Lopes (São Paulo (SP), Brazil), Juliana Tiyaki Ito, Luana M Oliveira, Luan V Alves, Rafaela F Xavier, Maria N Sato, Celso R F Carvalho, Iolanda F L C Tiberio

Differences in Innate Lymphoid Cell profiles between COPD, asthma, smoking controls and non-smoking healthy controls
Cathelijne van Zelst (Rotterdam, Netherlands), Johannes In T Veen, Geertje De Boer, Marjolein De Bruijn, Menno Van Nimwegen, Estee Van Der Ploeg, Lisette Krabbendam, Denise Van Uden, Ralph Stadhouders, Gerdien Tramper-Stranders, Gert-Jan Braunstahl, Rudi Hendriks

Late Breaking Abstract - IL-23 contributes to Particulate Matter induced allergic asthma in neonatal mice
Hyun Seung Lee (Seoul, Republic of Korea), Heung-Woo Park, Kyoung-Hee Lee

Discussion

Mini symposium: Deconstructing the developing lung at the single cell level to determine phenotypes and cell-specific targets of bronchopulmonary dysplasia
Aims: to contrast and differentiate cell-specific changes and cell-cell interdependency in the pathogenesis of bronchopulmonary dysplasia (BPD) compared with normal lung development, to provide new phenotype-directed and cell-specific targeted strategies for the prevention and treatment of BPD using systems biology approaches; to define the evolution of lung cell heterogeneity and transcriptomic diversity at single-cell resolution across late lung development; to differentiate phenotypes and endotypes of BPD using transcriptomic approaches together with clinical characteristics; to contrast individual cell types and their proportion in phenotypes of BPD using scRNAseq; to identify cell-cell communication and interdependency by combining systems biology with phenotypes of BPD; to describe new preventive and therapeutic strategies with cell-targeted approaches; and to decipher innovative avenues to protect and regenerate lungs through integration of transcriptomics, proteomics and individual risk. This symposium will not only compare new cellular and molecular insights into the origins of different phenotypes of BPD, but also contrast cell-cell interaction and interdependency in healthy lungs and phenotypes of BPD. Beyond the novel mechanistic insight, the speakers will also describe exciting new therapeutic strategies such as cell-targeted therapy and how the use of combined systems biology will drive precision medicine.
**Disease(s):** Paediatric respiratory diseases, Pulmonary vascular diseases

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

**Tag(s):** Translational

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

**Chairs:** Rory Morty (Heidelberg, Germany), Niki Ubags (Epalinges, Switzerland)

**09:45**  
**Phenotypic diversity of the lung vasculature during a period of rapid postnatal growth**  
Cristina M. Alvira (Palo Alto, Stanford, United States)

**09:59**  
**Intercellular communication of the alveolar niche in postnatal lung health and bronchopulmonary dysplasia**  
Miguel Angel Alejandre Alcázar (Köln, Germany)

**10:13**  
**Placental impact on the developing fetal lung and phenotypes of bronchopulmonary dysplasia**  
Elizabeth Taglauer (Boston, United States)

**10:27**  
**Novel therapeutic cell-based strategies for neonatal chronic lung disease: pros and cons**  
Bernard Thébaud (Ottawa (ON), Canada)

**10:41** **Discussion and Q&A**

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**Mini symposium: The two sides of every story: New translational insights into the heterogeneity of the obstructive sleep apnea effect and its treatment**

**Aims:** to describe the latest evidence supporting the heterogeneous effects of OSA and its treatment in different pathologies associated with this sleep breathing disorder; to identify the heterogeneous effects of OSA and its treatment with CPAP, and its relationship with the genetic background of the patient; to explain the latest the potential dual effect of OSA as a deleterious disorder or potential promoter of protective mechanisms.

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

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

**Tag(s):** Translational

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

**Chairs:** Manuel Sanchez De La Torre (Lleida, Spain), Athanasia Pataka (Thessaloniki, Greece)

**09:45**  
**Differential effects of OSA and the response to its treatment: role of the genetic background**  
Olivia Veatch (Kansas City, United States)

**10:00**  
**Potential dual effect of OSA on ischemic myocardium: from animal models to clinical data**  
Claire Arnaud (Grenoble, France)

**10:15**  
**From basic to clinical science in the relationship between OSA and cancer**  
Isaac Almendros Lopez (Barcelona, Spain)

**10:30** **Discussion and Q&A**

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**INDUSTRY SKILLS LAB WORKSHOP**

**Skills workshop: SW5 Cardiopulmonary rehabilitation beyond the basics**

**Aims:** To describe diagnostic methods and interventions that enhance the comprehensiveness of cardiopulmonary rehabilitation programmes and contribute to a more patient-tailored approach; to describe methods of assessing physical activity level in patients referred for cardiopulmonary rehabilitation and methods of providing cognitive behavioural therapy to promote physical activity; to describe neuromuscular electrical stimulation and the patients referred for cardiopulmonary rehabilitation who could benefit from this treatment; and to describe the incorporation of mindfulness-based interventions into cardiopulmonary rehabilitation and their outcomes.
Disease(s) : Airway diseases
Method(s) : Pulmonary rehabilitation
Tag(s) : Clinical
Target audience : Adult pulmonologist/Clinician, Clinical researcher, Respiratory therapist, Respiratory physiotherapist, Medical Student, Medical Technical Assistant, Nurse, Patient, Physician in Pulmonary Training, Physiologist, Journalist
Chairs : Frits M.E. Franssen (Horn, Netherlands)

10:40 Introduction

10:40 Physical activity assessment and intervention
Heleen Demeyer (Leuven, Belgium)

10:40 Neuromuscular electrical stimulation
Maurice J.H. Sillen (Horn, Netherlands)

10:40 Frailty assessment and intervention
Roberto Benzo (Rochester, United States)

10:40 Mindfulness interventions during cardiopulmonary rehabilitation
Alice Malpass (Bristol, United Kingdom)

8B (live-streamed) Session 11:15 - 12:45
Symposium: How a crisis impacts health care providers and patients
Congress chair award session

Aims : This congress chair session aims to discuss the impact of health crisis such as the war in Ukraine on health care providers (in the frontline and those taking care of refugees) and on patients. It will also illustrate how international organizations can support during health crisis.

Disease(s) : Airway diseases, Respiratory infections
Method(s) : Epidemiology, General respiratory patient care, Public health
Tag(s) : Clinical
Target audience : Adult pulmonologist/Clinician, General practitioner, Medical Student, Medical Technical Assistant, Nurse, Respiratory critical care physician, Patient, Physician in Pulmonary Training, Respiratory physiotherapist, Thoracic surgeon, Respiratory therapist, Journalist
Chairs : Anita Simonds (London, United Kingdom), Ay e Arzu Yorganc o lu (Konak, Turkey)

11:15 The role of WHO during (regional and global) health crises.
Hans Henri P. Kluge (Copenhagen, Denmark)

11:30 How a war changes respiratory medicine. Reflections as a health care provider in Ukraine.
Vitalii Poberezhets (Vinnytsia, Ukraine)

11:45 Being a patient at (or away from depending on the patient) the frontline. My reflections as a patient
Speaker to be confirmed

11:50 Impact of a war on the organization of respiratory health care
Yuri Feshchenko (Kyiv, Ukraine)

11:55 Respiratory Healthcare and challenges in caring for refugees
Speaker to be confirmed

12:10 Supporting frontline respiratory teams in 2022 - an ERS perspective
Joanna Chorostowska-Wynimko (Warsaw, Poland)

12:20 Discussion and Q&A

8G (live-streamed) Session 11:15 - 12:45
Hot topics: The Human Lung Cell Atlas: a universal reference for all respiratory scientists
The closing symposium of the discovAIR H2020 project
Aims: to empower the participants to use the Human Lung Cell Atlas for their own translational or basic research. To achieve this, the hot topic symposium at ERS2022 will introduce the Human Lung Cell Atlas, provide examples of the use of the Atlas, and illustrate the value of the Atlas for basic and translational research into lung diseases. After this symposium, the participants will be able to find the Human Lung Cell Atlas, to access the Atlas for gene- or cell-type-oriented queries for their own research activities, to use the Atlas for harmonised cell-type annotation of their own datasets and to contrast their own data from lung disease samples to the universal healthy reference present in the Atlas.

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

Method(s): Cell and molecular biology, Physiology

Tag(s): Basic science

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

Chairs: Catherine Greene (Dublin 9, Ireland), Charlotte Suppli Ulrik (Virum, Denmark)

11:15 Introduction of the “discovAIR consortium”
Speaker to be confirmed

11:20 The Human Lung Cell Atlas: how to use this universal reference of the cellular landscape of the healthy lung to answer your own research questions
Malte Lücken (Oberschleissheim, Germany)

11:35 Spatial transcriptomics reveals variation in cellular neighbourhoods and transcriptional programmes in healthy and diseased lung tissue
Alexandra Firsova (Stockholm, Sweden)

11:50 A unique IgA-producing plasma cell niche in submucosal glands revealed by spatially informed single-cell transcriptomic analyses
Amanda Oliver (Cambridge, United Kingdom)

12:05 Multimodal analysis of substissular niches and cell circuits in chronic lung disease
Herbert Schiller (Munich, Germany)

12:20 Discussion and Q&A

8N Session 11:15 - 12:30

Oral presentation: Clinical and translational studies of asthma and COPD: novel mechanisms

Disease(s): Airway diseases

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

Chairs: Lena Uller (Lund, Sweden), Francisco Javier Salgado Castro (Santiago De Compostela, Spain)

Calcaratarin D reduces airway inflammation and oxidative damage by modulating alveolar macrophages via Michael acceptor system
Wupeng Liao (Singapore, Singapore), Yu Ci Hazel Foo, Thi Ngoc Quy Tran, Wai-Shiu Fred Wong

Effect of tezepelumab on seasonal exacerbations in patients with severe, uncontrolled asthma grouped by blood eosinophil count
Andrew Menzies-Gow (London, United Kingdom), Jonathan Corren, Christopher S Ambrose, Gene Colice, Stephanie L Roseti, Åsa Hellqvist, Kamil Kmita, Andrew W Lindsley, Bill Cook

Extracellular HSP60 induces airway wall remodeling via Toll-Like-Receptors in mice
Lei Fang (Basel, Switzerland), Junling Li, Liang Zhou, Naria Segueni, Bernhard Ryffel, Michael Tamm, Michael Roth

Identification of steroid-response pathways related to FeNO levels in asthma bronchial epithelium
Mandy Menzel (Lund, Sweden), Morten Hvidtfeldt, Ditte Klein, Juan Jose Nieto-Fontarigo, Asger Sverrild, Lena Uller, Celeste Porsbjerg

Tozorakimab: a dual-pharmacology anti-IL-33 antibody that inhibits IL-33 signalling via ST2 and RAGE/EGFR to reduce inflammation and epithelial dysfunction

Effects of anti-IL 17 on inflammation in Asthma, COPD and Asthma-COPD models
Francine Maria Almeida (São Paulo (SP), Brazil), Leandro Nascimento Camargo, Nilo Martins, Juliana Dias Lourenço, Suellen Karoline Moreira Bezerra, Beatriz Saravia-Romanholo, Edna Aparecida Leick, Fernanda Degobbi Q.S. Lopes, Carla Máximo Prado, Renato Fraga Righetti, Iolanda Fatima Lopes Calvo Tibério
The impact of anti-IL5 therapies on patients with severe eosinophilic asthma: a proteomic approach
Paolo Cameli (Siena (SI), Italy), Lorenza Vantaggiato, Miriana D'Alessandro, Laura Bergantini, Enxhi Shaba, Alfonso Carleo, Fabrizio Di Giuseppe, Stefania Angelucci, Luca Bini, Elena Bargagli, Claudia Landi

Montelukast reverses 2-adrenoceptor tolerance in airway smooth muscle and shows a synergic effect in vivo
Ida Cerqua (Napoli, Italy), Elisabetta Granato, Marcello Nicolas Muscarà, Giuseppe Cirino, Beatrice Severino, Rocco Pavese, Antonio Petti, Giuseppe Caliendo, Fiorentina Rovizzetto

THE PDE4 INHIBITOR TANIMILAST SHOWS DISTINCT IMMUNOMODULATORY PROPERTIES ASSOCIATED WITH A TYPE 2 ENDOTYPE AND CD141 UPREGULATION
Fabrizio Facchinetti (Parma (PR), Italy), Hoang Oanh Nguyen, Valentina Salvi, Laura Tiberio, Mirco Govoni, Gino Villetti, Maurizio Cивelli, Ilaria Barbazza, Carolina Gaudenzi, Mauro Passari, Tiziana Schioppa, Francesca Sozio, Annalisa Dal Prete, Silvano Sozzani, Daniela Bosso

Late Breaking Abstract - GPR120 (FFA4) attenuates airway epithelial remodeling in allergic airway inflammation
Aekkacha Moonwiriyakit (Bangkok, Thailand), Chantapol Yimnual, Rattikarn Noitem, Sasiwimol Dinsuwannakol, Virawudh Soontornniyomkij, Chatchai Muanprasat

Discussion

Session 8F 11:15 - 12:30
Oral presentation: Lung cancer: from screening to early diagnosis

Disease(s): Thoracic oncology, Airway diseases
Method(s): Imaging, Public health, Surgery, General respiratory patient care, Epidemiology, Endoscopy and interventional pulmonology

Implementation of lung cancer screening: an European survey
Jan van Meerbeeck (Edegem (Antwerp), Belgium), Annemieke Snoeckx

Radiomics to increase the effectiveness of lung cancer screening programs. Radiolung preliminary results.
Antoni Rosell Gatracos (Badalona (Barcelona), Spain), Sonia Baeza, Samuel Garcia-Reina, José Luis Mate, Ignasi Guasch, Isabel Nogueira, Ignasi Garcia-Olivé, Guillermo Torres, Carles Sánchez-Ramos, Debora Gil

Pilot lung cancer screening program results in Serbia during 1-year period
Jelena Djekic Malbasa (Novi Sad, Republic of Serbia), Darijo Bokan, Bojan Zaric, Snezana Bojanic, Dragan Dragisic

Radiology quality assurance in the Yorkshire Lung Screening Trial.
Sara Upperton (Leeds, United Kingdom), Claire Bradley, Bobby Bhartia, Philip Crosbie, Michael Darby, Rhan Gabe, Neil Hancock, Martyn Kennedy, Matthew Callister

A novel method exhale breath fingerprinting for lung cancer diagnosis by selected ion monitoring mode
Tuncay Göksel (Izmir, Turkey), Levent Pélt, Tugberk N. Dizdas, Aycan Arın, Su Özgür, Ilknur Erbaş, Ozlem Goksel, Fusun Pelit, Burak Ordin, Haydar S. Karakuş, Arif Gursoy, F.Nil Ertaş

Sharina Kort (Enschede, Netherlands), Marjolein Brusse - Keizer, Hugo Schouwink, Emanual Citgez, Frans De Jongh, John Van Putten, Ben Van Den Borne, Lisanne Kastelijn, Daiana Stolz, Milou Schuurbiers, Michel Van Den Heuvel, Wouter Van Geffen, Job Van Der Palen

Particles in exhaled air – a new diagnostic tool for patients with lung adenocarcinoma
Jesper Andreasson (, Sweden), Embla Bodén, Gabriel Hirdman, Camilla Von Wachter, Oskar Hallgren, Mohammed Fakhro, Franziska Olm, Sandra Lindstedt

Late Breaking Abstract - Incidence of lung cancer in Chronic Obstructive Pulmonary Disease (COPD) patients: Prognostic factors and survival analysis
Parichat Niyomthong (Phrae, Thailand)

Late Breaking Abstract - Safety and feasibility of a novel externally cooled bronchoscopic radiofrequency ablation catheter for ablation of peripheral lung tumours: a first-in-human dose escalation study
Daniel Steinfort (Clifton Hill (VIC), Australia), Phillip Antippa, Kanishka Rangamunwa, Louis Irving, Michael Christie, Ewan Chan, Don Tanaka, Ken Yoneda, Felix Herth, Shashank Raina, Jemma Christie

Discussion
**Oral presentation: Novelties in pulmonary hypertension management**

**Disease(s):** Pulmonary vascular diseases, Interstitial lung diseases

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

**Chairs:** Sheila Ramjug (Altrincham, United Kingdom), Chair to be confirmed

- Impact of pulmonary arterial hypertension on employment, work productivity and quality of life - results of a cross-sectional multi-center study
  Jan Fuge (Hannover, Germany), Da-Hee Park, Thomas Von Lengerke, Manuel Richter, Henning Gall, Hossein A. Ghofrani, Jan C. Kamp, Marius M. Hoeper, Karen M. Olsson

- A combined measure of pulmonary vascular resistance and compliance variations in Pulmonary Hypertension (PH)
  Edoardo Airò (Pisa (PI), Italy), Carolina Bauleo, Renato Prediletto, Bruno Formichi, Ivana Pavlickova, Mauro Raciti, Simonetta Monti

- Effect of sotatercept on multicomponent improvement in the PULSAR study

- Characteristics and management of chronic thromboembolic pulmonary disease patients without pulmonary hypertension in an expert centre
  Benoit Lechartier (Lausanne, Switzerland), Mitja Jevnikar, Elie Fadel, Philippe Brenot, Antoine Beurnier, David Montani, Laurent Savale, Olivier Sitbon, Marc Humbert, Xavier Jais

- Metabolic modulation of the right ventricle and pulmonary circulation in pulmonary arterial hypertension: an interventional study using a Glucagon-like-peptide-1 (GLP-1) agonist
  Chinthaka Samaranayake (London, United Kingdom), Aleksander Kempny, Laura C Price, Joy Pinguell, Eleanor Morris, Eva Moriarty, Mahitha Gummadi, Konstantinos Dimopoulos, S John Wort, Lan Zhao, Colm McCabe

- Baseline characteristics of patients included into the ERS Clinical Research Collaboration: “Pulmonary Hemodynamics during Exercise - Research Network” (PEX-NET) registry
  Gabor Kovacs (Graz, Austria), Marc Humbert, Philippe Herve, Alexander Avian, Nazzareno Galie, Gregory Lewis, Rogerio Souza, Silvia Ulrich, Anton Vonk Noordegraaf, Mads Andersen, Joan Albert Barbera, Isabel Blanco, Robin Condliffe, Michele D’Alto, Benjamin Egenlauf, Ralf Ewert, Ekkehard Gruenig, Alexander Heine, Simon Herkenrath, Steven Hsu, Krzysztof Kasperowicz, Susanna Mak, Bradley Maron, Colm McCabe, Rudolf Oliveira, Stephan Rosenkranz, Laurent Savale, Stephanie Saxon, David Systrom, Ryan Tedford, Adam Torbicki, Horst Olschewski

- New diagnostic criteria and PVR thresholds in SSc-associated PH: Insights from the ASPIRE registry
  Robin Condliffe (Sheffield (South Yorkshire), United Kingdom), Ashraf Al-Haque, Athanasios Charalampopoulos, Krit Dwivedi, Charlie Elliot, Abdul Hameed, Neil Hamilton, Rob Lewis, Sheila Ramjug, Alex Rothman, Roger Thompson, Andy Swift, David Kiely

- The preponderance of genetic involvement in paediatric pulmonary hypertension
  Julien GRYNBLAT (Paris, France), Sophie Malekzadeh Milan, Mathilde Meot, Isabelle Szepesanski, Marilyne Levy, Damien Bonnet

- Inhaled treprostinil in patients with pulmonary hypertension due to interstitial lung disease: event-free survival in INCREASE study open-label extension
  Steven D Nathan (Falls Church, United States), Rahul Argula, Sudarshan Rajagopal, Shilpa Johri, David De La Zerda, Dana Meglottlin, Peter Smith, Cq Deng, Melissa Miceli, Victor Tapson, Aaron Waxman

- Late Breaking Abstract - Risk stratification in pulmonary veno-occlusive disease
  Athénais Boucly (Le Kremlin Bicêtre, France), Laurent Savale, Xavier Jaïs, Antoine Beurnier, Mitja Jevnikar, Marc Humbert, Olivier Sitbon, David Montani

**Discussion**

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**Oral presentation: Obstructive sleep apnea consequences and management**

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

**Method(s):** Epidemiology, Imaging, Physiology

**Chairs:** Silke Ryan (Dublin, Ireland), Raphael Heinz (Lausanne, Switzerland)
Long-term effect of OSA and CPAP on blood pressure in patients with acute coronary syndrome: A post-hoc analysis of the ISAACC study. Manuel Sanchez De La Torre (Lleida, Spain), Andrea Zapater, Gerard Torres, Esther Gracia-Lavedan, Ivan David Benitez, Alicia Sanchez-De-La-Torre, Jordi De Batlle, Adriano Targa, Olga Minguez, Lydia Pascual, Anunciacion Cortijo, Dolores Martinez, Mireia Dalmases, Ferran Barbé

Percentage of sleep time with increase in respiratory effort is a strong predictor of prevalent hypertension in obstructive sleep apnea patients
NHAT-NAM LE-DONG (Sorinnes, Belgium), Jean-Benoit Martinot, Renaud Tamisier, Jean-Louis Pépin

Pulse wave amplitude drops (PWAD) index: a biomarker of cardiovascular risk in patients with obstructive sleep apnea in three cohorts.
Raphael Heinzer (Lausanne, Switzerland), Geoffroy Solelhac, Manuel Sanchez-De-La-Torre, Margaux Blanchard, Mathieu Berger, Nicola Andrea Marchi, Camila Hirotsu, Giulio Bernardi, Monica Betta, Peter Vollenweider, Julien Vaucher, Andrea Zapater, Esther Gracia-Lavedan, Pedro Marques-Vidal, Ferran Barbé, Frédéric Gagnadoux

The effect of CPAP therapy on aortic inflammation in obstructive sleep apnoea: data from a proof-of-concept PET-CT study
Cliona O'Donnell (Dublin 4, Ireland), Shane Crilly, Anne O'Mahony, Jonathan Dodd, Donal O'Shea, David Murphy, Silke Ryan

Impact of sulthiame on endotypic traits in OSA - a RCT
Jan A. Hedner (Göteborg, Sweden), Erik Hoff, Christian Strassberger, Kaj Stenlöf, Ding Zou, Ludger Grote

Obstructive sleep apnea and cognitive decline in the elderly population: the HypnoLaus study
Raphael Heinzer (Lausanne, Switzerland), Nicola Marchi, Geoffroy Solelhac, Mathieu Berger, José Haba-Rubio, Bogdan Draganski

Sleep apnea and incident unprovoked venous thromboembolism: Data from the French Pays de la Loire Sleep Cohort
Wojciech Trzepizur (Angers, France), Chloé Gervès-Pinquié, Baptiste Heude, Margaux Blanchard, Nicole Meslier, Marie Jouvenot, Sandrine Kerbat, Raphael Le Mao, Eline Magois, Jean-Louis Racineux, Abdelkebir Sabil, Jérémie Thereaux, Francis Coutraud, Frédéric Gagnadoux

Sleep characteristics and cardio-metabolic comorbidities in the OSA-COPD overlap syndrome: Data from the European Sleep Apnea Database (ESADA)
Mafalda van Zeller (Porto, Portugal), Ozen K. Basoglu, Johan Verbraecken, Carolina Lombardi, Walter T. McNicholas, Jean Louis Pepin, Paschalis Steiropoulos, Pawel Sliwinski, Daniela Correa, Maria R. Bonsignore, Sophia E. Schiza, Jan Hedner, Ludger Grote, Marta Drummond

Cancer prevalence is increased in obstructive sleep apnea – the population-based DISCOVERY study
Andreas Palm (Uppsala, Sweden), Jenny Theorell-Haglöw, Johan Isaksson, Mirjam Ljunggren, Josef Sundh, Magnus Ekström, Ludger Grote

Late Breaking Abstract - Predictors of BP reduction in patients with OSA treated with CPAP therapy – an individual patient meta-analysis
Martino Pengo (Milano (MI), Italy), Esther I Schwarz, Ferran Barbe, Peter Cistulli, Cristiano Fava, Flavio D Fuchs, Kelly Loffler, Macy Lui, Miguel Angel Martinez-Garcia, Craig L Phillips, Tim Quinmel, Joerg Steier, John Stradling, Antonella Zambon, Gianfranco Parati

Discussion
8A (live-streamed) Session 11:15 - 12:45
Clinical cases: Lungs on fire: Interstitial lung diseases?
Aims: To facilitate the presentation of real-life clinical cases as part of an interactive session. Cases vary in difficulty and may require differential diagnosis. This session is led by two discussants who will present cases submitted by respiratory health professionals to a panel of experts and will drive the discussion in a step-by-step approach, encouraging dialogue and reflection among the panel who have no prior knowledge of these cases. As the cases are discussed, the discussants will invite the audience to participate in determining which diagnostic and therapeutic options would be best for these patients.
Disease(s): Interstitial lung diseases
Tag(s): Clinical
Target audience: Adult pulmonologist/Clinician, Clinical researcher, Respiratory critical care physician, General practitioner, Physician in Pulmonary Training, Nurse, Radiologist, Pathologist, Thoracic oncologist, Medical Student
Chairs: Katerina Antoniou (Heraklion, Greece), Sergio Harari (Milano (MI), Italy), Michael Kreuter (Heidelberg, Germany)
Discussants: Maria Molina Molina (Barcelona, Spain), Paolo Spagnolo (Padova (PD), Italy)
### 8H (live-streamed) Session 11:15 - 12:45

**Respiratory medicine meets other disciplines: Fight to antimicrobial resistance: the role of new diagnostics**  
A European perspective from the Value-Dx consortium

**Aims:** to present the appropriate use and development of diagnostic tools for respiratory infections, which are one of most valuable tools to reduce the occurrence of antimicrobial resistances; to review major advances in diagnostic tests for lower respiratory tract infections (LRTI) and the expected impact on epidemiology and health economics and clinical perspective.

**Disease(s):** Paediatric respiratory diseases, Respiratory critical care, Respiratory infections  
**Method(s):** General respiratory patient care, Public health, Respiratory intensive care

**Tag(s):** Clinical

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

**Chairs:** Eva Polverino (Barcelona, Spain), Giovanni Sotgiu (Sassari, Italy)

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<tr>
<th>Time</th>
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<tr>
<td>11:15</td>
<td>Accuracy of rapid diagnostics for community-acquired pneumonia in the emerging room</td>
<td>Maurizio Sanguinetti (Rome, Italy)</td>
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<td>11:30</td>
<td>Changing the epidemiology of microbial etiology of CAARTI</td>
<td>surbhi malhotra-kumar (wilrijk, Belgium)</td>
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<td>11:45</td>
<td>Optimal management of CAARTI from a health economic perspective</td>
<td>Maarten Postma (Groningen, Netherlands)</td>
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<td>12:00</td>
<td>How rapid diagnostic tests can improve antibiotic stewardship</td>
<td>Bojana Beović (Ljubljana, Slovenia)</td>
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<td>12:15</td>
<td>Discussion and Q&amp;A</td>
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### 8C (live-streamed) Session 11:15 - 12:45

**Journal session: Acute respiratory distress syndrome: the path to precision medicine**  
A joint ERS/Lancet session

**Aims:** To present the most recent papers commissioned by The Lancet and The Lancet Respiratory Medicine, to provide insights into the pathophysiology and phenotypes of acute respiratory distress syndrome (ARDS), to review current approaches for diagnosis and management of paediatric and adult patients, to consider therapeutic options in development for this heterogeneous syndrome, to discuss the needs of patients with long-term sequelae of ARDS and to set out future directions for research and clinical practice. This forward-looking session will provide new insights into mechanisms and management for both nonspecialists and specialists, with a focus on the goal of precision medicine.

**Disease(s):** Paediatric respiratory diseases, Respiratory critical care  
**Method(s):** Cell and molecular biology, Physiology, Respiratory intensive care

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, Medical Student, Respiratory critical care physician, Paediatrician, Physician in Pulmonary Training, Scientist (basic, translational)

**Chairs:** Leo Heunks (Amsterdam, Netherlands), Rebecca Craven (London, United Kingdom), Miriam Barrecheguren Fernandez (Barcelona, Spain)

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<th>Time</th>
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<tr>
<td>11:15</td>
<td>Causes, pathophysiology, and phenotypes of acute respiratory distress syndrome</td>
<td>Lorraine Ware (Nashville, United States)</td>
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11:30 Acute respiratory distress syndrome in adults: diagnosis, management, outcomes and long-term sequelae
Danny McAuley (Belfast (Belfast), United Kingdom)

11:45 Paediatric acute respiratory distress syndrome: developing management strategies to improve outcomes
Martin Kneyber (Groningen, Netherlands)

12:00 Opportunities for improved clinical trial designs in acute respiratory distress syndrome
Michael A. Matthay (San Francisco, United States)

12:15 Discussion and Q&A

8F Session 12:45 - 14:00

Oral presentation: COVID-19 acute respiratory distress syndrome and beyond

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

**Method(s):** Respiratory intensive care, Epidemiology, Physiology, Transplantation, Public health, Imaging, Pulmonary function testing

**Chairs:** Leo Heunks (Amsterdam, Netherlands), Maxime Patout (Paris, France)

- **A Novel Anti-Thrombotic, Glenzocimab, in Covid-19 acute respiratory distress syndrome (Cov-ARDS).**
  Julien Pottecher (Strasbourg, France), Victor A. H. Sato, Yannick Plétan, Andrea Comenducci, Violaine Desort-Henin, Martine Jandrot-Perrus, Sophie Binay, Adeline Meilhoc, Gilles Avenard

- **Higher versus lower dose corticosteroids for moderate to severe COVID-19: a systematic review, dose response and network meta-analysis.**
  Tyler Pitre (Kitchener, Canada), Jasmine Mah, Wryan Helmeczi, Johnny Su, Sharef Danhoe, William Plaxton, Stephen Gillick, Dena Zeratkar

- **Impact of Dexamethasone on pathogen profile of COVID-19 patients requiring intensive care: a multicentre retrospective study**
  Cathrin Kodde (Berlin, Germany), Finja Timmen, Sven Hohenstein, Andreas Bollmann, Marzia Bonsignore, Ralf Kuhlen, Iris Nachttigall, Selcuk Tasci

- **SUSTAINED ALVEOLAR FIBROPROLIFERATION IN PATIENTS WITH NON-RESOLVING COVID-19 RELATED ARDS DOES NOT LEAD TO PULMONARY FIBROSIS.**

- **Extracorporeal life support allows lung transplant in anti-MDA5+ rapidly progressive-interstitial lung disease.**
  Pierre Bay (Creteil, France), Marc Pineton De Chambrun, Antoine Roux, Vincent Bunel, Alain Combes, Dominique Israël Biet, Benjamin Zuber, Hilario Nunes, Yves Allenbach, Yurdagul Uzunhan

- **Recirculation in venovenous extracorporeal membrane oxygenation**
  Christoph Fisser (Regensburg, Germany), Oscar Palmer, Marko Sallisalmi, Michael Paulus, Maik Foltan, Alois Philipp, Maximilian Malfertheimer, Matthias Lubnow, Thomas Müller, Lars Broman

- **Early prediction of mortality of septic patients visiting emergency room using machine learning**
  Jeongwon Heo (Chunchon-si, Republic of Korea), Yeonjeong Heo, Da Hye Moon, So Hyeon Bak, Woo Jin Kim, Seon-Sook Han, Se-Heon Choi, Do-Won Kim, Yoon Kim, Hyun-Soo Choi

- **Prognostic value of serum chemerin in critically ill patients with sepsis: a prospective study**
  Irene Karampela (Athens, Greece), Gerasimos-Socrates Christodoulatos, Natalie Vallianou, Dimitrios Tsilingiris, Evangelia Chrysanthropoulou, George Skyllas, Georgios Antonakos, Ioanna Marinou, Evaggelos Vogiatzakis, Apostolos Armaganidis, Maria Dalamaga

- **Effect of phosphodiesterase inhibitors on lung function, oxidative damage and inflammation in a rabbit model of acute respiratory distress syndrome**
  Petra Kosutova (Martin, Slovakia), Pavol Mikolka, Daniela Mokra, Andrea Čalkovska

Discussion
8N Oral presentation: Latest news from paediatric population-based and clinical cohort studies

**Disease(s):** Airway diseases

**Method(s):** Epidemiology  Public health  Pulmonary function testing

**Chairs:** Myrofora Goutaki (Bern, Switzerland), Maribel Casas (Barcelona, Spain)

- **Socioeconomic position, respiratory syncytial virus (RSV) and childhood asthma: what if we could prevent severe infant bronchiolitis?**
  Kate Lewis (London, United Kingdom), Bianca De Stavola, Steve Cunningham, Pia Hardelid

- **Association of Early Life Factors with Prematurity-Associated Lung Disease : Prospective Cohort Study**
  Sarah Kotecha (Cardiff (South Glamorgan), United Kingdom), Kyle Hart, Michael Cousins, W John Watkins, A John Henderson, Sailesh Kotecha

- **Maternal pesticides exposure in pregnancy and wheezing in early childhood**
  Franca Rusconi (Pisa, Italy), Giovenale Moirano, Maja Popovic, Milena Maule, Antonio D’Errico, Lorenzo Richiardi, Silvia Maritano

- **Maternal diet during pregnancy with allergic and respiratory profiles in children**
  Rosalie Delvert (Paris, France), Marie-Aline Charles, Orianne Dumas, Bénédicte Levy-Naert, Rachel Nadif, Sabine Plancoulaine, Chantal Raherison, Mohammed Sedki, Raphaëlle Varrazo, Blandine De Lauzon-Guillain, Annabelle Bédard

- **Trends in the incidence of asthma in children and adolescents in Catalonia, 2010-2021: a large population-based cohort study**
  Alicia Abellan (Barcelona, Spain), Berta Raventós, Edward Burn, Andrea Pistillo, Talita Duarte-Salles

- **Respiratory impedance reference values in children and adolescents: the Austrian LEAD Study.**
  Christoph Valach (Vienna, Austria), Emiel F. M. Wouters, Alina Ofenheimer, Patricia Puchhammer, Pasquale P. Pompilio, Alessandro Gobbi, Marie K. Breier, Sylvia Hartl, Otto C. Burghuber, Robab Breyer-Kohansal

- **Lung function and cognitive ability in children: a UK birth cohort study**
  Jack Grenville (Bristol, United Kingdom), Raquel Granell, James Dodd

- **Otologic features in patients with Primary Ciliary Dyskinesia- an EPIC-PCD study**

- **Comparison of longitudinal outcomes in children with primary ciliary dyskinesia and cystic fibrosis**
  Margaret Rosenfeld (Seattle, United States), Breanna Kinghorn, Frankline Onchiri, Erin Sullivan, Stephanie Davis, Margaret Leigh

- **Late Breaking Abstract - Predictors associated with critical care need and in-hospital mortality among children with laboratory-confirmed Covid-19 infection in a high HIV burden region**
  Liliane Byamungu (Durban, South Africa), Jean Nachega, Ashendri Pillay, Prakash Jeena, Lindsay Zurba, Refiloe Masekela

Discussion

8L Oral presentation: Best abstracts in COVID-19

**Disease(s):** Airway diseases

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

**Chairs:** Pradeesh Sivapalan (Gentofte, Denmark), Georgios Kaltakas (Athens, Greece)

- **THE COURSE OF COVID-19 IN PATIENTS WITH ASTHMA DEPENDS ON GLN27GLU ADR 2 GENE POLYMORPHISM**
  Anna Bondarkova (Sumy, Ukraine), Vladyslava Kachkovska, Anna Kovchun, Lyudmyla Prystupa

- **Small airways disease post COVID-19: 1 year follow up**
  Bavithra Vijayakumar (Thame (Oxfordshire), United Kingdom), Andrew Ritchie, James Tonkin, Christopher M Orton, Jadwiga Wedzicha, Pallav L Shah
Long-term home oxygen therapy as a strategy to reduce hospitalization time in patients affected by COVID-19 with persistent hypoxemia
Robson Prudente (Botucatu (SP), Brazil), Douglas Silva, Estefânia Franco, Vitória Marcondes, Kely Oliveira, Luiz Machado, Luis Brizola, Maércio Santos, Edris Savadkouhi, Camila Colombo, Amanda Peralta, Suzana Tanni

Similar pulmonary functional outcomes at 3 months in critical COVID-19 survivors of the first, second and third pandemic waves
Marie Bruyneel (Brussels, Belgium), Cecile Dusart, David De Bels, Alain Roman, Marc Claus, Nathalie De Vos, Stephane Alard, Stephanie Andre

Network analysis uncovers relationship between immune profiles and severity of COVID-19
Milan Sova (Olomouc, Czech Republic), Eva Kriegova, Samuel Genzor, Milos Kudelka, Jan Mizera, Petr Jakubec

Inflammation profiling and recovery clusters five months post-hospitalisation for COVID-19
Omer Elneima (Leicester, United Kingdom), Matthew Richardson, Olivia C Leavy, Hamish J C McAuley, Ruth M Saunders, James D Chalmers, Ling-Pei Ho, Alex Horsley, Michael Marks, Betty Raman, Rachael A Evans, Christopher E Brightling, Louise V Wain

Therapeutic strategies in hospitalised patients with SarsCov-2 hypoxemic pneumonia
Pedro Cunha (Guimarães, Portugal), Cecília Castro, Helena Sarmento, Isabel Vila, Mcizia Vieira, Ana Sofia Costa, Ana Paula Amorim, Margarida Correia-Neves, Jorge Cotter

Comparison of the 1-minute sit-to-stand test with the 6-minutes walk test for the evaluation of the functional status of post-COVID-19 patients
Maria Marta De Sampaio Nunes Duarte Silva (Estoril, Portugal), Pedro Fiuza, Neuza Reis, Miguel Toscano Rico

Phenotyping dyspnea in patients suffering from post-COVID syndrome
Enrico Buonamico (Bari (BA), Italy), Andrea Portacci, Fabrizio Diaferia, Paola Pierucci, Giuseppe Di Gioia, Cristian Locorotondo, Sara Quaranta, Ilaria Iorillo, Alessandro Capuano, Giovanna Elisiana Carpagnano

Late Breaking Abstract - Efficacy of Breathoxdevice inhalation on acute symptoms associated with COVID-19 (BREATH study)
Suzana Erico Tanni (Botucatu (SP), Brazil), Robson Prudente, Marina Okoshi, Felipe Damatto, Fernando Wehrmeister, Leiliane Oliveira, Carlos Breda Neto, Luana Pagan, Mariana Gatto, Leticia Vieira, Liana Coelho, Diane Rezende, Luiz Machado, Gustavo Mota, Marina Gaiato, Felipe Santaella, Elisangela Campos, Lize Hosoume, Estefânia Franco, Ulla Weinreich

Discussion

**Studio** | **Session** | **12:45 - 14:00**
---|---|---
**Online skills lab: Thoracic ultrasound**
**Aims:** To demonstrate bronchoscopic techniques for the diagnosis, nodal staging and treatment of lung cancer
To provide update on novel interventional techniques
To demonstrate how to perform cryobiopsy in ILD
To demonstrate how to do rigid thoracoscopy and pleuro desis for suspected pleural malignancy.
To demonstrate TUS in various pulmonary diseases including interventions
**Chairs:** Jouke T. Annema (Amsterdam, Netherlands), Pia Iben Pietersen (Odense NØ, Denmark)

12:45 **Introduction**

12:50 **Transthoracic Ultrasound: Realtime image-guided interventions in pleural disease**
Rahul Bhatnagar (Bristol, United Kingdom)

13:05 **Transthoracic Ultrasound: LUS in the diagnosis and management of respiratory failure**
Casper Falster (Odense, Denmark)

13:20 **Transthoracic Ultrasound: Contrast enhanced ultrasound in lung and pleural disease**
Eihab Bedawi (Oxford (Oxfordshire), United Kingdom)

13:35 **Transthoracic Ultrasound: The role of LUS in the diagnosis and management of interstitial lung disease**
Jesper Rømhild Davidsen (Odense C, Denmark)

13:50 **Q&A**

**TP-19** | **Session** | **13:00 - 14:00**
---|---|---
**Thematic poster: COVID experience globally**
Seroprevalence of COVID-19 among out patients with chronic respiratory disease in a tertiary care hospital in India
Devasahayam Jesudas Christopher (Vellore (Tamil Nadu), India)

Profile of patients hospitalized during the Omicron wave at Hassan II Agadir hospital
Abdelmajid Oulahbib (agadir, Morocco), Houda Moubachir, Hind Serhane

Joaquim Majo (Newcastle Upon Tyne, United Kingdom), Luke Milross, Julian Pulle, Sam Hoggard, Nigel Cooper, Bethany Hunter, Christopher Duncan, Andrew Filby, Andrew Fisher

Recuperación laboral, clínica y funcional a 3 meses del alta en pacientes hospitalizados por neumonía por SARS-CoV2. Relación con la terapia recibida
Cesar Reyes (Vina del Mar, Chile), Tomas Silva, Mónica Gutiérrez, Dominique Boisier, Felipe Martínez, Mario Santamarina, Diego Zúñiga, Marcela Gutierrez, Sebastian Ahumada, Claudia Valenzuela, Ivo Lopez

Outcome of hospitalized covid 19 patients with underlying respiratory illness in second and third wave.
Jayalakshmi T.Kutty (Mumbai (Maharashtra), India), Bhumika Madhav, Dhanaji Revande, Gokul Bathe

Religiosity and mental health consequences of COVID-19 pandemic
Stefan-Marian Frent (Timisoara, Romania), Maria Frent, Alexandru-Filip Popovici

Burnout syndrome among Tunisian medical professionals during the COVID pandemic
Nour Gargouri (Sfax, Tunisia), Rahma Gargouri, Dorra Gharbi, Ahmed Dhia Elleuch, Sabrine El Fidha, Sourour Abid, Walid Feki, Samy Kammoun

B.1.1.529 versus B.1.617.2 variants of severe acute respiratory syndrome corona virus 2: Is there any difference between hospitalization, intensive care unit treatment and mortality rates?
Emine Kamiloglu (lefkosa, Cyprus), Birdal Cihangir

Clean air, verandas and human contact in the battle against COVID-19; A timeless approach.
Despoina Zorpidou, Spyridon Mazarakis, Georgia Hardavella, Antigoni Vasilarea, Panagiotis Demertzis, Irma Bracka, Ellin Konstantinou, Maria Salomidou, Theodoros Daskalos

Covid19 infection in patients suffering from chronic respiratory diseases
Abid Sourour (Sfax, Tunisia), Nour Kallel, Rahma Gargouri, Mahdi Walha, Ons Badri, Sarra Sassi, Rym Khemakhem, Sameh Msaad, Nedia Moussa, Samy Kammoun

Characterising SARS-CoV-2 transmission via aerosols and effective sampling methods for surveillance
Hisham Waziri (London, United Kingdom), Gopinath Kalaiarasan, Rebecca Wawman, Faye Hobbs, Gloria Young, Emma Ransome, Ian Adcock, Pankaj Bhavsar, Vincent Savolainen, Alexandra Porter, Prashant Kumar, Kian Fan Chung

Comparison of the impact of ethnicity on clinical outcomes of COVID-19 patients in the United Kingdom across two waves of the pandemic
Jesmith Perumbalath (London, United Kingdom), Jithin Selvaraj, Adam Ainley

Effect of the COVID-19 Pandemic on Bronchoscopy Indication and Bronchial Microbiology
Felix Dubon (Munich, Germany), Julia Walter, Laura Sellmer, Kathrin Kahnert, Pontus Mertisch, Nikolas Kneidinger, Katrin Milger-Kneidinger, Christian Schneider, Jürgen Behr, Amanda Tufman

Publication pandemic
Oğuz Karcioğlu (Ankara, Turkey), Serdar Ceylan, Olgu Erkin Çinar

COVID-19 and anxiety, the role of the uncertainty
Gorane Iturricastillo Gutierrez, Elena Avalos Perez-Urria, Celeste Marcos, Claudia Valenzuela, Tamara Alonso Pérez, Rosa María Girón Moreno, Julio Ancochea Bermúdez

Impact of post-COVID-19 lung damage on Respiratory function and HRQOL in Indians
Devasahayam Jesudas Christopher (Vellore (Tamil Nadu), India), Barney Isaac, Flavita John, Deepa Shankar, Balamugesh Thangakunnan

COVID-19 Outcome: A One Year Follow-Up Study of Patients who Recovered from COVID-19 at Lung Center of the Philippines
Marc Anthony Donguines (Las Piñas, Philippines), Pocholo Guadalupe, Racquel C. Ibañez Ibañez, Joven Roque Gonong
SARS-CoV-2 infection: a comparative study of waves.
ALEJANDRO REZOLA CARASUSAN (Donostia San Sebastian, Spain), Leyre Leyre Serrano Fernandez, Edurne Echevarria Guerrero, Amaia Urrutia Gajate, Beatriz Gonzalez Quero, Eva Taberner Huguet, Rafael Zalacain Jorge, Luis Alberto Ruiz Iturriaga

Persistent respiratory failure in severe COVID-19 patients - A tertiary centre experience in Kuala Lumpur, Malaysia.
Leng Cheng Sia (Kuala Lumpur, Malaysia), Chee Kuan Wong, Noreen Zhi Min Ooi, Wai Yee Chan, Yong-Kek Pang, Chong Kin Liam, Chun Ian Soo, Jiunn Liang Tan, Mau Ern Poh, Ka Kiat Chin, Thian Chee Loh, Nur Husna Ibrahim, Vijayan Munusamy

Excess mortality in India during the COVID 19 pandemic.
Subramanian Natarajan (Mumbai (Maharashtra), India), Poonam Subramanian

TP-5 Session 13:00 - 14:00

Thematic poster: COVID 19: intensive care unit treatment

Disease(s): Respiratory critical care, Interstitial lung diseases, Airway diseases
Method(s): Respiratory intensive care, General respiratory patient care, Imaging, Epidemiology, Public health

Chairs: Lise Piquilloud (Lausanne, Switzerland), Ignacio Martin-Loeches (Dublin, Ireland)

Multimorbidity drives responsiveness to rehabilitation in critical illness: A patient level meta-analysis of four randomized trials
Jennifer Jones (South Yarra, Australia), Zudin Puthucheary, Amalia Karahalios, Michael Berry, D. Clark Files, David Griffith, Luke McDonald, Peter Morris, Marc Moss, Amy Nordon-Craft, Timothy Walsh, Sue Berney, Linda Denehy

Delirium screening in critically ill patients: validation of the Korean version of the 4 A’s Test
Young Seok Lee (Seoul, Republic of Korea), Jae Jeong Shim, Kyungsoo Chung, Chi Yang Chung, Jongmin Lee

Outcomes of elderly and very elderly patients admitted to intensive care unit for sepsis
Sharlene Ho (Singapure, Singapore), Niranjana Mahalingam, Geak Poh Tan, Jin Wen Sennen Lew

Early mobilisation of mechanically ventilated patients in the intensive care units: results of a Saudi-wide national survey
Jaber Alqahtani (Dammam, Saudi Arabia), Mohammed Alahmari, Ibrahim Aldraiwiwsh, Asma Alamoudi, Nawal Aloitaib, Abdullah Ghazwani, Abdulaleh Aldhahari, Saeed Alghamdi, Abdullah Alqahtani, Jithin Sreedharan, Saad Alrrabieeh

Comparing the mortality of COPD and non-COPD patients with COVID-19 in a UK hospital
Hanif Ahmad (Harlow, United Kingdom), Neelima Akter, Ruby Varghese, Scott Waring, Shavita Kuckreja, Samir Naik, Ugochukwu Ekeowa, Peter Russell, Muhammad Anwar

The impact of age and gender on mortality from COVID-19 at A UK Hospital
Sooriya Soman (Harlow, United Kingdom), Hanif Ahmad, Kamal Dewan, Ahmed Suliman, Irfan Saleem, Reena Kumari, Peter Russell, Samir Naik, Shavita Kuckreja, Ravi Ragatha, Ugochukwu Ekeowa, Michael Long, Muhammad Anwar

Intermediate respiratory care unit patient flow analysis during the covid-19 pandemic.
Marina Galdeano Lozano (Montacada I Reixach (Barcelona), Spain), Antoni Marin, Leire Mendiluce, Adriana Martin, Irene Aldàs, Agnes Hernandez, Carmen Ermandez, Ignasi Garcia-Olive, Jjorge Abad

Use of awake prone positioning in acute COVID-19
Ireti Adejumo (Nottingham (Nottinghamshire), United Kingdom), Mohammad R. Ali, Milind Sovani, Dominic E. Shaw

The diagnosis of spontaneous secondary tension pneumothorax following apparentrecovery from COVID-19 pneumonitis
Romesh Tirimanna (Ashford, United Kingdom), Eleanor Dorman, Michael Okorie, James Myerson

To assess the diagnostic and prognostic ability of CXRs in COVID-19 pneumonitis
Hanif Ahmad (Harlow, United Kingdom), Sooriya Soman, Ruby Varghese, Kamal Dewan, Robert Chapman, Jie Tong, Reena Kumari, Ugochukwu Ekeowa, Ravi Ragatha, Peter Russell, Shavita Kuckreja, Michael Long, Muhammad Anwar

Pneumomediastinum in COVID-19 critically ill patients
Amani Kacem (Sousse, Tunisia), Dhouha Ben Braiek, Hend Zorgati, Imen Mighri, Hanen Brahim, Rahma Ben Jazia, Imen Kherrat, Jihene Ayachi

Shunt fraction in Covid-19 related Acute Respiratory Failure
Luca Novelli (Bergamo, Italy), Federico Raimondi, Luca Malandrino, Simone Pappacena, Chiara Allegri, Marisa Anelli, Roberta Biza, Roberta Trapasso, Carlo Catani, Francesco Caglioni, Simone Bonetti, Gianmariano Marchesi, Fabiano Di Marco
Efficacy of Ivermectin in patients with COVID-19 pneumonia with severe and critically ill status
Ahmed Elesdoudy (Menouf (el menoufia), Egypt)

Vaccinated COVID-19 patients admitted in a Tunisian ICU: clinical features and outcome.
Amira Jamoussi (ariana, Tunisia), Selim Sellaouti, Malek Kharrat, Samia Ayed, Fatma Jarraya, Emna Rachdi, Mohamed Besbes, Jalila Ben Khelil

CT scan in COVID-19 patients in ICU: Two evaluative methods
Amira Jamoussi (ariana, Tunisia), Sarra Zarrouk, Samia Ayed, Emna Rachdi, Fatma Jarraya, Mohamed Besbes, Jalila Ben Khelil

Can initial Chest CT scan findings predict high flow nasal cannula (HFNC) failure in critically ill COVID19 patients
Amani Kacem (Sousse, Tunisia), Hend Zorgati, Dhouha Ben Braiek, Imen Mighr, Safa Ben Mansour, Oussama Saadaoui, Rania Hidiri, Arsalen Douzi, Chaima Kaabi, Asma Azaza, Oumaima Ghabi, Rahma Ben Jazia, Imen Kharrat, Jihene Ayachi

Chest CT scan lesions as predictors of poor prognosis in critically ill COVID-19 patients
Amani Kacem (Sousse, Tunisia), Hend Zorgati, Dhouha Ben Braiek, Imen Mighr, Oussama Saadaoui, Rania Hidiri, Safa Ben Mansour, Chaima Kaabi, Arsalen Douzi, Oumaima Ghabi, Asma Azaza, Rahma Ben Jazia, Imen Kharrat, Jihene Ayachi

Lung ultrasound for detection of pneumonic changes in patients with COVID-19 infection
Ahmed Kabil (Cairo, Egypt), Moaz Atia, Ahmed Eldeeb, Mohamed Shahn

Predictive factors of mechanical ventilation among critically ill adults with COVID-19
arbia chaieb (Tunis, Tunisia), Bedis Jribi, Leith Omrane, Mariem Mjid, Rihab Jbali, Abir Hedhli, Yassine Ouahchi, Sana Cheikhrouhou, Sonia Toujeni, Samira Merai, Adel Ammous, Bessma Dhahri

**TP-22**

**Session** 13:00 - 14:00

**Thematic poster: Lung cancer patient pathways**

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

**Method(s):** General respiratory patient care, Imaging, Endoscopy and interventional pulmonology, Cell and molecular biology, Palliative care, Physiology, Public health, Epidemiology

**Chairs:** Katherina Bernadette Sreter (Zagreb, Croatia), Richard Lee (Beaconsfield, Buckinghamshire, United Kingdom)

**Impact of Covid-19 pandemic on care pathways of lung cancer in Longjumeau hospital**
Alain BAKEBE (Longjumeau, France), Julien Petel, Manal Manal, Gerard Oliviero, Laurent Decoux

**Lung cancer associated to idiopathic pulmonary fibrosis: predictor ranking and mining.**
Giulia Maria Stella (Pavia (PV), Italy), Sara Lettieri, Manuela Coretti, Francesca Mariani, Chandra Bortolotto, Francesco Agustoni, Andrea Lancia, Pietro Rinaldi, Cristiano Primiceri, Davide Piloni, Laura Saracino

**Prognostic factors in locally advanced non-small cell lung cancer**
Yasmine Hadiidene (Ariana, Tunisia), Hela Kamoun, Hathemi Rejeb, Dora Greb, Ines Akrou, Leila Fkhi, Hanen Smadhi, Mohamed Lamine Megdiche

**The association of anxiety and depression with mortality in lung cancer**
Yosrr Alolou (Manouba, Tunisia), Hadhemi Rejeb, Hela Kamoun, Dorra Greb, Ines Akrou, Hejer Ben Abdelghaffar, Hela Hassen, Leila Fkhi, Hanen Smadhi, Mohamed Lamine Megdiche

**Impact of cancer cachexia on the course of chemotherapy in patients with advanced lung cancer**
Imen Bachouch (Ariana, Tunisia), Nourelhouda Khêzami, Khawla Bouguerra, Hana Mrassi, Asma Zargouni, Hind Smadi, Chaima Hawouria, Fatma Chermiti, Soraya Fenniche

**Survival and prognostic factors in NSCLC patients with malignant pleural effusion**
Asna Navasakulpong (Hatayi (Songkhla), Thailand), Punchalee Kaemmuang

**Immunotherapy in metastatic non-small cell lung cancer: EPSILoN as a prognostic score**
Maria Carolina Alves Valente (Santo Tirso, Portugal), Mariana Serino, Cláudia Freitas, Marianna Martins, Pedro Ferreira, Catarina Cardoso, Catarina Sousa, Vanessa Santos, David Araújo, Hélder Novais-Bastos, Adriana Magalhães, Henrique Queiroga, Gabriela Fernandes, Venceslau Hespanhol

**Oncological emergencies in lung cancer patients during 2019 and SARS-CoV-2 pandemic year**
Marta Carvalho Silva (Braga, Portugal), Joana Naia, Daniela Rodrigues, Diana Pimenta, Sara Campos Silva, Joana Pereira, Eva Padrão, Lurdes Ferreira

**Pericardial effusion and lung cancer: experience from a UK North East District General hospital**
Hussun-Ara Shah (Newcastle upon Tyne, United Kingdom), Tufayl Hannan, Karl Jackson, Philip Jones, Avinash Aujayeb
Complications of lung cancer in the clinical course of interstitial lung disease
Yoichiro Noguchi (Seto, Japan), Reoto Takei, Shunsaku Hayai, Hajime Oi, Yasuhiko Yamano, Toshiki Yokoyama, Toshiaki Matsuda, Kenseke Kataoka, Tomoki Kimura, Yasuhiko Kondoh

A new tissue-mimicking surrogate for pulmonary lesions using for RFA
Louisa Bühler (Stuttgart, Germany), Sarina Schulze, Markus Polke, Nicolas Kahn, Marc A. Schneider, Claus Peter Heussel, Felix J. Herth, Markus D. Enderle, Walter Linzenbold

Brown adipose tissue activity predicts cachexia and survival in patients with lung cancer.
Lukas Hofmann (Leipzig, Germany), Jonas Meyer, Johanna Pappisch, Teresa Kerkhoff, Nicolas Linder, Harald Busse, Swen Hesse, Karen Geva Steinhoff, Thomas Ebert, Anke Tönnjes, Sebastian Krämer, Johannes Broschewitz, Albrecht Gläser, Sabine Taubenheim, Hartmut Kuhn, Osama Sabri, Hubert Wirtz, Armin Frille

A single centre analysis of stage of presentation of Lung Cancer pre and post Covid-19 pandemic
Ciara Ottewill (Dublin 4, Ireland), Fiona Mulvany, Finbarr O'Connell, Parthiban Nadarajan

Impact of the covid-19 pandemic on lung cancer referral and treatment
Emma Crawford (Shropshire, United Kingdom), Julia Mcadam, Harmesh Moundgil, Jenny Nixon, Kooatalai Srinivasan, Paul Wareing

Recurrence at site of lung cancer biopsy: experience from a UK district general hospital
Avinash Aujayeb (Newcastle, United Kingdom)

Impact of the COVID-19 pandemic on suspected lung cancer referrals and subsequent lung cancer diagnosis at North Bristol NHS Trust
Adriana Ramos Pereira (Bristol (Avon), United Kingdom), Catherine Coombs, Benjamin Masterman, Abiramy Jayabal, Martin Plummeridge, Anna Bibby

Thematic poster: Environment and air pollution
Disease(s): Airway diseases
Method(s): Public health Cell and molecular biology Epidemiology General respiratory patient care Physiology Imaging Pulmonary function testing
Chairs: Christopher Carlsten (Vancouver (BC), Canada), Chair to be confirmed

Air pollution and disease in a population living in a small city in Brazil
Marilyn Urrutia Pereira (Uruguaiana (RS), Brazil), Lucas Pizetr Mocellin, Veronica Riquelme Martinez, Paulo Oliveira Lima, Laiza Marques Baida, Herberto Chong-Neto, Dirceu Solé

The immunomodulatory and inflammatory effects of the inhalation of diesel particles in a murine model of healthy mice
David Soler Segovia (Barcelona, Spain), Miquel De Homdedeu, Silvia Sánchez Diez, Cristian Moreno Mesones, David Espejo Castellanos, Xavier Muñoz Gall, Maria Jesús Cruz Carmona

An Observational study on Ambient Air Pollution and hospital visits of patients at tertiary care hospital in North Chennai
Vengada Krishnaraj (Chennai, India)

Exposure to air pollution and allergic diseases in adults
Giovanni Viegi (Pisa (PI), Italy), Sara Maio, Federico Pirona, Sofia Tagliaferro, Salvatore Fasola, Alessandro Marcon, Giuseppe Sarno, Claudio Gartiano, Massimo Stafoggia, Stefania La Grutta, Giuseppe Verlato, Sandra Baldacci

Influence of overweight/obesity, lifestyle and grey space on asthma in Italy
Giovanni Viegi (Pisa (PI), Italy), Sandra Baldacci, Anna Angino, Federico Pirona, Sofia Tagliaferro, Giuseppe Sarno, Sara Maio, Stefani La Grutta, Laura Montalbano, Salvatore Fasola, Velia Malizia, Isabella Annesi-Maesano, On Behalf Of The Earlyfood Collaborative Group

Asthma control and hot weather-related respiratory symptoms
Maritta S. Jaakkola (Oulu, Finland), Henna Hyrkäs-Palmu, Jouini J.K. Jaakkola

Asthma phenotypes as an effect of childhood upbringing
Regine Abrahamsen (Skien, Norway), Geir Klepaker, Kjell Torén, Paul K. Henneberger, Johny Kongerud, Anne Kristin Møller Fell

Relationship between climatic factors and emergency department visits for respiratory diseases
Jacopo Davide Giamello (Busca, Italy), Renno Melchio, Luca Bertolaccini, Cristian Rendina, Paolo Caraccio, Massimo Rega, Serena Capriotti, Tania Prinzi, Tiziana Ponza, Salvatore Franco, Daniele D’Arrigo, Giuseppe Lauria
## Session 13:00 - 14:00

### Thematic poster: New mechanistic insights into acute and chronic interstitial lung disorders

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

**Method(s):** Cell and molecular biology, Physiology, Public health, Respiratory intensive care

**Chairs:** Olivier Burgy (Dijon, France), Claire Masterson (Galway (Co Galway), Ireland)

**Partial apoptosis of epithelial cells in fibrotic lungs.**
Eirini Vasarmidi (Heraklion (Crete), Greece), Alice Guyard, Nicolas Pote, Pierre Mordant, Aurelie Cazes, Bruno Crestani, Arnaud Mailleux

**Phenotypic drug screening in a human fibrosis model identified a novel class of antifibrotic therapeutics**
Michael Gerckens (München, Germany), Kenji Schorpp, Francesco Pelizza, Melanie Wögrath, Kora Reichau, Huiolog Ma, Armando Dworsky, Arunima Sengupta, Mircea Gabriel Stoleriu, Katharina Heinzelmann, Juliane Merl-Pham, Martin Irmler, Hani N Alsafadi, Eduard Trenkenschuh, Lenka Sarnova, Marketa Jirouskova, Wolfgang Friess, Stefanie M Hauck, Johannes Beckers, Nikolaus Kneidinger, Jürgen Behr, Anne Hilgendorf, Kamyar Hadian, Michael Lindner, Melanie Königshoff, Oliver Eickelberg, Martin Gregor, Oliver Plettenburg, Ali Önder Yildirim, Gerald Burgtasser

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<th>Title</th>
<th>Authors</th>
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<td>Medical record review of acute childhood wheeze presentations, air pollution and deprivation</td>
<td>Emma Wilkinson (Liverpool, United Kingdom), Paul Menamara</td>
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<td>Air pollution and incidence of adult-onset eosinophilic airway disease</td>
<td>Janneke Pepels (Leeuwarden, Netherlands), Edith Visser, Anneke Ten Brinke, Kim De Jong</td>
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<td>Climate change and COPD severity: a pilot study in Taiwan</td>
<td>Hsiao-Chi Chuang (Taipei, Taiwan), Minh Tran Huan, Tzu-Tao Chen, Yueh-Hsun Lu, Kuan-Yuan Chen, Shu-Chuan Ho, Chih-Da Wu, Kang-Yun Lee</td>
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<td>Association between residental green space and development of allergic rhinitis up to 12 years of age: a population-based birth cohort study</td>
<td>Inês Paciência (Oulu, Finland), Aino K. Rantala, Harri Antikainen, Timo Hugg, Maritta S. Jaakkola, Jouni J.K. Jaakkola</td>
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<td>Association between greenness and development of asthma in the first 12 years of life: a population-based cohort study</td>
<td>Aino-Kaisa Rantala (Oulu, Finland), Inês Paciência, Harri Antikainen, Timo T. Hugg, Maritta S. Jaakkola, Jouni J.K. Jaakkola</td>
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<td>Children and air pollution monitoring</td>
<td>Abigail Whitehouse (London, United Kingdom), Lindsay Zurba, James Ngocho, Sindsiwe Dladla, Julieth Sebba, Ronald Mbwasi, Gioia Mosler, Bibie Said, Blandina Mmbaga, Refiloe Masekela, Jonathan Grigg</td>
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<td>Prenatal exposure to air pollution: a susceptibility factor to develop Chronic Obstructive Pulmonary Disease (COPD)?</td>
<td>Zhuyi Lu (Villejuif, France), Cristina De Franceschi, Mathieu Cazaunau, Antonin Berge, Elie Al Marj, Audrey Der Vartanian, Rachid Soutkani, Abdel Aissat, Bruno Costes, Patrice Coll, Sophie Lanone</td>
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<td>Impact of air pollution and emphysema on cardiovascular and hemodynamic features</td>
<td>Quentin WYNANDS (Montpellier, France), Olivier Cazorla, Fares Gouzi, Pierre-Edouard Grillet, Arnaud Bourdin</td>
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<td>La Palma Volcanic Ash Particles Increase Susceptibility to Pneumococcal Infection In Vitro</td>
<td>Lisa Miyashita (London, United Kingdom), Bevdryle Coldwell, David Wertheim, Richard Giddens, Ian Gill, Nick Petford, Nemesio Perez, Jonathan Grigg</td>
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<td>Associations between ambient air pollution and chronic cough in middle-aged adults.</td>
<td>Sabrina Idrose (Australia, Australia), Jingwen Zhang, Caroline Lodge, Anne Chang, Luke Knibbs, Michael Abramson, E. Haydn Walters, Dinh Bui, Birkar Erbas, Peter Frith, Jennifer Perret, Shyamali Dharmage</td>
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<td>Short term exposure to respirable smoke extracts from indoor cooking in Nepal leads to altered human airway epithelial cell (AEC) gene expression, DNA methylation (mC) and hydroxymethylation (hmC)</td>
<td>Poqitha Rajasekar (Nottingham, United Kingdom), Robert Hall, Binaya K C, Parth Sarathi Mahapatra, Siva Praveen Puppala, Dhruma Thakker, Julie Macisaac, David Lin, Michael Kobor, Charlotte E Bolton, Ian Sayers, Ian Hall, Rachel Clifford</td>
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<td>Long-term exposure to air pollution and incidence of adult-onset asthma and COPD: systematic review and meta-analyses</td>
<td>Jiawei ZHANG (Copenhagen, Denmark), Shuo Liu, Youn-Hee Lim, George Thurston, Haneen Khreis, Barbara Hoffmann, Susan Anenberg, Bénédicte Jacquemin, Mark J Nieuwenhuijsen, Zorana Jovanovic Andersen</td>
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Next generation of gene-editing technologies for respiratory research and medicine
Sara Cuevas Ocaña (Nottingham, United Kingdom), Ana Lilia Serna Valverde, Liam Reed, Nicholas R Hannan

Role of cellular adhesion molecules in the presence of interstitial lung disease in patients with autoimmune diseases
Verónica Pulito-Cueto (Santander, Spain), Sara Remuzgo-Martinez, Fernanda Hernández, Nuria Mendoza, Sandra Casas, Fernanda Hernández, Nuria Albacar, John Sembrant, Mauricio Rojas, Alvar Agusti, Jacobo Sellares, Rosa Faner

Spatial transcriptome analysis at single-cell resolution for understanding IPF pathogenesis
Naoko Watanabe (Tokyo, Japan), Yu Fujita, Takashi Ishiguro, Nobumasa Takahashi, Yoshihiko Shimizu, Noboru Takayanagi, Yoshinori Yamamoto, Kazuyoshi Kuwano

Computational drug repositioning and wet-lab validation approach identifies polo-like kinase inhibitors as potential therapeutics for pulmonary fibrosis
Takeshi Imakura (Tokushima, Japan), Seidai Sato, Kazuya Koyama, Hirohisa Ogawa, Takahiro Niimura, Kojin Murakami, Yuya Yamashita, Keiko Haji, Nobuhiro Naito, Kozo Kagawa, Hiroshi Kawano, Yoshito Zamami, Keisuke Ishizawa, Yasuhiko Nishioka

Identification of different lung immune-phenotypes in Idiopathic pulmonary fibrosis (IPF)
Tamarat Cruz (Barcelona, Spain), Nuria Mendoza, Sandra Casas, Fernanda Hernández, Nuria Albacar, John Sembrant, Mauricio Rojas, Alvar Agusti, Jacobo Sellares, Rosa Faner

Endothelial to mesenchymal transition (EndMT) and arterial remodelling in IPF patients
Mathew Eapen (Hobart (TAS), Australia), Archana Gaikwad, Prem Bhattarai, Collin Chia, Josie Larby, Greg Haug, Jade Jaffar, Glen Westall, Gurpreet Singh, Tillie Hackett, Wenying Lu, Sulhwarden Singh Sohal

Late Breaking Abstract - Single cell RNA sequencing suggests G i2 is associated with ILD in pigeon fanciers
Domenico Somma (Glasgow, United Kingdom), Mark Spears, Louise V Wain, Richard J Allen, Olivia C Leavy, Bibekbrata Goopui, Stephen J Bourke, Mariola Kurowska-Stolarska, Charles Mersharry

Endothelin-1 for the differential diagnosis between interstitial lung disease associated with autoimmune diseases and idiopathic pulmonary fibrosis
Sara Remuzgo-Martinez (Santander, Spain), Belén Atienza-Mateo, Verónica Pulito-Cueto, Fernanda Hernández, Virginia Portilla, Oreste Gualillo, Alfonso Corrales, Santos Castañeda, Raquel López-Mejías, José M. Cifrián, Miguel A. González-Gay

Involvement of microRNAs in the development of the bleomycin-induced pulmonary fibrosis model
Vanessa Pitozzi (Parma (PR), Italy), Paola Caruso, Maria Gloria Pittelli, Silvia Pontis, Martina Bonatti, Francesca Ruscitti, Maurizio Civelli, Marcello Trevisani

Differentially expressed genes in Diffuse Alveolar Damage (DAD) patterns of COVID-19.
Natalia de Souza Xavier Costa (São Paulo, Brazil), Ihonatas Sirino Monteiro, Jonas Erjefält, Jimmie Jönsson, Olga Cozzolino, Katia Dantas, Carl-Magnus Claussner, Premkumar Siddhuraj, Caroline Lindö, Suzete Ferreira Spina Lombardi, Alfredo Mendroni Júnior, Leila Antangelo, Carolina Silvéria Faria, Ómar Nunes Duarte Neto, Renata Almeida Monteiro, João Renato Rebelo Pinho, Michele Soares Gomes-Gouvêa, Roberta Verciano Pereira, Ellen Pierre De Oliveira, Jair Theodoro Filho, Caroline Sanden, Jamie Orengo, Matthew Sleeman, Luiz Fernando Ferraz Da Silva, Paulo Nascimento Saldiva, Marisa Dolnikoff, Thais Mauad, João Carlos Setubal

Identification of highly immunogenic epitopes in the SARS-CoV-2 Spike protein to produce monoclonal antibodies
Laia Fernandez Barat (Barcelona, Spain), Rubén López-Aladid, Leticia Bueno, Roc Farírol, Eduard Porta, Alex López-Gavín, Ana Motos, Ruth Aguilar, Marta Vidal, Alfonso Jiménez, Roberto Cabrera, Nil Vázquez, Enric Barbeta, Miquel Ferrer, Andrea Catalina Palomeque, Gemma Moncunill, Miquel Lozano, Alberto Garcia-Basteiro, Carlota Dobaño, Antoni Torres

Metabolomic spittle analysis of post COVID-19 patients
Luiz Machado (Botucatu, Brazil), Robson Prudente, Estefania Franco, Mariana Gatto, Gustavo Mota, Luana Pagan, Luiz Brizola, Maercio Dos Santos, Thulio Cunha, Robinson Sabino-Silva, Luiz Filho, Marco Martins, Paula Santos, Larissa Maia, André Albuquerque, Eloara Machado, Bruno Baldi, Suzana Tanni

Elevated plasma levels of CXCL16 in severe COVID19 patients.
Sandra Smieszek (Washington, United States)

TNFRSF1A, and TNFRSF1B variants affect TNFR1 and TNFR2 levels in patients with severe COVID-19
Ingrid Fricke-Galindo (Mexico City, Mexico), Ivette Buedría-Roldán, Leslie Chávez-Galán, Gloria Pérez-Rubio, Andy Ruiz, Yadira Palacios-Rodríguez, Rafael De Jesus Hernández-Zenteno, Ramón Fafán-Valencia
**Proteomic determinants of disease, mortality and sequelae in COVID-19 patients requiring invasive mechanical ventilation**

**Molecular genetic markers associated with course of severe COVID-19 pneumonia. Different pathways study.**
Nataliia Gorovenko (Kyiv, Ukraine), Mykola Ostrovskyy, Zoia Rossokha, Liliya Fishchuk, Nadiia Korzh, Viktoriia Vershyhora, Olga Dubitskaya, Nataliia Medvedieva, Olena Popova

**The dysregulation of the monocyte-dendritic cell interplay is associated with in-hospital mortality in COVID-19 pneumonia**
Marialuisa Bocchino (Napoli (NA), Italy), Silvia Sale, Carmine Nicastro, Ludovica Capitelli, Carmen Lombardi, Alessandro Sanduzzi Zamparelli, Luigi Atripaldi, Domenico Galati

**Development of a Deep Learning Immune Cell Abundance Model Predict 28-Day Survival in Patients with Sepsis**
Li Li (Guangzhou City, China), Yang Gu, Xun Liu, Xinchen Li, Na Zhang, Han Li, Weiqiang Qin, Tao Yu

**TP-2 Session 13:00 - 14:00**

**Thematic poster: Pulmonary rehabilitation and COVID-19**

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

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

**Chairs:** Thomas Gille (Bobigny, France), Elena Gimeno Santos (Barcelona, Spain)

**Evolution of symptoms and radiological lesions of patients affected by SARS-Cov-2 after acute infection**
Nourchene Khalfallah (Rades, Tunisia), Emna Ben Jemia, Nawres Brahmi, Siwar Rejeb, Mariem Nouira, Jihene Ben Amar, Haifa Zaibi, Hichem Aouina

**Effects of pulmonary rehabilitation in post-COVID syndrome.**
Janos Tamas Varga (Budapest, Hungary), Zsofia Szarvas, Monika Fekete, Vince Fazekas-Pongor, Kinga Pete, Renata Cserjesi, Regina Bakkos, Orsolya Gobel, Renata Pinter, Zsuzsanna Kovats, Gabor Horvath, Veronika Muller

**Effects Of An Early Rehabilitation Program In COVID-19 Patients Weaned From Non-Invasive Mechanical Ventilation: The Experience Of A Respiratory Subintensive Unit**
Elena Sciarrillo (Napoli, Italy), Salvatore Musella, Anna Annunziata, Maria Rosaria Gioia, Giuseppe Fiorentino

**Pulmonary Rehabilitation in Post-COVID-19 Patients Improves Lung Function and Mechanics and Skeletal Muscle, and Immune Response**
Rodolfo De Paula Vieira (Sao Jose Dos Campos (SP), Brazil), Maysa A. R. Brandao-Rangel, Renilson Moraes-Ferreira, Anameli Silva-Reis, Claudio R. Frison, Luis V. F. De Oliveira, Regiane Albertini

**Impact of Covid infection on clinical outcomes of hospitalized and outpatients: a matched case control study**
Antoine EL KIK (Beirut, Lebanon), Hind Eid, Albert Riachy, Elio Mekhail, Karim Hoayek, Nabil Nassim, Georges Khayat, Ghassan Sleiatly, Moussa Riachy

**The impact of comorbidities on recovery following hospitalisation from COVID-19.**
Enya Daynes (Leicester, United Kingdom), Molly M Baldwin, Urvee Karsanji, Hamish Mcauley, William D-C Man, Rachael Evans, Sally J Singh, + On Behalf Of The Phosp Consortium

**POST-COVID-19 FUNCTIONAL STATUS EIGHTEEN MONTHS AFTER POST-ACUTE PULMONARY REHABILITATION FOLLOWING DISCHARGE FROM INTENSIVE CARE UNIT**
Nicoletta R. Morelli (Den Haag, Netherlands), Peter Klijn, Eline Bij De Vaate

**Rehabilitation of work ability in patients acquiring COVID-19 in the workplace: a longitudinal study**
Katharina Zwingmann (Chemnitz, Germany), Ivo Berger, Michael Stegbauer, Katrin Müller

**Persistent Post-COVID: The first wave, one year after.**
Sieshem M. Bindraban (Rotterdam, Netherlands), Emmely W. De Roos, Rick R. Fransman, Esther M.J. Van Noort, Marise J. Kasteleyn, Johannes C.C.M. In ’T Veen

**Mapping UK healthcare pathways and rehabilitation provision for adults after a hospital admission with COVID-19.**
Linzy Houchen-Wolloff (Oakham (Leicestershire), United Kingdom), Charlotte Overton, Andrew Ibbetson, Archie Walters, Natalie Armstrong, Sally J Singh, Andrew Briggs, Rachael Evans
Effects of early physical therapy in acute severe COVID-19 pneumonia
Jaume Bordas Martinez (Barcelona, Spain), Marta Hernández Argudo, Ana Luzardo-González, Alejandro Arenobia, Franco Torno, Luis Mateu, Vanesa Vicens-Zygnum, Guadalupe Bermudo, Sahid Santos, Maria Molina-Molina, Rosa Planas, Guillermo Suarez-Cuartin

Pulmonary rehabilitation outcome in patients recovering from COVID-19 disease
Davorka Mursic (Zagreb, Croatia), Tajana Jalusic Gluncic, Dubravka Pelicaric, Zagorka Boras, Marta Korsic, Andrea Vukic Dugac, Miroslav Samarzija

‘Long covid’ is more common, underestimated, and ‘core’ health issue in post covid care setting: study of 6000 cases in tertiary care setting in India.
Shital Vishnu Patil (Latur (Maharashtra), India), Ganesh Narwade, Gajanan Gondhali, Rajesh Patil, Abhijit Acharya, Utreeshwar Dhumal

The role of vascular density in pulmonary rehabilitation of PASC patients
Kris Ides (Antwerpen, Belgium), Wendel Dierckx, Yinka De Meyer, Eline Lauwers, Maarten Lanchus, Jan De Backer, Wilfried De Backer

Gender differences in symptoms and psychological burden in Long Covid patients: results of a comprehensive multidimensional assessment protocol
Guido Vagheggini (Volterra (PI), Italy), Francesca Marzetti Moro, Simone Meini, Mario Miniati, Giuseppe Levantno, Mauro Taccola, Roberto Andreini, Arifi Vel, Giulioardi, Eugenia Panait, Elena Cim, Angelo Gemignani

MULTIDIMENSIONAL ASSESSMENT OF DYSPNEA IN POSTCOVID PATIENTS REFERRED TO PULMONARY REHABILITATION
Miriam Dominguez Blasco (Sevilla, Spain), Cecilia Lopez, Maria Dolores Dominguez, Antonio Yosvani, Rosa Maria Vazquez, Inmaculada Ortiz, Jose Antonio Rodriguez, Pilar Cepeda

Inspiratory muscle capacity in Long Covid
Jane Dickson (Dublin 4, Ireland), Eddy Ferrufino Rivera, Abilash Sahadevan, Seamus J. Linnane

Exploring the Impact of Fatigue on Exercise Tolerance in Post-COVID Individuals
Jitten Bahia (Leicester, United Kingdom), Molly Baldwin M, Charlotte Carter-Lang, Emma Chaplin, Nikki Gardiner, Sally Singh J, Enya Daynes

Patient-reported outcome measures 3 and 6 months after pulmonary rehabilitation following COVID-19
Markus Hayden (Bad Reichenhall, Germany), Matthias Limbach, Michael Schuler, Gabriele Schwarzl, Steffen Merkl, Karsten Botosch, Dennis Nowak, Konrad Schultz

Late Breaking Abstract - Nebulization and COVID-19: Is the risk of spread actual?
Christophe Thibon (Bruxelles, Belgium), Laurent Vecellio, Jean Christophe Dubus, Kabamba Benoit, Gregory Reychler

Thematic poster: Assessment and follow-up of cystic fibrosis lung disease in children
Disease(s): Airway diseases
Method(s): Epidemiology, Pulmonary function testing, Imaging, Physiology, General respiratory patient care, Public health, Pulmonary rehabilitation, Transplantation
Chairs: Alexander Möller (Zürich, Switzerland), Chair to be confirmed

Estimating the minimum sample size for interventional research using the lung clearance index
Cole Bowerman (Hamilton, Canada), Felix Ratjen, Sanja Stanojevic

Longitudinal LCI in infants with CF using a portable multiple breath washout (LIMBuS study)
Claire Nissenbaum (Manchester, United Kingdom), Daniel Weiner, Laura Healy, Anna Shawcross, Catherine Fullwood, Rebecca Thursfield, Clare S Murray, Alexander Horsley

Respiratory symptom scores to capture acute respiratory events in children with cystic fibrosis
Lucy Perrem (Toronto (ON), Canada), Sanja Stanojevic, Michelle Shaw, Melinda Solomon, Hartmut Grasemann, Neil Sweeney, Valerie Waters, Stephanie Davis, D.B Sanders, Felix Ratjen

Impact of Pseudomonas aeruginosa antibiotic eradication therapy on lung function decline in cystic fibrosis
Isabel Gascon Casaredi (Barcelona, Spain), Michelle Shaw, Valerie Waters, Ryan A. Seeto, Ana C. Blanchard, Felix Ratjen
Automated airway-artery analysis on chest CT confirms positive effect of inhaled hypertonic saline in preschool children with cystic fibrosis
Yuxin Chen (Rotterdam, Netherlands), Qianting Lv, Eleni-Rosalina Andrinoopoulo, Leticia Gallardo-Estrella, Jean-Paul Charbonnier, Daan Caudri, Stephanie Davis, Margaret Rosenfeld, Felix Ratjen, Richard Kronmal, Karen Hinckley Stukovsky, Stephen Stick, Harm Tiddens

The clinical effectiveness and validity of home spirometry in children with cystic fibrosis
Philip Lawrence (Liverpool (Merseyside), United Kingdom), Sarah Mayell, Rebecca Thurstfield

Lung ultrasound value in cystic fibrosis consolidation and atelectasis detection
Diana Popin (Timisoara, Romania), Ioana Mihaia Ciucu, Mihaela Dediu, Emil Robert Stoicescu, Liviu Laurentiu Pop

Characterization of a signal-correction error in a commercial multiple-breath washout device
Marc-Alexander Oestreich (Bern, Switzerland), Florian Wyler, Blaise Etter, Kathrym Ramsey, Philipp Latzin

Lung clearance index and nutritional status in cystic fibrosis children
Mihaela Dediu (Timisoara, Romania), Diana Popin, Liviu Laurentiu Pop, Ioana Mihaia Ciucu

Comparison of sensor crosstalk-corrected N2 versus SF6 multiple breath washout outcomes
Renee Jensen (Toronto (ON), Canada), Angel Phanthanourak, Michelle Shaw, Roxy Chen, Fatima Adil, Denisa Niththiyanandan, Sanja Stanojevic, Felix Ratjen

Feasibility of telehealth spirometry for patients with cystic fibrosis in a regional setting
Elpis Hatziazgorou (Thessaloniki, Greece), Athina Sopiadou, Christos Kogias, Maria Gioulvanidou, Elsavet-Anna Chryssoychou, Ioustini Kalaitzopoulou, Pauline Peftoulidou, John Tsanakas

One-Year Follow-Up of Cystic Fibrosis Patients Who Cannot Reach the Modulator Therapies Although Having Indications: What are Their Losses?

Increased diagnostic value of LCI in pulmonary exacerbations in cystic fibrosis paediatric patients using the corrected Exhalyzer software.
Irena Wojsyk-Banaszak (Poznań, Poland), Barbara Więckowska, Zuzanna Stachowiak, Marta Andrzejska, Aleksandra Szczepankiewicz

The effect of breathing exercise on the quality of life of 3-12 years old childrens with cystic fibrosis and their families
Mine Kahyoncu (Istanbul, Turkey), Hakan Mursaloğlu, Zuhal Yerlikaya, Cansu Yılmaz Yeğit, Mürüvet Yanaz, Aynur Gulieva, Burcu Uzunoğlu, Gamze Taştan, Almala Pınar Ergenekon, Ela Erdem Eralp, Yasemin Gökdemir, Fazilet Karakoç, Bülent Karadağ

Assessing the utility of home spirometry for managing children with cystic fibrosis during COVID-19 pandemic
Binu George Babu (Walsall, United Kingdom), Brinderjeet Heyeer, Ciaran Mcardle, Benjamin Davies, Prasad Nagakumar, Maya Desai

The efficacy of inhaled hypertonic saline in children with cystic fibrosis who receive daily DNase.

Thematic poster: Clinical problems in respiratory medicine: 2

Session 13:00 - 14:00
Thematic poster: Clinical problems in respiratory medicine: 2

Disease(s) : Airway diseases, Thoracic oncology, Respiratory critical care, Sleep and breathing disorders, Interstitial lung diseases

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

Chairs : Margarida Afonso (Castelo Branco, Portugal), Chair to be confirmed
<table>
<thead>
<tr>
<th>Title</th>
<th>Authors</th>
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</thead>
<tbody>
<tr>
<td>Does preexisting immunocompromised status prevent mortality in COVID-19 patients: friend or foe?</td>
<td>Duygu Vezir (İSTANBUL, Turkey), Şehnaz Olgun Yıldızeli, Derya Kocakaya, Zeynep Mercancı, Baran Balcan, Caner Çınar, Emel Eryüksel, Sait Karakurt</td>
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<td>Clinical effectiveness of 13-valent and 23-valent pneumococcal vaccination among adults with immunocompromising conditions.</td>
<td>cinta de diego cabanes (tarragona, Spain), Eva Satué-Gracia, Angel Vila-Rovira, Clara Rodriguez-Casado, Olga Ochoa-Gondar, Angel Vila-Cőrcoles</td>
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<td>Lung manifestation of Common variable immunodeficiency – the results from the nationwide multicenter study</td>
<td>Tomas Milota (Prague, Czech Republic)</td>
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<td>Chemotherapy-induced anemia: What are predictive factors in lung cancer?</td>
<td>Darine Sakka (sfax, Tunisia), Nesrine Kallel, Rim Khemakhem, Ilhem Yangui, Hajer Ayedi, Sami Kammoun</td>
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<td>Phenotypic features of &gt;300 suspected severe asthma attacks</td>
<td>Mouaid Aljehani (Nottingham, United Kingdom), Tim Harrison, Matthew Martin</td>
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<td>Information and Counselling Offered to Women of Childbearing Age, When Starting Biological Therapy for Severe Asthma Across the UK.</td>
<td>Susan Frost (Birmingham (West Midlands), United Kingdom), Ann Mcmurray, Prasad Nagakumar</td>
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<tr>
<td>Hypersensitivity pneumonia: clinical and radiological profile</td>
<td>Soukaina Hallouli (CASABLANCA, Morocco), Meryem Zadi, Hajar Arfaoui, Hasna Jabri, Wiam Elkhattabi, Hicham Afif</td>
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<tr>
<td>What goes bump in the night? An analysis of unplanned contacts to a Regional UK Children’s Long Term Ventilation team</td>
<td>Elisabeth Queen, Rachel Gregory, Adele Frost, Nicky Menarry, Hannah Borrill, Andrew Prayle, Matthew Hurley</td>
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<td>Sociodemographic and clinical characteristics of patients with asthma who were prescribed 3 SABA canisters/year in the SABINA International study</td>
<td>Ashraf Alzaabi (Abu Dhabi, United Arab Emirates), Walter Javier Mattarucco, Rocio Martina Barriga, Hao-Chien Wang, Dina Diaz, Adel Khattab, Manuel Pacheco Gallego, Hisham Farouk, David Price</td>
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<tr>
<td>Pulmonary function, muscular strength and quality of life according to mechanical ventilation use in post-Covid patients</td>
<td>Diane Rezende Batista (Botucatu (SP), Brazil), Rodrigo Barcellos, Robson Prudente, Bruno Lima, Vitor Nishiyama, Estefânia Franco, Luiz Henrique Machado, Luis Fernando Brizola, Maércio Santos, Ediris Savadkouhi, Camila Colombo, Suzana Ruiz, André Albuquerque, Eloara Machado Ferreira, Suzana Tanni</td>
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<td>Home initiation of Long Term Ventilation in children and young people, UK Regional service experience.</td>
<td>Meera Kumar (Nottingham, United Kingdom), Hannah Borrill, Adele Frost, Rachel Gregory, Nicky Menarry, Andrew Prayle, David Thomas, Matthew Hurley</td>
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<td>Effects of Salbutamol upon lung ventilation, hemodynamics and oxygen transport by arterial blood in chronic obstructive pulmonary disease (COPD)</td>
<td>Valentin Calancea (Chisinau, Codru, Republic of Moldova), Eudochia Terna, Constantin Martinieuc, Ion Sirbu, Elena Calancea, Constantin Matcovschi, Sergiu Matcovschi</td>
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<td>Birch pollen-induced seasonal allergic rhinitis and bronchial asthma: implication for allergen-specific immunotherapy in adults.</td>
<td>Jiri Nevrlka (Brno, Czech Republic), Iveta Selingerova, Zlatica Nevrklkova, Katarina Ditetova, Lenka Zdrazilova-Dubska</td>
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<td>Assessment of the relationship between cognitive functions and inhaler device compliance in elderly COPD patients</td>
<td>Oğuz Karciçğlı (Ankara, Turkey), Mert Eşme, Sevinç Sarıç Ulaşlı, Burcu Balam Doğu</td>
</tr>
<tr>
<td>Analysis of Characteristics and Outcomes of 223 Patients Admitted to Our Unit due to Respiratory Insufficiency Secondary to Pneumonia from SARS-COV2.</td>
<td>Marialma Berlendis (Chiari (BS), Italy), Alberto Valsecchi, Nicola Venturoli, Sabrina Arondi, Giovanni Vitrone, Paola Sinigaglia, Maroone Salameh, Denise Modina, Paolo Ceruti, Giampietro Marchetti</td>
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<tr>
<td>Provision of home high flow therapy is feasible and associated with positive patient experience and reduced admissions</td>
<td>Chris Carlin (Glasgow (Glasgow), United Kingdom), Anna Taylor, Maureen Manthe, Grace Mcdowell, David Lowe</td>
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<td>Efficacy estimation of filter pads in expiratory filter/valve sets by means of Tc-99m-labeled graphite aerosol</td>
<td>Hubertus Hautzel (Essen, Germany), Timo Bartel, Kaid Darwiche, Clemens Aigner, Christian Taube, Ken Herrmann</td>
</tr>
</tbody>
</table>
**Evolution of the Use of Noninvasive Mechanical Ventilation in Chronic Obstructive Pulmonary Disease**

**Risk stratified physician associate asthma review**
Sonika Jalota (Liverpool, United Kingdom), Sophie Wotherspoon, Hassan Argomandkhah, Shauna Johnston, Joanne Halewood, Sarah Sibley, Hassan Burhan

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**Session 13:00 - 14:00**

**Thematic poster: Hot topics in paediatric bronchology**

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

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

**Chairs:** Nadine Freitag (Krefeld, Germany), Raffaella Nenna (Rome, Italy)

- **Pulmonary complications in children with primary immunodeficiency disorders**
  ECE OCAK (ANKARA, Turkey), Süle Selin Soydaş, Murat Yasin Gencoğlu, Salih Uyttun, Satı Özkan Tabakçığı, Gökçen Dilșa Tuğçu, Sanem Eryılmaz Polat, Ayşe Metin, Güzin Cinel

- **Comparison of lung ultrasonography and magnetic resonance imaging versus chest computed tomography in patients with pulmonary alveolar microlithiasis**
  Mina Hızal (Ankara, Turkey), İlkın Elif Günel, H. Nürsun Özkan, Berna Oguz, Nagehan Emiralioglu, Ebru Yalçın, Deniz Doğru, Urgur Ozcelik, Mithat Halliloglu, Nural Kiper

- **Do lower airway infections occur concomitant or subsequent to upper airway infections in children with primary ciliary dyskinesia (PCD)?**
  Jisha Dhanik (Leicester, United Kingdom), Marzia Nazari, Rajinder Kang, Liam Causon, Priti Kenia, Alison Claydon, Manjith Narayanan

- **Association between airway pathogens and lung function in children with Primary Ciliary Dyskinesia (PCD) - a longitudinal study**
  Marzia Nazari (Leicester, United Kingdom), Jisha Dhanik, Priti Kenia, Liam Causon, Rajinder Kang, Alison Claydon, Manjith Narayanan

- **Evaluation of respiratory problems in children with Down syndrome**
  Pelin Asfuroğlu (Ankara, Turkey), Tugba Ramasli Gursoy, Tugba Sismanlar Eyuboglu, Ayşe Tana Aslan

- **The role of Flexible bronchoscopy in the evaluation and outcome of children with chronic cough: 20-year experience**
  Elpis Hatziarogou (Thessaloniki, Greece), Christos Lillos, Fotios Kivrassilis, John Tsanakas

- **Hypertensive pneumothorax with cystic lesions in a newborn**
  Michele Ghezzi (Bergamo, Italy), Rossella Lamberti, Francesca Riccaboni, Giulia Canali, Alessandra Zenga, Andrea Farolfi, Enza D’Auria, Gian Vincenzo Zuccotti

- **Recurrent respiratory infections in Down Syndrome: keep in mind bronchoscopy**
  Michele Ghezzi (Bergamo, Italy), Raffaella De Santis, Laura Gionolio, Francesco Bergamaschi, Andrea Farolfi, Laura Fiori, Enza D’Auria, Gian Vincenzo Zuccotti

- **Structured light plethysmography (SLP) in children after lung surgery**
  Michele Ghezzi (Bergamo, Italy), Luisa Abbattista, Anna Dighera, Valeria Calcaterra, Sara Costanzo, Annalisa De Silvestri, Andrea Farolfi, Enza D’Auria, Gloria Pelizzo, Gian Vincenzo Zuccotti

- **Is genotype a guide for phenotype in primary ciliary dyskinesia?**
  Pelin Asfuroğlu (Ankara, Turkey), Tugba Sismanlar Eyuboglu, Ayşe Tana Aslan, Tugba Ramasli Gursoy, Gulsum Kayhan

- **Comparison of bronchoalveolar lavage and upper respiratory tract cultures in children with chronic endobronchial infection**
  Maria Elieni Papakonstantinou (Athens, Greece), Konstantinos Douros, Stylianos Chatzianagiotou, Alexandra Krontsi, Elpiniikki Kartsiou, Georgiia Karkouli, Angeliki Galani

- **Primary ciliary dyskinesia: genotype characterization and lung function in a group of Italian patients**
  Laura Petrarcha (Roma (RM), Italy), Valentina Guida, Giuseppe Cimino, Raffaella Nenna, Francesca Piceci-Sparascio, Maria Giulia Conti, Antonella Frassanito, Enrica Mancino, Greta Di Mattia, Domenico La Regina, Carlo Cappelli, Alessandro De Luca, Fabio Midulla

- **Flexible bronchoscopies in a UK tertiary paediatric respiratory unit - 3 year follow up**
  Mihaela Diaconu (London, United Kingdom), Hani Gowal, Omer Adam, Hemant Kulkarni
Laryngeal Sensation in Children with Dysphagia and Neurological Impairment
Nadine Freitag (Krefeld, Germany), Dirk Schramm

Cryotherapy in pediatric airway
Dirk Schramm (Düsseldorf, Germany), Nadine Freitag, Karsten Kötz, Ignacio Iglesias-Serrano, Mario Culebras-Amigo, Vladimir Koblinek, Santiago Pérez-Tarazona, Enrique Cases Viedma, Jt Srikantha, Peter Durdik, Kaid Darwiche, Sune Rubak, Patrick Stafler

Non-cystic fibrosis, non-primary ciliary dyskinesia bronchiectasis (nCFnPCD-BE) in preschool children
Kanwal Jehanzeb (Birmingham, United Kingdom), Christopher Hine, Hollie Smith, Naomi Parsons, Maya Desai, Priti Kenia, Prasad Nagakumar

TP-7 Session 13:00 - 14:00

Thematic poster: Novel discoveries in immune (dys)function in lung disease

Disease(s): Interstitial lung diseases, Airway diseases, Pulmonary vascular diseases

Method(s): Cell and molecular biology, Imaging

Chairs: Niki L. Reynaert (Maastricht, Netherlands), Ken Bracke (Ghent, Belgium)

Immune signaling pathways and cell expression is linked to pulmonary fibrosis
Mohammad Shadab Ali (New Delhi, India), Sonia Verma, Anita Chopra, Saurabh Mittal, Anant Mohan, Ashu Bhalla, Sudheer Arava, Vijay Hadda

Genetic deletion of SLPI results in increased protease activity and mucus clearance in a murine model of chronic lung disease
Peter Ferris (Belfast, United Kingdom), Ryan Brown, Rebecca Delaney, Caiofa Dougan, Declan Doherty, Donna Small, Marcus Mall, Daniel Mcauley, Bronwen Connolly, Sinéad Weldon, Clifford Taggart

Deciphering the role of angiogenic T cells in the lung vasculopathy of rheumatoid arthritis, systemic sclerosis and other autoimmune diseases
Verónica Pulito-Cueto (Santander, Spain), Sara Remuzgo-Martinez, Fernanda Genre, Belén Atienza-Mateo, Virginia Portilla, Victor M. Mora-Cuesta, David Iturbe-Fernández, Leticia Lera-Gómez, Javier Rodríguez-Carrio, Diana Prieto-Peña, Ricardo Blanco, Alfonso Corrales, Oreste Gualillo, José M. Cifrián, Raquel López-Mejías, Miguel A. González-Gay

Macrophages – the conductor of inflammation in COPD?
Bahareh Jouleh (Rådal, Norway), Rune Nielsen, Per Bakke, Randi Sandvik, Thrarmini Kalanathan, Jonathan Ward, Susan Wilson, Tomas Eagan

Hypertonic saline triggers inflammatory responses in THP-1 derived macrophages
Francesca Sposito (Liverpool, United Kingdom), Paul McNamara, Christian Hedrich

The role of airway neutrophils in primary ciliary dyskinesia
Marfa Blanter (Leuven, Belgium), Maaike Cockx, Mirre De Bondt, Sarah Abouelasrar Salama, Liesel Wittebols, Lotte Vanbrabant, Noëmie Pörntt, Nele Berghmans, Natalie Morten, Mieke Boon, Sofie Struyf

LSC - 2022 - Inflammatory blood neutrophils in COPD stem from activated bone marrow progenitors

Eosinophils sub-types differ between patients with asthma and COPD
Carlos Cabrera Lopez (Las Palmas de Gran Canaria, Spain), Alejandra Sánchez Santos, Angelina Lemes Castellano, Sara Cazorla Rivero, Joaquín Breña Atienza, Enrique González Dávila, Juan Pablo De Torres Tajes, Miguel Divo, Victor Pinto-Plata, Francesca Polverino, Jose Maria Marin, Bartolomé Celli, Ciro Casanova Macario

Innate lymphoid cells 2 (ILC2) in the transition from pediatric wheezing to asthma
Matteo Bonato (Padova, Italy), Erica Bazzan, Tania Maes, Guy Brusselle, Graziella Turato, Ylenia Padrino, Martina Turrin, Manuel G Cosio, Angelo Barbato, Marina Saetta, Simonetta Baraldo

Activated type 2 innate lymphoid cells are elevated in children with uncontrolled asthma
Kornel Golębski (Amsterdam, Netherlands), Sophia Bjorkander, Yoni Van Dijk, Boris Gole, Michael Kabesch, Anke H Maitland-Van Der Zee, Erik Melén, Esmee Van Der Ploeg, Uroš Potočnik, Susanne Reinartz, Elisangela Santos Valente, Ralph Stadhouders, Cornelis Van Drunen, Susanne Vijverberg

Identification of Ir8-dependent pulmonary DC subsets using scRNASeq in experimental model of asthma and tolerance
Adan Chari Jirmo (Hannover, Germany), Ruth Grychtol, Svenja Gaedeke, Bin Liu, Stephanie Destefano, Christine Happel, Olga Halle, Joao Tereno Monteiro, Oliver D Breiholz, David Deluca, Gesine Hansen
Eosinophil-epithelial respiratory cells crosstalk in IL-33 mediated inflammation 3D models.
Claudia Afferni (Roma (RM), Italy), Adriana Gambardella, Sara Andreone, Fabrizio Mattei, Giovanna Schiavoni

Visualisation of longitudinal corticosteroid-mediated changes in T2 and IL-17A-producing cell populations using multiparameter CyTOF and tSNE
Gareth Hynes (Oxford (Oxfordshire), United Kingdom), Gillian Donachie, Sophie Morgan, Matilda Downs, Ian Pavord, Timothy Hinks

Mechanisms of nasal epithelial cell permeability in eosinophilic Severe Asthma: effect of anti-IL5R therapy
Katie Raby (London, United Kingdom), Piers Dixey, Nazanin Zoumenat Kermani, Janice Koranteng, Fan Chung, Pankaj Bhavsar

Effect of IL-3, IL-5 and GM-CSF on adhesion and chemotaxis of blood eosinophil subtypes in allergic asthma
Airidas Rimkunas (Kaunas, Lithuania), Andrius Januskevicius, Egle Vasyle, Julita Palaciuone, Kestutis Malakauskas

Eosinophil Subtypes Affect Airway Smooth Muscle Cells Proliferation Autocrine Adjustment via Extracellular Matrix Proteins Production in Asthma
Andrius Januskevicius (Kaunas, Lithuania), Airidas Rimkunas, Egle Jurkeviciute, Julita Palaciuone, Kestutis Malakauskas

Activation of blood eosinophil subtypes proliferative properties by eosinophilopoetins in severe non-allergic eosinophilic asthma
Jolita Palacionyte (Kaunas, Lithuania), Airidas Rimkunas, Egle Jurkeviciute, Andrius Januskevicius, Kestutis Malakauskas

LSC - 2022 - Effect of eosinophilopoetins on proliferative properties of blood eosinophil subtypes in allergic asthma
Jolita Palacionyte (Kaunas, Lithuania), Airidas Rimkunas, Egle Jurkeviciute, Andrius Januskevicius, Kestutis Malakauskas

The Effect of Bronchial Allergen Challenge on Blood Eosinophil Subtypes-Specific miRNAs Expression in Allergic Asthma
Egle Jurkeviciute (Kaunas, Lithuania), Paulina Malakauskaite, Andrius Januskevicius, Airidas Rimkunas, Julita Palaciuone, Kestutis Malakauskas

Late Breaking Abstract - Electronic cigarette vapour suppresses human neutrophil functions and alters phenotype, irrespective of nicotine content.
Alice Jasper (Birmingham, United Kingdom), Aduragbemi Faniyi, Lauren Davis, Frances Grudzińska, Robyn Halston, Dhruv Parekh, Elizabeth Sapey, David Thickett, Aaron Scott

TP-24 Session 13:00 - 14:00
Thematic poster: Treatment of pulmonary arterial hypertension

Disease(s): Pulmonary vascular diseases, Airway diseases, Respiratory critical care
Method(s): Public health, General respiratory patient care, Physiology, Epidemiology, Pulmonary rehabilitation, Cell and molecular biology, Imaging, Endoscopy and interventional pulmonology

Chairs: Luis Jose JARA PALOMARES (Sevilla, Spain), Tomás Pulido Zamudio (México D.F, Mexico)

Acute beta blockade improves right ventricular diastolic filling in pulmonary arterial hypertension: an experimental CMR and clinical pressure-volume study
Colm McCabe (London, United Kingdom), Chinthaka Samaranayake, Marili Niglas, Aleksander Kempny, Ali Ashok, Nicoleta Baxan, Joy Pinguell, Konstantinos Dimopoulos, Laura Price, S. John Wort, Lan Zhao

Acute beat blockade improves right ventricular diastolic filling in pulmonary arterial hypertension: a rodent CMR and clinical human pressure-volume study
Chinthaka Samaranayake (London, United Kingdom), Marili Niglas, Aleksander Kempny, Nicoleta Baxan, Ali Ashok, Joy Pinguell, Konstantinos Dimopoulos, Laura C Price, Stephen J Wort, Lan Zhao, Colm McCabe

Haemodynamic (HD) evaluation of LIQ861 (treprostinil) inhalation powder for the treatment of pulmonary arterial hypertension (PAH)
Benjamin Egenlauf (Heidelberg, Germany), Satenik Harutyunova, Panagiota Xantholiou, Savan Patel, Ashley Galloway, Ekkehard Grüning

Combination therapy prescribing in pulmonary arterial hypertension patients in a real-world setting in Latin America
Tatiana Pineda (Bogota, Colombia), Alex Bennett, Ignacio Bluro, Julia Harley, Jorge Irias, Tomás Pulido, Alicia Ramirez, Catalina Rozo Bedoya, Mark Small, Mauricio Orozco-Levi

Macitentan real-world experience in elderly patients over 75 years with pulmonary arterial hypertension (PAH)
Nick Kim (La Jolla, United States), Richard Channick, Kelly Chin, Lada Mitchell, Stefano Turricchia, Rose Ong, Vallerie McLaughlin
CARE PAH study design: an international, prospective real-world cohort of PAH patients
David Kiely (Sheffield (South Yorkshire), United Kingdom), Marc Humbert, Nancy Dreyer, Vallerie Mclaughlin, Tomas Pulido, Neli Boyanova, Benjamin Frauchiger, Fabrice Kiefer, Cheryl Lassen, Rose Ong, Lilian Sanna, Annette Sauter

Tolerability, safety and survival in patients with severe pulmonary arterial hypertension treated with intravenous epoprostenol (Veletri®): 6-months, open label, observational, non-interventional study
Julia Degering (Heidelberg, Germany), Satenik Harutyunova, Nicola Benjamin, Christina Alessandra Eichstaedt, Panagiota Xanthoulis, Benjamin Egenlauf, Rebekka Seeger, Ekkehard Grünig

Retrospective on the Developing World's Participation in Pulmonary Hypertension Clinical Trials: 1999-2021
Rong Jiang (Shanghai, China), Lu Zheng, Shang Wang, Yi Yan, Ping Yuan

Mean Size of Atrial Shunt predicts Survival in Pulmonary Hypertension patients undergoing Atrial Septostomy
Rodrigo Zebadua (Ciudad de México, Mexico), Nayeli Zayas, Julio Lopez, Mario Pozas, Laurina Zorrilla, Julio Sandoval, Tomas Pulido

Effect of breathing oxygen-enriched air on exercise performance in healthy and different cardiopulmonary diseases Data from 5 RCTs.
Julian Müller (Zürich, Switzerland), Mona Lichtblau, Stéphanie Saxer, Simon R. Schneider, Paula Appenzeller, Elisabeth D. Hasler, Michael Furian, Konrad E. Bloch, Silvia Ulrich

Effect of acetazolamide on incremental cycling exercise in precapillary pulmonary hypertension. A randomized placebo-controlled, double blind, cross-over trial
Julian Müller (Zürich, Switzerland), Paula Appenzeller, Mona Lichtblau, Stéphanie Saxer, Charlotte Berlier, Simon Rafael Schneider, Michael Furian, Esther Irene Schwarz, Konrad Ernst Bloch, Silvia Ulrich

Efficacy of oral treprostinil as an add-on therapy for PAH
David Kiely (Sheffield (South Yorkshire), United Kingdom), Ekkehard Grünig, Vijay Balasubramanian, Joan Barberà, Carmine Dario Vizza, Jean Elwing, Naima Sood, Youlan Yao, Louis Holdstock, Scott Seaman, Meredith Broderick, R. James White

Long-term clinical assessment in patients with Eisenmenger Syndrome treated with macitentan
Rodrigo Zebadua (Ciudad de México, Mexico), Julio César López, Nayeli Guadalupe Zayas, Julio Sandoval, Montserrat Villalobos-Pedroza, Abraham Cruz, Daisy Karina Hernández, Jesús Fihelberto Canul, Tomás Pulido

Feasibility, acceptability, safety and efficacy of a remotely delivered home-based pulmonary hypertension exercise program
Ciara McCormack (Navan, Ireland), Briona Kehoe, Sarah Cullivan, Noel McCaffrey, Sean Guiney, Brian McCullagh, Andrew Mccarren, Sarah Hardcastle, Niall Moyna

Survival of patients diagnosed with Pulmonary Hypertension undergoing Atrial Septostomy
Rodrigo Zebadua (Ciudad de México, Mexico), Nayeli Zayas, Julio Lopez, Laurina Zorrilla, Mario Pozas, Montserrat Villalobos, Julio Sandoval, Tomas Pulido

Predictors of the response to combined therapy with phosphodiesterase-5 inhibitors and endothelin receptor antagonists in pulmonary arterial hypertension
AGUSTIN ROBERTO GARCIA (BARCELONA, Spain), Isabel Blanco, Manuel Lopez Meseguer, Juan Antonio Domingo Morera, Clara Martín Onituyo, Olga Tura Ceide, Isabel Otero Gonzalez, Pilar Escribano Subías, Joan Albert Barberà

Effects of Molsidomin upon pulmonary hemodynamics and oxygen transport by arterial blood in chronic obstructive pulmonary disease (COPD) and decompensated cor pulmonale
Valentin Calancea (Chisinau, Codru, Republic of Moldova), Eudochia Terna, Constantin Martinu, Svetlana Eremciuc, Ion Sirbu, Constantin Matcovschi, Elena Calancea, Sergiu Matcovschi

Cardiorespiratory adaptation whilst breathing normobaric hypoxia vs. short-term exposure to altitude in patients with pulmonary hypertension.
Simon Raphael Schneider (Zürich, Switzerland), Mona Lichtblau, Michael Furian, Laura Mayer, Julian Müller, Stephanie Saxer, Konrad Bloch, Silvia Ulrich

Late Breaking Abstract - Effect of 5 weeks of oral acetazolamide on patients with pulmonary vascular disease: a randomized, double-blind, cross-over trial
Mona Lichtblau (Zürich, Switzerland), Stephanie Saxer, Julian Müller, Paula Appenzeller, Charlotte Berlier, Simon R Schneider, Laura Mayer, Michael Furian, Esther I Schwarz, Erik R Swenson, Konrad E Bloch, Silvia Ulrich

Late Breaking Abstract - Cannabidiol reduces lung and heart fibrosis in rats with monocrotaline-induced pulmonary hypertension
Anna Krzyżewska (Białystok, Poland), Marta Baranowska-Kuczek, Irena Kasacka, Hanna Kozłowska
Disease(s) : Respiratory critical care, Airway diseases, Interstitial lung diseases, Pulmonary vascular diseases
Method(s) : General respiratory patient care, Public health, Respiratory intensive care, Epidemiology, Imaging, Cell and molecular biology, Physiology
Chairs : Nicolas Roche (Paris, France), Adrian Ceccato (Barcelona, Spain)

Safety and efficacy of apremilast in adults hospitalized with COVID-19
Rani Elenjical (Centurion, South Africa), Manish Jain, Marcelo Rodrigues Bacci, Anatoliy Gavyrov, Bernardo Goecke Hochberger, Samuel Navarro Alvarez, Tomas Alvarez, Jon Persichino, Prista Charuworn, Cassandra E. Milmont, Rong Zhang

A phase 3 study to evaluate the efficacy and safety of reparixin in severe COVID-19 pneumonia
Giovanni Landoni (Milano, Italy), Antonio Voza, Massimo Puoti, Nicola Coppola, Hana Akselrod, Elizabeth Gavioli, Enrico M. Minnella, Sophie Toya, Carolina Marsiglia, Francesco Sergio, Marcello Allegritti, Flavio Mantelli

Efficacy and safety of garadacimab in patients with severe COVID-19
Alberto Papi (Cone, Ferrara, Italy), Renee Stapleton, Paul M Shore, Mihai Alexandru Bica, Younan Chen, Michael Larbig, Tobias Welle

Cotrimoxazole in hospitalised patients with severe COVID-19 – interim results from the CoTroxCov study
Syed Rehan Quadery (Dublin, Ireland), Thomas John, Pallabi Sinha, Minakshi Bhattcharjee, Saswata Bose, Udas Chandra Ghosh, Boudhayan Bhattacharya, Santanu Kumar Tripathi, Bibhuti Saha

Outcomes of a phase 2 trial for the inhaled JAK inhibitor, nezulcitinib, in hospitalized patients with acute lung injury due to severe COVID-19
Rajeev Sagar (Paradise Valley, United States), Dave Singh, Edmund Moran, David Lombardi, Tuan Nguyen, David Bourdet, Nathan Pfeifer, Jacky Woo, John Belperio

Inhaled beclomethasone in the treatment of early COVID-19: a double blind, placebo-controlled trial
Channa Rasasinha (Colombo 7, Sri Lanka), Chamila Mettananda, Arunasalam Pathmeswaran, Chatura Peiris, Aloka Gunasekara, Dharani Abeyrathna, Thimira Egodage, Channaka Dantanarayana

Value of Montelukast as a potential treatment of Post COVID-19 Persistent cough: A randomized controlled pilot study
Aliab Abd Rabou Mohamed-Hussein (Assiut, Egypt), Mohamed Eltaher Aa Ibrahim, Hoda Makhloth, Nahed Makhloth

AM3, a natural glycoconjugate, as adjuvant treatment for COVID-19 patients
DULCENOMBRE GÓMEZ-GARRE (Madrid, Spain), Adriana Ortega-Hernández, Javier Modrego, Rubén Gómez-Gordo, Laura Espino, Nieves Martell, Arturo Corbatón

Factors associated with non-invasive positive pressure ventilation failure in a COVID-19 Intermediate Care Unit
Inês Teixeira Farinha (Maia, Portugal), Alexandra Tenda Cunha, Filipa Costa

Tocilizumab reduces the need for mechanical ventilation in severe Coronavirus Disease 2019 (COVID19); the Greek Experience in a pragmatic clinical setting
Georgia Hardavella (Athens, Greece), Elena Bellou, Elli Keramida, Nefeli Papaioannou, Irna Bracka, Spiros Mazarakis, Ioannis Karampinis, Nikolaos Anastasiou, Xenophon Theiakos, Panagiotis Demertzis

Effect of colchicine on clinical outcomes in COVID-19
Souha Abdenneji (Tunis, Tunisia), Wafa Fekih, Iheb Ben Krayen, Jamel El Ghoul

Real-life prospective study on tocilizumab in severe COVID-19 infection
Lucy Power (Dublin, Ireland), Bianca Morarasu, Anam Sarfaraz, Ahmad Basirat, Hassan Rahman, Seamas Donnelly, Edward Moloney, Miness Kooiblann, Stephen Lane

EFFECT OF ANTICOAGULANTS ON THROMBOEMBOLIC EVENTS IN COVID-19 PATIENTS DISCHARGED FROM HOSPITAL AND OUTPATIENTS
CANER ÇINAR (istanbul, Turkey), Zeynep Ceren Balaban, Selin Kesim, Feyza Şen, Saat Karakurt, Tanju Yusuf Erdil, Tunç Oneş, Semih Emel Eryüksel

No benefit of a prolonged course of corticosteroids in patients with COVID-19 secondary organizing pneumonia
Baptiste Artignan (Rennes, France), Stéphanie Dirou, Matthieu Warny, Antoine Moui, Vivien Danielo, Claire Defrance, Renan Liberge, Olivier Moris, Marie Chauveau, Paul Le Turner, Antoine Asquier Khali, Alexandra Espita Thibault, Mathieu Artifoni, Maite Agbokou, Lue Desmedt, Anne Sophie Boureau, Emmanuel Eschapasse, Francois-Xavier Blanc

Safety and efficacy of pamrevlumab (FG-3019) in patients with COVID-19 pneumonia: an open-label, randomized, parallel-arm phase 2 study
Giacomo Sgalla (Modena (MO), Italy), Gina Gualano, Paolo Maria Leone, Alessia Comes, Diana Verdisro, Loona Poole, Elias Kouchakji, Fabrizio Palmieri, Luca Richeldi
Stabilised, synthetic sulforaphane in hospitalized patients with suspected COVID-19 pneumonia: a double-blind, placebo-controlled RCT
Hani Abo-Leyah (Perth (Perthshire), United Kingdom), Merete B Long, Yan Hui Giam, Themnalar Vadiveloo, Rebecca C Hull, Holly R Keir, Thomas Pembridge, Daniela Alferes De Lima, Benjamin Jn New, Sarah Inglis, Amy Gilmour, Chloe Hughes, Lilia Delgado, Graeme Maclellan, Albenza T Dinkova-Kostova, James D Chalmers

Olfactory rehabilitation in non-severe COVID-19 patients: a randomized double-blinded clinical trial
THIAGO SERRANO (CAMPINAS, Brazil), Marcelo Antonio, Lorena Giacomin, José Dirceu Ribeiro, Eulalia Sakano

Impact of Dexamethasone Treatment on COVID-19 Pneumonia Mortality
Konstantinos Tsitouras (Korntal-Münchingen, Germany), Alessandro Ghiani, David Ayubi, Selina Briese, Lutz Nina, Matthias Hansen, Sebastian Allgaueer, Michael Torzewski, Katja Rothfuss, Lukas Gerthold, Claus Neurohr

Predictors of mortality in tocilizumab treated severe covid-19
Ilias Papanikolaou (Corfu, Greece), Konstantinos Pagkratis, Serafeim Chrysikos, Emmanouil Antonakis, Aggeliki Pandi, Chrysavgi Kosti, Eleftherios Markatis, Georgios Hillas, Antonia Digalaki, Sofia Koukidou, Eleftheria Chaini, Andreas Athinos, Katerina Dimakou

Pharmacokinetics and pharmacodynamics of imatinib in COVID-19 patients
Nadia Baalbaki (Bennekom, Netherlands), Jurjan Aman, Pierre M. Bet, Erik Duijvelaar, Jos Twisk, Cristina Longo, Kazien Mahmoud, Anke-Hilse Maitland-Van Der Zee, Eleonora L. Swart, Harm Jan Bogaard, Imke H. Bartelink

Thematic poster: Medical education in the digital era
Disease(s): Sleep and breathing disorders, Pulmonary vascular diseases, Thoracic oncology, Airway diseases
Method(s): Public health, General respiratory patient care, Epidemiology, Endoscopy and interventional pulmonology
Chairs: Marjolein Brusse-Keizer (Enschede, Netherlands), Lars Konge (Virum, Denmark)

From virtual to hybrid: attendees’ ideas for virtual conference improvements and future conferences
Sai Ram (Bern, Switzerland), Daniel Stricker, Carine Pannetier, Nathalie Tabin, Richard Costello, Daiana Stolz, Kevin Eva, Sören Huwendiek

Effects of COVID-19 pandemic on medical education from trainee perspective and reinstatement of weekly departmental teaching in a respiratory ward
Asad Anwar (Guildford, United Kingdom)

Training impact on COVID-19 among health care workers
Imene MAGROUN (Ariana, Tunisia), Latifa Ben Afia, Sounaya Chebbi, Faten Mhiri, Hiba Ziedi, Jihen Rejeb

Bronchoscopy simulation training and its impact on novices’ bronchoscopy skills
Eveline Gerretsen (Maastricht, Netherlands), Laurence Crombag, Marleen Groenier, Erik Van Der Heijden, Walther Van Mook, Jouke Annema, Frank Smeenk

Physician Associates’ (PAs) perceptions and experience in Pleural procedures
Sameer Nagi (Sidcup, United Kingdom), Rebecca Greenbury, Sarah White, Matthew James, Burhan Khan

Utilization of different aspects of digital health among pulmonology residents in Turkey during the pandemic
Nazli Cetin (Denizli, Turkey), Maide Gozde Inam, Orkun Eray Terzi, Atalay Ozkul, Nazli Huma Teke, Mehmet Parlak, Aylin Oztascan Ugurlu

A virtual reality platform for training in the management of acute respiratory diseases.
Paua Bordallo Vázquez (Gasteiz, Spain), Olatz Llaguno, Camila García-López, Javier Poyo, Miguel Ángel Sánchez, Irantzu Eforza, Francisco Javier Ribas-Solis, Gaspar Sánchez

Practical Procedures Workshop for Physician Associates (PAs)
Rebecca Greenbury (London, United Kingdom), Sarah White, Matthew James, Sameer Nagi, Burhan Khan

Usefulness of a low cost digital stethoscope for remote pulmonary auscultation
Ignasi Garcia Olivé (Badalona, Spain), Agnes Hernandez Biette, Pere Serra Mitja, Elisabet Gras, Jaume Palou, Jorge Abad, Antoni Rosell

The quality of YouTube videos on Obstructive Sleep Apnea
Hulya Abali (Istanbul, Turkey), Fatma Tokgoz Akyil, Seda Tural Onur, Dilara Demir

EVALUATION OF THE GREEK TRADITIONAL MEDIA PLURALISM BEFORE AND DURING THE COVID-19 PANDEMIC
Ourania Kotsiou (Larissa, Greece), Dimitra Siachpazidou, Evdoxia Gogou, Konstantinos Gourgoulianis
An overview of Respiratory Research funding in Europe and UK between 2012 to 2022.
Priyadarshinee  Karthisankar, Aravind Ponnuswamy

Non-specialists’ understanding of their role in pulmonary hypertension diagnosis is significantly improved with online case-based education
Christy Rohani-Montez (Duillier, Switzerland)

Purview of teleconsultation during COVID-19 pandemic.
VISHNU GIREESH (THIRUVANANTHAPURAM, India), Sneha Tirpude

Kevin Frederick Deasy (Ballincollig, Ireland), Anne-Marie Sweeney, Marcus Peter Kennedy

Late Breaking Abstract - Improved health outcomes for Aboriginal children hospitalised with chest infections
Pamela Laird (Perth, Australia), Roz Walker, Jack Whitby, Fenella Gill, Elizabeth Mc Kinnon, Matthew Cooper, Anne Chang, André Schultz

Late Breaking Abstract - Physicians’ preferences in the use of PROMs during asthma and allergic rhinitis clinical approach
Ivan Cherrez-Ojeda (Guayaquil, Ecuador), Jean Bousquet, Torsten Zuberbier, Marcus Maurer, Karla Robles-Velasco, Belen Intrigaño, María José Farfán Bajalta, Matias Panchana Lascano, German D. Ramón, Dorota Krasowska, Pavel Kolkhir, Natasa Teovska, Aljicia Kasperska-Zajac, Anna Zalewska-Janowska, Mona Al-Ahmad, Maryam Ali Al-Nesf, Tayseer Sabah, Sophia Neisinger, Florin Mihaltan, Maryam Khoshkhi, Maia Rukhadze, Kiran Godse, Ana Maria Giménez-Arnau, David Pesqué, Anja Lingnau, George Christoff, Ted Popov, Monica Rodriguez, Désirée Larenas Linnemann, Daria Fomina, Mitja Kosnik, Rabija Öz İlaş Kara, Juan Carlos Ivancevich, Nelson Rosario, Luis Felipe Ensina, Roberto Fachini Jardim Criado, Herberto Chong, Christopherson Gengyny Caballero López

TP-3 Session 13:00 - 14:00
Thematic poster: Digital health interventions in respiratory practice

Disease(s) : Airway diseases Pulmonary vascular diseases Interstitial lung diseases

Method(s) : Public health Pulmonary rehabilitation General respiratory patient care Pulmonary function testing Imaging

Chairs : Io Hui (Edinburgh (Edinburgh), United Kingdom), Andrea Aliverti (Milan, Italy)

Exacerbation predictive modelling using real-world data from the myCOPD app
Henry Glyde (Bristol, United Kingdom), Alison Blythin, Tom Wilkinson, Ian Nabney, James Dodd

Use of a severe asthma algorithm in an asthma education center electronic medical record (EMR)
Alison Morra (port hope, Canada), Delanya Podgers, Andrew Day, Patrick Norman, Catherine Lemiere, M. Diane Lougheed

Exploring use of a connected Internet-Of-Things system (A4A+) with CE-marked devices to support asthma self-management? A mixed method study
Io Hui (Edinburgh (Edinburgh), United Kingdom), Brian Mckinstry, Mark Buchner, Hilary Pinnock

Can the generalizability problem of artificial intelligence be overcome?: Pneumothorax detection algorithm
Elvan Burak Verdi (ANKARA, Turkey), Deniz Dogan Müllazimoglu, Serhat Erol, Ashlihan Gurun Kayha, Muhammed Yilmaz, Abdussamet Turker, Ahmet Murat Ozbayoglu, Ozlem Isik, Asli Bostangolu Karacim, Ogvu Velioglu Yakut, Bulent Mustafa Yenigun, Canturk Tasci, Caglar Uzun, Atilla Halil Elhan, Ayten Kayi Cangir, Ozlem Ozdemir Kumbasar, Akin Kaya

Utilisation of health care and operational cost difference in telerehabilitation of COPD patients with a Virtual Autonomous Physiotherapist Agent
Jose Cerdán de las Heras (Aarhus C, Denmark), Fernanda Balbino, Daniel Catalan-Matamoros, Elisabeth Bendstrup

Preferred functionalities on smartphone applications for physical activity in adults with low cardiorespiratory function
Victor Dourado (Santos (SP), Brazil), Wesley Vieira, Maria Simões, Vinicius Lauria, Krom Guedes, Rodrigo Da Silva, Thatiane Ostolin, Neli Proença, Ricardo Padovan

Use of Pan-Canadian Respiratory Standards Initiative for Electronic Medical Health Records (PRESTINE) elements to measure performance in an asthma education centre
Alison Morra (port hope, Canada), Delanya Podgers, Andrew Day, Patrick Norman, Catherine Lemiere, M Diane Lougheed

Lung sounds classification with artificial intelligence
Abid Sourour (Sfax, Tunisia), Mohamed Majdi Karray, Rahma Gargouri, Ilhem Ben Salah, Walid Feki, Zied Triki, Najla Bahloul, Nesrine Kallel, Rim Khemakhem, Nadia Moussa, Samy Kammoun
Integrating asthma tools and clinical guidelines into primary care EMRs across Canada: A mixed-methods approach
Max Moloney (Selwyn, Canada), Madison Mackinnon, Emma Bullock, Alison Morra, David Barber, Samir Gupta, Teresa To, John Queenan, Geneviève Digby, M. Diane Lougheed

Comparison of lung auscultation between smartphone and digital stethoscope in patients with asthma: a feasibility study

Patient perceived facilitators to greater self-management using home spirometry
Karen Parsons (Oxford, United Kingdom), Carmine Ruggiero, Shakila Hussain, Andrew Achaiah, Vimal Nathwani, Sabrina Zulfikar, Emily Fraser, Peter Saunders, Ling-Pei Ho, Rachel Hoyles

Development and performance testing of a deep learning computer-aided diagnosis system for chest X-rays
Gift Gana (Harare, Zimbabwe), Thokhozani Sibanda, Tatenda Madzorera, Micah Nhema, Anna Siswakadr, Sisodwa Nkomo, Tonderai Mapako, Evanther Nyoni, Haji Mupakura

Scoping review on environments to support digital health solutions valued by clinicians in Bangladesh, India, Indonesia, Malaysia and Pakistan

Computational modelling for enhanced management of multimorbidity
Ruben Gonzalez Colom (SANT HIPOLIT DE VOLTREGA, Spain), Carmen Herranz, Joan Carles Contel, Emili Vela, Antoni Sisó, Jordi Perea, Isaac Canò, Josep Roca

Defining Cases of Confirmed and Suspected Asthma in Electronic Medical Records for Sentinel Surveillance
Max Moloney (Selwyn, Canada), David Barber, John Queenan, Alison Morra, Samir Gupta, Teresa To, Geneviève Digby, Rachel Morkem, M. Diane Lougheed

Decision support algorithm using machine learning for the diagnosis of pulmonary embolism on chest X-ray
Elvan Burak Verdi (ANKARA, Turkey), Deniz Dogan Güliz, Serhat Erol, Ashish Karna, Asli Ilgaz, Karac, Sayyed Ayyoob, Ahmet Bahadir Dal, Akin Kaya

Features and quality of COPD self-management apps in the Android marketplace
Shirley Quach (Concord, Canada), Ana Oliveira, Roger Goldstein, Dina Brooks

Tele Pulmonology in COPD patients
Sarang Patil (Dhule (Maharashtra), India)

Late Breaking Abstract - Adherence to inhaled drugs – more than just reminders and nudging
Sabine Häussermann (Munich, Germany), Laura Andersen, Michalea Frisch

TP-13

Thematic poster: Diagnosis, prevention and management of infectious respiratory diseases

Disease(s) : Airway diseases, Interstitial lung diseases, Respiratory critical care
Method(s) : Epidemiology, Public health, General respiratory patient care, Imaging, Pulmonary function testing, Pulmonary rehabilitation, Respiratory intensive care, Cell and molecular biology

Chairs : Barbara Bonnesen Bertelsen (Hellerup, Denmark), Hye Yun Park (Seoul, Republic of Korea)

Social distancing and severe exacerbations of COPD – a nationwide semi-experimental study during the COVID-19 pandemic
Mohammad Isam Saeed (Copenhagen C, Denmark), Pradeeshan Sivapalan, Jörgen Eklöf, Charlotte Suppli Ulrik, Andrea Brown, Ulla Möller, Torben Tranborg, Jens-Ulrik Stehr

Predictors of severe COVID-19 among patients with uncontrolled asthma: a register-based study
Stina Selberg (Luleå, Sweden), Johanna Karlsson Sundh, Jon R. Konradsen, Helena Backman, Linnea Hedman, Anne-Lise Lindberg, Caroline Stridsman

Symptoms persisting after hospitalization for COVID-19: 12 months interim results of the CO-FLOW study
COVID-19 infection in children through lung radiographic imaging changes
Oxana Munteanu (Chișinău (Chișinău), Republic of Moldova), Ana Goloborodie, Rodica Selevestru, Diana Rotaru-Cojocari, Corina Comica, Svetlana Sciuca

A fast point-of-care PCR test for infectious diseases, based on aerosol capturing.

Covid-19 in children: disease spectrum and risk factors
Enrica Mancino (Roma (RM), Italy), Raffaella Nenna, Greta Di Mattia, Luigi Matera, Laura Petrarca, Maria Giulia Conti, Antonella Frassanito, Domenico Paolo La Regina, Elio Iovine, Virgili Fabrizio, Mattia Spatuzzo, Sara Ialongo, Flaminia Bonci, Fabio Midulla

One-year dynamics of antibody titers after three doses of SARS-CoV-2 BNT162b2 vaccine
Anna Breslavsky (Rishon LeTsiyon (Center District), Israel), Amir Bar-Shai, Natalya Bilenko, Ori Wand

Acute Lower Respiratory Tract Disease (aLRTD) is a complex clinical syndrome causing significant disease burden in a prospective cohort study
Catherine Hyams (Bristol, United Kingdom), Elizabeth Begier, Jo Southern, Jade King, Anna Morley, Zsuzsa Szasz-Benczur, Maria Garcia Gonzalez, Jane Kinney, James Campling, Sharon Gray, Jennifer Oliver, Robin Hubler, Srinivas Valluri, Andrew Vyse, Gillian Ellsbury, John Mclaughlin, Bradford D Gessner, Adam Finn

Yong Suk Jo (Seoul, Republic of Korea), Hyun Lee, Hayoung Choi

Standardized 3- and 12-months imaging and clinical-functional pulmonary follow-up in patients hospitalized for COVID-19
DAVIDE CHIMERA (Pisa, Italy), Francesco Pistelli, Laura Tavanti, Giovanna Manfredini, Chiara Romei, Annalisa De Liperi, Ferruccio Aquilini, Micòl Micheli, Alessandro Celi, Roberta Pancani, Massimiliano Desideri, Nicoletta Carpenè, Luciano Gabbrielli, Laura Carrozzi

Correlation between post-vaccination titres of anti-Spike antibodies and protection against breakthrough SARS-CoV-2 infection in 7530 UK adults
Giulia Vivaldi (Romford, United Kingdom), David A. Jolliffe, Sian Faustini, Hayley Holt, Mohammad Talaee, Florence Tydeman, Alex G. Richter, Seif O. Shaheen, Adrian R. Martinez

One-year physical recovery in patients admitted to ICU and ward for COVID-19
Julia Berentschot (Rotterdam, Netherlands), Majanka Heijenbrok-Kal, Martine Bek, Gerard Ribbers, Joachim Aerts, Rita Van Den Berg-Emmons, Merel Hellemans

Trends on pneumococcal and all-cause pneumonia incidence in Catalanian adults after universal PCV13 implementation in children.
cinta de diego cabanes (tarragona, Spain), Angel Vila-Cócoles, Eva Satué-Gracia, Olga Ochoa-Gondar, Angel Vila-Rovira, Domingo Ribas-Segui

Post COVID syndrome in health care workers in Tunisia: is there any correlation withSARS-CoV-2 IgG level?
Ons Grissa (Tunis, Tunisia), Amani Dallagi, A Benzarti, Meriem Mjid, Safa Marzouki, Maya Zribi, Mnel Battikh, Imen Ismail, Nawel Khoulja, Janet Hssinet, Mm Sallemi, Lam Laadhar, Besma Dhahri, Abir Ben Jemaa

Epidemiology analysis of bacterial co-infections in SARS-CoV-2 community-acquired pneumonia (CAP)
Alina V. Martynova (Kiev, Ukraine), Olga S Pavlova, Svetlana Uskova

Respiratory Outcomes in COVID-19 patients 3-6 months after admission to Public Health Hospital Maciel. Montevideo, Uruguay. A Follow up Cohort Study.
Jimena Nuñez Artigas (Montevideo, Uruguay), Monica Mamchur, Cecilia Chao, Cecilia Rodriguez Flores, Edilberto Pacheco, Analía Tempone, Karen Rabuñal, Carolina Silva, Fernando Gimenez, Ana Ines Gruss, Cecilia Acosta, Victoria Izola, Maria Victorina Lopez Varela

Recurrent community-acquired hospitalizations: Characteristics description in a 9-year follow-up period
Ezequiel Pessoa (Lisbon, Portugal), Cristina Bárbara, Andreia Costa, Paulo Jorge Nogueira

Prospective cohort study of adults hospitalised with acute COPD exacerbations: SARS-CoV-2-associated patient characteristics and clinical outcomes
Catherine Hyams (Bristol, United Kingdom), George Nava, Elizabeth Begier, Jo Southern, Jade King, David Adegbite, Leah Fleming, Jennifer Oliver, Jennifer L Nguyen, Bradford D Gessner, John M Mclaughlin, Adam Finn, James Dodd
TP-23  Session  13:00 - 14:00
Thematic poster: How to prevent progression in idiopathic interstitial pneumonias

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<th>Disease(s)</th>
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<td>Interstitial lung diseases</td>
<td>General respiratory patient care</td>
<td>Fernanda Ines Hernandez Gonzalez (Barcelona, Spain), Giacomo Sgalla (Modena (MO), Italy)</td>
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**Humoral Response among patients with Interstitial Lung Disease Vaccinated with the BNT162b2 SARS-Cov-2 vaccine - a prospective cohort study**
Barak Pertzov (Raanana, Israel), Einat Shmueli, Haim Ben Zvi, Amir Massarweh, Tamar Barkan, Asaf Ness, Yael Shostak, Lev Freidkin, Osnat Shtraichman, Mordechai Kramer

**SARS-CoV2 vaccination in Hungarian IPF patients**
Nora Melinda Toth (Budapest, Hungary), Tamas Nagy, Eniko Barce, Alexandra Nagy, Noemi Eszes, Aniko Bohacs, Krisztina Vincze, Veronika Müller

**INFLUENCE OF ATMOSPHERIC POLLUTION IN MADRID ON THE SEVERITY OF NON-IPF ILD**
Pablo Mariscal Aguilar (Madrid, Spain), Luis Gómez Carrera, Carlos Carpio Segura, Gema Bonilla Hernán, María Isabel Torres Sánchez, María Fernández Velilla-Peña, Elena Villamañán Bueno, Rito Rigojo Zapata, Jaime Pavón Guede, Concepción Párrons Sánchez, Rodolfo Alvare-Bala Walthier

**Defining stakeholders’ research priorities in progressive pulmonary fibrosis in the United Kingdom**
Laura Fabbri (London, United Kingdom), Louise Wright, Steve Jones, Wendy Adams, Katherine Cowan, Simon Hart, Anne-Marie Russell, Michael Gibbons, Naiza Chaudhuri, Jennifer Lynch-Wilson, Ghisl Jenkins

**Reduced immunogenicity of the mRNA vaccine BNT162b2 in patients with IPF**

**Early administration of nintedanib after the onset of acute exacerbation in patients with interstitial lung disease**
Motoyasu Kato (Tokyo, Japan), Shinichi Sasaki, Eri Hayakawa, Soichiro Soma, Yuta Arasi, Shun Nakazawa, Hiroaki Motomura, Issei Sumiyoshi, Yusuuke Ochi, Kotaro Kadoya, Shinsaku Togo, Kazuhisa Takahashi

**Improved survival of IPF patients treated with antifibrotic drugs compared with untreated patients**
Mark G.J.P. Platenburg (Nieuwegein, Netherlands), Coline H.M. van Mooreos, Ivo A. Wiertz, Pieter Zanen, Joanne J. van der Vis, Adriane D.M. Vorselaars, Marcel Veltkamp, Jan C. Grutters

**Risk factors of adverse outcome after acute hospitalization in Idiopathic Pulmonary Fibrosis (IPF)**
Emilia Kassandra Achilles Åttingsberg (København, Denmark), Nils Hoyer, Saher Shaker

**Real-world outcomes for incidental interstitial lung abnormalities diagnosed over the baseline round of the Yorkshire Lung Screening Trial.**
Sara Upperton (Leeds, United Kingdom), Claire Bradley, Paul Beirne, Bobby Bhartia, Alison Boland, Philip Crobsie, Michael Darby, Rhian Gabe, Martyn Kennedy, Tim Sutherland, Matthew Callister

**Comparison of three dyspnea questionnaires in predicting survival of interstitial lung diseases**
Onofre Moran Mendoza (Kingston (ON), Canada), Andres Moran Macdonald, Sami Alyami, Maxine Kish, Sean Davison

**Long-term effect of nintedanib treatment in 11 countries of Europe and Asia**
Martina Koziar Vašáková (Praha 10, Czech Republic), Martina Sterclova, Nesrin Mogulkoc Bishop, Katarzyna Lewandowska, Veronika Müller, Mordechai Kramer, Marta Hajkova, Dragana Jovanovic, Michael Studnicka, Jasna Tekavec-Trkanci, Anton Penev, Petra Ovesna, Jakub Gregor

**Post-hoc analysis of clinical characteristics and outcomes in patients with idiopathic pulmonary fibrosis (IPF) by elevated autoantibody (AAb) status**
Chad Newton (Dallas, United States), Tejaswini Kulkarni, Katerina Samara, Jinnie Ko, Sachin Gupta, Elana J Bernstein

**Lessons learned from 4 years Multidisciplinary discussion (MDD) in interstitial lung diseases (ILD)**
Abdelkarim Khalifa (Pfaffikon ZH, Switzerland), Gunther Wiest, Detlef Kirsten, Anne-Marie Kirsten
Therapeutic decisions regarding initiation of antifibrotic therapy in IPF: a multicenter, prospective cohort study from Poland.
Katarzyna Górska (Warszawa, Poland), Marta Maskey-Warzęchowska, Małgorzata Barnaś, Adam Białas, Adam Barczyk, Hanna Jagielska-Len, Ewa Jassem, Aleksander Kania, Katarzyna Lewandowska, Sebastian Majewski, Magdalena Martusewicz-Boros, Wojciech Piotrowski, Alicja Siemińska, Krzysztof Sładek, Małgorzata Sobiecka, Marzena Trzaska-Sobczak, Witold Tomkowski, Beata Żołnowska, Rafał Krenke

Patterns of antifibrotic treatment changes in a cohort of idiopathic pulmonary fibrosis patients
Inge Raadal Skov (Odense, Denmark), André Shamoun Darbrodi, Jesper Romhild Davidsen

Could family history avoid lung biopsy in fibrotic interstitial lung diseases? From a clinical retrospective cohort study.
Diego Duminy-Luppi (L'Hospitalet de Llobregat, Spain), Alex Alcaide-Aldeano, Lurdes Planas-Cerezas, Guadalupe Bermudo-Peluche, Vanesa Vicens-Zymgunt, Patricio Luburich, Belen Del Rio, Roger Llatjós, Lara Pijuan, Ignacio Escobar, Ana Montes-Worboys, Yasmina Gutiérrez-Rodriguez, Rosario Perona, Salud Santos-Pérez, Jordi Dorca, Maria Molina-Molina

Diagnostic delay in IPF impacts progression-free survival, quality of life and hospitalisation rates
Nils Hoyer (København NV, Denmark), Thomas Skovhus Prior, Elisabeth Bendstrup, Saher Burhan Shaker

Persistence, safety, and costs of antifibrotic treatment for idiopathic pulmonary fibrosis (IPF): a US Veterans Health Administration (VHA) claims study
Ying Qiu (Princeton, United States), Julia Zhu, Brandon Elpers, Christopher Dieyi, Clare Byrne, Risho Singh, Aryeh Fischer

Effects of low dose pirfenidone on lung function patients with idiopathic pulmonary fibrosis in real practice
Kyoung Min Moon (Republic of Korea), Bock-Hyun Jung, Jae Guk Lee, Myung Pyo Kim

Late Breaking Abstract - Inhaled pirfenidone is associated with better quality of life scores in idiopathic pulmonary fibrosis
Felix Woodhead (Coventry (West Midlands), United Kingdom), Grace Kim, Jonathan Goldin, Courtney Thompson, Michele Shaffer, Kelly Otto, Bruce Montgomery

TP-4 Session 13:00 - 14:00

Thematic poster: Physiologic studies of respiratory diseases

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

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

Chairs: Iulia Cristina Ioan (Vandoeuvre-Les-Nancy, France), Chair to be confirmed

Lung function and exercise capacity profile in pleuroparenchymal fibroelastosis
Ali Chour (Lyon, France), Thomas Gille, Mouhammad Nasser, Khais Ahmad, Julie Traclet, Hilario Nunes, Emilie Blais, Arthur Petat, Vincent Cottin, Segoléne Turquier

Acute hypoxia characterises pulmonary micro-aspiration in patients with gastroesophageal reflux disease and laryngopharyngeal reflux.
Gregory Falk (Lindfield, Australia), Leticia Burton, Daminda Weerasinghe, Hans Van Der Wall

Sex-specific difference in health-related quality-of-life effects and effect of preventive acetazolamide treatment
Alina Häfliger (Hildisrieden, Switzerland), Aline Buergin, Laura C Mayer, Maamed Mademilov, Mona Lichtblau, Talant Sooronbaev, Silvia Ulrich, Konrad E Bloch, Michael Furian

Arterial oxygen partial pressure and adverse health effects in COPD at altitude
Ahmet Sevik (Zuerich, Switzerland), Thomas Gaisl, Laura Graf, Silvia Ulrich, Konrad E Bloch, Mona Lichtblau, Michael Furian

Lung function at 12 years of age in children born very premature compared to term born controls and association to neonatal morbidities and sex.
Cecilia Hagman (Lund, Sweden), Lars Björklund, Ingrid Pupp-Hansen, Ellen Tufvesson

What adds the dynamic lung Hyperinflation in the diagnosis of asthma in children?
FATMA ELLEUCH (Sfax, Tunisia), Rim Kammoun, Sana Sellami, Ines Kammoun, Farah Gargouri, Hela Zouari, Kaouthar Masmoudi

Prevalence and predictors of hypoxemia and chronic respiratory failure in stable COPD patients.
Giuseppe Croce (Italy), Sarah Elizabeth O'Donnell, Elisa Franceschi, Stefano Pini, Anna Casartelli, Fiammetta Danzo, Dejan Radovanovic, Pierachille Santos
Exercise-induced bronchoconstriction in pediatric age: relationship between age bronchoconstriction and recovery. Catarina Camarinha (Lisboa, Portugal), Inês Marques, Isabel Almeida, Inês Nunes, Sara Matos, Ana Cristina Henriques, Ana Verónica Lourenço, Mário Morais-Almeida

Persistent exertional dyspnea post COVID-19: potential mechanisms Amany Elbehairy (Alexandria, Egypt), Shaimaa A. Elbialy, Nesma M. Geneidy, Ayman I. Baess, Abdel-Monem E. Metwally, Muhammad M. ElhoFY

Time for recovery of function of alveolo-capillary membrane after COVID 19 infections Besim Pnjavorac (Tešanj, Bosnia and Herzegovina), Aida Mujaković, Hasan Skiljo, Tamer Bego, Lejla Pnjavorac, Elvira Corhodžić, Jusuf Mehčić, Omer Bedak, Emin Brkić, Irlan Pnjavorac

Long-term impact of covid-19: a systematic review of the literature and meta-analysis Diana C Sanchez-Ramirez (Winnipeg, Canada), Kaylene Normand, Yang Zhaoyun, Rodrigo Torres-Castro

Impact of elexacaftor/tezacaftor/ivacaftor combination therapy on lung function in adults with cystic fibrosis: Beyond FEV1 Maximilian Wollsching-Strobel (Köln, Germany), Doris Dieninghoff, Laura F Emrich, Doreen Kroppen, Daniel S Majorski, Tim Mathes, Friederike S Magnet, Sarah B Schwarz, Carl-Peter Crieé, Wolfram Windisch

Effects of different end-expiratory lung volumes on haemodynamics and gas exchange in a rodent model of type-2 diabetes Álmos Schranc (Szeged, Hungary), Gergely H. Fodor, Roberta Südy, József Tölnai, Barna Babik, Ferene Peták

Lung function, bronchial hyperresponsiveness and respiratory symptoms in elite athletes across sports. Julie Stang (Oslo, Norway), Guro Pauck Bernhardsen, Thomas Halvorsen, Trine Stensrud

Blowing in the Wind: Use of Incentive Spirometry in Preventing Acute Respiratory Distress Syndrome for Patients with Moderate COVID Ann Crizette Garcia (Manila, Philippines), Jose Sarenas

Cardiopulmonary exercise testing in patients with COVID-19 at 3 months from hospital discharge Leonardo Gori (Florence, Italy), Carlo Fumagalli, Luca Ciani, Niccolò Marchionni, Francesco Fattirrolli, Chiara Zocchi, Laura Rasero, Alessandra Sorano, Maria Vittoria Silverii, Iacoblo Olivotto, Federico Lavorini

Comparison of dynamic cerebral autoregulation and cardiac baroreceptor sensitivity between residents living at different altitudes Michael Furian (Zürich, Switzerland), Mathilde Ulliel-Roche, Connor A. Howe, Fanny Zerizer, Mathieu Marillier, Anne-Catherine Bernard, Ivan Hanco, Benoît Champigneulle, Sébastien Baillieul, Philip N. Ainslie, Aurélien Pichon, Stéphane Doutreleau, Samuel Verges, Julien Brugniaux

Late Breaking Abstract - A rare case of acute eosinophilic pneumonia induced by vaping-associated lung injury: a case report Moath alkhouzaie (Khobar, Saudi Arabia), Abir Alsaid, Alaeldin Elfaki, Raghad Alghamdi

Late Breaking Abstract - Long-term durability of ivacaftor (IVA) treatment benefit in people with cystic fibrosis (PwCF) Teja Thorat, Christian Merlo, Christina Scirica, Lisa Mcgarry, Maral Dersarkissian, Catherine Nguyen, Yuqian M Gu, Aruna Muthukumar, Joe Healy, M. Alan Brookhart, Jaime Rubin

Late Breaking Abstract - Long-term cardiopulmonary exercise outcomes among COVID-19 survivors: preliminary insights from an Italian study Andrea Baccelli (Milano, Italy), Rocco Francesco Rinaldo, Francesca Marchetti, Beatrice Re, Mauro Degrasii, Elena Maria Parazzini, Fabiano Di Marco, Stefano Centanni

**Thematic poster: Chronic airway diseases and infections: management and prevalence**

**Disease(s):** Airway diseases

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

**Chairs:** Lies Lahousse (Ghent, Belgium), Hannu Kankaanranta (Seinäjoki, Finland)

“Smart” inhalers: is there a role in the management of severe asthma? Yee Yong See (Scarborough, United Kingdom), Evon Chee Yin Chow, Michael Crooks, Mandy Robinson, Karen Watkins, Francesca Turner, Joanne Thompson, Shoaih Faruqi
Utility of “smart” inhaler and suppression of fractional exhaled nitric oxide (FeNO): does it make a difference to patient outcomes?
Evon Chee Yin Chow (Hull, United Kingdom), Yee Yong See, Michael Crooks, Mandy Robinson, Karen Watkins, Francesca Turner, Joanne Thompson, Shoaib Faruqi

Dry powder inhaler (DPI) resistance: human behaviour and psychology of patient inspiratory effort
Monbi Chakma (London, United Kingdom), Sally Meah, Martyn Biddiscombe, Darragh Murnane, Omar Usmani

Dry Powder Inhalers (DPIs) vs Metered Dose Inhaler (MDI) with valved spacer: Using Functional Respiratory Imaging (FRI) to assess modelled lung deposition in a COPD patient
Jason Suggett (London (ON), Canada), Vlad Kushnarev, Hosein Sadaf

Cardiovascular system side-effects of salbutamol: A systematic review and meta-analysis
Xuan Li (Shenzhen, China), LanHong Ma, Li Jia, CangHong Zhi, HongLin Li, Ling Bai

Safety profile of triple ICS/LABA/LAMA FDC in the treatment of asthma: a meta-analysis
Luigino Calzetta (Roma (RM), Italy), Francesco Cavalli, Alfredo Chetta, Mario Cazzola, Paola Rogliani

Association of Short-Acting -2 Agonist (SABA) Overuse and Risk of COPD among Adult Asthma Patients
Michael Asamoah-Boaheng (St John's, Canada), Jamie Farrell, Kwadwo Osei Bonsu, William K Midodzi

Improvement of asthma control after 3 months of treatment with extrafine single-inhaler triple therapy in asthmatics: a real-world view from Germany
Timm Greulich (Marburg, Germany), Berkant Akyildiz, Renata Slawinska, Andreas Wendt, Valentina Bogoevska, Christian Gessner

Improvement of treatment adherence after 3 months of treatment with extrafine single-inhaler triple therapy in asthmatics: a real-world view from Germany
Christian Gessner (Leipzig, Germany), Berkant Akyildiz, Veronika Grickschat, Tanja Borucki, Frederik Trinkmann

Dose delivery characteristics and lung deposition of indacaterol/glycopyrronium/mometasone furoate (IND/GLY/MF) and IND/MF via Breezhaler device: An Alberta Idealised Throat (AIT) evaluation
Xavier Jaumont (La Madeleine, France), Jürgen Jauernig, Katrin Fiebich, Dilraj Singh, Karen Mezzi

Inhaled Corticosteroids in Patients with Chronic Obstructive Pulmonary Disease and Risk of Acquiring Streptococcus Pneumoniae Infection. A Multiregional Epidemiological study
Christian Kjer Heerfordt (Hellerup, Denmark), Josefin Eklöf, Pradeesh Sivapalan, Truls Sylvan Ingebritsens, Tor Biering-Sørensen, Zita Barrella Harboe, Jesper Koefod Petersen, Christian Østergaard Andersen, Jonas Bredtoft Boel, Anne Katrine Bock, Alexander G. Mathioudakis, John R. Hurst, Shailesh Kolekar, Mohammad Reza Khazdair, Majid Mirsadraee, Omid Rajabi

Disease burden and treatment patterns among patients with asthma on GINA 4/5 therapies in China
Victoria S. Benson (Uxbridge (Middlesex), United Kingdom), Ge Liu, Adam Haq, Mark Small, James Siddall, Rafael Alfonso-Cristancho, Anna Richards

A randomised controlled trial of the effects of a total diet replacement programme in uncontrolled asthma associated with obesity
Varun Sharma (Glasgow, United Kingdom), Helen C Ricketts, Louise McComb, Naomi Brosnahan, Luisa Crawford, Lesley Slaughter, Anna Goodfellow, Femke Steffensen, Rekha Chaudri, Michael EJ Lean, Douglas C Cowan

Two-month treatment with Zataria multiflora affected inflammatory cytokines, pulmonary function testes and respiratory symptoms in patients with chronic obstructive pulmonary disease (COPD)
Mohammad Hossein Boskabady ( Mashhad, Islamic Republic of Iran), Vahideh Ghorani, Mohammad Reza Khazdair, Majid Mirsadraee, Onid Rajabi

The availability, cost and affordability of essential medicines for asthma and COPD in low- and middle-income countries: A systematic review
Marie Stolbrink (Liverpool (Merseyside), United Kingdom), Helen Thomson, Ruth M. Hadfield, Obianju B. Ozoh, Rebecca Nantanda, Shamantitha Jayasooria, Brian Allwood, David M.G. Halpin, Sundeep Salvi, Maria Montes De Oca, Kevin Mortimer, Sarah Rylance

Characterization of a Colombian cohort of high-risk phenotypes of COPD according to GesEPOC 2021
Carlos Andrés Celis Preciado (Bogotá (Cundinamarca, Colombia), Olga Milena Garcia Morales, Alejandra Cañas Arboleda, Fanny Paola Rodriguez Torres, Javier Leonardo Galindo Pedraza, Juan Pablo Alzate Granados
Physical activity, sedentary behaviour and sleep of Sri Lankan adults living with COPD: cross-sectional study
Akila Randika Jayamaha (Colombo, Sri Lanka), Chamiliya Perera, Ilaria Pina, Thamara Amarasekara, Anthony Seneviratne, Ravini Karunatillake, Amitha Fernando, Andy Barton, Michael Steiner, Savithri Wimalasekera, Sally Singh, Mark Orme

EDAC PREVALENCE AND ASSOCIATED FACTORS IN PATIENTS WITH SEVERE BRONCHIAL ASTHMA
Isabel Alfaya Fiaño (Barcelona, Spain), Alan Jhunior Solis Solis, Felipe Andreo García, Pere Serra Mitja, Astrid Crespo Lessmann, Alfons Torrego Fernández, David Ramos Barbón, Toni Zapata Comas, Ignasi García Olivé, Vicente Plaza Moral, Antoni Rosell Gratacos, Jorge Abad Caño, Carlos Martínez Rivera

Asthma patients discharged from the emergency department in Ireland: an unmet need?
Cameron Forward (Galway, Ireland), Rory O’Loghlin, Helen Mulryan, Donna Langan, Michael Harrison, Robert Rutherford, Ruth Cusack

Thematic poster: Identifying therapeutic targets and novel drug strategies in pulmonary diseases

Disease(s): Interstitial lung disease, Airway diseases, Thoracic oncology
Method(s): Cell and molecular biology, Pulmonary function testing, Imaging

scRNA sequencing on human airway epithelium reveals metabolic changes during healthy aging
Pavan Prabhala (Lund, Sweden), Sofia Wijk, Stefan Lang, Ellen Tufvesson, Leif Bjerner, Shamit Soneji, Gunilla Westergren-Thorsson, Mattias Magnusson

Identify Bcl3 as a novel biomarker shared between severe asthma and lung cancer using next-generation RNA sequencing from archival FFPE tissue biopsies
Laila Salameh (Dubai, United Arab Emirates), Poorna Manasa Bhamidimarri, Noela Eleman, Nival Ali, Youssef Dairi, Mouza Alsharhan, Syed Hammad Tirmazy, Qutayba Hamid, Bassam Mahboub, Saba Al Healy, Rifat Hamoudi

Identification of miR-328-3p targets during wound repair of bronchial epithelial cells
Beata Narozna (Poznań, Poland), Zuzanna Stachowiak, Wojciech Langwiński, Aleksandra Szczepankiewicz

Correction of structural changes of lung parenchyma in induced systemic sclerosis
Bohdana Doskiuli (Luminy, France), Liubomyr Zaiats, Roman Yatsyshyn

Hyaluronic acid-targeted metabolism in Acute Respiratory Distress Syndrome
Fernanda Zamboni (Limerick, Ireland), Chun Kwok Wong, Maurice Collins

Zoledronic acid targeting of the mevalonate pathway causes reduced cell recruitment and attenuates pulmonary fibrosis
Jesper Bergwik (Lund, Sweden), Lloyd Tanner, Andrew Single, Ravi Bhongir, Jonas Erjefält, Arne Egesten

GTX-003 reduces the fibrotic markers in human lung fibroblast from patients with interstitial lung diseases.
Ana Montes Worboys (Sevilla, Spain), Jaume Mercade, Maria Molina-Molina, Eugenia Ruiz-Canovas

Small-molecule-mediated OGG1 inhibition attenuates pulmonary inflammation and lung fibrosis
Lloyd Tanner (Lund, Sweden), Andrew Single, Ravi Bhongir, Moritz Heusel, Tirthankar Mohanty, Christofer Karlsson, Carl-Magnus Claussen, Jesper Bergwik, Cecilia Andersson, Riya Oommen, Jonas Erjefält, Johan Malmström, Olov Wallner, Istvan Boldogh, Thomas Helleday, Christina Kalderén, Arne Egesten

Extracellular matrix formation reduction by nintedanib varies in the Scar-in-a-Jar fibroblast model depending on pathway induction
Jannie M. B. Sand (Herlev, Denmark), Morten Aarkrog Christensen, Pernille Juhl, Diana Julie Leeming

Delayed Treatment with the Novel HSP90 inhibitor TAS-116 Ameliorate Hydrochloric Acid-Induced Pulmonary Fibrosis
Pavel Solopov (Norfolk, United States), Ruben Manuel Luciano Colunga Biancatti, Christiana Dimitropoulou, Tierney Day, John D Catravas

Antifibrotic effect of metformin in a rat double-hit bleomycin model
Martina Bonatti (Solna, Sweden), Paola Caruso, Vanessa Pitozzi, Silvia Pontis, Maria Gloria Pittelli, Caterina Frati, Costanza Anna Maria Lagrasta, Maurizio Civelli, Barbara Montanini, Marcello Trevisani

Targeting p16 to induce Krt8+ transitional stem cell state and promote alveolar regeneration
Bruno Ribeiro Baptista (Nancy, France), Gregoire Justeau, Marylene Toigo, Maeva Zysman, Charlotte Thiebaut De Menonville, Randa Belgacemi, François Chabot, Sophie Lanone, Genevieve Derumeaux, Jorge Boczkowski, Laurent Boyer
**Inhibition of neutrophilic inflammation by targeting the airway epithelial barrier with EP395.**
Jennifer Kricker (Reykjavík, Iceland), Fridrik Gardarsson, Fredrik Lehmann, Maria Bech, Thorarinn Gudjonsson, Clive Page, Michael Parnham

**Short chain fatty acids reduce inflamm-aging and ameliorate enhanced severity of acute lung injury in old mice**
Christina Hildebrand (Hannover, Germany), Andreas Pich, Christian Mühlfeld, Marius Vital, Christina Brandenberger

**Omeg@Silica microencapsulated fish oil counteracts tumor-related inflammation in lung adenocarcinoma cells**
Elisabetta Pace (Palermo (PA), Italy), Claudia D'Anna, Caterina Di Sano, Giuseppe Cammarata, Simona Taverna, Serena Di Vincenzo, Mario Pagliaro, Antonio Scurria, Rosaria Cirimmina

**Effect of dipeptidyl peptidase-4 inhibitor on emphysema model in mice**
Hyosun Joo (Seoul, Republic of Korea), Jin Woo Kim

**KVX-053, a PTP4A3 inhibitor, as antidote against CEES-induced Acute Lung Injury**
Ruben Manuel Luciano Colunga Biancatelli (Norfolk, United States), Pavel Solopov, John Lazo, Elizabeth Sharlow, Brittany Ruedlinger, Stephen Beebe, John Catravas

**Mesenchymal Stromal Cells Modulate the Immune Cell Response in a Klebsiella Pneumoniae Induced Sepsis Model**
Jack Brady (Galway, Ireland), Claire Masterson, Declan Byrnes, Shahd Horie, Hector Gonzalez, Sean Mccarthy, Senthilkumar Alagesan, Daniel O'Toole, John Laffey

**Late Breaking Abstract - Airway morphogenesis in wild type and heterozygous F508del mouse embryonic lungs treated by Elexacaftor/Tezacaftor/Ivacaftor**
Alice Hadchouel-Duvergé (Paris, France), Mickael Lhuillier, Laura Aoust, Elise Dreano, Kim Landry Truchon, Christophe Delacourt, Lucie Jeantte, Isabelle Sermet Gaudelus

**Late Breaking Abstract - CFAP74-mutations as cause of Primary Ciliary Dyskinesia (PCD): Clinical presentation and diagnostic challenges**
Luisa Biebach (Münster, Germany), Sandra Cindric, Julia Koenig, Isabella Aprea, Gerard Dougherty, Johanna Raidt, Diana Bracht, Renate Ruppel, Jens Schreiber, Rim Hjeij, Heike Olbrich, Heymut Omran

### TP-21 Session 13:00 - 14:00

**Thematic poster: Advances in the treatment and clinical/surgical management of tuberculosis and NTM**

**Disease(s):** General respiratory patient care, Public health, Epidemiology, Palliative care, Cell and molecular biology, Transplantation, Endoscopy and interventional pulmonology, Physiology, Imaging, Surgery

**Method(s):** General respiratory patient care, Public health, Epidemiology, Palliative care, Cell and molecular biology, Transplantation, Endoscopy and interventional pulmonology, Physiology, Imaging, Surgery

**Chairs:** Christoph Lange (Borstel, Germany), Cécile Fléchet (Berlin, Germany)

**Early effectiveness and safety of a modified shorter all-oral regimen for MDR/RR-TB in China**
Naihui Chu (Beijing, China), Wenjuan Nie, Juan Du, Yufeng Liu, Qianhong Wu, Fei Ren, Qingshan Cai, Yaping Zhang

**Drug tolerance predicts clinical outcomes in mycobacterial lung infections**
Lucas Boeck (Basel, Switzerland), Alexander Jovanovic, Frederick Bright, basil Wicki, Loïc Sauteur, Andreas Wüst, Dorothy M Grogono, Michael Tamm, Philippe Dehio, Johannes Nemeth, Michael Abanto, Rachel Thomson, Scott Bell, Andres R Floto

**Multifocal tuberculosis in the immunocompetent patient**
Zakaria Lakhlaai (Casablanca, Morocco), Khadija Channoune, Nahid Zahgha, Hanane Benjelloune, Najiba Yassine

**Factors associated with sputum culture conversion in patients with multidrug-resistant tuberculosis**
Greta Musteikiene (Kaunas, Lithuania), Skaidrius Miliauskas

**Isoniazid-induced hepatotoxicity in latent tuberculosis patients**
Bruno S. Silva (Porto, Portugal), Nuno Faria, Inês Costa, Ricardo Reis

**Study of rifampicin and silver nanoparticle composite efficacy on rifampicin-resistant Mycobacterium tuberculosis strains**
Nino Kiria (Tbilisi, Georgia), Teona Avaliani, Nino Babishvili, Nana Kiria, Giorgi Phichkhaia

**Association between PD-L1 expression in monocytes and treatment outcomes in active pulmonary tuberculosis-human and animal model**
Jia-Yih Feng (Taipei, Taiwan), Chiu-Chung Shu, Sheng-Wei Pan, Jung-Jyh Hung, Po-Kuei Hsu, Wei-Juin Su, Yuh-Min Chen

**Mathematical model for predicting the treatment effectiveness of MDR-TB based on Human-beta-defensin-1 level**
Olga Pogorelova (Kharkiv, Ukraine), Olga Shevchenko, Irina Ovcharenko, Olga Hovardovska, Olga Shvets
Side effects of anti-tuberculosis treatment: comparison between combined and dissociated treatment
Soumaya Bouchareb (Ksar Hellal, Tunisia), Marwa Ammar, Ameni Ben Salem, Soumaya Boujnah, Aya Zaara, Touil Imen, Leila Boussoflara, Jalel Knani, Nadia Boudawar

Usage of silver nanoparticles to restore Moxifloxacin efficacy for fluoroquinolone-resistant M.tuberculosis cultures.
Teona Avaliani (Tbilisi, Georgia), Nino Kiria, Nino Bablshvili, Nana Kiria, Giorgi Phichkhaia

A retrospective study evaluating the effect of Prednisolone on the radiological sequelae of Tuberculous pleurisy
Junyi Zhang (London, United Kingdom), Usmaan Ahmed, Lottie Brown, Owais Kadvani, Ronan Breen, Partthiyan Sivakumar

Place of surgery in the management of lymph node tuberculosis
amina abdelkbir (ben arous, Tunisia), Kaouther Ben Amara, Mahdi Abdennadher, Hazem Zribi, Adel Marghli

Comparison of resolution of Tuberculous pleural effusion on Anti – tubercular treatment with and without steroids : A one-year follow-up
ROHIT SUHAS BHINGARDEVE (SANGLI, India), Sudarshan Mante, Naman Ajwani, Siddharth Waghmare, Swapnil Thorve, Jairaj Nair

Improvement in the management of nontuberculous mycobacteria after lobar collapse therapy with Endobronchial valves ( EBV)
Valentina Luzzi (Firenze (FI), Italy), Jessica Mencarini, Sara Tomassetti, Lorenzo Corbeta

Not always COVID - pulmonary BCGosis as an unexpected cause of severe respiratory failure and massive ground glass opacities in the lungs.
Katarzyna B. Lewandowska (Warszawa, Poland), Anna Lewandowska, Inga Baranska, Mgdalena Klatt, Ewa Augstynowicz-Kopiec, Witold Tomkowsk, Monika Szturnowicz

Prevalence of sub-optimal drug levels of Rifampicin, Isoniazid and Pyrazinamide among tuberculosis patients in Sydney, Australia. A pilot study.
Anthony Byrne (Sydney (NSW), Australia), Ryan Wong, Debbie Marriott, Danijela Kocic, Jan-Wilem Alfënaar, Jin Gun Cho, Ben Marais

Chest wall tuberculosis: a surgical experience
amina abdelkbir (ben arous, Tunisia), WIFIEK SAIDANI, Imen Bouacida, Amina Abdelkebir, Hazem Zribi, Mahdi Abdennadher, Chaker Jaber, Ines Moussa, Sarra Zairi, Adel Marghli

Regional differences in prescribing pyrazinamide for tuberculosis treatment
Hiromi Matsumoto (Kanagawa, Japan), Nobuaki Kobayashi, Nobuhiko Fukuda, Ayami Kaneko, Ami Izawa, Kohei Somekawa, Chisato Kamimaki, Sosuke Kubo, Katsushi Tanaka, Kenichi Seki, Hiroaki Fujii, Ayako Aoki, Yoichi Tagami, Keisuke Watanabe, Nobuyuki Horita, Yu Hara, Takeshi Kaneko

Priority identification in the clinical case management of multidrug resistant Tuberculosis (MDR-TB) in Bangladesh
Farzana Zaman (Dhaka, Bangladesh), Muhammad Asaduzzaman

The impact of diabetes mellitus on the anti-TB treatment outcome, a series of cases study
Tatiana Osipov (Chisinau, Republic of Moldova), Evelina Lesnic, Alina Malic

TP-25 Session 13:00 - 14:00
Thematic poster: Cutting-edge concepts in interventional bronchoscopy
Disease(s) : Thoracic oncology, Airway diseases, Interstitial lung diseases, Respiratory critical care
Method(s) : Endoscopy and interventional pulmonology, Respiratory intensive care
Chairs : Laurence M.M.J. Crombag (Amsterdam, Netherlands), Rocco Trisolini (Roma, Italy)

INTRATHORACIC LYMPH NODE METASTASES FROM EXTRAPULMONARY NEOPLASMS: DIAGNOSTIC PERFORMACE OF EBUS-TBNA.
Alejandro Golfe (Valencia, Spain), Marina Alcaraz Barcelona, Wanda Almonte Batista, Javier Cruz Ruiz, Concepción Patricia López Miguel, Jesús Jiménez López, Francisco Javier Callejas González, Sergio García Castillo, Alvaro Hurtado Fuentes, Carlos Sánchez Villar, Raúl Godoy Mayoral, Ana Núñez Ares

Real-life comparison of diagnostic yield (DY) and sample adequacy (SA) of 22G and 25G EBUS-TBNA needles: less is more?
Filippo Lanfranchi (Padua, Italy), Laura Mancino, Gabriele Foltran, Alberto Pavan, Gioele Castelli, Lorenzo Ciarrocchi, Licia Laurino, Lucio Micheleletto

Diagnosing challenging pulmonary nodules with virtual bronchoscopic navigation and augmented fluoroscopy
Faustina Funke (Essen, Germany), Jane Winantea, Kaid Darwiche
PD-L1 suitability rate of E(B)US-TBNA specimens: RCT of Acquire 22G TBNB vs Expect 22G TBNA needles
Tess Kramer (Amsterdam, Netherlands), Jolanda Kuijvenhoven, Daniël Korevaar, Maarten Ninaber, Rocco Trisolini, Artur Szubłowski, Maciej Gnass, Jiri Votruba, Jan Von Der Thüsen, Daniëlle Cohen, Peter Bonta, Jouke Annema

Prevalence and association with malignancy of intrathoracic lymph node calcifications: a cross sectional endosonographic pilot study
Stefania Cortese (Rignano Flaminio, Italy), Fausto Leoncini, Jacopo Simonetti, Vanina Livi, Daniele Magnini, Alessandra Cancellieri, Luca Richeldi, Rocco Trisolini

Malignancy Risk Analysis in Patients with non-diagnostic endobronchial ultrasound-fine needle aspiration (EBUS-TBNA) of mediastinal lymph nodes
Inbal Shafran (raanana, Israel), Lior Sluk, Nadav Furie, Ronen Mass, Michael Peled, Erik Baltaxe, Michael Segel, Tiberiu Shulimzon, Amir Onn, Sumit Chatterji, Liran Levy

Clinical impact of isolated mediastinal and hilar lymphadenopathy (IMHL). Insights from thoracic endosonography (EBUS/EUS-b).
Serafeim Chrysikos (Athens, Greece), Theodoros Karampitsakos, Sofia Koukidou, Anastasia Papaporyriou, Maria Anyfanti, Eleftherios Zervas, Georgios Hillas, Argyrios Tzouvelekis, Katerina Dimakou

Safety and Efficacy of EBUS guided trans-bronchial lymph node cryobiopsy (EBUS-TBLNC): A single center experience.
Virender Pratibh Prasad (Secunderabad, India), Chetan Rao Vaddepally, Venkata Nagarjuna Maturu

Correlation between sonographic features of mediastinal lymph nodes and presence of malignancy when performing EBUS-TBNA
Sara Braga (Braga, Portugal), Gabriela Fernandes, Hélder Novais E Bastos, Adriana Magalhães

The rise of Endobronchial Ultrasound (EBUS) and fall of Mediastinoscopy
Haider Al-Najjar (Manchester (Greater Manchester), United Kingdom), Eman Nasr, Haval Balata, Matthew Evison, Louise Brown, Ramachandran Sundar, Durgesh Rana, Nadira Narine

Involvement of the left adrenal gland in lung cancer patients evaluated by EUS-B-FNA
Kaid Darwiche (Essen, Germany), Hubertus Hautzel, Dirk Theegarten, Faustina Funke, Jane Winantea, Michael Hagemann, Hanna Zellerhoff, Ruediger Karap-Wissell

Real world experience of single use flexible bronchoscopy over six months in a tertiary centre
Anne-Marie Sweeney (Dublin, Ireland), Grace Kavanagh, Patrick Coghlan, Hamad Danish, Barry Plant, Michael Henry, Marcus Kennedy

Single Use Flexible Bronchoscopy: An ex-vivo comparison of all commercially available scopes.
Kevin Frederick Deasy (Ballincollig, Ireland), Anne-Marie Sweeney, Emily Margaret O'Reilly, Marcus Peter Kennedy

Pre-clinical testing of single use flexible bronchoscopes: clinician preference based on physical characteristics and level of experience
Anne-Marie Sweeney (Dublin, Ireland), Kevin Deasy, Emily O'Reilly, Hisham Ibrahim, Hammed Danish, David Landers, Marcus Kennedy

Flexible bronchoscopy in a critically ill - improving patient and operator safety
Anita Anokar (Pune (Maharashtra), India), Samruddhi Chougale, Amarnath Prasad

Healthy volunteer experience following research bronchoscopy
Hazel Morrison (Bridgwater (Somerset), United Kingdom), Raquel Lopez Ramon, Susan Jackson, Julia Marshall, Celia Mitton, Andrew Mawer, Clare Wilkins, Henry Bettinson, Timothy Hinks, Helen Moshane

Factors related to Broncho-Alveolar Lavage Recovery Rate
Mariana Conde (Guimarães, Portugal), Margarida Carvalho, Ana Cláudia Pimenta, Catarina Parra, Artur Vale, Cláudia Pinto, Joema Silva, Rafael Noya, Ana Isabel Loureiro

On site evaluation of biopsy smears in respiratory samples for the diagnosis of lung cancer
Eduard Barrio Herraiz (Barcelona, Spain), Alan Jhunior Solis Solis, Toni Zapata Connas, Pere Trías Sabriá, Marta Ávila Terzi, Nuria Mateos Mari, Pere Serra Mitjà, Carmen Centeno Clemente, Rachid Tazi Mezalek, Jorge Abad Capa, Antoni Rosell Gratacòs, Felipe Andreo García

Clinical analysis of the patients who required intubation management and underwent Bronchial artery embolization for hemoptysis
Manabu Suzuki (Tokyo, Japan), Momoko Morishita, Chie Morita, Akinari Tsukada, Takashi Katsuno, Yusaku Kusaba, Akane Ishida, Masao Hashimoto, Junko Terada, Satoru Ishii, Go Naka, Jin Takasaki, Motoyasu Ikura, Shinyu Izumi, Masayuki Hojo, Haruhiho Sugiyama
Tranexamic acid versus adrenaline for controlling iatrogenic endobronchial bleeding: a double blind randomized control trial
Goran Glodić (Zagreb, Croatia), Sonja Badovinac, Denis Baričević, Filip Popović, Dražena Srdić, Mateja Janković Makek, Feda Đužbur, Ivan Sabol, Marta Koršić, Ana Bačelić Gabelica, Ana Hećimović, Bernard Budimir, Dina Mihelčić, Miroslav Samaržija

Thematic poster: Alpha-1 antitrypsin deficiency and chronic airway obstructive diseases

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

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

**Chairs:** Alice Turner (Birmingham (West Midlands), United Kingdom), Kenneth R. Chapman (Toronto (ON), Canada)

**Prevalence of cardiovascular disease in alpha-1 antitrypsin deficiency**
Emily Bailey, Alice Turner

**Alpha-1 antitrypsin deficiency associates with asthma exacerbations**
Elena Martín González (La Laguna, Spain), José M. Hernández-Pérez, Mario González-Carracedo, Javier Pérez-Garcia, Ruperto González-González, Elena Mederos-Luis, Immaculada Sánchez-Machín, Paloma Pozo-Guedes, Maria Jesús Cruz, Francisco Javier González-Barcala, Carlos Martínez-Rivera, Joaquim Mullol, Xavier Muñoz, José María Olaguibel, Vicente Plaza, Santiago Quirce, Antonio Valero, Joaquín Sastre, Victoria Del Pozo, Jesús Villar, José A. Pérez, María Pino-Yanes

**The effect of SERPINA1 mutations on 1-antitrypsin levels in COPD**
Csilla Páska (Budapest, Hungary), Imre Barta, Anita Kecskés, Anna Kerpel-Fronius, Dániel Solymosi, Balázs Antus

**Association between 1-antitrypsin deficiency and its clinical manifestations: an observational study in a Portuguese cohort**
Maria João Silva (Torres Novas, Portugal), Diana Amorim, Maria João Canotilho, Savato Feijó

**Longitudinal follow-up in adults with severe alpha-1 antitrypsin deficiency (Pi*ZZ genotype): non-invasive fibrosis tests predict liver-related endpoints**
Malin Fromme (Aachen, Germany), Samira Amzou, Barbara Burbaum, Philipp Striedl, Mattias Mandorfer, Monica Pons, Joan Genesca, Marc Miravitlles, Elmar Aigner, Christian Trautwein, Pavel Strnad

**The effect of alpha-1 antitrypsin (AAT) augmentation therapy on the liver phenotype in individuals with homozygous Pi*ZZ AAT mutation (genotype Pi*ZZ)**
Malin Fromme (Aachen, Germany), Karim Hamesch, Carolin V. Schneider, Mattias Mandorfer, Katrine Holtz-Thorhauge, Vitor Pereira, Monica Pons, Matthias C. Reichert, Samira Amzou, Robert Bals, Rembert Koczulla, Miravillels, Sabina Janciauskiene, Joan Genesca, Federica Benini, Joanna Chorostowska-Wynimko, William J. Griffiths, Elmar Aigner, Alexander Teuner, Michael Trauner, Aleksander Krag, Christian Trautwein, Pavel Strnad

**1-ANTITRYPSIN DEFICIENCY IN GREEKS: FOCUS ON RARE VARIANTS**

**Familiarity and use of ERN-LUNG centres for the management of Alpha 1 Antitrypsin Deficiency**
Joanna Chorostowska-Wynimko (Warsaw, Poland), A. Rembert Koczulla, Maria Sucena

**Association between lung disease severity and cardiovascular event risk in alpha-1 antitrypsin deficiency**
Daniella Spittle (Birmingham, United Kingdom), Anita Pye, Paul Ellis, Alice Turner

**Heterozygous alpha 1 antitrypsin mutations (HAIAT) and lung cancer (LC) in a chronic obstructive pulmonary disease (COPD) population**
Alfredo Marín Muñiz (Castelldefels, Spain), Lidia Méndez Mangas, Montserrat Navarro Rodriguez, Javier Burgos Lozano, Isabel Brao Pérez, Mónica Arelano Vengoechea, Marta López Sánchez, Susana Padrones Sánchez, Samantha Aso González, Salud Santos Pérez

**Diagnosing Alpha 1 Antitrypsin Deficiency in Europe – insights from a European survey**
Maria Campos Miranda Duarte Sucena (Porto, Portugal), A. Rembert Koczulla, Joanna Chorostowska-Wynimko
Clinical features of a severe asthma population eligible for biologics: a real life study
Sonia Garino (Leini, Italy), Elisa Riccardi, Andrea Sprio, Fabiana Giannoccaro, Andrea Baroso, Stefano Pizzimenti, Fabio Luigi Massimo Ricciardolo

Predictors of fixed airflow obstruction (FAO) in patients with severe asthma (SA) in the Wessex Severe Asthma Cohort (WSAC)
Vipula Bataduwaarachchi (Portsmouth, United Kingdom), Thomas Brown, Laura Wiffen, Thomas Jones, Clare Barber, Peter Howarth, Anoop Chauhan

Characteristics of patients and exacerbations in the ongoing Asthma: Phenotyping Exacerbations (APEX) studies.
Ashish Pradhan (Nottingham, United Kingdom), Robert Needham, Karen Shaw, Matthew Martin, Micheal Portelli, Ian Sayers, Tim Harrison

Infectious exacerbation of asthma
Salma Msika (Casablanca, Morocco), Hajar Arfaoui, Hasna Jabri, Wiam El Khattabi, Hicham Afif

TP-10
Thematic poster: Asthma biologics in real life studies
Disease(s): Airway diseases
Method(s): Epidemiology, General respiratory patient care, Imaging, Pulmonary function testing, Endoscopy and interventional pulmonology, Physiology
Chairs: Bilun Gemicioglu (Istanbul, Turkey), Francisco Javier Salgado Castro (Santiago De Compostela, Spain)

Inter-observer agreement on biological treatment decision for severe asthma.
Andreanne Cote (Quebec, Canada), Marie-Eve Boulay, Rosalie Beaulé, Louis-Philippe Boulet, Krystelle Godbout, David Price

A single-centre retrospective review of asthma and pregnancy outcomes after exposure to monoclonal antibody therapy for severe asthma
Hannah Joplin (Liverpool (Merseyside), United Kingdom), Amy G Nuttall, Seher Zaidi, Gareth Jones, Livingstone Chishimba, Hassan Burhan

Perceptions on home-administration of biologics in severe asthma: an international qualitative study.
Bertine Flokstra - De Blok (Groningen, Netherlands), Janwillem Kocks, Hans Wouters, Chantal Arling, Josh Chatelier, Jo Douglass, Liam Heaney, Joshua Holmes, Marc Humbert, Mary Kolanowski, Jeanet Landsman, Njira Lugogo, Alice Malpass, Jiska Meijer, Boyd Metz, Bibicha De Mul, Frank Postma, Marika Leving

Real-world effectiveness of anti-IL-5/5R therapy in severe eosinophilic asthma with comorbid bronchiectasis
Sarah Bendien (Den Haag, Netherlands), Hans Kroes, Anke-Hilse Maitland Van Der Zee, Anneke Ten Brinke

RELight: A two-year REal-Life study of mepolizumab in patients with severe eosinophilic asTHma in Greece: evaluating the multiple components of response.
Real-world effectiveness (RWE) of dupilumab in reducing healthcare resource utilization among moderate-to-severe asthma patients
Ajinkya Pawar (Cambridge, United States), Michael S. Blaiss, Brian D. Modena, Asif H. Khan, Lucia De Prado Gómez, Yi Zhang, Shahid Siddiqui, Juby A. Jacob-Nara

Real-life experience with biologic therapies in severe uncontrolled asthma
Marina Saad (Cesano Boscone, Italy), Francesca Mandurino Mirizzi, Giuseppe Fuccia, Alessandro Zudd, Eleonora Maratta, Lisa Milani, Juan Camilo Signorello, Dejan Radovanovic, Pierchille Santos

Biologic therapies could prevent lung function decline in severe asthma: a 3 years real life observational study
Nicolas Bougard (Ougrée, Belgium), Florence Schleich, Anne-Noé Frix, Virginie Paulus, Françoise Guissard, Renaud Louis

The experience of dual biologic therapy in patients with eosinophilic asthma and autoimmune diseases
Andreas M. Matthaiou (Heraklion, Greece), Nikoleta Bizymi, Leo Ettronier, Eleni Bibaki, Jacques Morel, Nikolaos Tzanakis, Arnaud Boudrin, Katerina Antoniou

Impact of co-existing chronic rhinosinusitis on the effect of biological therapy in severe asthma - Danish nationwide cohort study
Joachim Bruun (København N, Denmark), Susanne Hansen, Christel Lajer, Truls Sylvan Ingebrigtsen, Charlotte Suppli Ulrik, Anne-Sofie Bjerrum, Anna Von Bälow, Claus Johnsen, Ole Hilberg, Sofie Lock Johansson, Karin Dahl Assing, Linda Rasmussen, Kjell Håkansson, Johannes Schmid, Marianne Sondergaard, Lycely Dongo, Celeste Porsbjerg

Severe asthma in obese patients: what to expect with Mepolizumab?
Ana Da Cunha Fonseca (Vila Nova de Gaia, Portugal), Daniela Machado, Ivone Pascoal, Inês Franco, Ricardo Lima

Decision outcomes following referral to a tertiary severe asthma service for MAb therapy.
Amy Nuttall (Liverpool, United Kingdom), Hannah Joplin, Catherine Lowe, Gareth Jones, Seher Zaidi, Hassan Burhan, Livingstone Chishimba

Heterogeneity in the use of biologics for severe asthma in Europe: a SHARP ERS study

Impact of biological therapies in lung function in patients with severe asthma
Antonio Menéndez (Granada, Spain), Susana Rojo-Tolosa, Jose Antonio Sánchez-Martinez, Cristina Pérez-Ramirez, Gonzalo Jiménez-Gálvez, Alberto Jiménez-Morales, Concepción Morales-García

Burden of severe asthma by biologic use and eligibility: an analysis of the International Severe Asthma Registry
Trung Tran (Gaithersburg, United States), Tham Le, Clement Erhard, David Price, Ekaterina Maslova, Bill Cook, Anna Quinton, Rohit Kattia, George C Christoff, Luis Perez-De-Llano, Victoria Carter, Trung N Tran

Therapeutic approach with mepolizumab (anti-IL-5) in a series of patients with eosinophilic granulomatosis with polyangiitis
Nikoleta Bizymi (Heraklion Crete, Greece), Andreas M. Matthaiou, Georgios Stathakis, Styliani Viziriannaki, Eleni Bibaki, Nikolaos Tzanakis, Katerina Antoniou

Real-world effectiveness of reslizumab in patients with severe eosinophilic asthma – “first initiators” and “switchers”

Mepolizumab therapy in severe asthma – a study of long term efficacy and safety
Christopher Reilly (Birmingham, United Kingdom), Rajarajan Anandavelu, Julie Marsh, Julie Sullivan, Fiona O'Riordran, Sarah Cotterill, Lisa White, Adel Mansur

Dupilumab leads to sustained improvement of asthma control in real-life severe asthmatics.
Andreas Renner (Wien, Austria), Katharina Marth, Karin Patocka, Marco Idzko, Wolfgang Pohl

TP-9 Session 13:00 - 14:00
Thematic poster: Central sleep apnoea, hypoventilation and hypoxia in adults and children
Disease(s): Sleep and breathing disorders

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

Chairs: Renaud Tamisier (Grenoble, France), Renata L. Riha (Edinburgh, United Kingdom)

Registro on the treatment of central and complex sleep-disordered breathing with adaptive servo-ventilation (READ-ASV): cohort profile
Michael Arzt (Regensburg, Germany), Oliver Munt, Jean-Louis Pepin, Raphael Heinzner, Raphaëla Kuebeck, Adam Benjafeld, Holger Woehrle

Prevalence and risk factors of atrial fibrillation-Collective of the SERVE-HF Major Substudy
Christoph Fisser (Regensburg, Germany), Victoria Vaas, Lara Gall, Janis Bürek, Joerg Priefert, Dominik Linz, Holger Woehrle, Helmut Teschler, Martin R Cowie, Michael Arzt

ECHOCARDIOGRAPHY MAY PREDICT TREATMENT EMERGENT CENTRAL SLEEP APNEA
Issraa EL WHADHANE (Sfax, Tunisia), Sourour Abid, Aiman Ghrab, Amina Kotti, Amine Bahloul, Sameh Msaad, Samy Kammoun

Transcutaneous capnography usefulness in alveolar hypoventilation and titration in a sleep unit.
Maria Aguado Agudo (Zaragoza, Spain), Teresa Martin Carpi, Jorge Rodriguez Sanz, Laura Torralba

Outcome of Long Term Ventilation (LTV) following remote initiation and monitoring in patients with Chronic Hypercapnic Respiratory Failure (CHRF) during the SARS-CoV-2 pandemic.
Seif Aldeen Mansour (Sheffield, United Kingdom), Duncan Nicholson, Bethen Nicholson, Sara Downs, Akshay Dwarkanath

Factors affecting domiciliary non-invasive ventilation compliance
Anita Saigal (Chesham (Buckinghamshire), United Kingdom), Amar Shah, Katia Florman, Nitika Kaushal, Hiu Kwong, Akul Karoshi, Laura White, Ryan Walker, Yan Lin, Ho Juen, Nikesh Devani, Stephanie Mansell, Swapna Mandal

Prediction of Nocturnal Ventilation by Pulmonary Function Testing in Patients with Amyotrophic Lateral Sclerosis (ALS).
Friederike Tress (Magdeburg, Germany), Eva Luecke, Anke Lux, Jens Schreiber

Evaluation of polysomnography findings in children with genetic skeletal disorders
Nagehan Emiralioğlu (Ankara, Turkey), Halime Nayır Bıyıkşahin, Pelin Ozlem Simsek Kiper, Birce Sunman, Ismail Güzelkaş, Didem Alboğa, Metem Akgül Erdal, Koray Boduroğlu, Gülen Eda Utine, Ebru Yalçın, Deniz Doğru, Nural Kiper, Ugur Ozcelay

A home ventilation support programme for children: Seven years of experience in a newly established center in the Czech Republic
Tereza Dousova (Praha, Czech Republic), Anna Chmelarova, Vaclav Koucky, Vendula Martinu, Eva Furstova, David Megvienet-Chucesov, Zofia Varenyiová, Petr Pohunek

Creating a bedtime reading book for children starting on non-invasive ventilation
Meg Ruecroft (Wirral, United Kingdom), Liam Durkin, Ruth Trinick, Lyndsey Carlson

Global Field Safety Notice (FSN) – a tertiary paediatric respiratory unit’s experience.
Susan Keogh, Fiona Ringholz, Ruth O’Reilly, Des Cox, Lisa Farrell, Fiona Healy, Dubhfeasa Slattery, Michael Williamson, Peter Greally, Basil Elnazar, Sheila Javadpour

Does cardiorespiratory polygraphy have a role in non-ventilated children with SMA?
Sidrah Chaudhry (London, United Kingdom), Aidan Lavery, Francois Abel, Martin Samuels

Oxygen desaturation indices as a predictor for obstructive sleep apnoea in children
Supriya Shinde (Bangalore, India), Anna Selby, Ross Langley, Elise Buchan, Calum Presslie, Julia McGovern, Matthew Davies, Martin Samuels, Ruth Kingshott, Catherine Hill, Hazel Evans

Estimation of the apnoea-hipopnoea index from the oxyhaemoglobin desaturation index at 3%: proposition of a simple linear regression model
Miguel Lorente González (Madrid, Spain), Eva Maria Arias Arias, Jesús Muñoz Méndez, Sofía Valeria Yerovi Onofre, Javier Collada Carrasco, Annette Zevallos Villegas, Isabel Pina Máiquez, Trinidad Diaz Cambriales

Sleep and blood pressure while staying for 10 months at the Concordia Station (3233m), Antarctica
Michael Furrer (Zürich, Switzerland), Paul Robach, Sébastien Baillieux, Stephane Doutreleau, Pierrick Arnal, Samuel Verges

The effect of transcutaneous submental electrical stimulation on the blood pressure response in healthy volunteers
ABDULAZIZ ALSHARIF (London, United Kingdom), Niamh Carter, Irampaye Akbar, Miquel Serna Pascual, Michael Cheng, Martino Pengo, Gianfranco Parati, Gerrard Rafferty, Joerg Steier
Late Breaking Abstract - Analysis of impact on Pittsburgh sleep quality index in a wide spread of central sleep apnoea (CSA) treated with adaptive servo ventilation (ASV): 6-month follow-up FACIL-VAA study results.

Renaud Tamisier (Grenoble, France), Carole Philippe, Arnaud Prigent, Christelle Charley-Monaca, Jean Pierre Mallet, Thibault Gentina, Frédéric Gagnadoux, Claire Launois, Marie Pia D'Ortho, Toufik Didi, Tiphaine Guy, Frédéric Goutorbe, Christophe Perrin, Sandrine Pontier-Marchandise, Jean Louis Pépin, Jean Claude Meurice

TP-18

Thematic poster: Best abstracts from psychologists and behavioural scientists

Pilot of a therapist-guided internet-delivered cognitive behavioral therapy intervention for anxiety and depression (eHealth CF-CBT) in Dutch adults with cystic fibrosis

Marieke Verkleij (Amsterdam, Netherlands), Anna Georgiopoulos, Heleen Barendrecht, Deborah Friedman

Using The Activity Barometer (TAB) to assess patient participation in diagnostic consultations

Jannie Frolund (Vejle, Denmark), Ingeborg Farver-Vestergaard, Helle Poulsen, Ole Hilberg, Anders Løkke

Asthma expectations predict symptoms over time: a longitudinal cohort study

Eleonora Volpato (Milano (MI), Italy), Francesco Pagnini, Valentina Poletti, Cesare Cavalera, Francesca Graziano, Francesca Spina, Paolo Banfi

Smoking cessation support in a hospital-based healthcare setting: the provider perspective

Ingeborg Farver-Vestergaard (Vejle, Denmark), Peter Hjorth, Anders Løkke

Neural processing of respiratory sensations during resistive load-induced dyspnea in patients with COPD

Lucas Vanden Bossche (Leuven, Belgium), Ysys Denutte, Thomas Reijnders, Paul W. Davenport, Wim Janssens, Thierry Troosters, Andreas Von Leupoldt

Relationship between COVID-19 consequences and subjective distress 6 months after hospitalization

Anna Boros (Warszawa, Poland), Magdalena Martusewicz-Boros, Piotr Boros, Andrzej Nowak

Patterns of psychological conditions presenting to a severe asthma psychology service

Hanan hussein (Birmingham, United Kingdom), Jodie Fellows, Julie Marsh, Ali Bahron, Adel Mansur

What do people with asthma think about switching to a more environmentally friendly inhaler?

Grainne d'Ancona (London, United Kingdom), Khansa Sethi, Natalie Holman, Myfanwy Morgan, Lottie Renwick, Andrew Cumella, Samantha Walker, John Weinman


Vicente Baltazar-Chávez (México, Mexico), Guadalupe Lizzbett Luna Rodríguez, Viridiana Peláez-Hernández, Arturo Orea-Orea-Tejeda, Celia Deyanira Ledesma-Ruiz, Adrián Rosas-Trujillo, Norma Camacho-Mendoza

Effects of a brief behavioural cognitive e-therapy for emotional alterations, and inflammation in COVID-19 survivors.

Vicente Baltazar-Chávez (México, Mexico), Viridiana Peláez-Hernández, Guadalupe Lizzbett Luna Rodríguez, Benjamin Domínguez-Trejo, Dulce Carolina Rodríguez-Lozano, David Alberto Rodríguez-Medina, Li Erandi Tepepa-Flores, Adrián Rosas-Trujillo, Celia Deyanira Ledesma-Ruiz

Heart rate variability in post-COVID-19 patients with different anxiety levels.

Vicente Baltazar, (Mexico), Viridiana Peláez-Hernández, Arturo Casarín-López, Adrián Rosas-Trujillo, Norma Camacho-Mendoza

Sleep disturbances in post-Covid patients as a function of sex.

Celia Ledesma (CDMX, Mexico), Viridiana Peláez-Hernández, Lizzbeth Luna-Rodríguez, Adrián Rosas-Trujillo, Norma Camacho-Mendoza, Vicente Baltazar-Chávez, Arturo Orea-Orea-Tejeda

Comparable neural gating of respiratory sensations increasing dyspnea across different qualities of dyspnea

Ysys Denutte (Leuven, Belgium), Tristan Holk, Wim Janssens, Thierry Troosters, Andreas Von Leupoldt

Cognitive alterations in COVID-19 survivors with and without invasive mechanical ventilation during hospital stay.

Fernando Casarin Lopez (Mexico City, Mexico), Viridiana Peláez Hernandez, Guadalupe Lizzbett Luna Rodríguez, Arturo Orea Tejada, Celia Deyanira Ledesma Ruiz, Adrian Rosas Trujillo, Vicente Baltazar Chávez, Norma Camacho Mendoza
Pain, fatigue and psychological sequelae in patients surviving COVID-19: results from a prospective observational controlled study
Sarah Elizabeth O'Donnel (, Italy), Giuseppe Croce, Francesca Mandurino Mirizzi, Elisa Franceschi, Walid Karimeh, Fabio Giuliani, Dejan Radovanovic, Pierachille Santus

Psychological affection in surviving patients of COVID-19, consideration of the use of invasive mechanical ventilation.
Adrian Rosas Trujillo (CDMX, Mexico), Vicente Baltazar Chávez, Viridiana Peláez Hernández, Arturo Orea Tejeda, Celia Deyanira Ledesma Ruiz, Fernando Casarin López, Norma Camacho Mendoza, Guadalupe Lizzbetti Luna Rodríguez

Cognitive impairment as a sequel to SARS-CoV-2 infection.
Adrian Rosas Trujillo (CDMX, Mexico), Fernando Casarin López, Vicente Baltazar Chávez, Viridiana Pelaez Hernandez, Arturo Orea Tejeda, Celia Deyanira Ledesma Ruiz, Guadalupe Lizzbetti Luna Rodriguez, Norma Camacho Mendoza

Technology-supported shared decision-making in chronic conditions: preliminary results of a systematic review
Roswita Vaseur (Enschede, Netherlands), Eline Te Braake, Tessa Beinema, Wendy Oude Nijeweme - D'Hollosy, Monique Tabak

Late Breaking Abstract - Provision of mental health care to healthcare workers during COVID-19: A call for the practice of vulnerability
Jacqueline Hoare (Cape Town, South Africa)

Thematic poster: COVID-19: highlights of respiratory physiotherapy and rehabilitation
Disease(s): Airway diseases, Respiratory critical care, Sleep and breathing disorders, Interstitial lung diseases
Method(s): General respiratory patient care, Pulmonary rehabilitation, Physiology, Pulmonary function testing, Epidemiology, Public health
Chairs: Chris Burtin (Diepenbeek, Belgium), Agnieszka Lewko (Coventry, United Kingdom)

TP-17 Session 13:00 - 14:00
Reliability of three functional tests via remote assessment for Post-Covid-19 patients
Aspasia Mavronasou (Megara, Attica, Greece), Andreas Asimakos, Vassilis Vlahakos, Paraskevi Katsaounou, Eleni Kortiannou

Improved peak exercise performance after 12 weeks of pulmonary rehabilitation in patients post COVID-19
Thierry Troosters (Leuven, Belgium), Stephanie Everaert, Iris Coosemans, Lode Claes, Heleen Demeyer, Tim Vanhoutte, Lies Glorye, Natalie Lorent, Wim Janssens

Effect of pulmonary rehabilitation on functional capacity and emotional status in patients with long COVID-19 syndrome: an interim analysis
Nikolaos Chynkiamis (Iliou, Greece), Angelos Vontetsianos, Christina Anagnostopoulou, Zoe Sotiropoulou, Stavrina Zanel, Fotini Karakontaki, Ioannis Vogiatzis, Antonia Koutsoukou, Nikolaos Koulouris

Effect of a self-managed home-based rehabilitation programme for the reduction of dyspnea in non-hospitalised subjects with post-COVID-19 condition: a pilot study
Simone Salvitti (Martignacco, Italy), Angela Doretto, Cristina Verrone, Louise Marin

Functional independence, exercise capacity and desaturation during exercise after non-critical covid-19: Short and medium-term impacts
Laura Neves (Belém (PA), Brazil), Soany Cruz, Eder Gabriel Ferreira, Luiz Fábio Falcão, Saul Carneiro

Additive effects of rehabilitation on natural recovery of functional capacity post COVID-19.
Andreas Asimakos (Athens, Greece), Stavroula Spetsioti, Ioannis Vogiatzis, Aspasia Mavronasou, Pandelis Gounopoulos, Dimitra Siosiouira, Efi Dima, Niki Gianiou, Ioannis Sigala, Spyros Zakynthinos, Anastasia Kotanidou, Paraskevi Katsaounou

Does virtual group treatment improve symptoms of breathlessness in the post COVID-19 patient population?
Rebecca Gore (Rochester, United Kingdom), Lauren Williamson, Terence Elliott-Cooper, Katerina Roze, Gita Ramdharry, Melissa Heightman, Toby Hillman, Rebecca Livingston

The effects of COVID-19 infection on respiratory muscle strength and trunk muscle endurance in healthy individuals
Ildeniz Yalniz (Istanbul, Turkey), Mehmet Alperen Pekdas, Elif Develi, Yasar Keskin

THE EFFECT OF STRENGTHENING AND RELAXATION EXERCISES ON PAIN, ANXIETY AND SLEEP QUALITY IN PEOPLE WITH COVID-19
Seda Saka (Istanbul, Turkey), Berat Keskin
Clinical profile, symptomatology and sequelae of long-COVID patients
Laura Lopez Lopez (Granada, Spain), Irene Cabrera Martos, Irene Torres Sánchez, Javier Martín Núñez, Alejandro Heredia Ciuró, Marie Carmen Valenza

Physical and respiratory function of people following hospital discharge for COVID-19
 Isis Grigoletto (Pirapozinho, São Paulo, Brazil), Fabiano Francisco De Lima, Rafael Mesquita, Paloma Borges, Matheus André Pedroso, Beatriz Da Silva Coutinho, Karina Marcela Morro Pozo, Vinicius Cavalheri, Ercy Mara Cipulo Ramos

Comparison of clinical aspects according to the Post Covid Functional Status Scale in patients after COVID-19. Rodrigo Torres Castro (Barcelona, Spain), Vicente Benavides Córdoba, Diana Guerrero-Jaramillo, Juan Carlos Avila-Velencia, Jhonatan Betancourt-Peña

Implementation of pulmonary rehabilitation in post-COVID19 in Latin America: 18 months later.
Rodrigo Torres Castro (Barcelona, Spain), Vicente Benavides Córdoba, Marisol Barros-Poblete, Rodolfo P Vieira, Guillermo Mazzucco, Guilherme Fregonezi

Physical therapists’ opinions on the effect of the COVID-19 pandemic on physical therapy management in government and private hospitals in Thailand: Preliminary results of a survey
Sawwaluk Dacha (Chiang Mai, Thailand), Busaba Chusatrakoon, Arisa Parameyong, Chanoknun Chalermboon , Nuttanicha Thumpunya

Physical activity, sleep quality and factors associated with the work ability of front line physical therapists against COVID-19
Laura Neves (Belém (PA), Brazil), William Rafael Almeida Moraes, Sinara Mendes Campelo

Functionality in healthcare workers with COVID-19 in Cali (Colombia)
Lina Marcela Orozco Mejia (Cali, Colombia), Diana Guerrero Jaramillo, Francia Torres, Julian Rivera Motta, Vicente Benavides Córdoba

Pulmonary telerehabilitation in patients with chronic respiratory diseases during the pandemic by COVID-19 in Argentina. A multicenter observational study.
Santiago Larrateguy (Paraná, Argentina), Guillermo Mazzucco, Silvina Dell’era, Rodrigo Torres-Castro, Nicolas De Carlo, Gonzalo Turon, Belen Quiroz, Belen Santa Cruz, Florencia Fernandez, Carla Viola, Marcelo Alvarez, Anabella Cerda, Claudio Gonzalez, Laura Fragoso, Analia Reguardo, Janina Lebus, Rita Lantschtsner, Walter Schweimer, Laura Carrizo

Physiotherapy outcomes for treating breathing pattern disorder during the COVID-19 pandemic
Claire Somerton (Manchester, United Kingdom), Rebecca Barnes, Nicola Pott, Reyenna Sheehan, Emmeline Maidment-Fullard, Jayne Ellison, Siobhan Ludlow, Stephen Fowler

Late Breaking Abstract - Twenty months follow-up in non-hospitalised adults with post COVID-19 condition: a preliminary longitudinal cohort study
Anna Törnberg (Bromma, Sweden), Anna Svensson-Raskh, Elisabeth Ryd wik, Mikael Björnsson, Michael Runold, Judith Bruchfeld, Malin Nygren-Bonnier

13:00-14:00
INDUSTRY LUNC HTIME SYMP OSIUM
SEE PAGE 1

13:00-14:00
INDUSTRY VIRTUAL SYMP OSIUM
SEE PAGE 1

14:00-14:45
INDUSTRY SKILLS LAB WORKSHOP
SEE PAGE 1

8H (live-streamed) Session 14:15 - 15:45
Symposium: Interstitial lung diseases in connective tissue diseases: patient’s journey from diagnosis and new treatment strategies to transplantation
Aims: to update attendees about the management of interstitial lung diseases (ILDs) associated with connective tissue diseases (CTD-ILDs), which has recently evolved with the increasing numbers of prescription for antifibrotics in addition to immunosuppressive drugs; to provide an update about diagnostic practice and assess the adjunctive value of a multidisciplinary approach to diagnosis; to describe therapeutic strategies and analyse the timing and contraindications of lung transplant referral as well as post-transplant management and outcomes; to discuss novel insights into the diagnostic procedure and the implication of genetics.
**Disease(s):** Intercostal lung diseases, Pulmonary vascular diseases, Respiratory critical care

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

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, Nurse, Respiratory critical care physician, Radiologist, Thoracic surgeon, Respiratory therapist

**Chairs:** Federica Meloni (Pavia (PV), Italy), Tobias Welte (Hannover, Germany)

**14:15** Utility of genetic assessment of patients with CTD-ILDs
Antoine Froidure (Bruxelles, Belgium)

**14:30** CTD-ILDs: diagnosis and new treatment strategies up to transplantation
Bruno Crestani (Paris, France)

**14:45** What are the main challenges when a CTD-ILD patient is referred for lung transplantation?
Jose Manuel Cifrian Martinez (Santander (Cantabria), Spain)

**15:00** New trends in treatment of myositis-associated ILD
Ingrid Lundberg (Stockholm, Sweden)

**15:15** Discussion and Q&A

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**8A (live-streamed) Session 14:15 - 15:45**

**Symposium: Evolving questions in chronic obstructive pulmonary disease management**

**Aims:** to ask challenging questions faced every day when managing patients with chronic obstructive pulmonary disease (COPD); to inform clinicians and researchers about the latest updates concerning diagnosis, management and assessment of COPD covering four areas, namely, the role of eosinophils, the pathophysiology of a disease exacerbation, the relevance of mortality endpoints and the assessment of COPD patients for comorbidities; to interpret and elaborate on recent findings of clinical trials and their relevance to patient practice.

**Disease(s):** Airway diseases

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

**Tag(s):** Translational

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

**Chairs:** Omar S. Usmani (London, United Kingdom), Ay e Arzu Yorganc o lu (Konak, Turkey), Daiana Stolz (Basel, Switzerland)

**14:15** Understanding the role of eosinophilic COPD management: are clinical trial data ready for application in everyday clinical care?
Mona Bafadhel (London, United Kingdom)

**14:30** What is the best definition of an exacerbation in COPD patients to help demystify clinical trial data?
Alberto Papi (Cona, Ferrara, Italy)

**14:45** Mortality and mortality assessment in COPD: is it possible to apply clinical trial data in everyday patient practice?
Dave Singh (Manchester, United Kingdom)

**15:00** Should all patients with COPD undergo body plethysmography, echocardiograms and computed tomography lung scans?
MeiLan K. Han (Ann Arbor, United States)

**15:15** Discussion and Q&A

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**8G (live-streamed) Session 14:15 - 15:45**

**Symposium: Utilising exercise testing in pre-operative assessment, rehabilitation and exercise prescription**

**Aims:** to provide an overview of the different exercise modalities available to assess exercise capacity, assessment of exercise prescription and rehabilitation; to provide an overview of how exercise testing can be used to assess pre-operative risk and its utility in determining the most appropriate peri-operative care; to describe the importance of activity in healthy adults and patients; to demonstrate how to effectively provide an exercise prescription; to provide attendees with a global understanding of the importance of exercise and how to utilise it in their everyday practice for the benefit of patients.
Disease(s) : Airway diseases
Method(s) : Physiology  Pulmonary rehabilitation  Surgery
Tag(s) : Clinical

Target audience : Adult pulmonologist/Clinician, Medical Student, Medical Technical Assistant, Nurse, Respiratory critical care physician, Paediatrician, Patient, Physician in Pulmonary Training, Physiologist, Respiratory physiotherapist, Thoracic surgeon, Journalist

Chairs : Pierantonio Laveneziana (Paris, France), Jellien Makonga-Braaksma (Woudenberg, Netherlands)

14:15  Patient’s testimony
Carlos Alberto dos Anjos de Sousa (, Portugal)

14:20  Modalities available to assess the exercise response and exercise rehabilitation
Sally J. Singh (Leicester (Leicestershire), United Kingdom)

14:35  Utilising the cardio-pulmonary exercise test to assess peri-operative risk
Sandy Jack (Liverpool (Merseyside), United Kingdom)

14:50  The health-related benefits of increased exercise and activity
Hayley Lewthwaite (Montreal (QC), Canada)

15:05  Exercise prescription in health and disease
Michael Welsch (Jackson, United States)

15:20  Discussion and Q&A

8M  Session  14:15 - 15:30

Oral presentation: Advances in cystic fibrosis research
Disease(s) : Airway diseases
Method(s) : Cell and molecular biology  General respiratory patient care  Physiology  Epidemiology  Pulmonary function testing

Chairs : Susan Madge (London, United Kingdom), Felix C. Ringshausen (Hannover, Germany)

Early-infection Pseudomonas aeruginosa isolates from Cystic Fibrosis patients have high levels of LasB elastase activity
Agustina Llanos (Labège, France), Pauline Achard, Clarisse Lozano, Justine Bousquet, Magdalena Zalacain, Hélène Guet-Revillet, Marlène Murriz-Espin, Marie Mittaine, Martin Everett

Real-world effects of lumacaftor/ivacaftor (LUM/IVA) in people with cystic fibrosis (pwCF): final results of a long-term safety study using US CF Foundation Patient Registry and UK CF Patient Registry data
Claire Kim (Boston, United States), Simon Tian, Rachel Zabihian, Alexander Elbert, Susan C. Charman, Siobhán Carr, Dilip Nazareth

Triple CFTR modulator therapy is associated with improved endocrine pancreatic function in patients with cystic fibrosis
carolin steinack (Zürich, Switzerland), Thomas Gaisl, Felix Beuschlein, Schuurmans Macé Matthew, Matthias Ernst

The effect of triple therapy cystic fibrosis transmembrane conductance regulator (CFTR) modulation on anxiety in people with cystic fibrosis
Orla O’Carroll (Dublin 4, Ireland), Catherine Mc Keown, Jack Bell, Trevor Nicholson, Charles Gallagher, Edward Mc Kone

Elexacaftor tezacaftor ivacaftor therapy alters plasma sphingolipid profiles in people with cystic fibrosis
Dirk Westhölter (Essen, Germany), Fabian Schumacher, Nuria Wülfinghoff, Sivagurunathan Sutharsan, Svenja Strassburg, Burkhard Kleuser, Peter A Horn, Sebastian Reuter, Erich Gulbins, Christian Taube, Matthias Welsner

Impacts of air pollution on the pulmonary morbidity of Cystic Fibrosis: an experimental study
Marion Blayac ( Créteil, France), Céline-Hivda Yegen, Elie Al Marj, Mathieu Cazaunau, Antonin Bergé, Rachid Souktani, Patrice Coll, Sophie Lanone

Modelling the behaviour of the mucus layer in the small airways
James Shemilt (Manchester, United Kingdom), Alexander Horsley, Oliver Jensen, Alice Thompson, Carl Whitfield

Discussion

8L  Session  14:15 - 15:30

Oral presentation: Innovations in noninvasive respiratory support
### Session 8N

**Oral presentation: Clinical utility of thoracic ultrasound: new trends**

**Disease(s):** Pulmonary vascular diseases, Thoracic oncology, Airway diseases  
**Method(s):** Imaging, Respiratory intensive care, Surgery  
**Chairs:** Eihab Bedawi (Oxford (Oxfordshire), United Kingdom), Rahul Bhatnagar (Bristol, United Kingdom)

**Focused lung ultrasound to predict respiratory failure in patients with symptoms of COVID-19. A multicentre prospective cohort study.**  
Søren Helbo Skaarup (Aarhus C, Denmark), Rasmus Aagaard, Stig Holm Ovesen, Jesper Weile, Hans Kirkegaard, Caroline Espersen, Mats Christian Højbjerg Lassen, Kristoffer Grundtvig Skaarup, Stefan Posth, Christian Laursen, Ask Bock, Michael Dan Arvig, Uffe Bodtger

**Diaphragm dysfunctions among patients recovered from COVID**  
Vijay Hadda (New Delhi (Delhi), India), Arafat Hussain, Tejas Suri, Saurabh Mittal, Karan Madan, Anant Mohan

**Area method for measuring diaphragm movement in patients with unilateral pleural effusion.**  
Katrine Fjællegaard (Farum, Denmark), Jesper Koefoed Petersen, Søren Skaarup, Paul Frost Clementsen, Christian B. Laursen, Rahul Bhatnagar, Uffe Bodtger

**A crossover comparison of telerobotic and conventional ultrasonography in children.**  
Celine Deletrain (Creteil, France), Catherine Belozertseva, Camille Jung, Mickael Shum, Carine Vastel, Emilie Georgetown, Fouad Madhi, Ralph Epaud

**Lung ultrasound score for pediatric pneumonia surveillance**  
Ioana Mihaiela Ciucu (Timisoara (Timis), Romania), Monica Steluta Marc, Mihaela Dediu, Diana Popin, Pop Liviu

**Comparison between endoscopic and ultrasonographic evaluation of subglottic stenoses**  
Chiara Rocchetti (Brescia, Italy), Guido Levi, Roberto Magri, Mauro Novali, Federico Quadri, Damiano Bottonne, Silvia Uccelli, Giulia Palmiotto, Giampiero Marchetti, Michela Bezzi, Laura Pini

**Diagnostic accuracy of a bespoke multiorgan ultrasound approach in suspected pulmonary embolism**  
Casper Falster (Odense, Denmark), Gro Egholm, Rune Wiig, Mikael Poulsen, Jacob Møller, Stefan Posth, Mikkel Brabrand, Christian Laursen

**Lung ultrasound reduces X-ray after major lung resection – observational study**  
Marek Malik (Martin, Slovakia), Anton Dzian, Michaela Matejová, Martin Števink, Marián Grendár, Miroslav Jaščur, Marek Bundzel, František Babič

**Routine neck ultrasound and lymph node sampling by respiratory physicians in patients with thoracic disease – a prospective study**  
Basma El-Shaarawy (Alexandria, Egypt), Ahmed El Hefny, Heba Gharraf, Maged Hassan

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**Discussion**
Clinical trials session: ALERT 3: COVID and interstitial lung diseases

**Aims:** Including the ALERT sessions (Abstracts Leading to Evolution in Respiratory Medicine Trials), these formats showcase important and very late-breaking clinical trial data from all respiratory disease areas. Presenters, session chairs and viewers will take part lively discussions on the presented trials.

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

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

**Tag(s):** Clinical

**Chairs:** Elbieta Magdalena Grabczak (Warszawa, Poland), Chair to be confirmed

**Discussants:** Discussant to be confirmed

**RCT Abstract - Phase 3 RCT of C5a-Specific Vilobelimab in Severe COVID-19 Pneumonia**

**RCT Abstract - A randomised controlled trial of early intervention with oral favipiravir in patients hospitalised with COVID-19 (PIONEER Trial)**
Christopher M Orton (London, United Kingdom), Pallav L Shah, Beatriz Grinsztejn, Gavin C Donaldson, Brenda Crabtree Ramírez, James Tonkin, Breno R Santos, Sandra W Cardoso, Andrew I Ritchie, Francesca Conway, Maria P D Riberio, Dexter J Wiseman, Anand Tana, Bavitthra Vijayakumar, Cielito Canca, Craig Leaper, Bobby Mann, Anda Samson, Pankaj K Bhavsar, Marta Boffito, Mark R Johnson, Anton Pozniak, Michael Pelly

**RCT Abstract - Dipeptidyl Peptidase-1 Inhibition in Patients Hospitalized with COVID-19: a Multicentre Randomized Double-Blind Placebo Controlled Trial**
Holly R. Keir (Dundee (Angus), United Kingdom), Merete B. Long, Hani Abo-Leyah, Yan H. Giam, Thenmalar Vadiveloo, Thomas Pembridge, Rebecca C. Hull, Lilja Delgård, Margaret Band, Fiona Mclaren-Neil, Simon Adamson, Eva Lahnsteiner, Amy Gilmour, Chloe Hughes, Benjamin Jm. New, David Connell, Rebecca Dowey, Helena Turton, Hollian Richardson, Diane Cassidy, Jamie Cooper, Jay Suntharalingam, Lavnadi Diwakar, Peter Russell, Jonathan Underwood, Alexander Hicks, Davinder Ps Dosanjh, Beth Sage, Devesh Dhasmana, Mark Spears, Aa Roger Thompson, Christopher Brightling, Andrew Smith, Manish Patel, Jacob George, Alison M Condiffe, Amelia Shoemark, Graeme Maclellan, James D Chalmers

**RCT Abstract - SPRINTER: A Randomized, Double-Blind, Placebo-Controlled, Phase 3 Trial to Determine the Efficacy and Safety of Inhaled Interferon Beta-1a (SNG001) for the Treatment of Patients Hospitalised Due to COVID-19 (NCT04732949)**
Phillip D Monk (Southampton (Hampshire), United Kingdom), Jody Brookes, Victoria Tear, Toby Batten, Marcin Mankowski, Stephen Holgate, Ratko Djukanovic, Tom Wilkinson

**Wrap-up by discussant and discussion**

**Late Breaking Abstract - Randomized, Double Blinded, Placebo-Controlled, Phase 2 Study of Safety, Tolerability and Efficacy of Pirfenidone in Patients with Rheumatoid Arthritis Interstitial Lung Disease**
Ivan Rosas (Houston, United States), Joshua Solomon, Sonye Donoff, Felix Woodhead, Ganesh Raghu, Goldberg Hilary, Traill Network Investigators

**Nintedanib in children and adolescents with fibrosing interstitial lung disease: the InPedILD trial**
Robin Deterding (Aurora, United States), Lisa R Young, Emily M Deboer, David Warburton, Steven Cunningham, Nicolaus Schwerk, Kevin R Flaherty, Kevin K Brown, Mihaela Dunistracel, Elvira Erhardt, Julia Bertulis, Martina Gahlemann, Susanne Stowasser, Matthias Griese

**Wrap-up by discussant and discussion**

**Closing remarks**

State of the art session: Pulmonary vascular diseases

**Pulmonary hypertension in pulmonary disease**

**Aims:** to summarise the vast progress that has been made in understanding and treatment of pulmonary hypertension related to underlying lung disease in recent years; to discuss the biology and epigenetic causes of pulmonary hypertension, and how this information may help to develop novel treatments; to provide an update about recent trials in pulmonary hypertension; to provide novel insights into the pulmonary vascular nature of low DLCO-related pulmonary hypertension.
### Disease(s) :
- Interstitial lung diseases
- Pulmonary vascular diseases
- Respiratory critical care

### Method(s) :
- Imaging
- Physiology
- Respiratory intensive care

### Tag(s) :
- Clinical

### Target audience :
- Adult pulmonologist/Clinician
- Clinical researcher
- Medical Student
- Respiratory critical care physician
- Patient
- Scientist (basic, translational)

### Chairs :
- Anton Vonk Noordegraaf (Amsterdam, Netherlands)
- Silvia Ulrich (Zurich, Switzerland)

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<tr>
<td>14:15</td>
<td>The origin and consequence of pulmonary hypertension in patients with lung-related disease</td>
<td>Joan Albert Barberà Mir (Barcelona, Spain)</td>
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<tr>
<td>14:30</td>
<td>Pulmonary hypertension in patients with autoimmune disease</td>
<td>Marc Humbert (Le Kremlin-Bicêtre, France)</td>
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<td>14:45</td>
<td>Failures and successes in treatment of pulmonary hypertension in patients with interstitial lung disease: past, present and future</td>
<td>Aaron Waxman (Boston, United States)</td>
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<td>Low DLCO in patients with pulmonary arterial hypertension: a different vascular phenotype?</td>
<td>Esther Jeritza Nossent (Amsterdam, Netherlands)</td>
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### Studio Session 14:15 - 15:15

**Online skills lab: Respiratory sleep disorders: from diagnosis to management**

**CPAP to NIV, objective tests, and type 3 monitors**

**Aims:**
- To demonstrate how to choose the optimal diagnostic monitoring tool for sleep and breathing (polysomnography, type III device and telemonitoring) in patients with sleep-disordered breathing.
- To discuss the characteristics and indications of different positive airway pressure/noninvasive ventilation modes for various types of sleep-disordered breathing and hypoventilation.
- To demonstrate a practical approach for the use of different positive airway pressure modes in patients with obesity hypoventilation syndrome.

**Chairs:**
- Sophia E. Schiza (Heraklion, Greece)
- Winfried J. Randerath (Solingen, Germany)

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<td>Choosing the best diagnostic monitoring tool for SDB patients</td>
<td>Yüksel Peker (Istanbul, Turkey)</td>
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<td>Different PAP/NIV modes for SDB and hypoventilation</td>
<td>Dries Testelmans (Leuven, Belgium)</td>
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<td>PAP treatment of obesity hypoventilation syndrome</td>
<td>Marta Susana Monteiro Drummond Freitas (Maia, Portugal)</td>
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<td>Conclusions and Q&amp;A</td>
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### 8F Session 14:15 - 15:30

**Science slam: Science slam**

**Aims:** A science slam is a scientific talk where four scientists (abstract authors) present their own scientific research work in 10 minutes. The focus lies on teaching current science to a diverse audience in an entertaining way. The presentation is judged by the audience.

**Chairs:**
- Amanda Oliver (Cambridge, United Kingdom)
- Alberto Maria Marra (Heidelberg, Germany)

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### 8D Session 14:30 - 16:50

**Skills workshop: SW6 Cardiopulmonary rehabilitation beyond the basics**

**Aims:**
- To describe diagnostic methods and interventions that enhance the comprehensiveness of cardiopulmonary rehabilitation programmes and contribute to a more patient-tailored approach.
- To describe methods of assessing physical activity level in patients referred for cardiopulmonary rehabilitation and methods of providing cognitive behavioural therapy to promote physical activity.
- To describe neuromuscular electrical stimulation and the patients referred for cardiopulmonary rehabilitation who could benefit from this treatment.
- To describe the incorporation of mindfulness-based interventions into cardiopulmonary rehabilitation and their outcomes.

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ERS International Congress 2022

DETAILED PROGRAMME

MONDAY 05 SEPTEMBER, 2022
**Disease(s)**: Airway diseases

**Method(s)**: Pulmonary rehabilitation

**Tag(s)**: Clinical

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

**Chairs**: Alice Malpass (Bristol, United Kingdom)

**14:30**  
**Introduction**

**14:30**  
**Physical activity assessment and intervention**  
Chris Burtin (Diepenbeek, Belgium)

**14:30**  
**Neuromuscular electrical stimulation**  
Anouk W. Vaes (Horn, Netherlands)

**14:30**  
**Frailty assessment and intervention**  
Roberto Benzo (Rochester, United States)

**14:30**  
**Mindfulness interventions during cardiopulmonary rehabilitation**  
Ingeborg Farver-Vestergaard (Vejle, Denmark)

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**Guidelines session: Guidelines on severe community acquired pneumonia**  
ERS/ESICM/ESCMID/ALAT guidelines

**Disease(s)**: Respiratory infections

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

**Tag(s)**: Clinical

**Target audience**: General practitioner, Physician in Pulmonary Training, Medical Student, Adult pulmonologist/Clinician, Clinical researcher

**Chairs**: Andrew Bush (London, United Kingdom)

**15:30**  
**Discussion and Q&A**  
Antoni Torres Marti (Barcelona, Spain), Ignacio Martin-Loeches (Dublin, Ireland)

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**Oral presentation: New insights into paediatric asthma diagnosis and management of severe asthma**

**Disease(s)**: Airway diseases

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

**Chairs**: Angela Zacharasiewicz (Wien, Austria), Erol Gaillard (Leicester (Leicestershire), United Kingdom)

- **Genome-wide exploration of inflammation-related proteins and Type 2 asthma**  
  Natalia Hernandez-Pacheco (Stockholm, Sweden), Sophia Björkander, Susanna Klevebro, Simon Kebede Merid, Ashish Kumar, Ida Mogensen, Christer Janson, Lena Palmberg, Marianne Van Hage, Antonios Georgellis, Anna Bergström, Inger Kull, Erik Melen

- **Asthma in one breath: metabolic signatures for allergic asthma in children by real-time breath analysis**  
  Alexander Möller (Zürich, Switzerland), Ronja Weber#, Bettina Streckenbach#, Jerome Kaeslin, Lara Welti, Demet Inci, Nathan Perkins, Renato Zenobi, Srdjan Micic

- **Evaluation of nocturnal asthma control (NAC-study): Comparative multicenter analysis of subjective and objective methods**  
  Swantje Weisser (Göttingen, Germany), Christiane Lex, Lena Roth, Katharina Kainz, Veronika Fajgelj, Alexander Schuetzenmeier, Patrick Fischer, Volker Gross, Matthias Reinweber, Angela Zacharasiewicz, Sebastian Kerzel

- **ADRB2 Arg16Gly is associated with nocturnal asthma symptoms despite LABA use in two European pediatric asthma studies**  
  Susanne J. H. Vijverberg (Utrecht, Netherlands), Trang My Nguyen, Javier Perez-Garcia, Simone Hashimoto, Anne H. Neerinck, Mahmoud I. Abdel-Aziz, Catarina Almqvist, Olaia Sardon Prado, Paula Corcuera, Javier Korta, Uros Potocnik, Michael Kabesch, Aletta D. Kraneveld, Maria Pino-Yanes, Anke H. Maitland Van Der Zee
**Dupilumab efficacy in children with uncontrolled type 2 asthma with baseline high/medium ICS dose**

Jorge Fernando Maspero (Ciudad Autónoma Buenos Aires, Argentina), Martii A Antila, Neal Jain, Antoine Deschildre, Leonard B Bacharier, Armán Altincatal, Elizabeth Laws, Bolanle Akinlade, Shahid Siddiqui, Juby A Jacob-Nara, Yamo Deniz, Paul J Rowe, David J Lederer, Megan Hardin

**Detection of structural airway changes on computed tomography in paediatric severe asthma**

Wytske van den Bosch (Voorburg, Netherlands), Qianting Lv, Elviszo Andrinopoulou, Hettie Janssens, Pierluigi Ciet, Harm Tiddens

**Continuous associations of type 2 biomarkers and efficacy of dupilumab in children with uncontrolled, moderate-to-severe asthma**

Leonard Bacharier (Nashville, United States), Daniel J Jackson, Ian Pavord, Jorge Maspero, Alessandro Fiocchi, Xuezhou Mao, Juby A Jacob-Nara, Yamo Deniz, Elizabeth Laws, Leda P Mannent, Bolanle Akinlade, Heribert Staudinger, David Lederer, Megan Hardin

**The upper respiratory tract mucosal antimicrobial peptides levels in children with T-helper type 2 mediated airway diseases: a cross-sectional study**

Olha Shvaratska (Dnipro, Ukraine), Yaroslav Vilensky, Tina Bordiy, Yuriy Bolbot

**Neutrophil granulocytes from Th1-high asthmatics show a reduced chemotactic response to bacterial compound ex vivo**

Solveig Lemmel (Luebeck, Germany), Anna Wohlers, Tim Becker, Anna Bachmann, Thomas Bahmer, Gesine Hansen, Erika Von Mutius, Klaus F. Rabe, Oliver Fuchs, Anna-Maria Dittrich, Bianca Schaub, Christine Happle, Markus Weckmann, Matthias Volkmar Kopp

**Late Breaking Abstract - Assessment of the long-term safety and efficacy of dupilumab in children with asthma: LIBERTY ASTHMA EXCURSION**


**Discussion**

8F  Session 15:45 - 17:00

Oral presentation: It is all about communication: novel interactions between lung structural cells and the immune system

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

Method(s): Cell and molecular biology

Chairs: H. Irene Heijink (Groningen, Netherlands), Alen Faiz (Ultimo (NSW), Australia)

**LSC - 2022 - Human CD116+ fetal liver progenitors migrate to the perinatal lung and give rise to alveolar macrophages in vivo**

Elza Evren (Stockholm, Sweden), Emma Ringqvist, Jean-Marc Doisne, Anna Thaller, Natalie Sleiers, Richard A. Flavell, James P. Di Santo, Tim Willinger

**LSC - 2022 - A high probability of short-range interactions between fibrocytes and CD8+ T cells potentiates the inflammatory response in COPD**

Anne-Charlotte Jonckheere (Leuven, Belgium), Brecht Steelant, Sven Seys, Tatjana Decaesteker, Jonathan Cremer, Ellen Dilissen, Dominique Schols, Yoichiro Iwakura, Jeroen Vanoorbeek, Lieven DuPonta, Dominique Bullens

**LSC - 2022 - The potential role of innate lymphoid cells in non-allergic neutrophilic asthma model**

Caroline Sandén (Lund, Sweden), Premkumar Sidduraj, Jimmie Jönsson, Caroline Lindö, Josquin Nys, Darren Schofield, Ian Scott, Sandra Lindstedt, Roland Kolbeck, Alison Humble, Rene Lutter, Suzanne Cohen, Jonas Érirjafelt

**Altered Site-Specific Expression Patterns of Interleukin-33 and its Receptor ST2 in COPD Lungs**

Caroline Sandén (Lund, Sweden), Premkumar Sidduraj, Jimmie Jönsson, Caroline Lindö, Josquin Nys, Darren Schofield, Ian Scott, Sandra Lindstedt, Roland Kolbeck, Alison Humble, Rene Lutter, Suzanne Cohen, Jonas Érirjafelt

**Airway myeloperoxidase (MPO) is associated with increased risk of exacerbations in COPD**

Sanna Rosengren (Mölndal, Sweden), Stefan Tängejord, Giovanna De Palo, Jenny Horndahl, Madeleine Ingelsten, Amy Gilmore, Merete B Long, Holly R Keir, Kristoffer Otridge, James D Chalmers

**Oxidised IL-33 signals via RAGE/EGFR to drive a COPD-associated phenotype**

Sam Strickson (CAMBRIDGE, United Kingdom), Kirsty F. Houslay, Victor A. Negri, Yoichiro Ohne, Tomas Ottosson, Roger B. Dodd, Catherine Chaillan Huntington, Jingjing Li, Helen Killick, D. Gareth Rees, Sofia Koch, Gary P. Sims, Ian C. Scott, Xavier Romero Ros, E. Suzanne Cohen
**Discussion**

### Session 8M

**Oral presentation: The environment and human health: from cohort to cell culture studies**

**Disease(s):** Airway diseases, Interstitial lung diseases, Pulmonary vascular diseases  
**Method(s):** Cell and molecular biology, Public health, Epidemiology, Physiology  
**Chairs:** Isabella Annesi Maesano (Montpellier, France), Rafael E. de la Hoz (New York, United States)

**Real time in vivo investigation of alveolar macrophage dynamics and immune response during nanoparticle inhalation**  
Qiongliang Liu (Neuherberg, Germany), Lin Yang, Chenxi Li, Otmar Schmid, Tobias Stoeger, Markus Rehberg

**Printer toner-emitted nanoparticle exposure enhances air-airway bacterial crossover in printing floor workers**  
Fransiskus Xaverius Ivan (Singapore, Singapore), Micheal Mac Aogain*, Nur A'Tikah Binte Mohamed Ali, Pei Yee Tiew, Magdien Ingrid Setyawati, Dhimiter Bello, Philip Demokritou, Kee Woei Ng, Sanjay H. Chotirmall

**Impact of air pollution on systemic sclerosis associated interstitial lung disease severity: a retrospective two-center cohort study**  
Anaïs Roésé (BOBIGNY, France), Lucile Sese, Guillaume Chassagnon, Benjamin Chaigne, Stéphane Tran Ba, Salma Jebri, Pierre-Yves Brillet, Marie-Pierre Revel, Frédérique Aubourg, Robin Dhote, Frédéric Caux, Luc Mounthon, Isabella Annesi-Maesano, Hilario Nunes, Yurdagül Uzunhan

**Exposure-response relationship between personal exposure to household air pollution and blood pressure in adult women across four resource-poor settings**  
Laura Nicolaou (Baltimore, United States), Lindsay Underhill, Shakir Hossen, Suzanne Simkovich, Gurusamy Thangavel, Ghislaine Rosa, John Mccracken, Victor Davila-Roman, Lisa De Las Fuentes, Ashlizzn Quinn, Maggie Clark, Anaïte Diaz, Ajay Pillarissetti, Kyle Steenland, Lance Waller, Shirin Jabbarzadeh, Jennifer Peil, William Checkley

**Investigating the impact of London’s Ultra Emission Zone (ULEZ) on children’s physical activity and travel patterns: Baseline data from the CHILL Study**  

**Short-term effects of weather and air pollution on physical activity in COPD patients**  
Alicia Josa-Culleré (Barcelona, Spain), Ane Arbillaiga-Etxarri, Eva Balcells, Nuria Celorrio, Alicia Marin, Mónica Monteagudo, Diego A. Rodriguez, Robert Rodriguez-Roisin, Magda Bosch De Basca, Maria Foraster, Pere Simonet, Pere Torán-Monserrat, Pere Vall-Casas, Judith Garcia-Aymerich

**Modelling the pathophysiological effects of geography-specific landscape fire smoke**  
Henry Gomez (Bar Beach, Australia), Dusan Ilic, Peter Robinson, Graeme Zosky, Tatt Haw, Kanth Vanka, Ellen Small, Tsefaldiet Beyene, Thava Palanisami, Doan Ngo, Elizabeth Holiday, Megan Jensen, Vanessa Mcdonald, Vanessa Murphy, Peter Gibson, Jay Horvat

**Differential toxicity in an alveolar epithelial cell line of fine particulate matter from brakewear, roadwear, and diesel exhaust**  
James Parkin (Southampton, United Kingdom), Laureb Dean, Dawn Cooper, Robert Ridley, Elizabeth Davies, Franco Conforti, Joseph Bell, Yihua Wang, Julian Downward, Miriam Gerlofs-Nijland, Flemming Cassee, Donna Davies, Richard Cook, Matthew Loxham

**LSC - 2022 - Real time in vivo investigation of the innate immune response during ventilator-assisted nanoparticle inhalation**  
Qiongliang Liu (Neuherberg, Germany), Yang Lin, Chenxi Li, Otmar Schmid, Tobias Stoeger, Markus Rehberg
Late Breaking Abstract - Specific cellular perturbation patterns in lung inflammation after nanoparticle inhalation
Carola Voss (Neuherberg, Germany), Meshal Ansari, Maximilian Strunz, Ilias Angelidis, Verena Haefner, Christopher Mayr, Carolina Ballester-Lopez, Qiongliang Liu, Lianyong Han, Ali Oender Yildrim, Thomas Conlon, Markus Rehberg, Herbert Schiller, Tobias Stoeger

Discussion

8N Session 15:45 - 17:00

Mini symposium: Steps for a successful career in respiratory research
Early-career member session 2022
Aims: to present critical steps for a successful career in respiratory research and medicine; to describe how to build and manage a research team and how to publish successfully; to discuss challenges and opportunities for younger physicians and scientists in respiratory research; to provide tips for maintaining a healthy work-life balance.

Target audience: Adult pulmonologist/Clinician, Clinical researcher, Medical Student, Respiratory critical care physician, Paediatrician, Physician in Pulmonary Training, Physiologist, Radiologist, Scientist (basic, translational), Thoracic oncologist, Thoracic surgeon

Chairs: Daniela Gompelmann (Vienna, Austria), Maxime Patout (Paris, France)

15:45 Building and managing a research team
Debby Bogaert (Edinburgh, United Kingdom)

16:00 Successful publishing in a scientific journal
Anh Tuan Dinh-Xuan (Paris, France)

16:15 Mina Gaga lecture
Alexander Mathioudakis (Stockport, United Kingdom)

16:30 Time management strategies for clinical scientists and privacy
Niki Ubags (Épalinges, Switzerland)

16:45 Discussion and Q&A

8H (live-streamed) Session 16:00 - 17:30

Symposium: Lung involvement in common variable immunodeficiency: from diagnosis to lung transplantation
Aims: to describe the physiopathology of common variable immunodeficiency (CVID) and current diagnostic and therapeutic approaches for this disorder and update attendees about recent advances in this context. CVID-associated lung involvement might be due to respiratory infection and bronchiectasis or non-infectious immune-based diffuse interstitial disorders. This clinical picture and the possible contraindications to lung transplant candidacy and challenges in post-transplant follow-up of these patients will be addressed.

Disease(s): Airway diseases, Paediatric respiratory diseases, Respiratory infections
Method(s): General respiratory patient care, Pulmonary function testing, Transplantation
Tag(s): Clinical

Target audience: Adult pulmonologist/Clinician, Nurse, Paediatrician, Physician in Pulmonary Training, Respiratory physiotherapist, Thoracic surgeon, Respiratory therapist

Chairs: Federica Meloni (Pavia (PV), Italy), Tobias Welte (Hannover, Germany)

16:00 Pathogenesis and diagnosis of CVID in paediatric and adult patients
Isabelle Meyts (Leuven, Belgium)

16:15 Prevention and treatment of pulmonary and extrapulmonary infections in CVID patients
David M. Lowe (London, United Kingdom)

16:30 Non-infectious lung involvement in CVID diagnosis and treatment
Elisabetta Renzoni (London, United Kingdom)

16:45 Lung transplant in CVID patients: contraindications and outcomes
Michael Perch (København Ø, Denmark)

17:00 Discussion and Q&A

8G (live-streamed) Session 16:00 - 17:30

Hot topics: Pharmacotherapy for sleep disordered breathing
Specific approaches to different pathophysiological traits of obstructive sleep apnea
Aims: to describe recent advances in pharmacotherapy for patients with sleep disordered breathing; to explain the impact of the identification of different pathophysiological traits, including upper airway muscle function, respiratory control, arousal from sleep and upper airway anatomy, on the choice of pharmacological drug classes; to describe novel possibilities and tools for identifying these different traits based on polysomnography.

Disease(s): Sleep and breathing disorders

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

Tag(s): Translational

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

Chairs: Pierantonio Laveneziana (Paris, France), Jellien Makonga-Braaksma (Woudenberg, Netherlands)

16:00 Various pharmacological approaches to weight loss management in patients with sleep disordered breathing
Johan Verbraecken (Edegem (Antwerp), Belgium)

16:15 Pharmaceutical muscle activation of the upper airways
Carolina Lombardi (Milano (MI), Italy)

16:30 Current perspectives in pharmacotherapy targeting brain breathing regulation
Jan A. Hedner (Göteborg, Sweden)

16:45 Influence of pharmacotherapy on arousal
Speaker to be confirmed

17:00 Discussion and Q&A

8C (live-streamed)  Session  16:00 - 17:30

8C (live-streamed): Session 16:00 - 17:30

Hot topics: Hyperpolarised gas magnetic resonance imaging: a new frontier in functional pulmonary imaging

Aims: to increase the understanding of recent advancements in lung imaging and to compare lung imaging diagnostic capabilities and effectiveness with current modalities; to discuss the role of hyperpolarised gas magnetic resonance imaging (MRI) for lung imaging in patients with various respiratory diseases.

Disease(s): Airway diseases  Interstitial lung diseases  Pulmonary vascular diseases

Method(s): Endoscopy and interventional pulmonology  Imaging  Pulmonary function testing

Tag(s): Clinical

Target audience: Adult pulmonologist/Clinician, Clinical researcher, Respiratory critical care physician, Physician in Pulmonary Training, Radiologist

Chairs: Elbieta Magdalena Grabczak (Warszawa, Poland), Chair to be confirmed

16:00 The recent evolution of hyperpolarised gas MRI from medical physics theory to patient care
James M. Wild (Sheffield (South Yorkshire), United Kingdom)

16:15 Hyperpolarised gas MRI to guide patient management in severe asthma and COPD
Sarah Svenningsen (Hamilton, Canada)

16:30 Hyperpolarised gas MRI for evaluation of persistent symptoms in patients with long COVID
Speaker to be confirmed

16:45 Hyperpolarised gas MRI: a novel biomarker of fibrotic lung disease

17:00 Discussion and Q&A

8A (live-streamed)  Session  16:00 - 17:30

Clinical cases: Lungs on fire: Airway diseases?

Aims: To facilitate the presentation of real-life clinical cases as part of an interactive session. Cases vary in difficulty and may require differential diagnosis. This session is led by two discussants who will present cases submitted by respiratory health professionals to a panel of experts and will drive the discussion in a step-by-step approach, encouraging dialogue and reflection among the panel who have no prior knowledge of these cases. As the cases are discussed, the discussants will invite the audience to participate in determining which diagnostic and therapeutic options would be best for these patients.
### Respiratory medicine meets other disciplines: Update on the diagnosis and treatment of pulmonary hypertension

**ERS/ESC guidelines on pulmonary hypertension 2022**

**Aims:** to highlight the changes from the previous guidelines; to discuss unknown areas where the guidelines cannot fulfil the clinical need; and to discuss the new guidelines in a pro/con debate, what the clinical consequences will be and how this will change diagnosis.

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Chair(s)</th>
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<tbody>
<tr>
<td>16:00</td>
<td><strong>Case 1 incl. panel discussion and Q&amp;A</strong> - Author: S. O’Loghlen (Canada)</td>
<td>Mina Gaga (Athens, Greece)</td>
</tr>
<tr>
<td>16:22</td>
<td><strong>Case 2 incl. panel discussion and Q&amp;A</strong> - Author: M. F. Montero Arias (Costa Rica)</td>
<td>Marc Miravitlles (Barcelona (CT), Spain)</td>
</tr>
<tr>
<td>16:44</td>
<td><strong>Case 3 incl. panel discussion and Q&amp;A</strong> - Author: D. M. Vulturar (Romania)</td>
<td>Mina Gaga (Athens, Greece)</td>
</tr>
<tr>
<td>17:06</td>
<td><strong>Case 4 incl. panel discussion and Q&amp;A</strong> - Author: H. Badri (United Kingdom)</td>
<td>Marc Miravitlles (Barcelona (CT), Spain)</td>
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</tbody>
</table>

### Guidelines session: ERS Guideline on various aspects of quality in lung cancer care

**ERS/ESICM/ESCMID/ALAT guidelines**

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<tr>
<th>Time</th>
<th>Session</th>
<th>Chair(s)</th>
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<tbody>
<tr>
<td>16:00</td>
<td><strong>Patient’s testimony</strong></td>
<td>Gergely Meszaros (Vac, Hungary)</td>
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<tr>
<td>16:05</td>
<td><strong>ERS/ESC guidelines on pulmonary hypertension: clinical approach and changes from the previous guidelines</strong></td>
<td>Marius M. Hoeper (Hannover, Germany)</td>
</tr>
<tr>
<td>16:20</td>
<td><strong>Treatment options and recommendations</strong></td>
<td>Marion Delcroix (Leuven, Belgium)</td>
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<tr>
<td>16:35</td>
<td><strong>Comments on the guidelines: strengths and weaknesses</strong></td>
<td>Sean Gaine (Dublin, Ireland)</td>
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<tr>
<td>16:50</td>
<td><strong>Interactive cases</strong></td>
<td>Mona Lichtblau (Zürich, Switzerland)</td>
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<tr>
<td>17:05</td>
<td><strong>Discussion and Q&amp;A</strong></td>
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</table>

### Studio

**Guidelines session: ERS Guideline on various aspects of quality in lung cancer care**

**ERS/ESICM/ESCMID/ALAT guidelines**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Chair(s)</th>
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<tbody>
<tr>
<td>16:15</td>
<td><strong>Discussion and Q&amp;A</strong></td>
<td>Torsten Gerriet Blum (Berlin, Germany), Joanna Chorostowska-Wynimko (Warsaw, Poland)</td>
</tr>
</tbody>
</table>
Studio Session 17:00 - 17:30

Pro-Con debate: Does the aggressive management of solitary pulmonary nodules pay off?

**Aims:** to inform the audience about the different management approaches to solid and subsolid nodules tailored to patient characteristics and geography; to provide an understanding of the controversies that currently exist regarding aggressive and prudent management.

**Disease(s):** Thoracic oncology

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

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Medical Technical Assistant, Pathologist, Patient, Physician in Pulmonary Training, Physiologist, Thoracic oncologist, Thoracic surgeon

**Chairs:** Joanna Chorostowska-Wynimko (Warsaw, Poland), Torsten Gerriet Blum (Berlin, Germany)

**17:00** The aggressive management of solitary pulmonary nodules always pays off: Pro
Stefano Elia (Roma (RM), Italy)

**17:10** The aggressive management of solitary pulmonary nodules always pays off: Con
Georgia Hardavella (Athens, Greece)

**17:20** Discussion and Q&A

**18:00-19:30** INDUSTRY EVENING MINI-SYMPOSIUM SEE PAGE 1

**18:00-19:30** INDUSTRY EVENING SYMPOSIUM SEE PAGE 1

**18:00-19:30** INDUSTRY VIRTUAL SYMPOSIUM SEE PAGE 1
# Skills workshop: SW7 Thoracic ultrasound

**Aims:** To describe the current use of thoracic ultrasound and to provide participants with the opportunity to perform this technique using training models, simulators, volunteers and patients.

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

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

**Tag(s):** Clinical

**Target audience:** Radiologist, Thoracic surgeon, Adult pulmonologist/Clinician, Clinical researcher, Respiratory critical care physician, Physician in Pulmonary Training

**Chairs:** Christian B. Laursen (Odense, Denmark)

<table>
<thead>
<tr>
<th>Time</th>
<th>Description</th>
<th>Speakers</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:00</td>
<td>The normal thoracic cavity</td>
<td>Gilles Mangiapan (Creteil, France), Jesper Rømhild Davidsen (Odense C, Denmark)</td>
</tr>
<tr>
<td>08:30</td>
<td>Pleural effusion and/or pleural thickening</td>
<td>Pia Iben Pietersen (Odense NØ, Denmark), Valentina Pinelli (Sarzana, Italy)</td>
</tr>
<tr>
<td>09:00</td>
<td>Case studies</td>
<td>Hugh Welch (Bristol, United Kingdom), Rachelle Asciak (SIGGIEWI, Malta)</td>
</tr>
<tr>
<td>09:30</td>
<td>Lymph node biopsy using models</td>
<td>Rachid Tazi Mezalek (Barcelona, Spain), Konstantina Kontogianni (Heidelberg, Germany)</td>
</tr>
</tbody>
</table>

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**8C (live-streamed)**

**Session 08:00 - 09:15**

**Joint session: Updates on inhalers for COPD and asthma**

**Aims:** Please note that this session is not accredited

**Chairs:** Frans H.C. De Jongh (Enschede, Netherlands), Fco.De Borja García Cosío Piqueras (Palma de Mallorca, Spain)

<table>
<thead>
<tr>
<th>Time</th>
<th>Description</th>
<th>Speakers</th>
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<tbody>
<tr>
<td>08:00</td>
<td>Introduction</td>
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<tr>
<td>08:05</td>
<td>How to choose and use an inhaler device?</td>
<td>Omar S. Usmani (London, United Kingdom)</td>
</tr>
<tr>
<td>08:20</td>
<td>How to monitor and improve inhaler technique?</td>
<td>Henry Chrystyn (Bingley (West Yorkshire), United Kingdom)</td>
</tr>
<tr>
<td>08:35</td>
<td>How to assess and improve inhaler adherence?</td>
<td>Federico Lavorini (Firenze (FI), Italy)</td>
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<tr>
<td>08:50</td>
<td>Panel discussion and Q&amp;A</td>
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**8F**

**Session 08:15 - 09:30**

**Oral presentation: Challenges in respiratory physiotherapy assessment and management**
### Session 8N
**Date:** 03.08.2022
**Time:** 08:15 - 09:30

**Oral presentation:** Novel approaches to physiologic studies of lung function

**Chairs:** Andrea Aliverti (Milan, Italy), Francesca Pennati (Milano (MI), Italy)

<table>
<thead>
<tr>
<th>Disease(s)</th>
<th>Airway diseases</th>
<th>Respiratory critical care</th>
<th>Sleep and breathing disorders</th>
<th>Interstitial lung diseases</th>
<th>Pulmonary vascular diseases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Method(s)</td>
<td>Cell and molecular biology</td>
<td>Imaging</td>
<td>Pulmonary function testing</td>
<td>Physiology</td>
<td>Respiratory intensive care</td>
</tr>
</tbody>
</table>

#### Abstracts

**The Dyspnoea Challenge - a novel approach for measuring exertional dyspnoea**
Craig Atkine (Brisbane (QLD), Australia), James Walsh, Glenn Stewart, Sabapathy Surendran, Lewis Adams, Norman Morris

**Small airway function after Covid-19 infection**
Sanna Kjellberg (Trollhättan, Sweden), Alexander Holm, Helena Sandén, Anna-Carin Olin

**Ventilator driving pressure correlates with neuroinflammation in healthy pigs ventilated for 50 hours**
Thiago Bassi (Burnaby, Canada), Elizabeth Rohrs, Karl Fernandez, Michelle Nicholas, Marlena Ornowska, Jessica Wittman, Matt Gani, Doug Evans, Steve Reynolds

**COPD Origins: Understanding Extracellular Matrix (ECM) Remodelling using bio-imaging techniques**
Chia Wei Kong (SOUTHAMPTON (Hampshire), United Kingdom), Tom Havelock, Michael Bennett, Jannie Marie Bülow Sand, Sarah Rank Ronnow, Cosma Mirella Spalluto, Staples Karl, Kristoffer Ostridge, Hannah Burke, Anna Freeman, Aishath Fazleen, Tom Wilkinson
A novel method for improving gas exchange by applying percussive ventilation in the expiratory phase
Ferenc Peták (Szeged, Hungary), Gergely H Fodor, Almos Schranc, Roberta Südy, Adam L Balogh, André Dos Santos Rocha, Davide Bizzotto, Walid Habre, Raffaele L Dellacá

Pulmonary vascular biomechanics imaged with synchrotron phase contrast microtomography in live rats
Sam Bayat (Grenoble, France), Jose-Luis Cercos, Luca Fardin, Gaetano Perchiazzi, Alberto Bravin

Characterizing respiratory mechanics in lymphangioleiomyomatosis by oscillimetry and quantitative CT
Cynthia Nohra (Toronto, Canada), Joyce Wu, Anastasiasa Vasileva, John Thenganatt, Clodagh Ryan, Micheal Mcinnis, Zoltan Hantos, Chung-Wai Chow

Pulmonologists collaborate with explainable artificial intelligence for superior interpretation of pulmonary function tests
Wim Janssens (Leuven, Belgium), Nilakash Das, Sofie Happaerts, Anh Tuan Dinh-Xuan, Eef Vanderelst, Christel Haenebalcke, Guy Brusselle, Eric Derom, Filip Burgos, Frits Franssen, Henrik Watz, Jennie Quint, Jorge Moises, Marco Contoli, Michael Steiner, Neel Greening, Rudi Pechê, Sherif Gonem, Vitali Poberezhets, William Mann, Marko Topalovic

Investigating breathing patterns of asthma patients during exercise using a novel parameter
Arjen Pelgröm (Enschede, Netherlands), Frans De Jongh, Ilonka Van Veen

Late Breaking Abstract - Diagnostic potential of forced oscillometry technique in adults with normal spirometry: data from the LEAD general population cohort
Chiara Veneroni (Milano (MI), Italy), Christoph Valach, Emiel Wouters, Alessandro Gobbi, Raffaele Dellaca’, Marie-Kathrin Breyer, Sylvia Hartl, Owat Sunanta, Pasquale Pompilio, Robab Breyer-Kohansal

Discussion

ERS International Congress 2022
DETAILED PROGRAMME
TUESDAY 06 SEPTEMBER, 2022

Oral presentation: Pulmonary embolism: acute and long-term management
Disease(s): Pulmonary vascular diseases, Thoracic oncology
Method(s): Pulmonary function testing, Epidemiology, General respiratory patient care, Imaging, Respiratory intensive care
Chairs: Luis Jose JARA PALOMARES (Sevilla, Spain), Francis Couturaud (Brest, France)

Diagnostic and prognostic value of pentraxin-3 in pulmonary thromboembolism

Right heart strain assessment on CTPA following acute pulmonary embolism: interobserver variability between radiologists and thoracic physicians
Chintaka Samaranayake (London, United Kingdom), Michelle Craigie, Peter Bell, Colm Mccabe, John Upham, John Coucher, Gregory Keir

Baseline characteristics and Outcomes in Patients with Venous Thromboembolism and Active Lung Cancer – a Nationwide Cohort Study in France
Laurent Bertoletti (Saint Etienne Cedex, France), Gaelle Gusto, Artak Khachatryan, Nadia Quignot, Jose Chaves, Audrey Moniot, Ruth Mokgokong, Isabelle Mahé

Cancer Associated Thrombosis: how many lung cancer patients seen in clinical practice would be eligible to a DOAC randomized controlled trial?
Valentine Mismetti (Saint Etienne, France), Bastien Petit, Simon Soudet, Géraldine Poenou, Emma Zarrat, Théo Machuron, Sandrine Acassat, Ludovic Plaisance, Hélène Heller, Claire Le Hello, Marie-Antoinette Sevestre, Isabelle Mahé, Laurent Bertoletti

Catheter-directed therapies in chronic thromboembolic pulmonary hypertension
Jenny Yang (La Jolla, United States), Nick Kim, Seth Kligerman, Timothy Fernandes, Demosthenes Papamatheakis, David Poch, Michael Madani, Victor Pretorius, Kim Kerr

Efficacy and safety of balloon pulmonary angioplasty for patients with chronic thromboembolic pulmonary hypertension concomitant to chronic obstructive pulmonary disease
Yu Tamuguchi (Kobe, Japan), Hiroyuki Fuji, Sachiko Yoneda, Keisuke Miwa, Kenichi Yanaka, Noriaki Emoto, Kenichi Hirata

Predictors of perioperative morbidity and mortality in patients with Antiphospholipid antibody syndrome (APS) and chronic thromboembolic pulmonary hypertension (CTPEH) after Endarterectomy Pulmonary.
Elyzabeth Bermudez (, ), Rodrigo Zebadua, Julio Lopez, Mario Pozas, Laurina Zorrilla, Tomás Pulido, Julio Sandoval, Nayeli Zayas

Discussion
Thematic poster: Assessment of respiratory physiology

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

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

**Chairs:** Camille Rolland-Debord (clermont-ferrand, France), André Luis Pereira De Albuquerque (São Paulo (SP), Brazil)

**Investigation of the relationship between breathing motor adaptation and agency: a physiological & VR-based study**
Sophie Betka (Genève, Switzerland), Antoine De Comite, Florent Jeanpetit, Sunho Lee, Claire Meuwly, Oliver Kanappe, Florian Lance, Sixto Alcoba, Olaf Blanke

**Fluctuations of respiratory frequency in infants according to the state of activity in a 24-hour time frame**
Marita Antoniadi (Athens, Greece), Konstantinos Douros, Michael Anthracopoulos, Ourania Magoni, Konstantinos Priftis

**Risk factors for respiratory depression in Opioid Use Disorder**
Caroline Jolley (London, United Kingdom), Basak Tas, Nicola J Kalk, Manuel Lozano- García, Gerrard F Rafferty, Peter S P Cho, Michael Kelleher, John Moxham, John Strang

**Impact of continuous pulse oximetry recording on 6-minute walking distance in patients with chronic respiratory diseases**
Danilo C Berton (Porto Alegre (RS), Brazil), Litiele Evelin Wagner, Gustavo Hauenstein Rosa, Ravena Maya Cardoso Da Silva, Kassio Padilha Goulart, Franciele Plachi, Igor Gorski Benedetto, Marcelo Basso Gazzana, José Alberto Neder

**Evaluation of the clinical impact of the revised Bronchodilator responsiveness of the ATS/ERS 2021 on asthmatic children**
FATMA ELLEUCH (Sfax, Tunisia), Rim Kammoun, Sana Sellami, Sana Ben Jemaa, Farah Gargouri, Ines Kammoun, Kaouthar Masmoudi

**Bronchodilator response for oscillometry in severe eosinophilic asthma**
Rory Chan (Glasgow, United Kingdom), Chris Rui Wen Kuo, Brian Lipworth

**Interactions between spirometry and oscillometry in patients with moderate to severe asthma**
Rory Chan (Glasgow, United Kingdom), Brian Lipworth

**Comparison of lung function measured by spirometry, plethysmography and impulse oscillometry in hospitalized adults**
Eyal Kleinhendler (Tel Aviv-Yafo, Israel), Rosman Maya, Elisabeth Fireman, Irena Fomin, Inbal Friedman Regev, Evgeny Gershman, Noa Ofir, Tal Perluk, Boaz Tiran, Avraham Unterman, Amir Bar-Shai

**Reliability and clinical relevance of impulse oscillometry in smokers with and without airflow obstruction**
Matthew D. James (Kingston (ON), Canada), Sandra G. Vincent, Devin B. Phillips, Michael K. Stickland, Jordan A. Guenette, J. Alberto Neder, Denis E. O'Donnell

**Effects of implementing GLI-2012 reference equations on pulmonary function test (PFT) interpretations**
Haruna Kitazawa (Toronto, Canada), Annie Jiang, Joyce K.Y. Wu, Cynthia Nohra, Honami Ota, Clodagh Ryan, Chung-Wai Chow

**Volumetric capnography to assess changes in respiratory mechanics during methacholine challenge in rats**
Petra Somogyi (Hódmezovásárhely, Hungary), Ibolya Tóth, Szilvia Keccskés, József Tolnai, Ferenc Peták, Gergely H. Fodor

**Retrospective accuracy evaluation of a long-term, large number spirometry dataset of a health check-up clinic of Japan.**
Tetsuo Kimura (Saku, Japan), Satoru Yanagisawa, Satoshi Wasamoto, Nariaki Ohura, Nobutoshi Morozumi

**What is the clinical relevance of reference values in the 6MWT?**
Juan Fco. Nieves Salceda (Oviedo, Spain), Marta Iscar Urrutia, Ramón Fernández Álvarez, Gema Rubinos Cuadrado, Maria José Vázquez López, Laura Abad Chamorro, Patricia Álvarez Álvarez, Eduardo Sánchez Vázquez, Angela Lanza Martínez, Laura Martínez Vega, Alejandro Fernández Fernández, Covadonga De La Escosura Muñoz, Maria Marta García Clemente

**The adding value of continuous monitoring of pulse oximetry during the 6-minute walk test for prognosis estimation in interstitial lung disease**
Franciele Plachi (Porto Alegre, Brazil), Fernanda Machado Balzan, Anna Carolina Campos De Azevedo, Kimberli Dantas Käfer, Litiele Evelin Wagner, Marcelo Basso Gazzana, José Alberto Neder, Danilo Cortozi Berton

**Standardisation of specific airway resistance measurements in COPD.**
James Dean (Holmes Chapel, United Kingdom), Leanne Archer, Natalie Jackson, Dave Singh
Assessment of the relation between the severity of the deformity and spirometric values of children with pectus deformity.
Dilara Doghan (Ankara, Turkey), Gizem Ozcan, Fazilcan Zirek, Merve Nur Tekin, Secahattin Bayav, Nazan Cobanoglu

Respiratory effects of commonly used anesthesia regimes in rats
Gergely H. Fodor (Szeged, Hungary), Álmos Schranc, Bence Ballók, Ibolya Tóth, József Tolnai, Ferenc Peták

Fractional exhaled nitric oxide in the assessment of exercise-induced bronchoconstriction: a multicentre retrospective analysis of UK-based athletes
Oliver Price (Leeds, United Kingdom), John Dickinson, William Gowers, Savannah Sturridge, Neil Williams, Pascale Kippelen, Andrew Simpson, Anna Jackson, James Hull

The role of n-of-1 single-blinded crossover ambulatory oxygen test (AOT) in fibrotic interstitial lung disease (fILD)
Hazel Wilkie (Edinburgh, United Kingdom), Jill Macleod, Alex Przybylski, Nik Hirani

Comparison of different reference values for lung function, and implications of inconsistent use nationwide
Henrik Mangseth (Oslo, Norway), Liv Ingunn Bjoner Sikkeland, Ole Henrik Myrdal, Mariann Ulvestad, Johny Kongerud, Michael Thomas Durheim, May Brit Lund

TP-20 Session 08:30 - 09:30
Theme: COVID infections prognosis: risk factors and treatment

Disease(s): Airway diseases, Interstitial lung diseases
Method(s): General respiratory patient care, Physiology, Pulmonary function testing, Epidemiology, Public health, Imaging, Respiratory intensive care

Chairs: Josje Altenburg (Amsterdam (NH), Netherlands)

Tocilizumab administration and monitoring in COVID-19
Avinash Aujayeb (Newcastle, United Kingdom), Nathaniel Keidan

Risk factors and mortality rate in hospitalized patients with COVID-19: Data from a respiratory medicine department in a reference Hospital for COVID-19
Andreas Photiades (Athens, Greece), Lykourgos Kolilekas, Anastasia Levounets, Konstantinos Loverdos, Lamprini Vlassi, Polixeni Nontsi, Theoni Agapitou, Chrysoula Kontogianni, Romina Chatzipetrou, Stella Giannakaki, Zafiris Sardelis, Theopletsi Grigoratou, Erasmia Ekonomidou, Konstantinos Samitas, Eleftherios Zervas, Mina Gagi

Mortality prediction using a modified R2CHA2DS2-VASc score among hospitalized COVID-19 patients
Ori Wand (Kfar Sava, Israel), David Levy, Guy Topaz, Sydney Benchetrit, Keren Cohen-Hagai

Multiple-flows exhaled nitric oxide for the detection and severity assessment of post-COVID19 lung sequelae
Paolo Cameli (Siena (SI), Italy), Elena Bargagli, Laura Bergantini, Miriana D'Alessandro, Bruna Maria Giugno, Francesco Gentili, Piersante Sestini

Post Coronavirus Disease 2019 (COVID-19) pulmonary fibrosis: a 12 months follow-up study
Matteo Daverio (Padova, Italy), Elisabetta Cocconcelli, Nicol Bernardinello, Simone Petrarulo, Matteo Bovo, Cristina Dartora, Elena De Zorzi, Silvia Tonin, Annamaria Cattelan, Chiara Giraudo, Marina Saettno, Paolo Spagnolo, Elisabetta Balestro

COVID-19 Pneumonia Virtual Follow-up Service in Greater Glasgow and Clyde: Effectiveness and Outcomes.
Erin McGarry (Glasgow, United Kingdom), Kathryn Scott, Katie Levin, Fadilla Refin, Angela Wright, George Chalmers, David Anderson, Brian Choo-Kang, Hannah Bayes

Lingering COVID-19 symptoms in non-hospitalized (NH) patients: Results from a Tunisian prospective cohort
Amany Touil (Tunis, Tunisia), Ella Nems, Sarra Maazaoui, Tasmim Znegui, Mariem Chaabane, Sabrine Maddeh, Sonia Habibech, Hajer Racil, Nawel Chaouch

Critical patients with COVID-19: are there any clinical peculiarities?
Kateryna Gashynova (Dnipro, Ukraine), Vladyslava Rudakova, Yelyzaveta Skubchenko, Vladyslav Mykhailov

CRP, ferritin, IL-6 and D-dimer: how significant they are in prediction of disease severity in COVID-19 - A retrospective study
Borislav Božanić (Niš, Republic of Serbia), Marija Topalović, Tatjana Pejčić, Aleksandra Ignjatović, Desa Nastasijević Borovac, Vuk Pejčić, Ana Srbulović Božanić, Miodrag Vrbić, Marko Bjelaković, Marija Marinković, Milan Radović, Milan Rančić, Ivana Stanković, Lidija Ristić

Non-interventional, retrospective, multi-center, follow-up study evaluating the effect of the angiotensin II type 2 receptor agonist C21 on lung pathology in subjects previously hospitalised with COVID-19
Cecilia Ganslandt (Stockholm, Sweden), Rohit Batta, Göran Tornling, Thomas Bengtsson, Anand Devaraj, Reema Kashiva, Atul Rajkondawar, Kartikeya Parmar, Nirav Bhalani, Ali Bohra, Anne-Katrine Cohrt
CLINICAL PHENOTYPES OF COVID-19 PNEUMONIA: different phases of viral process or really different states? 
Yuliia Huba (Dnipropetrovsk, Ukraine), Kseniia Bielosludtseva, Lyudmyla Konopkina, Tetyana Pertseva

Developing a Long-COVID follow-up protocol in a Portuguese tertiary hospital 
Mariana Gomes (Porto, Portugal), Gabriela Canelas, Cláudio Nunes Silva, António Sarmento, Margarida Tavares

Interleukin-6 in SARS-CoV2 risk stratification 
Fernando Pereira da Silva (Penafiel, Portugal), Filomena Luís, Filipa Jesus, Élín Almeida, Sara Braga, Joana Ribeiro, Rebeca Natal, João Costa, Mariana Tavares, Luis Ferreira

Pulmonary function evaluation after hospital discharge of patients with severe COVID-19 
Fernando Carlos Guíllerm Ortega (Tuxtla Gutierrez Chiapas, Mexico), Carlos Palomeque, Jorge Pola

Automated cough detection in COVID-19 and non-COVID-19 pneumonia using machine learning-based technology 
Frank Rassouli (Speicher, Switzerland), Maximilian Boesch, Florent Baty, Filipe Barata, David Cleres, Peter Tinschert, Iris Shih, Elgar Fleisch, Martin H. Brutsche

The characteristics of patients with pulmonary post covid fibrosis 
Imen Kharrat (kairouan, Tunisia), Amani Kacem, Hajer Hannechi, Rahma Benjazia, Hend Zorgati, Salam Mefteh, Dhouha Benbraiek, Jihen Ayachi, Anis Maatalla, Latifa Merzougui

Association between serum IgG levels and time to first antibiotic prescription in COPD patients 
Anna Vanoverschelde (Ghent, Belgium), Samer R. Khan, Virgil A.S.H. Dalm, Layal Chaker, Guy Brusselle, Bruno H. Stricker, Lies Lahousse

Clinical, radiological, and respiratory functional assessment three months after SARS-CoV-2 hypoxemic pneumonia 
Soumaya Debiche (Le Kram, Tunisia), Houda Snène, Blibech Hana, Kaabi Line, Sirine Daoud, Souhir Ouali, Jalloul Daghfous, Nadia Mehiri, Nozha Ben Salah, Bechir Louzir

Long COVID risk factors in a Portuguese cohort 
Márcia Araújo (Porto (Porto), Portugal), Sara Dias, Joana Lourenço, Ana Luísa Fernandes, Bruno Cabrita, Joana Amado, Ana Paula Vaz, Inês Neves, Paula Simão, Bárbara Seabra

Microbiological profile of post covid patients admitted in tertiary care center with pulmonary infections. 
Deepak Muthreja (Nagpur (Maharashtra), India)

TP-2 Session 08:30 - 09:30

Thematic poster: Accessibility and personalised approach to pulmonary rehabilitation

Disease(s): Airway diseases Interstitial lung diseases

Method(s): Pulmonary rehabilitation Physiology General respiratory patient care Palliative care Epidemiology Public health

Chairs: Anouk W. Vaes (Horn, Netherlands), Anja Frei (Zürich, Switzerland)

Late Breaking Abstract - Health economic implications of the use of erdosteine in patients with chronic obstructive lung disease.
Alberto Papi (Cona, Ferrara, Italy), Daniela Paola Roggeri, Alessandro Roggeri

Impact of the COVID-19 pandemic on COPD exacerbations during inpatient pulmonary rehabilitation
Kiki Waejen-Smit (Horn, Netherlands), Martijn A. Spruit, Rein Posthuma, Fenne De Jong, Daisy J. A. Janssen, Nicole P. H. Van Loon, Bitu Hajian, Sandra L. Evertse-Snijders, Sami O. Simons, Sarah Houben-Wilke, Frits M. E. Franssen

"You can’t feel what we feel": Multifaceted dyspnea invisibility in advanced chronic obstructive pulmonary disease: A qualitative study
Laure Serresse (Paris, France), Antoine Guerder, Jonathan Dedonder, Nathalie Nion, Sophie Lavault, Capucine Morelot-Panzini, Jesus Gonzalez, Laelia Benoit, Thomas Similowski

Home-based pulmonary rehabilitation for adult with difficult-to-control asthma exposed to violence.
Sarah Gephine (Perenchies, France), Emilie Margoline, Stéphanie Fry, Cécile Chenivesse, Jean-Marie Grosbois

Predictors of poor pulmonary rehabilitation program (PRP) attendance in COPD patients
Huiying Xu (Singapore, Singapore), Calvin You Jia Chen, Shi Tien Heng, Min Sen Yew

Respiratory Sensation Assessment in COPD and healthy ageing
Isabella Epiu (Kampala, Uganda)

Is Virtual Pulmonary Rehabilitation (PR) a feasible and effective alternative to Face to Face?
Laura Moth (London, United Kingdom), Vijay Padmanaban, Crisp Phillip, Lound Adam, Maguire Michelle, Moloney Clare, De Luca Brendan, Kennedy Zoe, Klingen Helen, Elkin Sarah
| Predicting those that require rehabilitation following hospitalisation of COVID19. | Enya Daynes (Leicester, United Kingdom), Urvee Karsanji, Nikki Gardiner, Sally J Singh |
| Pain characteristics in long COVID syndrome patients one year after infection | Javier Martín Núñez (Granada, Spain), Andrés Calvache Mateo, Alba Navas Otero, Irene Torres Sánchez, Ángela Benítez Feliponi, Irene Cabrera Martos, Marie Carmen Valenza |
| Investigating adherence to pulmonary rehabilitation and long-term sequelae in patients with Long COVID. | Megan Clark (Liverpool, United Kingdom), Hafsa Shams-Khan, Gurinder Tack, Laura Watkins, Nneka Nwosu |
| Activity levels and quality of life in long COVID patients | Javier Martín Núñez (Granada, Spain), Andrés Calvache Mateo, Alberto Rodríguez López, Irene Calles Plata, Araceli Ortiz Rubio, Irene Torres Sánchez, Marie Carmen Valenza |
| Multidimensional assessment of pulmonary rehabilitation programs in COPD patients | Ana Casal (vigo, Spain), Malena Toubes, Luis Sanz, Carlota Rodriguez, Carlos Rábade, Vanessa Riveiro, Tamara Lourido, Romina Abelleira, Lucía Ferreiro, Adriana Lama, Nuria Rodriguez, Luis Valdés |
| “When I am breathless now, don’t have the fear that’s linked to it.” A qualitative case series analysis on the potential of EMDR to break the dyspnea-anxiety cycle in patients with COPD | Kris J.M. Mooren (Haarlem, Netherlands), Kirsten Smit, Yvonne Engels, Daisy Janssen, Judith Godschalx |
| Bone health in patients with chronic respiratory disease. Are we doing enough? | Joseph McHugh (Limerick, Ireland), Caroline Tan, Niamh Logan, Catriona Reddin, Jude Ryan |
| Pulmonary rehabilitation interventions in COVID-19 patients | Leila Douik El Gharbi (Ariana, Tunisia), Imen Sahnoun, Tasnim Znegui, Ines Moussa, Siwar Rejeb, Salma Mkaddem, Asma Allouch, Rafik Guerfallah, Chiraz Ksouri, Saloua Jameleddine |
| Needs and perceptions of patients and healthcare providers about Pulmonary Rehabilitation in India | Shrut Sahasrabudhe (Pune (Maharashtra), India), Dipali Dhamdhere, Suryakant Borade, Meenakshi Bhakare, Mahavir Modi, Mark W Orme, Ilaria Pina, Rashmi Rohan, Zahirah Ahmed, Andy Barton, Michael C Steiner, Sundeep Salvi, Sally J Singh |
| Development of a Communication instrument about Sexuality in COPD: COSY | Kaba Dalla Lana (Wetzikon, Switzerland), Claudia Steurer-Stey, Stefanie Gonin-Spanhi, Michele Borgmann, Ursina Brun Del Re, Sebastian Haas, Eliane Sarasin, Andrea Burri, Alexandra Straussmann, Anja Frei, Milo Puhun |
| Mapping UK rehabilitation provision for adults after hospital admission with COVID-19 | Sarah Ward (Leicester, United Kingdom), Charlotte Overton, Archie Walters, Andrew Ibbetson, Sally Singh, Rachael Evans, Andrew Briggs, Linzy Houchen-Wolloff |
| Home-based pulmonary rehabilitation for patients with chronic respiratory diseases in Malaysia: A feasibility study | Yong-Kek Pang (Kuala Lumpur (Wilayah Persekutuan), Malaysia), Soo Chinn Chian, Julia Patrick Engkasan, Jaspreet Kaur Sekhon, Jayakayatri Jeevajothi Nathan, Norita Hussein, Nik S Ferina Hanafi, Anwar Suhaimi, Yong Kek Pang, Saari Yatim, Monsur Habib, Hilary Pinnock, Ee Ming Khoo |
| Post-COVID pulmonary rehabilitation at primary hospital in Nepal: Preliminary experience from LMIC | Aishana Joshi (Kathmandu, Nepal), Pankaj Pant |

**TP-24 Session 08:30 - 09:30**

Thematic poster: Sarcoidosis: challenges in the assessment and management of disease complications

**Disease(s):** Interstitial lung disease, Epidemiology, Imaging, General respiratory patient care, Cell and molecular biology

**Method(s):** Pulmonary function testing, Clinical examination, Genetic testing, Imaging, General respiratory patient care, Cell and molecular biology

**Chairs:** Marcel Veltkamp (De Meern, Netherlands), Adriane D.M. Vorselaars (Nieuwegein, Netherlands)

- **Corticosteroid-induced remission, and mycophenolate maintenance therapy in GLILD: long-term, longitudinal change in lung function in a single centre cohort**
  - Heba M Bintalib (London, United Kingdom), David M Lowe, Gaia Mancuso, Georgia Gkrepi, Suranjith L Seneviratne, Siobhan O Burns, John R Hurst

- **Modifiable lifestyle factors for sarcoidosis: a nested case-control study**
  - Marina Dehara (Stockholm, Sweden), Michael C. Sacks, Johan Grunewald, Anders Blomberg, Elizabeth V. Arkema

- **Cardiac involvement in sarcoidosis patients: which patients should be screened?**
  - Ecem Naz Ertürk (Mersin, Turkey), Bahar Ulubas, Kaan Esen, Ahmet Çelik, Şenay Balci, Lülüfer Tamer
Diagnosing Small Fiber Neuropathy in Sarcoidosis remains challenging
Lisette Raasing (Nieuwegein, Netherlands), Marcel Veltkamp, Oscar J M Vogels, Jan C Grutters

Long-term outcomes of combination therapy with methotrexate and methylprednisolone in patients with pulmonary sarcoidosis
Ievgeniia Merenkova (Kyiv, Ukraine), Volodymyr Gavrysyuk, Yaroslav Dziublyk, Galyna Gunumeniuk, Nataliia Pendalchuk

Sarcoid-like reaction with mediastinal lymphadenopathy in patients after breast cancer surgery
Ryosuke Imai (Tokyo, Japan), Yasue Tsuchida, Torahiko Jinta

Bone mineral density in Danish patients with sarcoidosis
Janne Møller (Skanderborg, Denmark), Lars Rejmark, Elisabeth Bendstrup

Vasoactive intestinal peptide for granulomatous diseases – a case series.
Bjoern Frye (Freiburg, Germany), Charlotte Gutzler, Gernot Zissel, Kerstin Höhne, Joachim Müller-Quernheim

Doppler resistive index is informative for assessment lymph nodes on EBUS for predictive diagnosis of sarcoidosis
Rostyslav Bubnov (Kyiv, Ukraine), Anatoli Serhiienko

The association between respiratory muscles and physical functioning in patients with ILD: Preliminary results
Martin Dvořáček (Bouzov, Czech Republic), Tamara Zlámalová, Sofie Breuls, Heleen Demeyer, Thierry Troosters, Monika Zürkova, Katerina Neumannova

Polymorphisms in immune related genes are associated with Sarcoidosis in Korean Population
Kateřina Sikorová (Olomouc, Czech Republic), Hee-Young Yoon, Adam Strnad, Lenka Kocourková, Su-Jin Moon, Jin Woo Song, Martin Petrek

Sarcoidosis, from bioinformatics to bench work
Thomas El Jammal (Strasbourg, France), Fabien Chevalier, Pascal Sève, Yves Pachéco, Alain Calender

Covid-19 infection in patients with sarcoidosis: clinical course and outcome – single center experience
Martina Batarilo Hadar (Zagreb, Croatia), Mateja Janković Makek, Fedža Džubur, Dina Mihelčić Korte, Dina Rnjak, Gordana Pavliša, Andrea Vukić Dugac, Miroslav Samaržija, Ana Hečimović

ANXA11 rs1049550 associates with Löfgren’s syndrome and chronic sarcoidosis patients
Bekir Karakaya (Nieuwegein, Netherlands), J.J. Van Der Vis, M. Veltkamp, D. Biesma, J.C. Grutters, C.H.M. Van Moorsel

Features of the course of COVID-19 in patients with sarcoidosis
Olena Semendyayeva (Mariupol, Ukraine), Nadiya Monogarova, Kseniya Borodiy, Dmitriy Shevchenko

TP-7 Session 08:30 - 09:30

Thematic poster: Emerging therapeutic targets, biomarkers and mechanisms of chronic lung disease

Disease(s): Airway diseases, Interstitial lung diseases, Respiratory critical care
Method(s): Cell and molecular biology, Physiology, Imaging, Transplantation, Pulmonary function testing
Chairs: Arlene Glasgow (Dublin 9, Ireland), Killian Hurley (Co. Meath, Ireland)

Elucidation of a novel mechanism of Benralizumab on human immune cells using humanized hIL-3/hGM-CSF/hIL-5 Tg NOG mice
Satoshi Nunomura (Saga, Japan), Ryoji Ito, Yasuhiro Nanri, Kenji Izuhara

A transcriptomic, metabolic and phenotypic study of the anti-fibrotic effects of PGE2 in IPF lung fibroblasts and macrophages
Melker Göransson (Mölndal, Sweden), Kristin Wiqvist, Madeleine Ingelsten, Zala Jevnikar, Orsolya Bilkei-Gorzo, Tomas Ottosson, Thomas Markou, Julia Lindgren, Toby M Maher, Philip L Molyneaux

Development of PRS-400, an inhaled Jagged-1 Anticalin protein for the treatment of mucoso-obstructive lung diseases
Matthias Hagner (Hallbergmoos, Germany), Claudia Wurzenberger, Janet Peper-Gabriel, Diana Jaquin, Nicolas Quilitz, Christina Hechinger, Thomas Jaquin, Kristina Heinig, Eva-Maria Hansbauer, Stefan Grüner, Josef Prassler, Rachida Siham Bel Aiba, Jan-Peter Mayer, Richa Bharti, Joe Alexander Wrennall, Robert Tarran, Anuradha Ray, Sally Wenzel, Christine Rothe, Shane A. Ollwill, Gabriele Matschiner, Athanasios Fysikopoulos

No effect of lidocaine on ciliary beating frequency and pattern of human nasal epithelial cells in vitro
Sibel T Savas (Bern, Switzerland), Stefan A Tschanz, Philipp Latzin, Carmen Casaulia, Loretta Müller
Fluorescent PLGA nanocarriers for pulmonary administration
Aina Areny Balagueró (Sabadell, Spain), Wid Mekseriwattana, Marta Camprubi-Rimblas, Andrea Stephany, Ariana Roldán, Antonio Artigas, Daniel Closa, Anna Roig

Involvement of miRNAs as a response to extracorporeal photopheresis in the control of bronchiolitis obliterans syndrome
Sara Bozzini (Pavia, Italy), Claudia Del Fante, Monica Morosini, Cecilia Bagnera, Hatice Oya Berezhinskiy, Sophia Auner, Laura Pandolfi, Matteo Della Zoppa, Cesare Perotti, Konrad Hoetzenecker, Peter Jaksch, Alberto Benazzo, Federica Meloni

ADAM-33 and MMP-8 in bronchial asthma.
Dimo Dimov (Stara Zagora, Bulgaria), Tanya Tacheva, Donika Ivanova, Kahan Celik, Anelia Bivolarska, Tatyana Vlaykova

Airway eosinophilic inflammation indicates small airway dysfunction (SAD) in patients with mild stable or at risk for COPD – results from CAPTO-COPD
Mustafa Abdo (Grosshansdorf, Germany), Frauke Pedersen, Frederik Trinkmann, Felix J.F. Herth, Klaus F. Rabe, Anne Kirsten, Henrik Watz

MUC5AC and MUC5B expression in goblet cells of large airway epithelium in never-smokers, smokers, and COPD patients
Tereza Pincikova (Solna, Sweden), Heta Merikallio, Ioanna Kotortsi, Reza Karimi, Chuan-Xing Li, Elisa Lappi-Blanco, Sara Lindén, Médée Padra, Åsa Wheelock, Riitta Kaarteenaho, Magnus Sköld

Increased luminal narrowing but reduced wall thickness in the small airways of severe COPD patients
Andrew Higham (Manchester (Greater Manchester), United Kingdom), Josiah Dungwa, Dave Singh

COPD-associated changes in lung extracellular matrix

Olfactory Receptors Reduce Inflammation of Lung Epithelial Cells
Daniel Weidinger (Bochum, Germany), Julian Jacobsen, Kaschin Jamal Jameel, Desiree Alisch, Hendrik Uebner, Juliane Kronstein, Marcus Peters, Sebastian Reuter, Hanns Hatt, Jürgen Knobloch

Basal airway epithelial cells from PCD have distinct proliferative and inflammatory responses
Zofia Varényiová (Prague, Czech Republic), Laura Rojas, Jacquelyn Spano, Václav Čapek, Tyson Holmes, Carlos Millà

Cell death and proliferation-related transcripts in lung allograft airway epithelial cells
Olivia Mekhail (Toronto, Canada), Allen Duong, Benjamin Renaud-Picard, Tina Daigneault, Ankita Burman, Sajad Moshkelgosha, Stephen Juvet, Tereza Martinu

LSC - 2022 - Circular RNA expression in cystic fibrosis bronchial epithelium
Chiara De Santi (Dublin, Ireland), Killian Hurley, Agnieszka Swiatecka-Urban, Catherine Greene

Dynamic microscopic imaging and molecular characterisation of alveolar macrophage drug effects of a labelled inflammasome inhibitor in the human lung
Tom Quinn (Edinburgh (Edinburgh), United Kingdom), Antonella Pellicoro, Charles Lochenie, Emma Duffy, Richard O'Connor, Anuruddika Fernando, Erin Gaughan, Keith Finlayson, Ashley Mansell, Christopher Murphy, Adriano Rossi, Kevin Dhaliwal

Prevalence and predictors of airway hyperresponsiveness in asthma, COPD, and overlap-findings from a large real-life population
Marie Lykke Felby (Copenhagen, Denmark), Ditte Klein, Laurits Frossing, Morten Hvidtfeldt, Uffe Bodtger, Kerstin Romberg, Leif Bjørmer, Ellen Tufvesson, Celeste Porsbjerg

Effect of Bronchial Thermoplasty on Alarmin (S100A7/A8/A9) Expression in Severe Asthma.
Pierre-Alexandre Gagnon (Québec, Canada), Said Assou, Mabrouka Salem, Sabrina Biardel, John De Vos, Noel Lampron, Simon Martel, Louis-Philippe Boulet, Michel Laviolette, Catherine Laprise, Jamila Chakir

LSC - 2022 - COPD Monocyte-derived macrophages display hallmarks of senescence
Shyreen Hassibi (London, United Kingdom), Jonathan Baker, Peter Barnes, Louise Donnelly

Role of urokinase-type plasminogen activator receptor (uPAR) in senescent lung cells
Catherine Wrench (Cambridge, United Kingdom), James Dodgson, Catherine Overed-Sayer, Louise Donnelly, Peter Barnes
Late Breaking Abstract - Classifying asthma control using salivary and fecal microbiome in children with moderate to severe asthma: results from the SysPharmPediA study
Jelle Blankespijn (Amsterdam, Netherlands), Alejandro Lopez-Rincón, Anne H. Neerincx, Susanne J.H. Vijverberg, Simone Hashimoto, Mario Gorenjak, Olaia Sardón-Prado, Paula Corcuera, Javier Korta-Murua, Maria Pino-Yanes, Uroš Potočnik, Christine Wolff, Susanne Brandstetter, Antoaneta A. Toncheva, Parastoo Kheiriddin, Susanne Harner, Michael Kabesch, Aletta D. Kraneveld, Mahmoud I. Abdel-Aziz, Anke H. Maitland-Van Der Zee

Late Breaking Abstract - Longitudinal data-driven definition of clinical asthma phenotypes in the pediatric arm of the ALLIANCe cohort
Alexander J. Hose (München, Germany), Erika Von Mutius, Klaus F. Rabe, Gesine Hansen, Matthias V. Kopp, Markus J. Ege

Practice pattern survey for paediatric asthma in Nepal (SPAN)
Amrit Ghimire, Aniruddha Mukhopadhyay, Vaibhav Gaur, Jaideep Gogtay

Management of Severe Asthma in Pediatric Patients by an Interdisciplinary Team in a Public Hospital Setting.
Alvaro Teijeiro (Córdoba, Argentina), Ruben Vieyra, Analia Arteaga, Maximiliano Ermoli, Carolina Bustos, Franco Soria, Anahi Yañez

Interactive tablet application for self-report of asthma symptoms and impacts in children
Jessica Marvel (East Hanover, United States), Oskar Göransson, Marci Clark, Carla Romano, Oyebimpe Olayinka-Amao, Diane Whalley, Rebecca Crawford, Caterina Brindicci, Kristin Garg, Kattayoun Kordy, Francois Everhard, Francesco Patalano, Zach Roesler, Ross Landles, Christel Naoujoks

A feasibility study of a school-based asthma programme in Malaysia conducted during COVID-19 pandemic
Hilary Pinnock (Edinburgh (Edinburgh), United Kingdom), Siti Nurkamilla Ramdzan, Ee Ming Khoo, Su May Liew†, Steve Cunningham, Ee Ming Khoo

TRial to Assess Implementation of New research in a primary care Setting (TRAiNS): a pragmatic cluster randomised controlled trial of an educational intervention to promote asthma prescription uptake in General Practitioner Practices
Rami Alyami (Sheffield, United Kingdom)

An international survey to establish prioritised outcomes of oral corticosteroids treatment for preschool wheeze
Bohee Lee (Edinburgh, United Kingdom), Steve Turner, Damian Roland, Steff Lewis, Steve Cunningham

Advanced in-vitro test setup for valved holding chambers with pediatric facemasks
Andrea Winzen (Gräfelfing, Germany), Eva-Maria Popp, Karin Steinfuehrer, Rosina Ledermueller

Study Of The Correlation Between rs242941 polymorphism in CRHR1 Gene WithThe Responsiveness of Inhaled Corticosteroid Therapy in Children with Asthma
Sy Duong-Quy (Dalat, Vietnam), Hanh Nguyen-Bich, Le Nguyen-Ngo-Quynh, Huang Le-Thi-Minh

Medication use in uncontrolled pediatric asthma: results from the sypharmmedia study
Amir Hossein Alizadeh Bahmani (Amsterdam, Netherlands), Elise M.A. Šlob, Anne H. Neerincx, Susanne J.H. Vijverberg, Simone Hashimoto, Mahmoud I. Abdel-Aziz, Mario Gorenjak, Catarina Almqvist, Anna Hedman, Olaia Sardón Prado, Paula Corcuera, Javier Korta, Maria Pino-Yanes, Uroš Potočnik, Christine Wolff, Susanne Brandstetter, Susanne Harner, Michael Kabesch, Aletta D. Kraneveld, Mariëlle W. Pijnenburg, Gerard H. Koppelman, Anke H. Maitland-Van Der Zee

Impact of asthma on the quality of life of asthmatic children: prospective study of 126 cases
Nadia MEBROUK (Rabat, Morocco), Naima El Hafidi, Fadoua Benbrahim, Soumia Bencheckroun, Chafiq Mahraoui

Efficacy of oral corticosteroids in treating preschool wheeze: A systematic review and meta-analysis
Bohee Lee (Edinburgh, United Kingdom), Jonathan Twynam-Perkins, Steve Turner, Steff Lewis, Steve Cunningham

The interest of magnesium sulfate nebulization in asthma exacerbation
Nadia MEBROUK (Rabat, Morocco), Naima El Hafidi, Fadoua Benbrahim, Chafiq Mahraoui
### Thematic poster: Exhaled/blood biomarkers and lung function testing in chronic airway diseases

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<th>Disease(s)</th>
<th>General respiratory patient care</th>
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<td><strong>Chairs</strong></td>
<td>Marc van der Schee (Cambridge, United Kingdom)</td>
<td>Florence Schleich (Liège, Belgium)</td>
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**Session 08:30 - 09:30**

#### TP-11

An original computational framework offers new perspectives for exhaled nitric oxide

Cyril Karamaoun (Ixelles, Belgium), Benjamin Mauroy, Médéric Argentina

Interval change in fractional exhaled nitric oxide (FENO) reflects short-term but not long-term change in adherence

Tunn Ren Tay (Singapore, Singapore), Xue Ning Choo, Yiong Huak Chan, Anthony Yii

Short term effect of cigarette smoke on exhaled volatile organic compounds profile analyzed by an eNose.

Silvano Dragonieri (Bari (BA), Italy), Enrico Buonomico, Agnese Caringella, Ruben Infantino, Pierluigi Intigliament, Vincenzo Nicola Valerio, Marco Partiuto, Luciana Labate, Giovanna Elisiana Carpanagano

Do particles in exhaled air samples differ between asthmatic and non-asthmatic adults?

Laura Healy (Manchester, United Kingdom), Fahad Al-Huda, Emma Barrett, Lisa Willmore, Rhys Tudge, Gina Kerry, Clare S Murray, Angela Simpson, Stephen Fowler

FENO PREDICTS SHORT TERM RISK OF MODERATE/SEVERE COPD EXACERBATIONS

ANA QUESADA QUESADA (granada, Spain), Gema Ramirez Rodriguez, Antonio Menéndez Lobo, Alejandro Romero Linares, Pedro J Romero Palacios, Bernardino Alcazar Navarrete

Outcome of acute exacerbation of COPD in patients with NASH compared with non-NASH patients: national inpatient database analysis

Ansu Karki (Cooperstown, United States), Samir Jha

Biomarkers of coagulative properties in patients admitted with AECOPD.

Peter Thobias Kamstrup, Jannie Marie Bülow Sand, Charlotte Ulrik, Julie Janner, Sarah Rank Ronnow, Diana Julie Leeming, Sidse Graff Jensen, Torgny Wielcke, Marc Miravitlles, Alexander Mathioudakis, Therese Lapperre, Ruth Frikke-Schmidt, Daniel Murray, Theis Ittenov, Apostolos Bousios, Susanne Dam, Jorgen Vestbo, Tor Biering-Sorensen, Morten Karsdal, Jens-Ulrik Stehr Jensen, Pradeesh Sivapalan

Forced oscillatory technique for diagnosis and monitoring of bronchiolitis obliterans syndrome following allogeneic stem cell transplantation

Rottem Kuint (Petach Tikva, Israel), Batia Avni, Sigal Grisaru, Eran Zimran, Polina Stepensky, Neville Berkman

Expiratory flow limitation prevalence in non-hospitalized patients with COPD

Chuck Cain (Pittsburgh, United States), Michael Kissel, Melissa Weiner, Jeffrey Jasko, William Hardy, Fallon Wainwright, Mariam Louis

Detection of small airways disease by impulse oscillometry among smokers and non-smokers with normal spirometry.

KETAN MALU (MUMBAI, India), Jai Mullerppattan, Ashok Mahashur

Accuracy of impedance measurements of a novel handheld oscillometry device

Davide Bizzotto (Milano (MI), Italy), Pasquale Pio Pompiuto, Alessandro Gobbi, Raffaele Dellaca'

Sputum neutrophil counts in healthy subjects: relationship with age

Augusta Beech (Manchester, United Kingdom), Dave Singh

Serum osteoprotegerin (OPG) and osteopontin (OPN) in patients with COPD during two-year follow-up study

Dimo Dimov (Stara Zagora, Bulgaria), Tanya Tacheva, Yanitsa Zhelyazkova, Tatayna Vlaykova
Impulse Oscillometry is a reproducible assessment of airway resistance and reactance in well-controlled asthmatics and healthy controls

Lene Moelgaard Pedersen, Denmark, Helle Haagensen Andersen, M Mousa, N Mousa, Anne Sofie Bjerrum, Tina Skjold, Torben Smidt-Hansen, Hans Jürgen Hoffmann, Johannes Schmid

The Importance of Immature Platelet Fraction in Stable and Exacerbation Periods in COPD and its Relationship with Systemic Inflammation

Fatma Çiftci, Ankara, Turkey, Nasser Elmi Absieh, Aslıhan Gürün Kaya, Miraç Öz, Özlem Doğan, Serhat Erül, Aydın Çiledağ, Akin Kaya

Randomised, double-blind, placebo-controlled study to assess long-term effect of dupilumab on prevention of lung function decline (LFD) in patients with uncontrolled moderate-to-severe asthma: ATLAS trial

Ian Douglas Pavord, Oxford (Oxfordshire), United Kingdom, Lucia De Prado Gomez, William Busse, Christopher E Brightling, Michael E Wechsler, Klaus F Rabe, Mei Zhang, Jun Xing, Juby A Jacob-Nara, Paul J Rowe

Diagnosis and management of Eosinophilic Granulomatosis With Polyangiitis: Perspective from the Severe Asthma Clinic

Youxin Puan, Singapore, Singapore, Pei Yee Tiew, Kheng Yong Ong, Mariko Siyue Koh

Association between nasal polyposis and T2 airway inflammation in severe asthma

Zsolt Vastag, Romania, Emanuela Tudorache, Noemi Suppini, Cristian Oancea, Ovidiu Fira-Mladinescu

Bronchocstriction status affects FENO values in asthma patients

Maud Akset, (Forest, Belgium), Alain Van Muylem, Amaryllis Haccuria, Silvia Perez Bogerd, Andrei Malinovschi, Alain Michils

A tool to facilitate spirometry quality control assessment using 2019 standards

Marko Topalovic, Kessel-lo, Belgium, Brian Graham, Sanja Stanojevic, Massimo Corradi, Eva Topole, Sonia Biondaro, Isabella Montagna, Sandrine Corre, Nilakash Das

Is chronic cough an additional marker for lung function decline?


The evaluation of Exercise Induced Laryngeal Obstruction (EILO) performed by inexperienced physicians

Petter Carlsen, Norway, Praveen Muralitharan, Maria Vollsetera, Ida Jansrud Hammer, Thomas Halvorsen, Ola Orange Røksund, Hege Sunnøve Havstad Clemm

Comparison of lung function among middle-aged and elderly asthma, chronic obstructive pulmonary disease and asthma-COPD overlap:A 4-year large sample single-center retrospective study

Hu Gan, Guangzhou, China, Zheng Zhe, Yi Gao, Xin Xin Yu, Xiang Qin Hou, Baoqing Sun

A putative link between pertussis and gastroesophageal reflux with high rates of pulmonary aspiration.

Gregory Falk, Lindfield, Australia, Leticia Burton, Daminda Weerasinghe, Hans Van Der Wall

A Service Evaluation of the Multidisciplinary Diagnostic Centre – a novel service for early detection of cancer in patients presenting with non-specific symptoms

Louise Jordon, London, United Kingdom, Ritesh Kumar, Rebecca Coles, Julie Deacon, Thida Win

Different clinical symptom patterns in patients with reflux micro-aspiration confirmed by new pulmonary aspiration scintigraphy technique

Gregory Falk, Lindfield, Australia, Oleksandr Khoma, Jin-Soo Park, Felix Lee, Hans Van Der Wall

Investigating the Prevalence of Oesophageal Dysmotility in Patients with Refractory Chronic Cough

Dominic Sykes, Hull, United Kingdom, Michael G Crooks, Simon P Hart, Warren Jackson, John Gallagher, Alyn H Morice

Impact of breathlessness on quality of life and healthcare use in Australia

Anthony Paulo Sunjaya, Sydney, Australia, Leanne Poulos, Gian Luca Di Tanna, Guy Marks, Helen Reddel, Christine Jenkins
Laryngeal findings during exercise in Healthy Athletes
Petter Carlsten (, Norway), Praveen Muralitharan, Maria Vollassøe, Mette Engan, Ida Jansrud Hammer, Thomas Halvorsen, Ola Drange Røksund, Hege Sunnøve Havstad Clemm

Swallowing dysfunction and decreased appetite in patients with chronic respiratory disease.
Ayumu Akiyama (Hamamatsu-shi, Japan), Shinichi Arizono, Yuichi Tawara, Yasuhiro Tsujimura, Tetsuo Hiramatsu

Structural features in chronic cough assessed by computed tomography (CT)
Hazim Abozid (Wien, Austria), Miranda Kirby , Sylvia Hartl, Robab Breyer- Kohansal , Marie-Kathrin Breyer, Otto C Burghuber , Jean Bourbeau , Emiel F M Wouters, Wan Tan On Behalf Of The Cancol Collaborative Research Group And The Canadian Respiratory Research Network

Obesity hypoventilation syndrome prevalence by stages of severity in obese population
delphine delaplace (Castries, France), Rozita Lorblanches, Nicolas Molinari, Bouziane Benhalima, Elena Ciomaga, Frederic Sanguignol, Abdelkebir Sabil, Mathieu Despeaux

Has the pandemic changed the test quality of the pulmonary function test laboratory?
Dorina Rama Esendagli (Ankara, Turkey), Eylem Gul, Aylin Oszancak, Sule Akcay, Gaye Ulubay

Diaphragm ultrasound and respiratory functional test: a combined approach in amyotrophic lateral sclerosis
Fausta Viccaro (Roma, Italy), Letizia D'Antoni, Antonella Sotgiu, Krisstoffer Richard Flores, Ernesto Di Biase, Mariaelisabetta Cardini, Paolo Palange

Validation of a small cough detector in the clinic
Christian F. Clarenbach (Zürich, Switzerland), Manuel Kuhn, Elif Nalbant, Dario Kohlbrenner, Mitja Agle, Alexandra Arvji, Noriane Sievi, Erich W. Russi

Unexplained dyspnea by cardiopulmonary exercise test
Katiuska Herminia Liendo Martinez (Madrid, Spain), Walther Ivan Girón Matute, Julia Garcia De Pedro , Ji Zichen, Luis Puente Maestu, Paola Antonella Benedetti

Comorbidities in patients with Obstructive Sleep Apnea syndrome (OSAS) in Réunion Island.
Bashir Omarjee (Saint-Denis (La Réunion), Reunion), Suren Budhan, Christian Kichenin, Asma Omarjee, Jean François Vellin

Children’s united airways clinic – evaluation & carer satisfaction of a UK Regional joint ENT-Respiratory clinic.
Matthew Hurley (Nottingham, United Kingdom), Isabelle Sheeran, Rachel Gregory, Rebecca Devaney, Mat Daniel

Feasibility of an asthma app to monitor inhaler adherence in primary care: a 4-month prospective multicentre study

Experiences of home-monitoring in patients with Interstitial Lung Disease (ILD): An exploratory, qualitative study
Jessica Mandizha (Exeter, United Kingdom), Michael Gibbons, Sarah Lines, Graham Brown, Ana Jorge Da Ponte, Anna Duckworth, Rebecca Shuttleworth, Matthew Steward, Chris Scotton, Maureen Cosby, Alexander Berry, Anne-Marie Russell

TP-3 Session 08:30 - 09:30
Thematic poster: Remote monitoring and self-management of respiratory patients

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

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

Chairs : Esther I. Metting (Groningen, Netherlands), Paula Maria Gonçalves Pinto (Lisboa, Portugal)
Improved outcomes with use of the LenusCOPD digital service in the DYNAMIC-SCOT study
Anna Taylor (Glasgow, United Kingdom), Morgan Dow, Andrew Cushing, David Lowe, Paul Mcginness, Chris Carlin

Daily heart rate characteristics, allergy symptom severity and mood in adults with allergic rhinitis
Joren Buekers (Barcelona, Spain), Michiel Stas, Raf Aerts, Nicolas Bruffaerts, Sebastien Dujardin, An Van Nieuwenhuyse, Jos Van Orshoven, Guillaume Chevance, Ben Somers, Jean-Marie Aerts, Judith Garcia-Aymerich

The interest of telemonitoring on treatment abandonment in patients with home noninvasive ventilation: the O’telo observation study.
Raphaël Le Mao (Brest, France), Joelle Texereau, Frederique Kremer, Mathieu Rose, Christophe Gut Gobert

Effectiveness of a reliever-based Digital System on asthma control
Flavia Hoyte (Denver, United States), Giselle Mosnaim, Linda Rogers, Guilherme Safioti, Randall Brown, Thomas Li, Michael Depietro, Michael Reich, Tanisha Hill, Michael Wechsler

Data from a reliever-based Digital System supports patient-clinician interactions in asthma
Flavia Hoyte (Denver, United States), Giselle Mosnaim, Linda Rogers, Guilherme Safioti, Randall Brown, Thomas Li, Michael Depietro, Michael Reich, Tanisha Hill, Michael Wechsler

Is daily home spirometry feasible in remote monitoring of interstitial lung disease?
Colin Edwards (Dublin, Ireland), Sarah Barth, Gauri Saini, Yussef Haider, Nicholas Williams, William Storrar, Iain Stewart, Gisli Jenkins, Melissa Wickremasinghe

Using digital technology for home monitoring in children and adolescents with cystic fibrosis
Daniela Savi (Rome, Italy), Valeria Raia, Antonella Tosco, Angela Sepe, Raffaele Cerchione, Giulia Borgia, Camilla Romano, Antonio Di Pasqua, Paolo Buonpensiero

Health status progression measured using weekly COPD Assessment Test (CAT) scores over 1 year and its association with COPD exacerbations
Paul Jones (London, United Kingdom), Toru Soutome, Taizo Matsuki, Masahiro Shinoda, Osamu Hataji, Motohiko Miura, Masaharu Kinoshita, Akira Mizoo, Kazunori Tobino, Takanobu Nishi, Takeo Ishii, Yoko Shibata

Views on features of an ‘app’ to support asthma self-management among Malaysian adults with limited health literacy: a feasibility study
Ee Ming Khoo (Kuala Lumpur, Malaysia), Ai Theng Cheong, Shariff Ghazali Sazlina, Ping Yein Lee, Hani Salim, Noor Harzana Harrun, Bee Kiu Ho, Sabliah Mohamad Isa, Norita Hussein, Nik Sherina Hanafi, Hilary Pinnock

Accuracy of a wearable device for assessing sedentary behavior in Chronic Obstructive Pulmonary Disease
Wade Michaelchuk (Toronto, Canada), Roger Goldstein, Dina Brooks

Home monitoring for patients on biologic asthma therapies – are patients up for it?
Hitasha Rupani (Southampton, United Kingdom), James Rose, Nichola Cookson, Alexandra Nanzer, Gemma Hayes, Dominic Shaw, Yik Lam Pang, Grainne D’Ancona

Improving symptom perception in asthmatic children: a pilot study using feedback on home-monitoring measurements
Ingrid de Bekker (Enschede, Netherlands), Mattiènne Van Der Kamp, Job Van Der Palen, Anke Lenferink, Boony Thio

Results from a test of change project using the MyCOPD app with pulmonary rehabilitation patients
Nicola J. Roberts (Edinburgh, United Kingdom), Susan McNarry, Elizabeth Payne, Gourab Choudhury

Wearable lung monitoring device with integrated non-invasive chest imaging and sound recording: a clinical validation study
Inez Frerichs (Kiel, Germany), Josias Wacker, Rita Paradiso, Vassilis Kilintzis, Bruno M. Rocha, Fabian Braun, Michæl Rapin, Laura Caldani, Nikolaos Beredimas, Romanos Trechlis, Claas Strothetaff, Rui P. Paiva, Nikolaos Maglaveras, Norbert Weier

Measuring adherence to inhaled control medication in patients with asthma: comparison among an asthma app, patient self-report and physician assessment
Afonso Cachim (?), Ana Margarida Pereira, Rute Almeida, Rita Amaral, Magna Alves-Correia, Pedro Vieira-Marques, João Almeida Fonseca, Cristina Isabel Oliveira Jaconme

Mobile application to prepare the ALS patient and clinical specialist for the first consultation on home mechanical ventilation
Sander Steijns (Margraten, Netherlands), Marijke Rutten

Late Breaking Abstract - Validation of a novel wearable monitoring patch for continuous respiratory monitoring
Roberto Garcia Van Der Westen, John Fredy Morales, Gabriela Yordanova, Willemijn Groenendaal, Carlos Agell
Thematic poster: Non-PAH pulmonary hypertension

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

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

**Chairs:** Stéphanie Saxer (Zürich, Switzerland), Gabor Kovacs (Graz, Austria)

**Study of a novel hypoxia system to evaluate endothelial cell dysfunction in chronic thromboembolic pulmonary hypertension (CTEPH)**
Ylenia Roger (Barcelona, Spain), Isaac Almendros, Esther Marhuenda, Adelaida Bosacoma, Anna Sardiné, Àngela Vea, Ana Ramírez, Victor I. Peinado, Isabel Blanco, Manuel Castellá, Joan A. Barberà, Olga Turá

**MicroRNA expression in Chronic Thromboembolic Pulmonary Hypertension**
Isabelle Opitz (Zurich, Switzerland), Theodorus Papasotiropoulos, Itzel S. Martinez López, Fabian Schläpfer, Silvia Ulrich, Michaela B Kirschner

**Pulmonary Hypertension (PH) due to Pulmonary Embolism (PE) secondary to COVID19 – A District General Hospital (DGH) experience from the UK**
Noor Mahdi (London, United Kingdom), Iftikhar Nadeem, Masood Ur Rasool, Stephanie Radoja, Faisal Rashad, Anoop Babu

**Balloon pulmonary angioplasty for chronic thromboembolic pulmonary hypertension improves sleep-disordered breathing**
Klaus Hackner (Krems, Austria), Christian Gerges, Sophia Bauer, Meinhard Kneussl, Peter Errhalt, Shahrokh Javaheri, Irene Marthe Lang

**Right atrial pressure to pulmonary artery wedge pressure ratio in chronic thromboembolic pulmonary hypertension**
Athiththan Yogeswaran (Giessen, Germany), Khodr Tello, Samuel J. Kaufmann, Natascha Sommer, Zvonimir Rako, Hossein A. Ghofrani, Werner Seeger, Manuel J Richter, Henning Gall

**Carbon dioxide and alveolar dead space as prognostic markers for pulmonary endarterectomy patients**
Isabelle Opitz (Zurich, Switzerland), Katarzyna Furrer, Jan Welsch, Dominique Bettx, Thomas Horisberger, Ilhan Inci, Reto Schuepbach, Michaela B. Kirschner, Silvia Ulrich, Alessandra Matter

**Pulmonary thromboendarterectomy after COVID-19 infection: USA single center experience**
Angela Bautista (La Jolla, United States), Michael Madani, Victor Pretorius, Jenny Yang, Timothy Fernandes, Demosthenes Papamatheakis, David Poch, Kim Kerr, Nick Hyong Kim

**Medical bridging therapy before pulmonary endarterectomy?**
Joanna Pepke-Zaba (Cambridge, United Kingdom), David P. Jenkins, Elie Fadel, Gérard Simonneau, Nick H. Kim, Michael M. Madani, Hiroini Matsabura, Marion Delcroix, Irene M. Lang, Eckhard Mayer

**Evaluation of chronic thromboembolic pulmonary hypertension: a pilot-study**
Barbara Ruaro (Trieste, Italy), Paola Confalonieri, Gaetano Caforio, Chiara Torregiani, Pietro Geri, Riccardo Pozzan, Silvia Pichierri, Marco Confalonieri, Francesco Salton

**Remodeling of small airways and their associated vasculature is a hallmark of Idiopathic Pulmonary Fibrosis.**
Andres Moran-MacDonald (Vancouver, Canada), Keith Wu, Kohei Ikezoe, Stacey Ledoux, Joel Cooper, Jim Hogg, Dragos Vasilescu, Tillie Hackett

**Acute vasoreactivity in WSPH Group-3 pulmonary hypertension and relation to inhaled treprostinil response**
Eileen Harder (Boston, United States), David Systrom, Aaron Waxman

**Clinical phenotypes and outcomes of severe pulmonary hypertension associated with chronic obstructive pulmonary disease**
Alexandre Diaz (Saint Etienne, France), David Montani, Samy Chelabi, Xavier Jais, Laurent Savale, Marios Froudarakis, Souad Bezzeghoud, Athénais Boucly, Mitja Jevnikar, Olivier Sitbon, Laurent Bertolletti, Marc Humbert

**Recognition of early pulmonary structural changes with real-time high fidelity exploratory CO2 analysis**
Teresa Sassmann (Graz, Austria), Michael Pienn, Gabor Kovacs, Philipp Douschan, Vasile Foris, Nikolaus John, Katarina Zeder, Andreas Zirlik, Horst Olschewski

**Efficacy of Digoxin in isolated Right ventricular Dysfunction due to Chronic Pulmonary Diseases**
Sudarsan Pothal (Puri, India), Narendra Tengli, Nayan Patel, Aurobindo Behera

**Hemodynamic mechanisms in patients with pulmonary hypertension and chronic obstructive pulmonary disease: a retrospective monocentric cohort study**
Pierre Thore (Nancy, France), Jean Staentzel, Simon Valentin, Anne Guillaume, Christine Selton-Suty, Emmanuel Gomez, François Chabot, Ari Chaouat
Pulmonary Vascular Calcification As A Pathomechanism In Pulmonary Hypertension Due To Left Heart Disease
Shao-Fei Liu (Berlin, Germany), Mariya M. Kucherenko, Pengchao Sang, Quihua Li, Juquan Yao, Netra Nambiar Veetil, Tara Gransar, Ioana Alesutan, Jakob Voelk, Christoph Knoailla, Wolfgang M. Kuebler

Right ventricle – pulmonary artery coupling is a risk factor for mortality in patients with pulmonary hypertension associated with heart failure and preserved ejection fraction
Saleh Nazzal (Nahef, Israel), Shemy Carasso, Claudia Simsolo, Marwan Amara, Yochai Adir

The effect of parenchymal lung disease on patient characteristics and outcome in SSc-PH: Insights from the ASPIRE registry
Robin Condliffe (Sheffield (South Yorkshire), United Kingdom), Ashraful Haque, Krit Divvedi, Robert Lewis, Athanasios Charalampopoulos, Charlie Elliot, Abdul Hameed, Neil Hamilton, Sheila Ramjug, Alex Rothman, Andy Swift, Roger Thompson, David Kiely

Pulmonary hypertension and ECG synchronized CT scan for pulmonary artery pulsatility calculation in pre-TAVI patients and prognostic significance
Yochai Adir (Haifa, Israel), Johad Khoury, Ibrahim Naoum, Yuval Shachaf, Magdi Qdah, Ronin Yaffi

Right ventricular myocardial dysfunction in patients (pts) after severe coronavirus disease (COVID-19)
Oleksandr Fesenko (Slobozhanske, Ukraine), Lada Siabro, Kseniia Bielosludtseva

TP-23  Session 08:30 - 09:30
Thematic poster: New tools for the diagnosis of interstitial lung diseases

Disease(s) : Interstitial lung diseases
Method(s) : General respiratory patient care  Physiology  Public health  Respiratory intensive care  Epidemiology  Pulmonary function testing  Imaging  Palliative care  Pulmonary rehabilitation  Cell and molecular biology

Chairs : Yet Hong Khor (Melbourne (VIC), Australia), Stéphane Jouneau (Rennes Cedex, France)

6-minute walk test in fibrotic interstitial lung disease (ILD)
Yet Hong Khor (Melbourne (VIC), Australia), Kerri A Johansson, Veronica Marcoux, Jolene H Fisher, Deborah Assayag, Nasreen Khalil, Julie Morisset, Martin Kolb, Christopher J Ryerson

A modified blood cell GAP (cGAP) to prognosticate outcomes in IPF
Michael Kreuter (Heidelberg, Germany), Joyce S Lee, Argyrios Tzouvelekis, Justin M Oldham, Philip I Molyneaux, Derek Weycker, Mark Atwood, Klaus-Uwe Kirchgässler, Toby M Maher

Evaluation of home monitoring for patients with interstitial lung disease during the COVID-19 pandemic
Gizal Nakshbandi (Barendrecht, Netherlands), Karen Moor, Adriane D.M. Vorselaars, Marlies S. Wijsenbeek

Digital device usage for home-monitoring in interstitial lung disease [ILD]:mixed-method survey
Rebecca Shuttleworth (Exeter, United Kingdom), Malik Althobiani, Anna Duckworth, John Conway, Johnathan Dainton, Sarah Lines, Jessica Mandizha, Ana Jorge Da Ponte, Chris Scotton, Michael Gibbons, Anne-Marie Russell

Remote Early Identification of Disease Progression in Connective Tissue Disease related Interstitial Lung Disease (CTD-ILD) using Digital Patient Empowered Monitoring
Wan Lin Ng (Dublin, Ireland), Rebecca O'Farrell, Anja Schweikert, Donough Howard, Laura Durcan, Killian Hurley

Interstitial Lung Diseases Virtual Clinics: a novel medical education method during pandemic times
Brenda Elena Varela (Ciudad Autóñoma Buenos Aires, Argentina), Gabriela Claudia Tabaj, Lucas Sheridan

The Brainomix automated e-ILD CT algorithm outperforms forced vital capacity in predicting outcomes for patients with idiopathic pulmonary fibrosis
Peter George (London, United Kingdom), Christian Rennison-Jones, Stephen Gerry, Gauri Gupta, Olivier Joly, Eric Greveson, George Harston, Anand Devaraj

Reticulation is associated with the risk of disease progression in interstitial lung diseases
Minna Mononen (Kuopio, Finland), Eeva Saari, Hannele Hasala, Hannu-Pekka Kettunen, Sanna Suoranta, Hanna Nurmi, Jukka Randell, Jari Laurikka, Toomas Uib, Miia Kärkkäinen, Tuomas Selanders, Helkki Koskela, Riitta Kaarteenaho, Minna Purokivi

Characterization of Idiopathic Pulmonary Fibrosis (IPF) and Combined Pulmonary Fibrosis and Emphysema (CPFE) using Respiratory Oscillometry
Joyce Wu (Richmond Hill, Canada), Jessica Jia-Ni Xu, Cynthia Nohra, Anastasia Vasileva, William Matthew Binnie, Shane Shapera, Jolene Fisher, Clodagh Ryan, Micheal Mcinnis, Zoltan Hantos, Chung-Wai Chow
Preliminary data of the risk stratification score (RISE) prospective, multi-centre, 3-year, validation trial in idiopathic pulmonary fibrosis.
Gian Marco Manzetti (Marino, Italy), Karishma Hosein, Matthew J Cecchini, Keith Kwan, Mohamed Abdelrazek, Maurizio Zompatori, Paola Rogliani, Marco Mara

Can FDG-PET/CT imaging be used to prognosticate in Interstitial Lung Disease? A prospective study of the relationship between FDG-PET/CT measurements and quality of life.
Ifitkhar Nadeem (BEDFORD, United Kingdom), Louise Jordon, Balaji Ganeshan, Luke Hoy, Noor Mahdi, Joanna Porter, Ashley Groves, Thida Win

Interstitial lung abnormality evaluated by automated quantification system: prevalence and progression rate
Ju hyun Oh, Grace Hyun J. Kim, Jin Woo Song

Pleuroparenchymal fibroelastosis impact in Idiopathic Pulmonary Fibrosis outcomes
Nuno Faria (Porto, Portugal), Sara Dias, Miguel Silva, Diogo Carvalho, André Carvalho, Patrícia Caetano Mota, Natália Melo, Hélder Novais Bastos, André Terras Alexandre, Conceição Souto Moura, Susana Guimarães, Oksana Sokhatska, Rui Cunha, José Miguel Pereira, António Morais

Coexistence of pleuroparenchymal fibroelastosis and hypersensitivity pneumonitis – analysis of prognostic impact
Sara Catarina Dias (Braga, Portugal), Nuno Faria, Miguel Silva, Diogo Carvalho, André Carvalho, Patrícia Caetano Mota, Natália Melo, Hélder Novais-Bastos, André Terras Alexandre, Conceição Souto Moura, Susana Guimarães, Oksana Sokhatska, Rui Cunha, José Miguel Pereira, António Morais

Microbiology profile of BAL in interstitial lung disease patients
Erik Palmer (Eger, Hungary), Alexandra Nagy, Tamás Nagy, Nora Toth, Lorinc Polivka, Krisztina Vincze, Noemi Eszes, Aniko Bohacs, Veronika Müller

Cardiopulmonary Exercise Test Could Provide Prognostic Value of 1-year Mortality in Patients with Newly Diagnosed Idiopathic Pulmonary Fibrosis: A Real-World Experience
Pin-Kuei Fu (Taichung, Taiwan), Yuan-Yang Cheng

Fibroblast activation protein and disease severity, progression and survival in IPF
Thomas Skovhus Prior (Gåe, Denmark), Nils Hoyer, Jesper Rømhild Davidsen, Saher Burhan Shaker, Bent Winding Deleuran, Elisabeth Bendstrup, Tue Wenzel Kragstrup

Late Breaking Abstract - Transcriptomic differences in lung apices and bases in idiopathic pulmonary fibrosis (IPF)
Nick Wilson (Parkville, Australia), Mae Wong, Cristina Gamell, Monther Alhamdoosh, Laura Mcmillan, Martin Staempfli, Glen Westall, Jade Jaffar

Late Breaking Abstract - Blood neutrophil levels in IPF patients are significantly associated with quantitative radiological progression
Andrew Achaiah (Oxford, United Kingdom), Emily Fraser, Peter Saunders, Rachel Hoyles, Rachel Benamore, Ling-Wei Ho

Late Breaking Abstract - Data-driven multivariate cohort selection and automated CT scan lung volume measurement identifies disease progression in Idiopathic Pulmonary Fibrosis (IPF)
Harry Manners, Tom Mclellan, Kiril Kirov, Mike Roberts, Fahdi Kanavati, Gordon Mckenzie, Darren Gallagher, James Hainsworth, Davinder Dosanjh, Phil Molyneaux, Alessandro Ruggiero, Muhunthan Thillai

TP-16 Session 08:30 - 09:30
Thematic poster: Respiratory care in neonatal and paediatric intensive care units

Thematic poster: Respiratory care in neonatal and paediatric intensive care units

Bedside lung function monitoring in preterm infants by oscillatory mechanics and lung ultrasound
Emanuela Zannin (Milano (MI), Italy), Camilla Rigotti, Cattaneo Federico, Abedurhmam Abdelfattah, Maria Luisa Ventura

Non-invasive low-frequency oscillatory mechanics in newborn infants
Sotiros Fouzas (Patras, Greece), Panoraia - Maria Iliopoulou, Gabriel Dimitriou

Telomere length in preterm-born children with bronchopulmonary dysplasia (BPD)
Ella Kotecha (Cardiff, United Kingdom), Lei Zhang, Ali Aboklaish, Michael Cousins, Kylie Hart, Sarah Kotecha, W John Watkins, Sailesh Kotecha

Azithromycin resistance in the stool of preterm infants at risk of chronic lung disease of prematurity (CLD)
Chris Course (Cardiff, United Kingdom), David Gallacher, Ali Aboklaish, Lei Zhang, Julian Marchesi, Sailesh Kotecha
Lung clearance index using a novel washout device is elevated in premature infants
Claire Nissenbaum (Manchester, United Kingdom), Anna Shawcross, Catherine Fullwood, Ajit Mahaveer, Clare S Murray, Alexander Horsley

Oscillometry and mean airway pressure (MAP) titration in extremely preterm infants
Beatrice Bonomi (Milan, Italy), Tobias Werther, Chiara Veneroni, Erik Kueng, Raffaele Dellacà

Non-invasive Neuraly Adjust Ventilatory Assist (NIV-NAVA) versus Nasal Intermittent Positive Pressure Ventilation (NIPPV) at equivalent Peak Inspiratory Pressure (PIP) in preterm infants: a randomized cross-over trial.
Anna Lavizzari (Milano (MI), Italy), Chiara Veneroni, Nicole Sirianni, Beatrice Bonomi, Chakib Boudjellal, Mariarosario Colnaghi, Fabio Mosca, Raffaele L Dellacà

Estimation of the alveolar surface area using functional morphometry in extremely preterm infants
Emma Williams (London, United Kingdom), Mahesh Nanjundappa, Grace Okoye, Raghu Subba-Rao, Anne Greenough, Theodore Dassios

National survey of closed-loop automated oxygen control systems in neonatal intensive care units.
Ourania Kaltsoigianni (London, United Kingdom), Theodore Dassios, Rayhan Belbal, Anne Greenough

Response to added deadspace in infants exposed to second-hand smoke in pregnancy
Ourania Kaltsoigianni (London, United Kingdom), Nadja Bednarczuk, Emma Williams, Rebecca Lee, Ravindra Bhat, Theodore Dassios, Anne Greenough

Lung biopsy in neonates needing extracorporeal membrane oxygenation for undiagnosed recalcitrant pulmonary hypertension: survey of current practice
John King (London, United Kingdom), Maura O'Callaghan, Timothy Thiruchelvam, Ajay Desai, Andrew Bush, Samatha Sonnappa

Use it or lose it! A multidisciplinary protocol for early speaking valve use in children with tracheostomy
Sammy Reed (London, United Kingdom), Brenda Carty, Suren Thavagnanam, Muna Dahabreh, Nara Orban, Tincy Abraham, Emma Bould, Sarah Brown, Tincy Abraham, Emma Bould, Sarah Brown, Chinedu Nwokoro, Tash Roberts

Effect of skin-to-skin contact (SSC) on respiratory parameters in premature infants with bronchopulmonary dysplasia (BPD)
Ana Serrano-Llop (London, United Kingdom), Laura De-Rooy, Peter Cornelaud, Donovan Duffy, Anay Kulkarni, Sandeep Shetty

Early Mobilization Program in a Pediatric Intensive Care Unit
Esther Garcia Delgado (Madrid, Spain), Elsa Sanchez Ezquerra, Esther Tores Garcia, Sergio Moran Arribas, Patricia Herrera Monge, Alejandra Daza Diaz, Margarita Protero Diaz, Alicia Rodriguez Martin, Sofia Garcia De Las Peñas, Olga Ordoñez Saez, Victoria Ramos Casado, Maria Hernandez Gil, Esther Lopez Sanchez, Gema Prieto Arroyo

Pulmonary complications after liver transplantation in children
Gizem Özcan (Ankara, Turkey), Ceyda Tuna Kirsacioglou, Fazilcan Zirek, Merve Nur Tekin, Hasan Ozen, Tanil Kendirli, Meltem Kologlu, Zarihe Kologlu, Nazan Cobanoglu

The influence of sex on the outcomes of premature infants receiving postnatal corticosteroids
Ourania Kaltsoigianni (London, United Kingdom), Rebecca Lee, Emily Kostina, Christopher Harris, Theodore Dassios, Anne Greenough

Endoscopic treatment of tracheoesophageal fistula: new perspective towards replacement of surgical repair
Loraine Fabri (Bruxelles, Belgium), Laurence Hanssens, Henri Steyaert, Nicolas Lefèvre

Late Breaking Abstract - Effect of cannula size on oxygen saturation during nasal high flow therapy in newborns
Pavel Mazmanyan (Yerevan, Armenia), Ella Mirzoyan, Maximilian Pinkham, Stanislav Tatkov

Late Breaking Abstract - COVID-19 in patients diagnosed with persistent tachypnea of infancy
Honorata Marczak (Warszawa, Poland), Katarzyna Krenke, Joanna Lange, Stanislaw Boguslawski

**TP-10 Session 08:30 - 09:30**

**Thematic poster: In vivo and in vitro studies of airway diseases**

- **Disease(s):** Airway diseases, Interstitial lung disease, Respiratory critical care
- **Method(s):** Cell and molecular biology, Physiology, General respiratory patient care, Imaging
- **Chairs:** Lena Uller (Lund, Sweden), Andrew Higham (Manchester (Greater Manchester), United Kingdom)

**Cysteinyl-maresin 3 inhibits IL-13 induced airway hyperreactivity through alternative activation of the CysLT1 receptor**
Jesper Säfholm (Solna, Sweden), Willem Abma, Craig E. Wheelock, Sven-Erik Dahlén, Mikael Adner
Features of rhinovirus-induced exacerbation of HDM-challenged mice
Sofia Tillgren (Ramlsöa, Sweden), Samuel Cerps, Mandy Menzel, Irma Mahmutovic Persson, Juan José Nieto Fontarigo, Hamid Akbarshahi, Lena Uller

The anti-inflammatory and antifibrotic effects of a novel, pan-phosphodiesterase inhibitor in murine model of allergic asthma
Katarzyna Wójcik-Pszczoła (Kraków, Poland), Krzysztof Pociecha, Elżbieta Wyska, Grażyna Chłoń-Rzępa, Hanna Plutecka, Monika Zadrożna, Barbara Nowak, Paulina Koczurkiewicz-Adamczyk, Elżbieta Pękala, Reinoord Gosens

Inhaled NXP002 attenuates LPS-induced inflammatory and fibrotic mediator production in the rat lung
Bob Humphries (Aachen, Germany), Mark Saunders, Simon Cruwys

Anti-fibrotic effect and in vivo target engagement of Nintedanib administered by oral gavage or by a medicated diet in a bleomycin lung fibrosis model in the rat
Marcello Trevisani (Parma, Italy), Paola Caruso, Vanessa Pitozzi, Silvia Pontis, Maria Gloria Pittelli, Martina Bonatti, Gino Villetti, Maurizio Civelli

The differential synergistic injurious effect of resistive breathing on pulmonary and extra-pulmonary lung injury
Dimitrios Toumpanakis (Athens, Greece), Konstantinos Glynos, Vryonia Vassilakopoulou, Athanasiia Chatzianastasiou, Eleftheria Mizi, Maria Dettoraki, Foúsi Perlikos, Christina Magkou, Andreas Papapetropoulos, Theodoros Vassilakopoulos

Sphingosine-1-phosphate signaling pathway drives female asthma susceptibility
Elisabetta Granato (Naples, Italy), Ida Cerqua, Rosalinda Sorrentino, Giusy Ferraro, Maria Francesca Nani, Antonietta Rossi, Giuseppe Cirino, Fiorentina Roviezzo

The role of PPAR- antagonism on losartan ameliorating effect on lung injury and systemic inflammation induced by LPS in mice
Mohammad Hossein Boskabady ( Mashhad, Islamic Republic of Iran), Vajiheh Rouki, Saeideh Saadat, Arghavan Memarzadeh, Hossein Salmani, Zahra Gholamnezad, Mahmoud Hosseini

A novel chronic guinea pig model of COPD using LPS and poly(I:C) exposure
Loes E. M. Kistemaker (Groningen, Netherlands), Margot De Looff, Vicky Verschut, Manon E. Woest, Iris C. Gorter, Kimberley S. Belfor, I. Sophie T. Bos, Marina H. de Jager, Reinoord Gosens, Gino Villetti, Fabrizio Facchinetti

Targeting the carboxypeptidase activity: a promising strategy for asthma treatment
Venkata Sita Rama Raju Allam (uppsala, Sweden), Sowsan Taha, Ida Waern, Francesc Xavier Avilés, Laurent Devel, Gunnar Pejler, Sara Wernersson

Extrafine triple therapy shows improved efficacy compared to ICS/LABA in a mouse model of asthma
Daniela Migletta (Parma (PR), Italy), Anna Rita Pisano, Andrew Allen, Debora Fragni, Giuseppina Federico, Fabio Bignami, Enrico Zambelli, Riccardo Zecchi, Francesca Boscaro, Barbara Pioselli, Valentina Mileo, Maurizio Civelli, Gino Villetti

In vitro and ex-vivo evaluation of anti-inflammatory and anti-fibrotic effects of NXP002 in rat and human cells and lung tissue
Simon Cruwys (Aachen, Germany), Mark Saunders, Alastair Riddell, Bob Humphries

Association between dietary fibre, microbial metabolites and airway obstruction in COPD patients and murine models
Kurtis Budden (New Lambton Heights, Australia), Saima Firdous Rehman, Shakti Shukla, Kate Bowerman, Chantal Donovan, Henry Gomez, Charlotte Alemao, Lisa Wood, Paul Dennis, Philip Hugenholtz, Peter Wark, Philip Hansbro

LPS-challenged equine bronchi: evidence for IL-6 as a target against AHR
Luigino Calzetta (Roma (RM), Italy), Elena Piscocchini, Giuseppe Cito, Beatrice Ludovica Ritondo, Stefano Verri, Paola Rogliani

Effect of a nutraceutical drug in COPD condition: a pilot study of in vitro, in vivo and Clinical Trial
Bijay Ranjan Pattnaik (NEW DELHI, India), Naveen Bhatraju, Seetu Kashyap, Umashankar Verma, Karan Madan, Randeep Guleria, Anurag Agrawal, Anant Mohan

Exogenous HSP70 regulates the expression of glucocorticoid receptor in a cell type-specific manner
Liang Zhou (Basel, Switzerland), Lei Fang, Michael Tam, Michael Roth, Daiana Stolz

Lung inhalation-on-chip: A triple co-culture cellular platform to predict toxicity of aerosolized toxicants
Arunima Sengupta (Bern, Switzerland), Widad Hassan, Nuria Roldan, Janick Stucki, Tobias Krebs, Oliver Wisser, Nina Hobi, Olivier T Guenat

Phosphoinositide-3 kinase antagonism does not reverse steroid insensitivity in severe asthma
Anurag Bhalla (Toronto (ON), Canada), Kiho Son, Katherine Radford, Chymna Huang, Melanie Kjarsgaard, Manali Mukherjee, Parumeshwaran Nair
COPD pathogenesis is dependent on ferroptotic death of AT2 cells driven by pro-inflammatory Macrophages
Aicha Jeridi (München, Germany), Thomas M Conlon, Gizem Günes Günsel, Maria Novikova, Sebastian Doll, Niklas J Lang, Stijn E. Verleden, Markus Rehberg, Tobias Stöger, Herbert B. Schiller, Marcus Conrad, Ali Önder Yildirim

Bronchorelaxant effect of beclomethasone dipropionate in an ex vivo model of COPD exacerbation
Luigino Calzetta (Roma (RM), Italy), Paola Rogliani, Josuel Ora, Francesco Facciolo, Enrico Melis

Disease(s): Airway diseases, Respiratory critical care, Sleep and breathing disorders, Interstitial lung diseases
Method(s): Public health, Pulmonary rehabilitation, Respiratory intensive care, General respiratory patient care, Imaging, Physiology, Pulmonary function testing
Chairs: Rainer Gloeckl (Schoenau am Koenigssee, Germany)

AGE OF CLIMATERIC SYMPTOMS IS ASSOCIATED TO LOWER MAXIMAL INSPIRATORY PRESSURE
Ingrid Guerra Azevedo, Karina Hunter, Viviana Perez, Mayra Quintana, Kimberly Gavilán, Catherine Llancaleo, Maria Do Socorro Luna Cruz, Saionara Da Cámara, Alvaro Maciel

Determinants of respiratory muscle strength in adult bronchiectasis
Aylin Tanriverdi (Izmir, Turkey), Melike Mese, Buse Özkan Kahraman, Can Sevinç, Sema Savci

Eccentric diaphragmatic contractions during mechanical ventilation in critically ill patients
Antenor Rodrigues (Toronto, Canada), Michael C Sklar, L. Felipe Damiani, Irene Telias, Thomas Piraino, Laurent Brochard

Reference values for maximal dynamic inspiratory pressure in a healthy population
Vitor Souza (São Paulo, Brazil), José Neder, Luiz Nery, Priscila Sperandio

Can you learn to cough after having a stroke?
Natalia Dominguez Sanz (Burgos, Spain)

The comparison of the effects of inspiratory muscle training and diaphragmatic neuromuscular electrical stimulation on inspiratory muscle strength in mechanically ventilated patients.
Ali Yalman (Denizli, Turkey), Orcin Telli Atalay, Hulya Sungurtekin, Cansu Ozgen, Harun Taskin

The effects of inspiratory muscle training on respiratory muscle strength and diaphragm motion in patients with mechanical ventilator
Harun Taskin (Denizli, Turkey), Orçin Telli Atalay, Furkan Ufuk, Hulya Sungurtekin, Ali Yalman

Effects of counterpressure breathing with steam inhalation on lung function in stable asthma
Ilpo Kuronen (Tampere, Finland), Jukka Heinijoki, Anssi Sovijärvi

Timing of inspiratory muscle activity in patients with unilateral diaphragm dysfunction
Antenor Rodrigues (Toronto, Canada), Luc Janssens, Sauwaluk Dacha, Zafeiris Louvaris, Tin Gojevic, Wim Janssens, Laurent Brochard, Rik Gosselink, W. Darlene Reid, Daniel Langer

The accuracy of the Cuff Leak Test in neurocritical patients
RENATA CORREIA (Rio de Janeiro, Brazil), Iana Paes d’ Assumpção Vital, Alexandre Rosa Da Silva, Clara Harazim Gaspari, Camila Afonso Badaró Marques

The experiences and perceptions of mechanical insufflation-exsufflation in people with amyotrophic lateral sclerosis
Shauna Sheridan (London, United Kingdom), Joerg Steier, Phillip Marino, Shelley Srivastava, Eui-Sik Suh, Nicholas Hart, Patrick Murphy, Harriet Shannon, Leyla Osman, Georgios Kaltsakas, Michelle Ramsay

Community Non-Invasive Ventilation practitioner service utilisation for Motor Neurone Disease patients following the Covid-19 pandemic
Emily Johnstone (Bristol (Avon), United Kingdom), Gemma Cox, Dinesh Shrikrishna

A bench study to investigate the safety and performance of Simeox® for secretion clearance
Neeraj Shah (New Malden (Surrey), United Kingdom), Emeline Fresnel, Adrien Kerfourn, Laurent Morin, Patrick Murphy, Maxime Patout

Personalising airway clearance in PCD, exploring expert physiotherapist decision making.
Lynne Schofield (Leeds, United Kingdom), Sally Singh, Jim Wild, Daniel Hind

The use of nasopharyngeal and oropharyngeal suctioning in physiotherapy practice in the United Kingdom
Agnieszka Lewko (Coventry, United Kingdom), Stefan Tino Kulnik, Riyaz Koheelallee, Jack Whiteside
TP-13

Session 08:30 - 09:30

Thematic poster: Determinants, diagnosis and management of lung diseases in adults

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

**Method(s):** Public health, Pulmonary rehabilitation, Epidemiology, Physiology

**Chairs:** Sigrid Anna Vikjord (Levanger, Norway), Chair to be confirmed

### Air pollution exposure and prevalence of chronic respiratory diseases in Italy
Alessandro Marcon (Verona, Italy), Jessica Miozzi, Pierpaoio Marchetti, Francesca Locatelli, Leonardo Antonicelli, Sandra Baldacci, Salvatore Battaglia, Roberto Bono, Angel Corsico, Claudio Garigazzo, Sara Mai, Nicola Murgia, Pietro Pirin, Massimo Stafigo, Lorena Torroni, Giovanni Viegi, Giuseppe Verlato

### Epidemiology of COVID-19 in the Kingdom of Saudi Arabia: An Ecological Study
Mohammad Hussain Alyami (Najran, Saudi Arabia), Abdullah Naser, Hamad Alyami, Hasan Alwafi, Mohammed Orabi

### Tobacco use and its associated factors among undergraduate public health students in Kathmandu valley, Nepal
Sandesh Bhushal (Kathmandu, Nepal), Birendra Chand, Kiran Paudel, Tara Ballav Adhikari, Pranil Man Singh Pradhan, Sushan Man Shrestha

### Smoking and COPD – an exploratory overview in Brazil considering the prevalence of smoking, access to smoking cessation treatment, hospital admission and mortality from COPD. 2018 to 2020
Rafael Stelnach (São Paulo, Brazil), Telma Cassia Santos Nery, Setella Regina Martins, Naiara Santos Bispo

### Risk factors for breakthrough COVID19 in 15,800 UK adults after primary and booster doses of SARS-CoV-2 vaccines
Giulia Vivaldi (Romford, United Kingdom), David A. Jolliffe, Hayley Holt, Mohammad Talaei, Florence Tydeman, Seif O. Shaheen, Adrian R. Martineau

### Associations of low level air pollution and greenness with mortality in men and women. The Life-GAP project
Shanshan Xu (Bergen, Norway), Alessandro Marcon, Randi Jacobsen Bertelsen, Bryndis Benediktsdottir, Camilla Geels, Thorarinn Gislason, Joachim Heinrich, Mathias Holm, Christier Janson, Rain Jogi, Iana Markevych, Hans Orru, Anna Oudin, Lise Marie Frohn, Vivi Schlünssen, TorbenSigsgaard, Ane Johannessen

### Effects of Air Pollution in São Paulo on Asthma and COPD symptoms
Francine Maria Almeida (São Paulo, Brazil), Tiana Carla Lopes Moreira, Lucas Miranda Oliveira, Renato Fraga Righetti, Fernanda D. T. Q. Santos Lopes, Airlane P. Alencar, Thais Maud, Nelson Cruz Gouveia, Paulo Andrade Lotufo, Isabela Bensenor, Itamar Souza Santos, Iolanda Fátima L. C. Tibério

### Prognostic factors for COPD outcome - a nationwide cohort study
Anne Orholms Nielsen (Roskilde, Denmark), Ole Hilberg, Rikke Ibsen, Anders Løkke

### Lifestyle Changes and Exacerbation Frequency of COPD in Times of the Pandemic
Seda Tural Önsür (Istanbul, Turkey), Fatma Tokgöz Akyil, Sinem Sökücü, Hülya Abali, Elif Çayırlı, Neslihan Boyracı, Sedat Altn

### RELATIONSHIP BETWEEN EARLY MENARCHE AND RESPIRATORY MUSCULAR PRESSURES IN MIDDLE AGE AND OLDER WOMEN
Karina Hunter, Ingrid Guerra Azevedo, Viviana Perez, Mayra Quintana, Catherine Llancaleo, Kimberly Gavilán, Cristian Gomez, Maria Do Socorro Luna Cruz, Saionara Maria Aires Cámara

### The risk factors for tuberculosis in patients with psychiatric pathologies
Tatiana Osipov (Chisinau, Republic of Moldova), Evelina Lesnic, Eugeniu Cotelea, Alina Malic

### Determinants of pre-vaccination SARS-CoV-2 seropositivity: a population-based longitudinal study (COVIDENCE UK)
Mohammad Talaei Pashiri (London, United Kingdom), Sian Faustini, Hayley Holt, David A. Jolliffe, Giulia Vivaldi, Alex G Richter, Seif O Shaheen, Adrian R Martineau
RELATIONSHIP BETWEEN MATERNAL AGE OF FIRST BIRTH AND RESPIRATORY MUSCLE PRESSURES IN MIDDLE AGE AND OLDER WOMEN
Ingrid Guerra Azevedo, Karina Hunter, Saironara Maria Aires Câmara, Mayra Quintana, Kimberly Gavilán, Catherine Llancalcó, Maria Do Socorro Luna Cruz, Alvaro Campos Cavalcanti Maciel

Is the oral microbiota representative for the healthy bronchial microbiota?
Solveig Tangedal (Bergen, Norway), Rune Nielsen, Marianne Aanerud, Harald Wiker, Christine Drengenes, Gunnar Husebo, Kristel Knutsen, Sverre Lehmann, Tomas Eagan

Longitudinal association between healthy diet and change in asthma symptom in elderly women
Wassila Ait-hadad (Paris Cedex 13, France), Anna-Béatrice Courbié, Sébastien Chanoine, Orianne Dumas, Nasser Laouali, Nicole Lemoual, Benoît Gencina, Conor Macdonald, Valerie Siroux, Marie-Christine Boutron-Ruault, Raphaelle Varraso

Predictors of electronic cigarette use and its association with respiratory health and obesity in young adulthood in Sweden
Shanzina Sompa (Huddinge, Stockholm, Sweden), Anna Zettergren, Sandra Ekström, Swapna Upadhyay, Koustav Ganguly, Antonios Georgelis, Petter Ljungman, Göran Pershagen, Inger Kull, Erik Melén, Lena Palmberg, Anna Bergström

Inhaled Corticosteroids as a Risk Factor for Hospitalisation with Pneumonia in COPD Patients
Christian Philip Rønn (København Ø, Denmark), Pradeesh Sivapalan, Josefin Eklöf, Charlotte Suppli Ulrik, Jens-Ulrik Staehr Jensen

What are the Direct and Indirect costs of COPD in India?
Sapna Madas (Pune (Maharashtra), India), Jyoti Londhe, Kirti Mudliar, Kritika Powar, Nagesh Dhadge, Sanjay Gaikwad, Mahavir Modi, Balasheeb Pawar, Medha Bargaje, Gauri Godbole, Parag Khatakar, Yogesh Agrawal, Himanshu Pophale, Yuvaraj Badhe, Shahebrao Toke, Sundee Salv

Psychiatric side-effects of montelukast – a nationwide cohort study of 159 916 patients.
Alexander Jordan (Copenhagen N, Denmark), Louise Lindhardt Tonnesen, Josefien Eklöf, Pradeesh Sivapalan, Howraman Meteran, Charlotte Suppli Ulrik, Klaus Bonnelykke, Jens-Ulrik Staehr Jensen

Assessment of causal relationships between eosinophils and respiratory disease using Mendelian randomization
Martin D Tobin (Leicester, United Kingdom), Catherine John, Anna L Guyatt, Alexander T Williams, Nick Shrine, Nicola F Reeve, Ian Sayers, Ian P Hall, Louise V Wain, Nuala A Sheehan, Frank Dudbridge

TP-9 Session 08:30 - 09:30

Thematic poster: COPD clinical studies and exacerbations
Disease(s) : Airway diseases, Interstitial lung disease, Respiratory critical care, Sleep and breathing disorders
Method(s) : General respiratory patient care, Pulmonary function testing, Cell and molecular biology, Epidemiology, Physiology, Respiratory intensive care
Chairs : Alexander Mathioudakis (Stockport, United Kingdom), Chair to be confirmed

Digital spacer informed inhaler adherence education: the OUTERSPACE proof-of-concept study in COPD
Boudewijn Dierick (Groningen, Netherlands), Sandra Been Buck, Titia Klemmeier, Paul Hagedoorn, Susanne Van De Hei, Huib Kerstjens, Jan Willem Kocks, Tanja Zijp, Daan Touw, Job Van Boven

Mortality outcomes associated with oral corticosteroid use in patients with COPD
Gary Tse (Singapore, Singapore), David Price, Mona Bafadhel, Alberto Papi, Victoria Carter, Con Ariti, Jiandong Zhou, Derek Skinner, Xiao Xu, Hana Müllerová, Benjamin Emmanuel

Ventilation and tissue oxygenation patterns induced by LABA and LAMA in COPD patients
Silvia Perez Bogerd (Bruxelles, Belgium), Alain Van Myulem, Emilie Maufroy, Yasmina El Khoufi, Selim Zengin, Vitalie Faoro, Andrei Malinovschi, Alain Michils

Maintenance and reliever therapy with budesonide/formoterol versus fixed dose fluticasone/salmeterol in patients with COPD
Susan Muiser (Groningen, Netherlands), Kai Imkamp, Dianne Seigers, Nynke Halbersma, Judith Vonk, Bart Luijk, Gert-Jan Braunstahl, Jan Willem Van Den Berg, Bart-Jan Kroesen, Jan Willem Kocks, Irene Heijink, Helen Reddel, Huib Kerstjens, Maarten Van Den Berge

Effect of benralizumab on recurrent COPD exacerbations
Dave Singh (Manchester, United Kingdom), Gerard J Criner, Alvar Agusti, Mona Bafadhel, Johan Söderström, Gabriela Luporini Saraiva, Yue Song, Idiir Licaj, Maria Jison, Ubaldo J Martin, Ioannis Psallidas
Lack of Association between Inhaled Corticosteroid Use and the Risk of Future Exacerbation in Patients with GOLD Group A Chronic Obstructive Pulmonary Disease
Seong Yong Lim (Seoul, Republic of Korea), Hye Yun Park, Sun Hye Shin, Deog Kyeom Kim, Sang-Heon Kim, Tae Rim Shin, Ki-Suck Jung, Kwang Ha Yoo, Ki-Eun Hwang, Yong Suk Jo

Inhaled corticosteroids and the risk of new-onset arterial hypertension in patients with chronic obstructive pulmonary disease
Howraman Meteran (VALBY, Denmark), Pradeesh Sivapalan, Josefin Eklöf, Mohamad Isam Saeed, Alexander Jordan, Jens-Ulrik Jensen

Sufficient inspiratory effort for a Dry Powder Inhaler - do we have to measure it, or can we observe it? Post hoc analysis of the PIFotal study
Lars Dijk (Groningen, Netherlands), Marika Leving, Sinthia Bosnic-Anticevich, Joyce Van Cooten, Jaime Correia De Sousa, Biljana Cvetcovski, Richard Dekhuijzen, Marina Garcia Pardo, Asparuh Gardev, Radoslaw Gawlik, Iris Van Der Ham, Ymke Jansen, Federico Lavorini, Tiago Maricoto, Jiska Meijer, Boyd Metz, David Price, Miguel Roman Rodriguez, Kirsten Schuttel, Niloq Stoker, Ioanna Tsiligianni, Omar Usmani, Janwillem Kocks

Risk for exacerbation, hospitalization and mortality in Global Initiative for Chronic Obstructive Lung Disease group B patients with and without exacerbations: a cohort study
Lowie E.G.W. Vanfleteren (Gothenburg, Sweden), Linnea Holmstrand, Anne Lindberg, Caddie Zhou, Fredrik Nyberg, Caroline Stridsman

Recombinant AAT-Fc fusion protein INBRX-101 achieves normal serum AAT levels in patients with alpha-1 antitrypsin deficiency (AATD)
Andrew Veale (Auckland, New Zealand), Humam Farah, Ravi Mahadeva, Michelle Baker, Brooks Kuhn, Alexandra Cole, Catherina Chang, Cynthia Brown, Michael Campos, James Kalabus, Terri Boyea, Carson Veldstra, Vasily Andrianov, Sharvari Bhagwat, Brendan P Eckelman, Jorge Loscano, Mark Brantly

Efficacy and safety of ICS/LABA/LAMA FDCs in COPD: a network meta-analysis
Luigino Calzetta (Roma (RM), Italy), Paola Rogliani, Mario Cazzola, Stefano Camardelli

Blood, nasal and airway immune responses to SARS-COV-2 vaccination in COPD patients and healthy subjects
Thomas Southworth (Manchester, United Kingdom), Natalie Jackson, David Singh

TriOptimize IX: Real-world improvement in COPD symptoms and lung function by extrafine single-inhaler triple therapy (eftITT)
Frederik Trinkmann (Heidelberg, Germany), Sanaz Bahari Javan, Carl-Peter Créée, Valentina Bogoevska, Christian Gessner

Adherence to umclidinium/vilanterol versus inhaled corticosteroids/long-acting 2-agonist in patients with chronic obstructive pulmonary disease in England
Alexandrosz Czira (Brentford, United Kingdom), Gema Requena, Victoria Banks, Robert Wood, Theo Tritton, Catherine Castillo, Jie Yeap, Rosie Wild, Chris Compton, Maria Duarte, Kieran Rothnie, Afisi Ismaila

SHORT-TERM OXYGEN THERAPY OUTCOMES IN COPD
Thibaud Soumagne (Paris, France), François Maltais, François Corbeil, Bruno Paradis, Marc Balzan, Paula Simao, Araceli Abad Fernandez, Richard Lecours, Sarah Bernard, Yves Lacasse

COPD clinical course in patient with Gln27Glu polymorphism of ADRB2 gene
Kostiantyn Dmytryiev (Vinnitsya, Ukraine), Yuriy Mostovoy, Nataliia Slepchenko, Yuliia Smereka, Dmytro Dmytryiev

How does Arg16Gly polymorphism affect pulmonary function and treatment response in COPD patients?
Kostiantyn Dmytryiev (Vinnitsya, Ukraine), Nataliia Slepchenko, Yuriy Mostovoy, Yuliia Smereka, Dmytro Dmytryiev

EVELUT: dyspnoea and symptom burden in COPD patients switching from LABA/ICS to LAMA/LABA or LAMA/LABA/ICS
Roland Buhl (Mainz, Germany), Michael Dreher, Muriel Mattiucci-Guehlke, Sebastian Eckhardt, Christian Taube, Claus Vogelmeier

Relationship between severity of airflow obstruction and GOLD classification in COPD patients
Nataša Karamarković Lazarušić (Zagreb, Croatia), Bojana Butorac Petanjek, Latinka Basara, Melita Jerić, Gordana Pavliša

Late Breaking Abstract - Evaluating multiple eosinophil measurements when stepping up to ICS/LAMA/LABA triple therapy in patients with COPD: a post-hoc analysis of ETHOS
Dave Singh (Manchester, United Kingdom), Mona Bafadhel, John R Hurst, Patrick Darken, Mehul Patel

Thematic poster: Sleep-disordered breathing treatment: from lifestyle to CPAP and beyond
Disease(s): Sleep and breathing disorders
Method(s): General respiratory patient care, Pulmonary function testing, Physiology, Epidemiology
Effectiveness of an integrated hospital-primary care lifestyle change program in the treatment of obstructive sleep apnea syndrome and obesity
Neus Salord Oleo (Barcelona, Spain), Carolina Alves, Eliseo Prado, Sandra Pérez, Maria Calvo, Roser Torta, M Carmen González, Lidia Rubio, Ana Comabell, Raquel Súñez, Mónica Montserrat, Núria Vilarrasa, Carmen Monasterio

Adherence to Positive Airways Pressure therapy in patients with sleep apnea and comorbid psychiatric diseases.
Anastasios Kallianos (Athens, Greece), Pantelis T. Nikolaidis, Dionysios Stamatakakis, Christina Klamenakou, Nicholas-Tiberio Economou, Paschalis Steiropoulos, Georgia Trakada

Association of positive airway pressure adherence with clinical outcomes in patients with type 2 diabetes and obstructive sleep apnea
Michail Fanaridis (Heraklion, Greece), Izolde Bouloukaki, George Stathakis, Christina Ermidou, Konstantina Lyroni, Eleni Mavroudi, Violeta Moniaki, Ioanna Tsiligianni, Sophia Schiza

Outcomes of CPAP therapy in Down syndrome – the population-based DISCOVERY study
Andreas Palm (Uppsala, Sweden), Malin Svensson, Magnus Ekström, Josefin Sundh, Mirjam Ljunggren, Ludger Grote

The effect of 2 years of CPAP therapy on metabolic comorbidities in OSAS
Manel Loukil Ben Ali (Nabeul, Tunisia), Hemissi Khaoulou, Narjes Abid, Mechaal Ben Ali, Hedia Ghrairi

Short-term continuous positive air pressure treatment: effects on quality of life and sleep in patients with obstructive sleep apnea
Laima Kondrataviciene (Kaunas, Lithuania), Skaidrius Miliauskas

Long term outcomes in CPAP-treated sleep apnea patients: Impact of blood pressure responses after CPAP initiation and treatment adherence
Jean-Louis Pépin (Grenoble, France), Ami-Marie Bocoum, Sébastien Bailly, Marie Joycea-Faure, Sébastien Bailleul, François Arbib, Clara-Lou Kang, Thi Hong Van Ngo, Pierre Boutouyrie, Renaud Tamisier

Nasal polyposis is a risk factor for non-adherence to CPAP – the DISCOVERY study
Caroline Bengtsson (Uppsala, Sweden), Ludger Grote, Mirjam Ljunggren, Magnus Ekström, Andreas Palm

A prospective study of factors that predict compliance with Continuous Positive Airway Pressure (CPAP) in patients with Obstructive Sleep Apnoea (OSA)
Qandeel Khan (Nottingham, United Kingdom), Abdisamad Ali, Amy Hough, Manoj Marathe, Imran Hamigi, Andrew Bain, Ajit Thomas

Predicting adherence to continuous positive airway pressure in patients with obstructive sleep apnea syndrome through machine learning
Marco António Pacheco Pereira (Paio Pires, Portugal), Ricardo Ribeiro

Persistent inspiratory flow limitation during positive airway pressure therapy
Neil Skjodt (Lethbridge (AB), Canada), Ronald S. Platt

Teledmedicine home CPAP titration and follow-up in the COVID-19 scenario
Jaume Bordas Martinez (Barcelona, Spain), Eva Fontanilles Arbones, Neus Salord, Eliseo Prado Gala, Maria D. Calvo Sánchez, Salud Santos, Carmen Monasterio

Efficacy of VAUTO ventilation in OSA patients resistant to CPAP
Pasquale Tondo (Foggia, Italy), Rossella Trentin, Caterina Pronzato, Simona Arcovio, Francesco Fanfulla

Auto-BiPAP switch in OSA patients: can it be done successfully?
Pasquale Tondo (Foggia, Italy), Caterina Pronzato, Irene Risi, Nadia D'Artavilla Lupo, Francesco Fanfulla

Reboxetine improves pharyngeal collapsibility and respiratory control in obstructive sleep apnoea.
Thomas Altree (Adelaide, Australia), Atqiya Aishah, Kelly Loffler, Ronald Grunstein, Danny Eckert

Effect of 5 mg of Oxybutynin and 6 mg of Reboxetine on obstructive sleep apnea severity
Mathieu Berger (Saint Etienne, France), Romane Dussez, Nicola Marchi, Geoffroy Solelhac, Brian Bradley, Gianpaolo Lecciso, José Haba-Rubio, Francesca Siclari, Raphael Heinzer

Effectiveness of acetazolamide in patients with moderate obstructive sleep apnea and obesity
Iana Andreieva (Zaporizhia, Ukraine)

Effect of sulthiame on cardiopulmonary coupling assessed sleep quality in OSA patients – a RCT
Ding Zou (Gothenburg, Sweden), Karl Thelander, Jan Hedner, Christian Strassberger, Kaj Stenlöf, Ludger Grote
Robotic beds for the treatment of positional obstructive sleep apnoea – a randomised cross-over pilot trial
Martina Meszaros (Zurich, Switzerland), Alexander Breuss, Elisabeth Wilhelm, Robert Riener, Malcolm Kohler, Esther I Schwarz

Late Breaking Abstract - Sulthiame induced carbonic anhydrase inhibition is associated with improvement of nocturnal oxygenation in OSA patients
Ali M. Komai, Saliha Musovic, Ludger Grote, Kaj Stenlöf, Erik Hoff, Ding Zou, Jan Hedner

TP-26 Session 08:30 - 09:30
Thematic poster: Multimodality respiratory imaging research: what is novel in 2022

Disease(s) : Interstitial lung diseases, Airway diseases, Pulmonary vascular diseases, Thoracic oncology
Method(s) : Imaging, Cell and molecular biology, Public health, Pulmonary function testing, Epidemiology, Transplantation, Endoscopy and interventional pulmonology

Chairs : Kseniia Bielosludtseva (Dniepropetrovsk, Ukraine), Esther Pallisa (Barcelona, Spain)

Value of functional lung MRI in long term patient care after lung transplantation.
Jens Vogel-Claussen (Hannover, Germany), Till Kaireit, Andreas Voskrebennzev, Filip Klimes, Lea Behrendt, Marcel Gutberlet, Christopher Korz, Milan Speth, Tobias Welte, Frank Wacker, Jens Gottlieb

First-in-human evaluation of 18F-BMS-986327 as a novel PET tracer to assess lysophosphatidic acid receptor 1 (LPA1) target engagement in the lung
Ralph Smith (Princeton, United States), David Donnelly, Jean-Dominique Gallezot, Yihuan Lu, Brian Murphy, Peter Cheng, Joonyoung Kim, Edgar Charles, Shuyan Du, Daniel Holden, Soheila Najafzadeh, Hong Gao, Michael Kapinos, Jim Ropchan, Nabeel Babli, Henry Huang, Aryeh Fischer, Richard Carson

PET/MR to study lung morphology and inflammation in children and adolescents with Primary Ciliary Dyskinesia
Valentina Agnese Ferraro (Rosa' (VI), Italy), Chiara Giraudo, Pietro Zuckeretta, Stefania Zanconato, Diego Cecchin, Silvia Carraro

Feasibility of Hyperpolarized 129Xe MRI in Primary Ciliary Dyskinesia
Wallace Wee (Toronto (ON), Canada), Brandon Zanette, Samal Munidasa, Sharon Braganza, Daniel Li, Felix Ratjen, Giles Santyr, Sharon Dell

Hyperpolarised 129Xe MR imaging of lung ventilation in neonates with bronchopulmonary dysplasia: initial experience
Neil James Stewart (Sheffield (South Yorkshire), United Kingdom), Nara S Higano, Shammuca S Mukthapuram, Matthew M Willmering, Anita Arnsperger, Wolfgang Loew, Rolf F Schulte, Jim M Wild, Jason C Woods

Feasibility of Specific Ventilation Imaging on a 3T MRI scanner
Claire O'Sullivan (Melbourne, Australia), G. Kim Prisk, Kris Nilsen, Richard McIntyre, Beau Pontre, David Dubowitz, Bruce Thompson

Correlation between radiological subtypes and histopathology in restrictive allograft syndrome after lung transplantation
Adriana Dubbeldam (Nieuwrode, Belgium), Robin Vos, Arno Vanstapel, Walter De Wever, Stijn E. Verleden, Emanuele Muscogiuri, Johan Coolen, Birgit Weynand, Johny A. Verschakelen

Multimodal 4D imaging and deep learning unveil acinar migration of tissue-resident, nanoparticle-laden macrophages in the lung
Lin Yang (Oberschleißheim, Germany), Qiongliang Liu, Pramod Kumar, Arunima Sengupta, Ali Farnoud, Ruolin Shen, Darya Trofimova, David Kutschke, Marie Piraud, Fabian Isensee, Gerald Burgstaller, Markus Rehberg, Tobias Stoeger, Otmar Schmid

Higher harmonic generation microscopy for instant on-site pathologic feedback of lung biopsies
Laura Van Huizen (Amsterdam, Netherlands), Johannes Daniels, Teodora Radonic, Jan Von Der Thüsen, Danielle Cohen, Marloes Groot, Jouke Annema

Reflux micro-aspiration associated with oesophageal dysmotility but not delayed liquid gastric emptying
Gregory Falk (Lindfield, Australia), Oleksandr Khoma, Maite Jeanne Mendu, Anita Nandini Sen, Hans Van Der Wall

Radiological aspects of thoracic involvement in hematological malignancies
Zakaria Laklaai (casablanca, Morocco), Khadija Channoune, Nahid Zaghba, Hanane Benjelloun, Najiba Yassine

Assessment of lung disorders in patients with rheumatoid arthritis (RA)
Yuliia Huba (Dnipropetrovsk, Ukraine), Larisa Botvinikova, Lyudmyla Konopkina, Oxana Plekanova
Bronchial arterial embolization for management of hemoptysis: are there factors influencing the successful treatment?
Diogo André Barroso Ferreira (Vila Nova De Famalicão, Portugal), Marta Castro, Ana Rita Gigante, Ana Raquel Marçôa, Diogo Rocha, Eloísa Silva, Carla Ribeiro, Teresa Shiang, Manuela Vanzeller

Predictors of short term mortality in acute pulmonary embolism
Ali Abdelaziz (Minia, Egypt), Yosra M Ali, Mohamed Abdelaziz, Ahmed H Mohamed, Hany T Asklany, Noha M M Abdullah, Rasha A Abdelfattah

Assessing clinicians' detection rate of Pulmonary Embolism (PE) with use of CT Pulmonary Angiogram (CTPA) imaging in an Acute Hospital Trust
Roisin O’Neill (Birmingham, United Kingdom), Jessamy Reece, Bethany Jones, Muhammad Bilal Niazi, See Ling Tan, Abbi Lal

Mounier-Kuhn syndrome: about 4 cases
Manelle Rjimati (Fès, Morocco), Zineb Biaz, Mounia Serraj, Mohammed Elbiaze, Mohamed Chakib Benjelloun, Bouchra Amara

Meta-analysis of mean transit time and pulmonary blood flow in the lung
Marta Tibiletti (Manchester, United Kingdom), Lucy Edwards, Jo Naish, Geoff J M Parker, John C Waterton

TP-19
Thematic poster: After COVID
Session 08:30 - 09:30

Pulmonary function outcomes one year after moderate to critical COVID-19 pneumonia
Simone van der Sar (Teteringen, Netherlands), Antine Flikweert, Ingrid De Backer

Follow up outcome in COVID-19 patients with persistent symptoms from central India
Abhishek Anil Faye (Bhandara (Maharashtra), India), Rajesh Swarnakar, Shruti Gudhane, Charu Singh

Pre-COVID-19 lung function in a general adult population between COVID-19 and non-COVID-19 cases
Hannu Kankaanranta (Seinäjoki, Finland), Daniil Lisik, Bright I Nwaru

Fatigue in Long Covid-19 is associated to short hospitalization time and normal lung function
Søren Sperling (Aarhus N, Denmark), Andreas Floe, Steffen Leth, Tina Gissel, Ayfer Topcu, Lars Kristensen, Charlotte Hyldgaard, Lena Dahl Sønderskov, Søren Jensen-Fangel, Johannes Martin Schmid, Hans Jürgen Hoffmann, Elisabeth Bendstrup

Reasons for post-covid hospitalization- one year experience from Serbia
Ana Milenković (Novi Sad, Republic of Serbia), Siniša Maksimović, Miroslav Ilić, Jovan Javorac, Dragica Kovačević, Miloš Cvjetković, Nevena Savić

Evolution of pulmonary function, CT changes and respiratory symptoms 6-8 months after hospital admission with COVID-19 infection
James Kent Bramer (London, United Kingdom), Yee-Ean Ong, Adrian Draper, Saeed Akbar, Raminder Aul
One-year kinetics of the humoral response following SARS-CoV-2 vaccination Among Maintenance Hemodialysis Patients
Ori Wand (Kfar Sava, Israel), Naomi Nacasch, Sydney Benchetrit , Amir Bar-Shai, Keren Cohen-Hagai

Alfa-1 antitrypsin after one year COVID-19 infection
Julian Andres Ceballos Gutierrez (vera, Spain), Beatriz M Jimenez Rodriguez, Eva Maria Triviño Ibáñez, José Gutiérrez Fernández, Ana Dolores Romero Ortiz, Concepción Morales García

Relation of pulmonary diffusing capacity decline to HRCT and VQ SPECT/CT findings at early follow-up after COVID-19. A prospective cohort study (The SECURE study)
Thomas Kromann Lund (Copenhagen NV, Denmark), Terese Katzenstein, Jan Christensen, Anna Kalhauge, Frederikke Rønsholt, Daria Podlekavera, Elisabeth Arndal, Ronan Berg, Thora Kjaer, Anne-Mette Lebech, Jann Mortensen

Oxygen home therapy after discharge of hospitalized patients with COVID-19
Donia Belkhir (Tunis, Tunisia), Hana Blibech, Houda Snene, Aymen Jebali, Syrine Daoud, Line Kaabi, Soumaya Debiche, Nadia Mehiri, Saoussen Miladi, Ahmed Laatar, Nozha Ben Salah, Bechir Louzir

Post discharge persistent dyspnea after covid-19 pneumonia
Mohamed aymen Jebali (tunis, Tunisia), Hana Blibech, Houda Snene, Sirine Daoud, Donia Belkhir, Line Kaabi, Soumaya Debiche, Nadia Mehiri, Nozha Bensalah, Bechir Louzir

Predictive factors of persistent dyspnea after COVID-19 pneumonia
Hela Cherif (Tunis, Tunisia), Nouha Guediri, Slim Kalboussi, Mariem Triki, Ferdaous Yangui, Med Ridha Charfi

Trajectories of respiratory recovery after severe SARS-CoV-2 infection (RE2COVERI): a pragmatic, longitudinal cohort study.
Frédéric Schlemmer (Créteil Cedex, France), Simon Valentin, Laurent Boyer, Valentine Bonnefoy, Clairelyne Dupin, Anne Bergeron, François Chabot, Maeva Zysman, Elodie Blanchard, Mehdi Roumila, Charlotte Colin, Violaine Giraud, Étienne Giroux-Leprieur, Thomas Gilles, Yurdagul Uzunhan, Pierre-Yves Brilett, Isabelle Honoré, Nicolas Roche, Morgane Faure, Maxime Patout, Capucine Morelot-Panzini, Sven Gunther, Olivier Sanchez, Anne-Marie Ruppert, Jacques Cadranel, Claireandrejak, Camille Jung, Emmanuelle Bugnet, Florence Canou-Poitrière, Bernard Maitre

Circulating calprotectin correlates with DLCO in patients four months after COVID-19
Carlos Esteban Machahua Huamani (Bern, Switzerland), Nebal Abu Hussein, Michael P. Horn, Thomas Geiser, Manuela Funke-Chambour

Bronchoalveolar lavage fluid characteristics in patients with persistent symptoms following COVID-19 infection
Maximilian Gysan (Wien, Austria), Antje Lehmann, Dominik Bernitzky, Milacek Christopher, Andreas Zech, Helmut Prosch, Marco Idzko, Daniela Gompelmann

Effect of house dust mite sublingual immunotherapy in combination with dupilumab in asthma
Makoto Hoshino (Atami, Japan), Kenta Akitsu, Kengo Kubota, Junichi Ohtawa

Itepekimab significantly reduced hospitalizations or emergency department visits in former smokers with moderate-to-severe COPD
Klaus F. Rabe (Kiel, Germany), Bartolome R. Celli, Amy Praestgaard, Michel Djandji, Xavier Soler, Raolat M. Abdulai, David J. Lederer, Hélène Goulauic, Michael C. Nivens, Shahid Siddiqui, Juby Jacob-Nara, Yamo Deniz, Paul Rowé

Impact of obstructive airway diseases (OADs) treatments on adult diphtheria-tetanus-pertussis vaccine (dTAP)’s immunogenicity and safety
Peter Van den Steen (Wavre, Belgium), Valérie Berlaimont, Brigitte Cheuvart, Quentin Deraedt, Laura Valdes Verelst

Salivary immunoglobulin E levels in patients treated with Omalizumab
Diana Hristova (Sofia, Bulgaria), Radoslava Emilova, Yana Todorova, Milena Aleksova, Maria Nikolova

Thematic poster: Update on clinical trials in allergy, asthma and COPD
Disease(s) : Airway diseases, Interstitial lung diseases
Method(s) : General respiratory patient care, Epidemiology, Public health, Cell and molecular biology, Pulmonary function testing
Chairs : Celeste Michala Porsbjerg (Copenhagen, Denmark), Sergio Dortas Junior (Rio De Janeiro (RJ), Brazil)

Effect of house dust mite sublingual immunotherapy in combination with dupilumab in asthma
Makoto Hoshino (Atami, Japan), Kenta Akitsu, Kengo Kubota, Junichi Ohtawa

Onset, Maintenance, and Durability of Response with Dupilumab in Chronic Rhinosinusitis with Nasal Polyps
Philippe Gevaert (Ghent, Belgium), Claus Bachert, Asif Khan, Wytse Fokkens, Claire Hopkins, Joseph Han, Peter Hellings, Stella Lee, Jérôme Msihid, Scott Nash, Shahid Siddiqui, Juby Jacob-Nara, Yamo Deniz, Paul Rowe

Itepekimab significantly reduced hospitalizations or emergency department visits in former smokers with moderate-to-severe COPD
Klaus F. Rabe (Kiel, Germany), Bartolome R. Celli, Amy Praestgaard, Michel Djandji, Xavier Soler, Raolat M. Abdulai, David J. Lederer, Hélène Goulauic, Michael C. Nivens, Shahid Siddiqui, Juby A. Jacob-Nara, Yamo Deniz, Paul J. Rowe

Impact of obstructive airway diseases (OADs) treatments on adult diphtheria-tetanus-pertussis vaccine (dTAP)’s immunogenicity and safety
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Salivary immunoglobulin E levels in patients treated with Omalizumab
Diana Hristova (Sofia, Bulgaria), Radoslava Emilova, Yana Todorova, Milena Aleksova, Maria Nikolova
Population PK/PD modelling of the anti-IL-33 antibody tozorakimab to predict pulmonary target engagement in patients with COPD
Muhammad Waqas Sadiq (Mölndal, Sweden), Hongtao Yu, Magnus Astrand, Ian C Scott, Adam Williams, Lisa Hewitt, Nick White, Helen Killick, Monica Gavala, Fred Reid, Chris Kell, Hitesh Pandya, Eulalia Jimenez

The long-term effectiveness of allergy immunotherapy in subjects with asthma is associated with a lower prevalence of sleep disturbances. Results from the REACT-study
Marco Contoli (Ferrara (FE), Italy), Benedikt Fritzsching, Nick Freemantle, Sarah Buchs, Julie Larsen, Celeste Porsbjerg

Allergy immunotherapy is associated with a reduced risk of asthma severity progression and lower airway infections. Results from the REACT-study
Celeste Michala Porsbjerg (Copenhagen, Denmark), Benedikt Fritzsching, Nick Freemantle, Sarah Buchs, Julie Larsen, Marco Contoli

Humoral immune responses to COVID-19 vaccines are reduced in patients with severe asthma
Hitasha Rupani (Southampton, United Kingdom), Diane Edwards, Rekha Chaudhuri, Steve Meyer, Thibaut Riff, Nathalie Domis, Frédéric De Blay

Efficacy of medical face masks on birch-induced asthma in ALYATEC EEC
Alina Gherasim (Strasbourg, France), Frank Dietsch, Marine Beck, Frank Dietsch, Maude Meyer, Thibaut Riff, Nathalie Domis, Frédéric De Blay

Evaluation of asthma responses in ALYATEC EEC in birch allergic rhinitis (AR) with and without asthma
Alina Gherasim (Strasbourg, France), Frank Dietsch, Marine Beck, Thibaut Riff, Nathalie Domis, Frédéric De Blay

Beliefs about vaccination and relation to COVID-19 vaccination side-effects in asthma patients.

Efficacy and safety of Phlai capsule for allergic rhinitis: a randomized, double-blind, placebo-controlled study
Minh P. Hoang (Bangkok, Thailand), Kachorn Seresirikachorn, Steve Kerr, Jesada Kanjanaumporn, Songklot Aeumjaturapat, Supinda Chusakul, Jompol Samuthpongtorn, Wirach Chitsuthipakorn, Pornthep Kasemsiri, Virat Kirtreesakul, Kajohnkiat Prasittivatchakool, Pongsakorn Tantilipikorn, Orapin Pachanukoon, Kornkiat Snidvongs

Effect of dupilumab on asthma control and asthma-related quality of life in patients with uncontrolled, moderate-to-severe type 2 asthma: TRAVERSE OLE study
William Busse (Madison, United States), Ian D. Pavord, Jonathan Corren, Andrew Menzies-Gow, Enrico Heffler, Jerome Mshidh, Shahid Siddiqui, David J. Lederer, Megan Hardin, Yi Zhang, Asif H. Khan, Juby A. Jacob-Nara, Yamo Deniz, Paul J. Rowe

Biomarkers associated with lung function decline and dupilumab response in patients with moderate-to-severe asthma
Ian Douglas Pavord (Oxford (Oxfordshire), United Kingdom), Guy Brusselle, Daniel J. Jackson, Christopher E. Brightling, Alberto Papi, Jorge F. Maspero, Klaus F. Rabe, Stephanie Korn, Mei Zhang, Nami Pandit-Abid, Megan Hardin, Lucia De Prado Gómez, Juby A. Jacob-Nara, Paul J. Rowe

Insilico study of COVID-19 ORF1ab protein allergenicity
Fatemeh Hajighasemi (Tehran, Islamic Republic of Iran), Atfeh Shirkavand

Dupilumab reduces OCS use and improves lung function in patients with severe OCS-dependent asthma
Mark Gurnell (Cambridge, United Kingdom), Ian D. Pavord, Jonathan Corren, Andrew Menzies-Gow, David Price, Guy Brusselle, Micheal E Wechsler, Changming Xia, Nami Pandit-Abid, Rebeca Gall, Juby A Jacob-Nara, Paul J Rowe, Yamo Deniz, Shahid Siddiqui

A pilot trial of belimumab for atherosclerosis associated autoimmunity in COPD patients.
Takudzwa Mkorombindo (Birmingham, United States), R. Chad Wade, Kaiyu Yuan, Sarah W. Robison, Ashley E. Christenson, J. Michael Wells, Mark T. Dransfield, Steven R. Duncan

Multidisciplinary checklist approach for the "severe" phenotype: Asthma with Nasal PolyPs
Jose Antonio Castillo Vizute (Sitges (Barcelona), Spain), Miguel Armengot, Julio Delgado, Maria Gil, Carlos Colás, Inmaculada Plasencia, Carolina Cisneros

One-year treatment with benralizumab in patients with eosinophilic granulomatosis with polyangiitis
Paola Scarano (Roma, Italy), Cecilia Cisternino, Giulia Lo Muzio, Olimpia Calò, Arianna Sanna, Alessia Steffanina, Francesca De Filippis, Maria Teresa Leporini, Paolo Palange, Elda Graziani
Session 08:30 - 09:30

**Thematic poster: COVID-19: from bench to bedside**

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

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

*Chairs:* Christoph Fisser (Regensburg, Germany), João Carlos Winck (Vila Nova de Gaia, Portugal)

**Serum markers of endothelial dysfunction and invasive mechanical ventilation in COVID-19**
Laura Cornejo-Cornejo (México City, Mexico), Arturo Orea-Tejeda, Dulce Gonzalez-Islas, Juan Marquez-Cordero, Alejandra Rios-Perea, Jorge Aguilar-Meza, Mariana Salvatierra-Escobar, Iris Lopez-Vazquez, Carlos Sanchez-Moreno, Luis Hernandez-Urqueta, Alejandra Loaeza-Roman, Juan Carlos Garcia-Hernandez, Yasmin Debray-Garcia, Maria Patricia Sierra-Vargas, Gamaliel Aztatzi-Aguilar

**PSP kinetics in the prediction of VAP diagnosis**
Adrian Ceccato (Ituzaingo (Prov. De Buenos Aires), Argentina), Marta Camprubi, Lieuwe Bos, Pedro Povoa, Ignacio Martin-Loeches, Aina Areyn, Elena Campaña, Luis Morales, Paula Ramirez, Mariano Esperatti, Antoni Torres, Antonio Artigas

**C3a and C5b-9 levels differentially predict COVID-19 severity and mortality.**
Maria Detsika (Athens, Greece), Elpida Diamanti, Kleio Ampelakiotou, Edison Jahaj, Stamatios Tsipilis, Nikolaos Athanasiou, Alexandros Zacharis, Ioanna Dimopoulou, Stylianos Orfanos, Alexandra Tsiorogianni, Anastasia Kotanidou

**Calcium-sensing receptor signalling and neutrophil dysfunction: implications in critical illness**
Polina Yarova (Newcastle upon Tyne, United Kingdom), Jonathan Scott, Vsevolod Telezhkin, Emma Turnbull, Benjamin J. Patchett, Christopher Merril, Marie-Helene Ruchaud-Sparagano, Kate Musgrave, Daniela Riccardi, Anthony J. Rostron, Thomas P. Helleyer, John A. Simpson

**A pilot trial for ozanimod therapy in hospitalized COVID-19 patients**
David Marsolais (Quebec, Canada), Nathalie Châteauvert, Pascale Blais-Lecours, Philippe Rola, Tuyen Nguyen, François Lellouche

**Towards a better diagnostic and treatment of ventilator-associated respiratory infections.**
Andrea Palomeque Flores (BARCELONA, Spain), Rubén López, Alba Soler, Leticia Bueno, Nona Rovira, Enric Barbeta, Ana Motos, Miriam Villanueva, Nil Vázque, Roberto Cabrera, Antonio Torres*, Laia Fernández-Barat*

**Importance of alveolo-arterial oxygen gradient in monitoring moderate/severe forms of COVID-19**
Cristina Maria Tusa (cluj-napoca, Romania), Andreea Daniela Prodisteanu, Diana Laura Moldovan, Loreane Cardos-Rosca

**Outcome of patients admitted in Covid ICU during first wave and second wave in Mumbai Tertiary Hospital**
ROHIT SUHAS BHINGARDEVE (SANGLI, India), Sudarshan Ramdas Mante, Naman Shamsunder Ajwani, Swapnil Manaji Thorve, Siddharth Ravindranath Waghmare, Jairaj Parameswaran Nair

**The Utility of Estimating the Shunt Fraction of Critical Patients with COVID-19 in determining the outcome of High Flow Nasal Cannula at Lung Center of the Philippines, a pilot study.**
Marvic Raymond Gabitan (Quezon City, Philippines), Shiela Ganangan

**Clinical Profile and Outcomes of COVID19 confirmed cases with Acute Respiratory Distress Syndrome Undergoing Protocol directed assisted Prone Positioning at Lung Center of the Philippines (LCP) from May 1, 2020 to April 30, 2021**
Krizelle Acibal (San Jose del Monte Bulacan, Philippines), Noel Gomez, Portia Tanyag

**Predictive indexes in prolonged weaning of mechanical ventilation due to tracheostomy in patients with COVID-19 pneumonia**
Carlos Maria Franceschini (Ciudad Autónoma Buenos Aires, Argentina), Jorge Rodriguez, Mariano Wysocki, Mercedes Kleinert, Carlos Cozzani, Margarita Torres Boden, Julio Giorgini, Orlando Saque, Amada Sanchez Andia, Andrea Olmos, Mariana Finadesio, Elizabeth Santilli, Daniel Nahmias, Barbara Frias, Maria Lucrecia Olave, Ludmila Ciaponi, Merjay Henriquez Salazar

**Ventilator associated pneumonia surveillance in critically ill patients with COVID-19 in a tertiary care hospital**
Damla Karadeniz Güven (Ankara, Turkey), Gülçin Telli Dizman, Gökhman Metan, Gamze Durhan, Arzu Topeli, Ahmet Uğur Demir

**Impact of combined non-invasive support strategies use during acute respiratory failure due to COVID-19.**
Judith Marin Corral (Barcelona, Spain), Francisco Parrilla, Marcos I Restrepo, Sergi Pascual-Guardia, Alejandro Rodriguez, Juan Carlos Ballesteros, Susana Sancho, Lorenzo Socias, Emili Diaz, Antonio Albaya-Moreno, Joan Ramon Mascleas

**The successful use of Pezzzer Catheter in Covid-19 patients**
Kalliopi Athanassiadi (Athens, Greece), Symeon Mitrou, Eleni Ischaki, Maria Kazantzi, Ilias Galanis, Evangelia Liverakou, Aikaterini Sarri, Stylianos Kokkoris, Zafeiria Mastora
Delay of intensive care admission of severe COVID-19 patients: what impact on mortality?
Fatma Essafi (Zaghouan, Tunisia), Imen Talik, Khaoula Ben Ismail, Malek Kharrat, Najla Ben Slimene, Aida Bayoudh
Ilhem Fessi, Moez Kaddour, Takoua Merhabene

Relationship between blood gases and inflammatory markers with clinical outcomes in critically ill patients with COVID-19
Nickson Morais (Mossoró, Brazil), Lara Candice Costa De Morais Leone, Valéria Duarte De Almeida, Micássio Fernandes De Andrade, Ellany Gurgel Cosme Do Nascimento, José Veríssimo Fernandes, Christiane Medeiros Bezerra, Thales Allyrio Araújo De Medeiros Fernandes

Utilization of corticosteroids among patients died with COVID-19: A single center experience from a resource poor setting
Amila Rathnapala (Minuwangoda, Sri Lanka), Buddhini Imbulpitiya, Prabuddha Attanayake, Prasanna Liyanage, Anoma Siribaddna

Clinical and laboratory characteristics of patients who succumbed to COVID-19: a single center experience from a resource poor setting
Amila Rathnapala (Minuwangoda, Sri Lanka), Buddhini Imbulpitiya, Prabuddha Attanayake, Prasanna Liyanage, Anoma Siribaddna

Comparing the effect of strict versus routine awake prone positioning among patients hospitalized with COVID-19
Hamza Asif (Peshawar, Pakistan), Saadia Ashraf, Amber Ashraf

Clinical effects and mortality of frailty in geriatric COVID-19 patients
Zeynep Sofia Şahin Eröksüz (İstanbul, Turkey), Şehnaz Olgun Yıldızeli

TP-22 Session 08:30 - 09:30

Thematic poster: Bridging lung cancer screening with early diagnostics
Disease(s): Thoracic oncology Airway diseases
Method(s): General respiratory patient care Imaging Public health Epidemiology
Chairs: Andrew Creamer (Bristol (Avon), United Kingdom), Armin Frille (Leipzig, Germany)

Lung Cancer Screening Program via Primary Care Clinics
Greg Holt (Miami, United States), Dave Cuvi, Robert Flowers, Lisa Hue, Elizabeth Balbin

Eligibility to lung cancer screening among staffs of a university hospital: a large cross-sectional survey.
Emmanuel Grolleau (Lyon, France), Julie de bermont, Flavien Devin, David Pérol, Véronique Lacoste, Loic Delastre, Fanny Fleurisson, Gilles Devouassoux, Jean-François Mornex, François Coton, Martin Tammemagi, Sébastien Couraud

Evaluating the effectivity of deploying a deep learning-based algorithm to aid clinicians and radiologists in diagnosing pulmonary nodules on chest radiographs

Characteristics of resolving pulmonary nodules at three months surveillance computerized tomography thorax.
Shahbaz Nazir (Cottingham, United Kingdom), Faizan Harris, Gavin Anderson, Kanwul Tariq

Implementation of the International Lung Screen Trial (ILST) in Catalonia: A Cost Analysis study
Antoni Rosell Gratacos (Badalona (Barcelona), Spain), Sonia Baiza, Francesc Lopez-Segui, Rocío Mourriño, Maria Saigi, Marta Munné, Jordi Bechini, Adela Gonzalez, Ester Cervera, Marina Compte, Anna Nuñez, Samuel García-Reina, Jordi Ara

Association of COPD and/or emphysema in the lung cancer screening program in Fundación Jiménez Díaz Hospital
Maria De Los Angeles Zambrano Chacon (MADRID, Spain), Carolina Maria Gotera Rivera, German Peces-Barba Romero, Javier Alfayate Sánchez, Maria Fernanda Troncoso Acevedo, Marcel Jose Rodriguez Guzman, Abdulkader El Hachem Debek, Elena Cabezas Pastor, Erwin Javier Pinillos Robles, Diana Sanchez Mellado, Francisco Jose Laso Del Hierro, Maria Jesus Rodriguez Nieto, Jose Joaquin Salvatore Amorini, Jordi Ara

Lung Cancer Screening Programme and Pandemic Influences on the Pattern of Referrals to a Thoracic Oncology Service
Marcus Anthony Pittman (Basildon (Essex), United Kingdom), Sabrina Habib

Design and monitoring of the Czech population pilot programme for lung cancer early detection
Karel Hejdak (Ořechov u Brna, Czech Republic), Martina Koziar Vašáková, Ivana Černá Peterová, Hynek Míra, Bohumil Seifert, Jana Skřičková, Vladimír Kobiš, Marcela Koudelková, Ondřej Ngo, Ladislav Dušek, Ondřej Májek

Thematic poster: Bridging lung cancer screening with early diagnostics
Diagnostic and Prognostic utility of eNOSE for Lung Cancer in a TB-endemic setting: A Pilot Study
Rohit Vadala (New Delhi, India), Bijay Pattnaik, Naveen Bhatraju, Divyanjali Rai, Jaya Tak, Seetu Kashyap, Umashankar Verma, Geetika Yadav, R.S. Dhalwal, Randeep Guleria, Anurag Agrawal, Anant Mohan

Nordic Lung Cancer Registries
Anja Gouliaev (Viby J, Denmark), Torben Riis Rasmussen, Niels Lyhne Christensen

TP-6 Session 08:30 - 09:30
Thematic poster: Asthma and cystic fibrosis: from cellular mechanisms to new targets
Disease(s): Airway diseases, Respiratory critical care, Pulmonary vascular diseases
Method(s): Cell and molecular biology, Epidemiology
Chairs: Stefan Marciniak (Cambridge (Cambridgeshire), United Kingdom), Maha Zohra Ladjemi (Paris, France)

Inhaled corticosteroids induce DNA methylation changes in nasal cells of asthma patients
Alen Faiz (Ultimo (NSW), Australia), Rashad Mahbub, Karosham D. Reddy, Ilse Boudewijn, Gerard H. Koppelman, Maarten Van Den Berge

ER22/23EK and TTH111I polymorphisms in the glucocorticoid receptor gene among asthma patients with regard to the age of onset
Vladyslava Kachkovska (Sumy, Ukraine), Anna Kovchun, Lyudmyla Prystupa

Association of DNA methylation with fractional exhaled nitric oxide levels in pediatric asthma

Inflammatory cellular changes in the large airway of asthma COPD overlap (ACO) patients
Surajit Dey (Launceston, Australia), Wenying Lu, Archana Vijay Gaikwad, Pren Bhattacharyya, Josie Larby, Collin Chia, Greg Haug, Heinrich C. Weber, Sally Young, Pabuddha S. Pathinayake, Peter A.B. Wark, Mathew Suji Eapen, Sukhwinder Singh Sohal

IL-33 signal impairment attenuates experimental pulmonary hypertension and fibroblast proliferation in mice
Kathryn Wilson (Glasgow, United Kingdom), Saad Wali, Milton Kodom, David Welsh

Genome-wide association analysis identifies variants in the chromosome 21 associated with asthma exacerbations in Brazilian adults
Maria Santana (Salvador, Brazil), Helena Teixeira, Hatilla Silva, Mahmoud Abdel-Aziz, Susanne Vijverberg, Simone Hashimoto, Anke Maitland-Van Der Zee, Címbria Figueiredo, Álvaro Sardon, Alvaro Sardon, Clayton Costa

The upper airway microbiome composition is associated with inhaled corticosteroid response in asthma
Javier Perez-García (San Cristóbal de La Laguna, Spain), Mario González Carracedo, Antonio Espuela-Ortiz, José M Hernández-Pérez, Ruperto González-Pérez, Olaia Sardón, Elena Martín-González, Elena Mederos-Luis, Paula Corcuerca, Inmaculada Sánchez-Machín, Paloma Pozo-Guedes, Ariel Callero, Javier Korta-Murua, José Antonio Pérez Pérez, Jesús Villar, Maria Pino-Yanes, Fabian Lorenzo-Diaz

KNU gene variants and lifestyle factors associated with Asthma in Singapore Chinese.
Praneeth Malipedi (Singapore, Singapore), Fook Tim Chew

Epigenome-wide association study of paediatric asthma in African Americans
Esther Herrera Luis (La Laguna, Spain), Carlos de la Rosa Baéz, Javier Perez-Garcia, Mario Martin-Almeida, Kenneth B. Beckman, Michael A. Lenoir, Luisa N. Borell, Esteban Burchard, Maria Pino-Yanes

LSC - 2022 - Local airway expression of Inc-SERPINA12-1 in children with Cystic Fibrosis
Zuzanna Stachowiak (Poznan, Poland), Beata Narożna, Wojciech Langwiński, Irena Wojsyk-Banaszak, Katarzyna Jończyk-Potoczna, Anna Bręborowicz, Aleksandra Szczepankiewicz

Transcriptome comparison between air-liquid interface differentiated nasal and bronchial epithelial cells of infants with cystic fibrosis
Lisa Rodenburg (Utrecht, Netherlands), Sabine Michel, Karin De Winter-De Groot, Cornelis Van Der Ent, Jeffrey Beekman, Gimano Amatyalim

Allergic airway inflammation affects signaling pathways in adipose tissue via mRNA-miRNA interactions in the rat
Aleksandra Szczepankiewicz (Poznań, Poland), Dawid Szczepankiewicz, Wojciech Langwiński, Joanna Nowakowska, Paweł Kołodziejski, Ewa Pruszyńska-Osmałek, Maciej Sassek, Natalia Leciejewska, Kamil Ziarniak
Association of asthma genetic variants with asthma-associated traits reveals molecular networks of eosinophilic asthma
Zaid Elhusseini (Groningen, Netherlands), Judith Vonk, Maarten Van Den Berge, Reinoud Gosens, Gerard Koppelman

Genome-wide cis-expression-Quantitative Trait Loci (eQTL) in association with asthma.
Zachary Chua (Singapore, Singapore), Yang Yie Sio, Fook Tim Chew

Sputum metagenomics of U-BIOPRED asthma cohort: link to severity and granulocytic inflammation
ALI VERSI (London, United Kingdom), Ivan Fransiskus Xaverius, Mahmoud Abdel-Aziz, Stewart Bates, John Riley, Take Ogawa, Sven-Erik Dahlen, Ratko Djukanovic, Peter Sterk, Anke-Hilse Maitland-Van Der Zee, Sanjay H Chotirmal, Peter Howarth, Ian M Adcock, Kian Fan Chung

Altered airway epithelial cell landscape in U-BIOPRED severe asthma
Ian M. Adcock (London, United Kingdom), Ying Shi, Nazanin Zounemat Kermani, Alen Faiz, Kian Fan Chung, Philip M. Hansbro, Xin Yao, Maarten Van Den Berge, Martijn Nawijn

Nasal airway epithelium differentiates between asthma and healthy subjects and identifies clinically relevant asthma endotypes

Expression of eosinophil-associated gene signatures in U-BIOPRED severe asthma
Janice Koranteng (London, United Kingdom), Nazanin Zounemat-Kermani, Yusef Badi, Ian M. Adcock, Charalambos Michaeloudes, Kian Fan Chung, Pankaj Bhavsar

GSVA analysis of steroid insensitive signatures in severe asthma.
Piers Dixey (London, United Kingdom), Nazanin Zounemat-Kermani, Katie Raby, Ian Adock, Pankaj Bhavsar, Kian Chung

Translating host–respiratory virus genetic susceptibility signals to candidate casual genes and pathways to provide therapeutic opportunities
Christina Shrees (Nottingham, United Kingdom), Kamini Rakkar, Michael Portelli, Nicholas Hannan, Alexander Tarr, Ian Sayers

Thematic poster: Occupational respiratory infections

Comparison of humoral immune responses to initial and booster SARS-CoV-2 vaccination among respiratory health professionals
Imre Barta (Budapest, Hungary), Viktória Schmidt, Imola Mán, Márta Valyon, Lilla Lőrinczi, Balázs Antus

Severity of SARS-CoV-2 pneumonia according to occupational exposure to asbestos
Galó David Granados Rosales (Barcelona, Spain), María Sáez López, Cristina Aljama Vizcarra, Julia Sampol Sirvent, María Jesús Cruz Carmona, Jaume Ferrer Sancho

Pandemic Covid-19 and the risk of burnout among health personnel at Hassan II Hospital in Agadir, Morocco.
fatiha bounoua (AGADIR, Morocco), Houda Moubachir, Hind Serhane

COVID-19-disease prevalence and its characteristics among health care workers of specialized respiratory clinics in Germany one year after the start of vaccination campaign

Risk factors for pandemic-related workplace absenteeism among health care workers and the impact of vaccination
Stella Piel (Bonn, Germany), Maria Ada Presotto, Rudolf A. Jörres, Stefan Karrasch, Wolfgang Gesierich, Jörn Bullwinkel, Klaus F. Rabe, Markus Hayden, Franziska Kaestner, Dominik Harzheim, Biljana Joves, Axel Tobias Kempa, Alessandro Ghiani, Claus Neurohr, Michael Kreuter, Felix J.F. Herth, Franziska Christina Trudzinski

Profile of healthcare workers who contracted COVID-19 after vaccination against SARS-CoV-2
Ons Grissa (Tunis, Tunisia), Nihel Khouja, Emna Baraketi, Jihen Hsinet, Saloua Ismail, Nawres Gannoun, Aida Benzarti, Abdelmajid Ben Jemaa
Respiratory symptomatology of Covid-19 in healthcare workers
Ons Grissa (Tunis, Tunisia), Amani Dallagi, Saloua Ismail, Jihen Hsinet, Emna Baraketi, Nihel Khouja, Aida Benzarti, Abdelmajid Ben Jemaa

Investigation of cellular and humoral immune responses following COVID-19 vaccination in respiratory healthcare professionals
Viktoria Schmidt (Budapest, Hungary), Imola Man, Balazs Antus, Imre Barta, Marta Valeyon, Lilla Lorinezi

Mental health, quality of life, and COVID-19 fear in Turkish healthcare workers practicing in pandemic hospitals

Late Breaking Abstract - Environmental nanoparticle exposure triggers gammaherpesvirus reactivation via the MAPK signaling pathway in macrophages
Lianyong Han (Munich, Germany), Verena Haefner, David Kutschke, Beatrix Steer, Anna Fuchs, Martin Irmler, Johannes Beckers, Annette Feuchtinger, Margit Heier, Annette Peters, Heiko Adler, Tobias Stoeger

Late Breaking Abstract - Carbon footprint of maintenance and reliever therapy (MART) versus maintenance plus SABA (Mx+SABA) regimens for asthma: Results from the healthCARE-Based envirONmental cost of treatment (CARBON) programme
John Bell (Cambridge, United Kingdom), Ekaterina Maslova, Paul Miller, Alex Wilkinson, Christer Janson, Richard Beasley, Michael Crooks

Late Breaking Abstract - Carbon nanoparticle-triggered virus reactivation as a link between the inflammatory response to air pollutants and chronic lung disease
Verena Haefner (Neuherberg, Germany), Lianyong Han, David Kutschke, Beatrix Steer, Ali Oender Yildirim, Heiko Adler, Tobias Stoeger

Late Breaking Abstract - TRP and TLR receptors modulate airway responses to diesel exhaust and allergen co-exposure in sensitized participants
Chris Carlsten (Vancouver, Canada), Ryan D. Huff, Andrew Robinson, Min Hyung Ryu

Late Breaking Abstract - Evaluation and Prediction of COVID-19 Case Fatality Rates from 156 countries
Cui Zhou (Beijing, China), Jing Gao, Chutian Zhang, Lei Xu

Late Breaking Abstract - Dwelling visible mould exposure increased asthma symptom score in the CONSTANCES cohort
Tajidine TSIAVIA (Villejuif, France), Emilie Fréalle, Valérie Bex, Orianne Dumas, Marcel Goldberg, Nicole Le Moual, Celine Ribet, Nicolas Roche, Marine Savouré, Raphaëlle Varraso, Marine Zins, Bénédicte Leynaert, Laurent Orsi*, Rachel Nadif*

Late Breaking Abstract - Association of COPD exacerbations with cardiovascular events – a population-based cohort study
Anders Lokke (Højbjerg, Denmark), Peter Lange, Rikke Ibsen, Gunilla Telg, Jesper Lykkegaard, Ole Hilberg

Late Breaking Abstract - ¿HAS MORTALITY FROM COPD DECREASED IN SPAIN IN THE LAST TWO DECADES?
Gema Ramirez Rodriguez (Granada, Spain), Ana Quesada Quesada, Antonio Menendez Lobo, Alejandro Romero Linares, Cristian Rodriguez Rivas, Pedro Romero Palacios, Bernardino Alcazar Navarrete

Late Breaking Abstract - Body mass index associated with lowest mortality in patients with chronic obstructive pulmonary disease.
Sigrid Anna Vikjord (Levanger, Norway), Arnulf Langhammer, Lowie Vanfleteren

Late Breaking Abstract - lung function decline in chronic kidney disease
CHI YOUNG KIM (Seoul, Republic of Korea), You Na Kim, Beong Ki Kim

Late Breaking Abstract - The impact on future risk of one moderate COPD exacerbation in GOLD A patients – a cohort study
Anders Lokke (Højbjerg, Denmark), Ole Hilberg, Peter Lange, Rikke Ibsen, Per Bakke, Lene Maria Orts
Chairs: Michal Shteinberg (Haifa, Israel), Zina Alfahl (Galway, Ireland)

Etiology of Bronchiectasis in Adults in Ukraine
Kateryna Gashynova (Dnipro, Ukraine), Kseniia Suska, Valeriai Dmytrychenko

Mortality related risk factors in patients with non-cystic fibrosis bronchiectasis
Oxana Munteanu (Chișinău, Republic of Moldova), Dumitru Chesov, Doina Rusu, Leonid Onea, Victor Botnaru

Particularities of post-tuberculosis bronchiectasis
Sarra Ben Sassi (ariana, Tunisia), Houda Rouis, Chirine Moussa, Marwa Bougacha, Amel Khattab, Ibthiel Khouaja, Leila Bayahi, Ines Zendah, Sonia Maalej

Determinants of Quality of Life using the bronchiectasis impact measure (BIM)
Megan Crichton (Dundee (Angus), United Kingdom), Amelia Shoemark, James Chalmers

Risk factors for Pseudomonas aeruginosa colonization bronchiectasis and clinical implications
Leila Douik El Gharbi (Ariana, Tunisia), Rihab Jebali, Ines Moussa, Imen Sahnoun, Siwar Rejeb, Marwa Bougacha

Initiating NIV in bronchiectasis – Is it a sign of poor life expectancy?
Ashish Chudasama (Pinner, United Kingdom), Felicity Dickens, Tanjila Khan, Rachel Dexter-Spooncer, Anand Shah, Janet Stowell, Michael Loebinger, Ari Manuél, Sriram Iyer, Michael Polkey, Ricardo José

Effect of COVID-19 on non-cystic fibrosis bronchiectasis exacerbation rates: a retrospective claims study
Ioannis Psallidas (London, United Kingdom), Annika Åstrand, Steven J. Kiddle, Rohith Siva Ganesh Munedla, Sanchita Porwal, Kaushik Chafekar, James D. Chalmers

Association between the viscoelastic characteristics and sputum colour in patients with bronchiectasis
Leticia Bueno-Freire, Nona Rovira, Victoria Alcaraz-Serrano, Héctor Sanz-Fraile, Nil Vázquez-Burgos, Rosanel Amaro-Rodriguez, Patricia Ocsanoa, Ruben López-Aladid, Andrea Palomicque, Ramon Farré, Jorge Otero, Laila Fernández-Barat*, Antoni Torres*

Design of the 52-week Phase 3 MAHALE Study of Benralizumab in Patients with Non-Cystic Fibrosis Bronchiectasis
James D. Chalmers (Dundee (Angus), United Kingdom), Lila Bahadori, Dianne Griffis, Annika Åstrand, Carlos Seminario, Eva Rodríguez-Suarez, Yue Song, Vivian H. Shih, Rohit Katial, Christopher Mccrae, Maria Jison, Mihir Shah, Ioannis Psallidas

Bacteriological profile of bronchiectasis superinfections
Hajar Bamha (casablanca, Morocco), Hajar Arfaoui, Hasna Jabri, Wiam El Khattabi, Moulay Hicham Afif

Do adults with Primary Ciliary Dyskinesia (PCD) have a positive experience of home spirometry?
Stevie Peake (London, United Kingdom), Andrew Jones, Ricardo Jose, Elaine Shattock, Michael R Loebinger

Clinical outcomes of bronchiectasis rheumatoid overlap syndrome in Taiwan
Hung Yu Huang (Taipei, Taiwan), Meng Heng Hsieh, Jhen Ling Huang, Fu-Tsai Chung, Chun-Hua Wang, Horng-Chyuan Lin

Assessment of a self-administered home intravenous antimicrobial therapy service for patients with chronic suppurrative lung disease
Georgia Lamb (London, United Kingdom), Sarah Stoll, Ricardo Jose, Michael Loebinger, Anand Shah, Janet Stowell

Improving Physiotherapy Care of Bronchiectasis Inpatients
Jennifer Kilduff (London, United Kingdom), Afrasiab Ahmad, Lizzie Grillo, Janet Stowell

Regional features of Pseudomonas aeruginosaPA) antibiotic (AB) resistance (R) in patients (pts) with bronchiectasis (Bx)
Kateryna Gashynova (Dnipro, Ukraine), Ksenia Suska, Valeriia Dmytrychenko

Filipe Gonçalves Dos Santos Carvalho (Barcelona, Spain), Toni Zapata Comas, Laura Rodriguez Pons, Sara Quero Blanca, Esther Barreiro Portela, Liyun Quin, Annie Navarro Rolon, Javier Pomares Amigó, Concepción Montón Soler, Montserrat Vendrell Relat, Gerard Muñoz Castro, Eva Polverino, Antonia Llunell Casanoves, Guillermo Suarez Cuartin, Carmen Calero Acuña, Jorge Abad Capa, Antoni Rosell Gratacos, Alicia Marin Tapia

Late Breaking Abstract - Optimizing the diagnostic approach for Primary Ciliary Dyskinesia with normal ultrastructure
Johanna Raidt (Münster, Germany), Henrike Krenz, Johannes Tebbe, Jörg Große-Onnebrink, Heike Olbrich, Niki Tomas Loges, Luisa Biebach, Christian Schmalstieg, Christina Keßler, Julia Wallmeier, Bernd Dorniczak, Petra Pennekamp, Martin Dugas, Claudius Werner, Heymut Omran
Thematic poster: Fantastic beasts: where to find them and how to treat

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

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

**Chairs:** Berta Saez Gimenez (Barcelona, Spain), Chair to be confirmed

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**Serological response following second and third SARS-CoV-2 vaccines in lung transplant recipients**
Enikő Bárczi (Budapest, Hungary), Viktoria Varga, Alexandra Nagy, Noemi Eszes, Zsuzsanna Jáky-Kováts, Veronika Müller, Aniko Boahcs

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**Covid-19 in lung allograft recipients - better outcomes after vaccination?**
Mário Alexandre Oliveira Pinto (Amadora, Portugal), João Rodrigues, Ana Sofia Santos, Luisa Semedo

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**Sotrovimab: a new therapeutic option in lung transplant**
Rosa Gutiérrez-Larraya Sánchez-Andrade (Madrid, Spain), Silvia Aguado Ibáñez, Marta Erro Iribarren, Guillermo Padin Pico, Adriana Carolina Amaral Corgo, Brais Baamonde Veiga, Marta Lopez Pando, Sonia Salinas Castillo, Myriam Aguilar Pérez, Rosalía Laporta Hernández, Piedad Ussetti Gil, Beatriz Jara Chinarro

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**Can SARSCov2 infection drive in an acute rejection in lung transplant recipients?**
Thais Beaupertuy Levy (Valencia, Spain), Maria Nieves Bafaguer Cartagena, Desamparados Pastor, Juan Pablo Reig Mézquida, Laura Feced, Gabriel Anguera De Francisco, Alberto García-Ortega, Isabel Amara, Amparo Solé Jover

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**NK and T cells responses to CMV in patients awaiting for lung transplantation**
Laura Bergantini (Siena, Italy), Dalila Cavallaro, Miriana D’Alessandro, Sara Gangi, Luca Luzzi, Antonella Fossi, Piero Paladini, Elena Bargagli, David Bennett

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**Impact of Candida spp. contamination of preservation solutions in lung transplantation: a national experience over a 10-year period**
Clara Noret (Nantes, France), Cédric Bretonnière, Florent Morio, Tristan Degot, Valérie Bru, Clément Picard, Emilie Cardot, Benjamin Coiffard, Stéphane Ranque, Loic Falque, Murielle Cornet, Pierre Gazengel, Anne Gigandon, Agathe Senechal, Jean Menotti, Vincent Bunel, Christine Bonnal, Aurélie Leborgne, Sophie Cassaing, Xavier Demant, Frederic Gabriel, Eric Dannaouoi, F-Xavier Blanc, Adrien Tissot

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**Fungal colonisation in lung transplant recipients: A retrospective study from India**
Owais Tisekar (Bangalore, India), Md Moiz Lalani, Vijil Rahulan, Srinivasa K Ravigati, Unmil Shah, Prabhat Dutta, Sandeep Attawar

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**Clinical outcome following lung transplantation in patients with CF colonized with Burkholderia cepacia complex: results from Mater Hospital lung transplant center Dublin.**
Amel Alameeri (Dublin 4, Ireland), Michelle Murray

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**Late Breaking Abstract - dd-cfDNA and DSA in the occurrence of acute rejection in lung transplant recipients**
Pascal PEDINI (Marseille, France), Silvia Casas, Benjamin Coiffard, Jacques Chioroni, Coralia Frassati, Martine Reynaud-Gaubert, Christophe Picard

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**Late Breaking Abstract - Characterization of chronic lung allograft dysfunction phenotypes using oscillometry**
Anne Fu (Toronto, Canada), Anastasiia Vasileva, Nour Hanafi, Natalia Belousova, Joyce Wu, Sarada Sriya Rajyam, Zoltan Hantos, Chung-Wai Chow

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**Late Breaking Abstract - Safety of oral Nirmatrelvir plus Ritonavir in Lung transplant recipients**
Osnat Straiachman (Petach Tikva, Israel), Lev Fridkin, Ilana Bakal, Dorit Shitpen, Yael Shostak, Moshe Heching, Shai Amor, Dror Rosengarten, Yaron Barae, Yuri Peysakhovich, Ala Atamna, Barak Pertzov, Mordechai Kramer

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**Late Breaking Abstract - Lung transplant and COVID-19: A single centre experience in Ireland**
Helen O’Brien (Ratoath, Ireland), Suzanne Carter, Michelle Murray
### News from the Studio: Day 3 highlights not to miss

**Chairs:** Pierantonio Laveneziana (Paris, France), Émer Kelly (Dublin 4, Ireland)

#### 08:45 Discussion and Q&A

### 8G (live-streamed) Session
#### 09:30 - 11:00

**Hot topics: Thoracic surgery and COVID-19 pandemic: an unexpected intimate relationship**

**Aims:** to report the incidence and outcome of the complications of COVID-19 that require thoracic surgery.

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

**Method(s):** Pulmonary rehabilitation, Surgery, Transplantation

**Tag(s):** COVID

**Target audience:** Adult pulmonologist/Clinician, Medical Student, Nurse, Respiratory critical care physician, Radiologist, Thoracic oncologist, Thoracic surgeon, Respiratory therapist

**Chairs:** Carlos Robalo Cordeiro (Coimbra, Portugal), Federica Meloni (Pavia (PV), Italy)

#### 09:30 Defining appropriate surgical management of thoracic complications

*Isabelle Opitz (Zurich, Switzerland)*

#### 09:45 Tracheal complications after prolonged intubation: risk factors, surgical indications and outcome

*Marco Lucchi (Pisa (PI), Italy)*

#### 10:00 Lung transplant in COVID 19 patients: post acute versus long term sequelae.

*Peter Jaksch (wien, Austria)*

#### 10:15 The positive downside: unveiling of unknown chest malignancies.

*Stefano Elia (Roma (RM), Italy)*

#### 10:30 Discussion and Q&A

### 8C (live-streamed) Session
#### 09:30 - 11:00

**Clinical cases: Lungs on fire: Paediatric respiratory diseases**

**Aims:** To facilitate the presentation of real-life clinical cases as part of an interactive session. Cases vary in difficulty and may require differential diagnosis. This session is led by two discussants who will present cases submitted by respiratory health professionals to a panel of experts and will drive the discussion in a step-by-step approach, encouraging dialogue and reflection among the panel who have no prior knowledge of these cases. As the cases are discussed, the discussants will invite the audience to participate in determining which diagnostic and therapeutic options would be best for these patients.

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

**Tag(s):** Clinical

**Target audience:** Paediatrician, General practitioner, Physician in Pulmonary Training, Clinical researcher, Nurse, Thoracic oncologist, Radiologist, Respiratory physiotherapist, Respiratory therapist

**Chairs:** Marielle W.H. Pijnenburg (Rotterdam, Netherlands), Alexander Möller (Zürich, Switzerland), Cristina Ardura-Garcia (Bern, Switzerland)

**Discussants:** Monika Gappa (Düsseldorf, Germany), Andrew Bush (London, United Kingdom)

#### 09:30 Case 1 incl. panel discussion and Q&A - Author: K. Hillson (United Kingdom)

Monika Gappa (Düsseldorf, Germany)

#### 09:52 Case 2 incl. panel discussion and Q&A - Author: A. Sepahzad (United Kingdom)

Andrew Bush (London, United Kingdom)

#### 10:14 Case 3 incl. panel discussion and Q&A - Author: S. Louey (Australia)

Monika Gappa (Düsseldorf, Germany)

#### 10:36 Case 4 incl. panel discussion and Q&A - Author: M. Folch Benito (Spain)

Andrew Bush (London, United Kingdom)

### Studio Session
#### 09:30 - 11:00

**Language session: Chinese Programme 2022**

A joint ERS/CTS session
**Aims**: To present and discuss the new advances in respiratory medicine presented by experienced speakers from the European Respiratory Society leadership and Chinese leaders in respiratory medicine; to present an overview of hot respiratory disease topics in Europe and China.

**Method(s)**: Epidemiology  Public health  Respiratory intensive care

**Tag(s)**: COVID

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

**Chairs**: Jieming Qu (Shanghai, China), Tobias Welte (Hannover, Germany), Georgia Hardavella (Athens, Greece)

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<th>Time</th>
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<tr>
<td>09:30</td>
<td><strong>Early interventions of lung cancer</strong></td>
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<td>Nanshan Zhong (Guangzhou (Guangdong), China)</td>
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<td>09:45</td>
<td><strong>Status and future perspective of biomarkers in early detection of lung cancer</strong></td>
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<td>Torsten Gerriet Blum (Berlin, Germany)</td>
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<td>10:00</td>
<td><strong>Clinical progress in critical care of pulmonary medicine in China</strong></td>
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<td>Li-xin Xie (Beijing, China)</td>
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<td>10:15</td>
<td><strong>New insights in the pathophysiology of ARDS</strong></td>
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<td>Lieuwe D.J. Bos (Amsterdam, Netherlands)</td>
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<td>10:30</td>
<td><strong>Discussion and Q&amp;A</strong></td>
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**8H (live-streamed) Session** 09:30 - 11:00

**Primary care session: Asthma diagnosis: new and old approaches to increase primary care capability**

**Aims**: to discuss the latest approaches for the difficult task of diagnosing asthma in clinical practice.

**Disease(s)**: Airway diseases

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

**Tag(s)**: Clinical

**Target audience**: Adult pulmonologist/Clinician, General practitioner, Nurse, Physician in Pulmonary Training

**Chairs**: Thierry Troosters (Leuven, Belgium), Hilary Pinnock (Edinburgh (Edinburgh), United Kingdom), Monica Kraft (New York, United States)

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<th>Time</th>
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<td>09:30</td>
<td><strong>The clues for asthma diagnosis in primary care</strong></td>
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<td>Janwillem W. H. Kocks (Groningen, Netherlands)</td>
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<td>09:45</td>
<td><strong>New and old tests for asthma diagnosis in primary care: from peak-flow to FeNO</strong></td>
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<td>David Lo (Leicester, United Kingdom)</td>
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<td>10:00</td>
<td><strong>Oscillometry: a renewed and suitable tool for asthma diagnosis in primary care?</strong></td>
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<td>Salman Siddiqui (Leicester, United Kingdom)</td>
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<td>10:15</td>
<td><strong>From diagnosis to self-management: supporting the patient’s journey</strong></td>
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<td>Cláudia Vicente (Coimbra, Portugal)</td>
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**8A (live-streamed) Session** 09:30 - 11:00

**State of the art session: Sleep and breathing disorders**

**Myth or reality: is obstructive sleep apnoea really critical for cardiovascular complications? Current evidence about pathophysiology, clinical implications and future perspectives**

**Aims**: to summarise the current knowledge of the impact of obstructive sleep apnoea (OSA) on cardiovascular complications; to explain the link between the hypoxic burden, associated intracellular mechanisms and cardiovascular comorbidities; to describe critical endpoints of OSA including cardiovascular morbidity, mortality and patient-related outcome measures; to summarise current evidence of the effects of positive airway pressure (PAP) treatment on cardiovascular endpoints; to critically discuss the limitations and strengths of current trials; to define future research needs.
Disease(s) : Sleep and breathing disorders
Method(s) : General respiratory patient care  Physiology
Tag(s) : Clinical
Target audience : Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Medical Technical Assistant, Nurse, Scientist (basic, translational)
Chairs : Sophia E. Schiza (Heraklion, Greece), Winfried J. Randerath (Solingen, Germany)

09:30 The hypoxic burden and intracellular mechanisms
Silke Ryan (Dublin, Ireland)

09:45 What endpoints really matter? The clinical relevance of morbidity, mortality and patient-related outcome measures
G. Parati (Milano (MI), Italy)

10:00 Appraisal and critical review of the effects of PAP treatment on cardiovascular endpoints
Anita Simonds (London, United Kingdom)

10:15 The future of sleep science: what are the correct targets, outcome parameters, innovative studies and methodologies?
Raphael Heinzer (Lausanne, Switzerland)

10:30 Discussion and Q&A

8B (live-streamed) Session 09:30 - 11:00
Journal session: Respiratory strategies for COVID-19, diagnostic strategies for venous thromboembolism and screening for COPD

Highlights from JAMA
Aims : to provide an update on noninvasive respiratory strategies for acute hypoxemia in COVID-19; to provide an update on screening for COPD; to provide an update on diagnostic strategies for venous thromboembolism.

Disease(s) : Airway diseases  Respiratory critical care
Method(s) : Epidemiology  General respiratory patient care  Respiratory intensive care
Tag(s) : Clinical
Target audience : Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Respiratory critical care physician, Physician in Pulmonary Training, Respiratory therapist
Chairs : Olivier Sitbon (Le Kremlin-Bicêtre, France), Kristin Walter (Chicago, United States)

09:30 Noninvasive diagnostic strategies for acute hypoxemia in COVID-19
Gavin D Perkins (Birmingham (West Midlands), United Kingdom)

09:45 Screening for COPD
John R Hurst (London, United Kingdom)

10:00 Diagnostic strategies for venous thromboembolism
Yonathan Freund (Paris, France)

10:15 Discussion and Q&A

8L Session 09:45 - 11:00
Oral presentation: Recent advances in biological treatments for asthma

Disease(s) : Airway diseases
Method(s) : General respiratory patient care  Physiology  Epidemiology
Chairs : Manali Mukherjee (Hamilton (ON), Canada), Apostolos Bossios (Stockholm, Sweden)

Efficacy of tezepelumab in patients with severe, uncontrolled asthma and low blood eosinophil counts not receiving maintenance oral corticosteroids
Andrew Menzies-Gow (London, United Kingdom), Bill Cook, Gene Colice, Åsa Hellqvist, Jean Pierre Llanos-Ackert, Christopher S. Ambrose

Prevalence and impact of hypereosinophilia in severe asthma treated by dupilumab: an observational analysis
Stephanie Everaerts (Leuven, Belgium), Bart Hilvering, Els Weersink
Dupilumab improved lung function and reduces exacerbations in patients with 1, 2, or 3 prior exacerbations: TRAVERSE
Jonathan Corren (Los Angeles, United States), Mario Castro, Jorge F Maspero, Marc Humbert, David M G Halpin, Arman Altincatal, Nami Pandit-Abid, Xavier Soler, Shahid Siddiqui, Juby A Jacob-Nara, Yamo Deniz, Paul J Rowe

Benralizumab attenuates blood and airway eosinophilia in severe asthmatics with inadequate response to anti-IL-5 neutralizing antibodies
Manali Mukherjee (Hamilton (ON), Canada), Anurag Bhalla, Carmen Venegas-Garrido, Chynn Huang, Katherine Radford, Melanie Kjarsgaard, Sylvia Lauks, Kiho Son, Nicola Lavigne, Roma Schmi, Paul O’Byrne, Parameswaran Nair

Past smoking does not influence response to biologic therapy in patients with severe asthma
Mohammed Rahman (Portsmouth, United Kingdom), Paddy Dennison, Adnan Azim, Anna Freeman, Hans Michael Hatchi, Ramesh Kurukulaaratchy, Hitasha Rupani

Relation between reduction in fractional exhaled nitric oxide and efficacy in asthma patients treated with dupilumab
Ian Douglas Pavord (Oxford (Oxfordshire), United Kingdom), Yamo Deniz, Thomas Casale, Jonathan Corren, Mark Fitzgerald, Nadia Daizadeh, Alexandre Jagerschmidt, Myles Dillon, Rebecca Gall, Nami Pandit-Abid, Shahid Siddiqui, Juby A. Jacob-Nara, Paul J. Rowe, William W. Busse

On-treatment clinical remission with tezepelumab among patients with severe, uncontrolled asthma in the phase 3 NAVIGATOR study
Mario Castro (Kansas City, United States), Christopher S Ambrose, Gene Colice, Stephanie L Roseti, Kamil Kmita, Bill Cook, Neil Martin, Jean-Pierre Llanos-Ackert, Andrew Menzies-Gow

Clinical response and remission in patients with severe asthma treated with biologic treatment: Findings from the nationwide Danish Severe Asthma Registry
Celeste Michala Porsbjerg (Copenhagen, Denmark), Susanne Hansen, Anna Von Buelow, Marianne Baastup Soendergaard, Linda Makowska Rasmussen, Claus Rikard Johnsen, Truls Sylvan Ingebrigtsen, Kjell Erik Julius Haakamsson, Karin Dahl Assing, Sofie Lock Johansson, Johannes Schmid, Anne-Sofie Bjerrum, Ole Hilberg, Charlotte Ulrik

Effect of tezepelumab on a composite of severe asthma exacerbations and acute worsening events, CompEx, in the phase 3 NAVIGATOR study
Guy Brusselle (Ghent, Belgium), Neil Martin, Sandhya Ponnarambil, Gillian Hunter, Åsa Hellqvist, Malin Fagerås, Carla A Da Silva

Late Breaking Abstract - Mepolizumab effectiveness in severe asthma supported by federated analysis of European SHARP data

Discussion

8N Session 09:45 - 11:00

Oral presentation: Cellular involvement in lung diseases
Disease(s): Respiratory critical care  Intestinal lung diseases  Airway diseases
Method(s): Respiratory intensive care  Cell and molecular biology
Chairs: Agnes Boots (Maastricht, Netherlands), Sara Rolandsson Enes (Lund, Sweden)

Extracellular vesicles propagate cellular senescence by transferring miR34a in airway epithelial cells
Justine Devulder (London, United Kingdom), Jonathan R. Baker, Lina Oqvist, Louise E. Donnelly, Peter J. Barnes

SFRP1-linked extracellular vesicles promotes pulmonary fibrosis
Olivier Burgi (Dijon, France), Christoph H. Mayr, Beatriz Ballester Llobell, Arunima Sengupta , Sabrina Loriod, Ali Önder Yildirim , Mareike Lehmann , Herbert B. Schiller, Gerald Burgstaller, Melanie Königshoff

Potential prothrombotic role of extracellular vesicles during exacerbation of chronic obstructive pulmonary disease
Erica Bazzan (Padova (PD), Italy), Tommaso Neri, Dario Nieri, Federica Ceriegi, Camilla Morani, Alessandro Celi

MSC extracellular vesicles ameliorate ARDS via activation of mitochondrial biogenesis
Catherine McClinock (Bangor, United Kingdom), Johnatas Silva, Declan Doherty, Cecilia O’Kane, Daniel Mc Auley, Anna Krasnodenibskyaya
Characterization of Mesenchymal Cell from BAL of post COVID-19 patient with fibrosis
Matteo Della Zoppa (Pavia, Italy), Maria Antonietta Avanzini, Sara Bozzini, Stefania Croce, Cecilia Bagnera, Chiara Valsecchi, Laura Pandolfi, Elisa Lenta, Sara Lettieri, Valentina Vertui, Laura Saracino, Federica Meloni

Mitochondrial dysfunction features in lung resident mesenchymal stem cells from patients with Idiopathic Pulmonary Fibrosis
Aina Martín Medina (Palma, Spain), Joan Truyols-Vives, Linda Elowson, Andreas Jahn, Carlos Rio, Amanda Iglesias, Ana Montes, Julio Velasco, Maria Molina-Molina, Gunilla Westergren-Thorsson, Josep Mercader-Barceló, Ernest Sala-Llinas

LSC - 2022 - Biomarker identification to assess effects of bone-marrow derived mesenchymal stromal cell-therapy in emphysema through immune profiling
Padmini P. S. J. Khedoe (Den Haag, Netherlands), Li Jia, Na Li, Pieter S. Hiemstra, Frits Koning, Jan Stolk

Mesenchymal Stem Cells derived Biospheres (BS) as potential therapeutic agent in lung disease like Idiopathic Pulmonary Fibrosis (IPF)
Andreas Jahn (Palma De Mallorca, Spain), Carlos Rio, Aina Martin-Medina, Amanda Iglesias, Javier Pierola, Orokia Clara Traore Diaby, Ernest Sala Llinas

Combined Cell Therapy and Anticoagulants as a treatment for an in vivo model of Acute Lung Injury
Marta Camprubí-Rimblas (Molins de Rei, Spain), Aina Arey-Balagueró, Elena Campaña-Duel, Luis Morales-Quinteros, Adrian Ceccato, Luis Blanche, Antonio Artigas

Late Breaking Abstract - Human induced pluripotent stem cell-derived alveolar type 2 cells mature at air-liquid interface and respond to airborne stimuli
Kristine Abo (Cambridge, United States), Andrew Wilson

Discussion

8M  Session  09:45 - 11:00
Mini symposium: Diagnosis and management of pneumonitis in lung cancer systemic therapy
Immune-related and targeted therapy toxicities

Aims: to provide an overview of the incidence and specific patterns of lung toxicity associated with immune-checkpoint inhibitors, molecular targeted agents and radiation used for lung cancer therapy; to cover a general discussion of the clinical presentation, pathogenesis, diagnosis, differential diagnosis and treatment of pulmonary toxicity associated with the use of antineoplastic agents; to provide a review of potential biomarkers that could guide our clinical reasoning in immune-related toxicities.

Disease(s): Thoracic oncology
Method(s): General respiratory patient care
Tag(s): Clinical
Target audience: Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Pathologist, Physician in Pulmonary Training, Radiologist, Thoracic oncologist
Chairs: Joanna Chorostowska-Wynimko (Warsaw, Poland), Maria Joana Pereira Catarata (Porto, Portugal)

09:45  Immune-checkpoint inhibitors: diagnosis and management of pneumonitis in lung cancer patients
Jacques Cadranel (Paris Cedex 20, France)

10:00  Pulmonary toxicity associated with antineoplastic therapy: Molecular targeted agents
Maria Gabriela Oliveira Fernandes (Matosinhos, Portugal)

10:15  Pneumonitis and radiotherapy: diagnosis and management
Katherina Bernadette Sreter (Zagreb, Croatia)

10:30  Discussion and Q&A

8F  Session  09:45 - 11:00
Mini symposium: State-of-the-art in the home mechanical ventilation

Aims: to state main components orienting new developments in the field of home mechanical ventilation (including hypoxia, hypercapnia, secondary symptoms such as weak cough and stagnation of airway secretion leading to diminished health related quality of life (HRQL) and increased risk of pneumonia).

Disease(s): Sleep and breathing disorders
Method(s): Epidemiology General respiratory patient care Pulmonary function testing
Tag(s): Clinical
Target audience: Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Respiratory critical care physician, Patient, Physician in Pulmonary Training, Respiratory physiotherapist, Respiratory therapist
### Chronic respiratory failure in neuromuscular disorders: diagnosis and treatment
Barbara Garabelli (Romentino (NO), Italy)

### Airway clearance and cough augmentation strategies
Tiina Andersen (Bergen, Norway)

### Homecare, follow-up and outcomes of the treatment
Jean-Paul Janssens (Genevè, Switzerland)

### Discussion and Q&A

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### INDUSTRY SKILLS LAB WORKSHOP
**SEE PAGE 1**

#### 8D Session 10:40 - 13:00

**Skills workshop: SW8 Thoracic ultrasound**

**Aims**: To describe the current use of thoracic ultrasound and to provide participants with the opportunity to perform this technique using training models, simulators, volunteers and patients.

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

**Tag(s)**: Clinical

**Chairs**: Najib M. Rahman (Oxford, United Kingdom)

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Speakers</th>
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<tbody>
<tr>
<td>10:40</td>
<td>The normal thoracic cavity</td>
<td>Rachelle Asciak (SIGGIEWI, Malta), Beenish Iqbal (London, United Kingdom)</td>
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<td>11:10</td>
<td>Pleural effusion and/or pleural thickening</td>
<td>Giovanni Volpicelli (Torino (TO), Italy), Morten Bendixen (Skejby, Denmark)</td>
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<td>11:40</td>
<td>Case studies</td>
<td>Poppy Denniston (London, United Kingdom), Eleanor Barton (Bristol, United Kingdom)</td>
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<td>12:10</td>
<td>Lymph node biopsy using models</td>
<td>Pia Iben Pietersen (Odense NØ, Denmark), Rachel Mercer (Winchester, United Kingdom)</td>
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#### 8A (live-streamed) Session 11:15 - 12:45

**Symposium: The many faces of central sleep apnoea and hypoventilation syndromes**

**Aims**: to discuss the phenotypes of central sleep apnoea and the impact of biomarkers on outcomes, new pathophysiological insights and consecutive therapeutic options for obesity hypoventilation, the strengths and limitations of positive airway pressure during the lifetime and the relevance of comonitant pulmonary disease with not only obstructive, but also central, sleep apnoea.

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

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

**Tag(s)**: Clinical

**Target audience**: Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Medical Technical Assistant, Nurse, Respiratory critical care physician, Physician in Pulmonary Training, Scientist (basic, translational)

**Chairs**: Sophia E. Schiza (Heraklion, Greece), Winfried J. Randerath (Solingen, Germany)

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<tr>
<th>Time</th>
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<tr>
<td>11:15</td>
<td>Phenotyping and prognostic markers of central sleep apnoea: is treatment of central sleep apnoea necessary?</td>
<td>Winfried J. Randerath (Solingen, Germany)</td>
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<td>11:30</td>
<td>Opioid-induced central sleep apnoea: exceptional or epidemic?</td>
<td>Shalrookh Javaheri (Cincinnati, United States)</td>
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<td>11:45</td>
<td>New perspectives in obesity hypoventilation: from pathophysiology to treatment</td>
<td>Jean-Louis Pépin (Grenoble, France)</td>
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<tr>
<td>12:00</td>
<td>Continuous positive airway pressure and non-invasive ventilation in hypoventilation syndromes from childhood to adulthood</td>
<td>Marieke L. Duiverman (Groningen, Netherlands)</td>
</tr>
</tbody>
</table>
Symposium: Management of complicated sarcoidosis
Management decisions and dealing with complications
Aims: to discuss new insights into the management of complicated sarcoidosis; to discuss the diagnosis and treatment of fibrotic sarcoidosis, one of the most challenging and unmet needs, in depth; to explore the latest insights into the management of complications and co-morbid conditions such as pulmonary hypertension and infections (mainly fungal); to discuss other important extrapulmonary organ involvements such as those of the heart and brain, which frequently confront pulmonologists.

Disease(s): Interstitial lung diseases, Pulmonary vascular diseases, Respiratory infections

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

Tag(s): Clinical

Target audience: Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Respiratory critical care physician, Patient

Chairs: Carlos Robalo Cordeiro (Coimbra, Portugal), Federica Meloni (Pavia (PV), Italy)

11:15 Patient's testimony
Barbara Bandirali (Italy)

11:20 Management of fibrotic sarcoidosis
Vivienne Kahlmann (Rotterdam, Netherlands)

11:35 Management of pulmonary hypertension in sarcoidosis
Laura Price (London, United Kingdom)

11:50 Infections as drivers of sarcoidosis
Marcel Veltkamp (De Meern, Netherlands)

12:05 Complex extrapulmonary sarcoidosis: the heart, brain and more
Paolo Spagnolo (Padova (PD), Italy)

12:15 Discussion and Q&A
An International Curriculum for Respiratory Nurses (ICRN): Supporting standardized respiratory nursing education in Croatia
Andreja Sajnic (Zagreb, Croatia), Georgia Narsavage, Sandra Karabatic, Tanja Zovko, Irena Godic, Aleksandra Trupkovic, Tihana Odobasic Palkovic, Maja Majeric, Azra Hodzic, Ivana Lalic Cickovic, Romana Palić, Nikolina Dodlek, Jasminka Milicevic, Mario Gazic, Ana Ljubas, Marko Jakopovic

Nurses specialized through higher education in asthma, allergy and COPD. Experiences from a Swedish perspective - A winning concept for the clinic
Caroline Stridsman (Luleå, Sweden), Ann-Britt Zakrisson, Therese Sterner

An exploration of the experiences of respiratory clinical nurse specialists (CNS) and advance nurse practitioners (ANP) in Irish healthcare settings
Bridget Murray (DUBLIN, Ireland)

How confident are nursing students about their respiratory knowledge and assessment skills?
Nicola J. Roberts (Edinburgh, United Kingdom), Maria Renwick, Lindsay Welch, Kate Lippiett, Carol Kelly

**Discussion**

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<th>Session</th>
<th>11:15 - 12:30</th>
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<td><strong>8M</strong></td>
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**Oral presentation: Innovation in thoracic surgery**

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

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

**Chairs:** Marcello Migliore (Catania (CT), Italy)

The risk of postoperative pulmonary complications in lung resection candidates with normal values of FEV1 and DLCO – a subgroup analysis from a prospective multicenter study.
Kristian Brat (Brno, Czech Republic), Ivan Cundrle Jr, Michal Svoboda, Monika Bratova, Ladislav Mitas, Zdenek Merta, Andrej Mazur, Pavel Homolka, Zdenek Chovanec, Lyle J. Olson

Prognostic significance of N1 nodal metastasis patterns in surgically treated patients with pT1-2 non-small cell lung cancer
Güntüğ Batıhan (Izmir, Turkey), Kenan Can Ceylan, Ahmet Üçvet, Seyda Ors Kayxa, Serkan Yazgan

Analysis of Flow and Pressure with an in-vitro model of a lung while a drainage system delivers a varying suction pressure
Frans H.C. De Jongh (Enschede, Netherlands), Rejaar Asad, Pacal Steenvoorde, Ron Speekenbrink, Kees Venner, Michiel Wagenaar

Extended Pleurectomy/Decortication in Malignant Pleural Mesothelioma: preceding or following chemotherapy? Perioperative data and short-term outcomes of a single Institution
Giulia Maria Stella (Pavia (PV), Italy), Francesco Falanga, Chandra Bortolotto, Olga Oneta, Francesco Agustoni, Patrizia Morbini, Laura Saracino, Stefano Tomaselli, Pietro Rinaldi, Cristiano Primiceri

Electromagnetic navigation bronchoscopy localization of small lung nodules previous to thoracoscopic resection
Alessio Vincenzo Mariolo (Paris, France), Guillaume Boddaert, Emmanuel Brian, Madalina Grigoroiu, Dominique Gossot, Agathe Seguin-Givelet

Comparison of survival after extrapleural pneumonectomy versus pleurectomy/decortication for malignant pleural mesothelioma in the era of macroscopic complete resection: A meta-analysis
Kalliopi Athanassiadis (Athens, Greece), Dimitrios Magouliotis, Anna Karamolegkou, Prokopis-Andreas Zotos, Evangelos Tatsios, Kyriakos Spirooulos, Thanos Athanasiou

Influence of the Surgeons’ Seniority in the Quality of Life of Patients with Prolonged Air Leaks (PAL) after Lobectomy for Lung Cancer
Luca Bertolaccini (Milan, Italy), Oriana Ciani, Elena Prisciandaro, Marco Lucchi, Francesco Zaraca, Roberto Crisci, Rosanna Tarricone, Lorenzo Spaggiari

Local experience of surgical management of tracheal stenosis
Joana Borges (Coimbra, Portugal), Luis Graça, Sara Cunha, António Jorge Ferreira, João José Bernardo

Evaluation of prognostic factors for patients who underwent pneumonectomy for non-small cell lung cancer
Güntüğ Batıhan (Izmir, Turkey), Kenan Can Ceylan, Seyda Ors Kayxa

**Discussion**
**Oral presentation: Lung function and risk factors associated with obstructive lung diseases**

**Disease(s):** Airway diseases, Interstitial lung diseases, Respiratory critical care  
**Method(s):** Epidemiology, Physiology, Pulmonary function testing, Public health, Respiratory intensive care  
**Chairs:** Om Prakash Kurmi (Coventry, United Kingdom), Joan B Soriano (Madrid, Spain)

- **Lung function trajectories based on annual measurements for 10 years in adults with airway obstruction**  
  Helena Backman (Lulea, Sweden), Anders Blomberg, Anders Lundquist, Viktor Strandkvist, Sami Sawalha, Ulf Nilsson, Caroline Stridsman, Lineea Hedman, Eva Rönmark, Anne Lindberg

- **Multi-ancestry genetic risk score for lung function from meta-analysis of genome-wide association studies in 580,869 individuals from five ancestry groups**  
  Nick Shrine (Leicester, United Kingdom), Abril Izqueirdo, Jing Chen, Anna L Guyatt, Richard Packer, Chiara Batini, Alfred Pozarikij, Robin G Walters, Stephanie London, Andrew P Morris, Louise V Wain, Ian P Hall, Martin D Tobin

- **Prevalence and risk factors for small airways obstruction: Results from the Burden of Obstructive Lung Disease (BOLD) study.**  
  Ben Knox-Brown (NEWMARKET, United Kingdom), Jaymini Patel, Peter Burney, Andre Amaral

- **Race-adjusted lung function increases inequities in diagnosis and prognosis and should be abandoned**  
  Magnus Ekström (Lund, Sweden), David Mannino

- **Plasma IgE and risk of exacerbation and mortality in COPD in the general population**  
  Yunus Çolak (Herlev, Denmark), Truls S. Ingebrigtsen, Borge G. Nordestgaard, Jacob L. Marott, Peter Lange, Jørgen Vestbo, Shoaib Afzal

- **Frequency and severity of respiratory infections prior to COPD diagnosis and risk of subsequent post-diagnosis COPD exacerbations and mortality: a UK routine health care data study**  
  Hannah Whittaker (London, United Kingdom), Clementine Nordon, Annalisa Rubino, Tamsin Morris, Yang Xu, Enrico De Nigris, Hana Müllerová, Jennifer Quint

- **COVID-19 real-world data (RWD) insights regarding exacerbations and serum Eosinophil levels in Asthma and Chronic Obstructive Pulmonary Disease (COPD).**  
  Michael Cushion (Biggleswade, United Kingdom)

- **Lung development genes, adult lung function and cardiovascular comorbidities**  
  Mohammad Talaei Pashiri (London, United Kingdom), Laura Portas, Nay Aung, Matthew Hind, Charlotte Dean, Cosetta Minelli, Seif O. Shaheen

- **Factors associated with specific causes of death in a primary care COPD population in England**  
  Hannah Whittaker (London, United Kingdom), Kieran Rothnie, Jennifer Quint

- **Late Breaking Abstract - Beyond direct costs: Individual and societal burden of asthma in young adults**  
  Kjell Erik Julius Håkansson (København N, Denmark), Anders Løkke, Rikke Ibsen, Ole Hilberg, Vibeke Backer, Charlotte Suppli Ulrik

**Discussion**

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**Oral presentation: Bronchiectasis**

**Disease(s):** Airway diseases, Respiratory critical care  
**Method(s):** Epidemiology, Public health, Cell and molecular biology, General respiratory patient care, Physiology, Respiratory intensive care, Imaging  
**Chairs:** Michael Loebinger (London, United Kingdom), Pieter Goeminne (Bornem, Belgium)

- **The antimicrobial resistome in bronchiectasis: an international multicentre study**  
  Micheál Mac Aogáin (Dublin, Ireland), Fransiskus Xaverius Ivan, Tavleen Jaggi, Holly R Keir, Alison J Dicker, Albert Lim Yick Hou, Mau Ern Poh, Mariko Siyue Koh, Ong Thun How, Augustine Tee, Teck Boon Low, John Arputhan Abisheganaden, Francesco Blasi, Stefano Aliberti, James D Chalmers, Sanjay H Chotirmall

- **The role of the NLRP3 inflammasome in mucociliary clearance in bronchiectasis: The EMBARC-BRIDGE study**  
  Lidia Perea Soriano (Barcelona, Spain), Mathieu Bottier, Erin Cant, Hollian Richardson, Alison J Dicker, Morven Shuttleworth, Holly R Keir, Yan Hui Giam, Simon Finch, Jeffrey T J Huang, Michal Shteinberg, Pieter C Goeminne, Eva Polverino, Josje Altenburg, Francesco Blasi, Tobias Welte, Stefano Aliberti, Oriol Sibila, James D Chalmers, Amelia Shoemark
Characteristics of frequent exacerbators in the US Bronchiectasis and NTM Research Registry (BRR)
Nicole Lapinell (New Orleans, United States), Radmila Choate, Timothy Aksamit, Joseph Feliciano, Kevin Winthrop, Andreas Schmid, Jasminda Wu, Mariam Hassan, Sebastian Fucile, Mark Metersky

Neisseria species as pathobionts in bronchiectasis.

Genome sequencing reveals underdiagnosis of primary ciliary dyskinesia in bronchiectasis
Amelia Shoemark (Dundee (Angus), United Kingdom), Helen Griffin, Gabrielle Wheway, Claire Hogg, Jane S Lucas, Carme Camps, Jenny Taylor, Mary Carroll, Micheal R Loebinger, James D Chalmers, Deborah Morris-Rosendahl, Hannah M Mitchison, Anthony De Soyza

Implementing tablet-based ototoxicity screening in adult respiratory patients
Jamie Cheong (London, United Kingdom), Shereen Boreland, Barbara Belkarty, Andrew Jones, Imogen Felton, Emem-Fong Ukor, Janet Stowell, Ricardo Jose, Susan Madge, Julie Wilkins, Emily Frost, Presanna Premachandra, Michael Loebinger, Francis Drobniewski, Nicholas Simmonds, Anand Shah

Dysregulation of the microbial 'gut-lung' axis in bronchiectasis

Longitudinal analysis of bronchiectasis exacerbations (BEx) in patients from the US Bronchiectasis and NTM Research Registry (BRR)
Timothy Aksamit (Rochester, United States), Nicole Lapinell, Radmila Choate, Joseph Feliciano, Kevin Winthrop, Andreas Schmid, Jasminda Wu, Mariam Hassan, Sebastian Fucile, Mark Metersky

The ROSE criteria for coexistent COPD-bronchiectasis: association with future exacerbations and death
Wojciech Dolliver (BROOKLINE, United States), Wei Wang, Jose Orejas, Diego Maselli, Andrew Yen, Kendra Young, Gregory Kinney, Michael Cho, Raul San José Estebaran, Alejandro Diaz

Late Breaking Abstract - Bronchiectasis in AATD: initial report of EARCO
Robert Andrew Stockley (Birmingham (West Midlands), United Kingdom), Anita Pye, Alice Turner

Discussion

**8B (live-streamed) Session 11:15 - 12:45**

**Clinical cases: Clinical challenges beyond guidelines**

**Aims**: to describe the controversial aspects of the current guidelines for the management of adults with COVID-19 in the intensive care unit, clinical standards for tuberculosis infection, optimal follow-up after acute pulmonary embolism and imaging of pulmonary embolism in pregnancy; to discuss data underpinning nonadherence and alternative approaches to current recommendations; to propose evidence-based substitute management recommendations for clinicians; to identify areas of concern; to highlight the need for further research.

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

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

**Tag(s)**: Clinical

**Target audience**: Adult pulmonologist/Clinician, Respiratory critical care physician, General practitioner, Medical Student, Radiologist, Physician in Pulmonary Training, Clinical researcher

**Chairs**: Olivier Sibton (Le Kremlin-Bicêtre, France), Kristin Walter (Chicago, United States)

11:15 Management of adults with COVID-19 in the intensive care unit
Christian Karagiannidis (Cologne, Germany)

11:30 Discussion and Q&A

11:37 Clinical standards for tuberculosis infection
Marc Lipman (London, United Kingdom)

11:52 Discussion and Q&A

11:59 Optimal follow-up after acute pulmonary embolism
Oliver Sanchez (Paris, France)

12:14 Discussion and Q&A
Guidelines session: ERS clinical practice guidelines for the diagnosis of asthma in adults

Disease(s): Airway diseases

Method(s): General respiratory patient care

Target audience: Adult pulmonologist/Clinician, General practitioner, Medical Student, Physician in Pulmonary Training, Clinical researcher

Chairs: Andrew Bush (London, United Kingdom)

Discussion and Q&A

Omar S. Usmani (London, United Kingdom), Renaud Louis (Liège, Belgium)

Primary care session: Forgotten issues in chronic obstructive pulmonary disease: a primary care perspective

Aims: to increase the knowledge and motivation of healthcare professionals in relation to issues and interventions besides pharmacological treatment from a primary care perspective; to discuss best approaches of assessment and treatment of mental disorders that are common in patients with COPD; to raise awareness on a need of rehabilitation programmes that currently are are very scarce and inaccessible for many COPD patients, especially in low resource settings where telerehabilitation approaches may be unreliable, and remote options need to be realistic; to discuss the effect of COPD on sexual satisfaction that is often underappreciated in clinical practice, and improved information and communication regarding sexual health is needed; to start a discussion on early integrated palliative care for COPD patients that should be developed in primary care.

Disease(s): Airway diseases

Method(s): General respiratory patient care Palliative care Pulmonary rehabilitation

Target audience: Adult pulmonologist/Clinician, General practitioner, Medical Student, Nurse, Patient, Respiratory physiotherapist

Chairs: Thierry Troosters (Leuven, Belgium), Hilary Pinnock (Edinburgh (Edinburgh), United Kingdom)

COPD and mental health

Ioanna Tsiligianni (Heraklion (Crete), Greece)

Home-based pulmonary rehabilitation in a digital world: an alternative for low-to-middle income countries?

G M Monsur Habib (Khulna, Bangladesh)

COPD and sexual health

Andreia Rodrigues Silva (Vila do Conde, Portugal)

A palliative approach to COPD

Miriam Johnson (Hull (North Humberside), United Kingdom)

State of the art session: Paediatric respiratory diseases

Aims: to provide clinicians with practical take-home messages regarding the key management and health policy issues related to the respiratory health of children and young people; to provide an update on four important topics in paediatric respiratory medicine.

Disease(s): Paediatric respiratory diseases Respiratory infections Sleep and breathing disorders

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

Target audience: Clinical researcher, General practitioner, Medical Student, Nurse, Respiratory critical care physician, Paediatrician, Patient, Physician in Pulmonary Training

Chairs: Marielle W.H. Pijnenburg (Rotterdam, Netherlands), Alexander Möller (Zürich, Switzerland), Cristina Ardura-Garcia (Bern, Switzerland)
11:15  Patient's testimony
Speaker to be confirmed

11:20  Diagnosis and management of respiratory infections in children and young adults with neurological impairment
Marijke Proesmans (Leuven, Belgium)

11:35  Paediatric long-term noninvasive ventilation
Brigitte Fauroux (Paris, France)

11:50  Paediatric interventional bronchoscopy
Dirk Schramm (Düsseldorf, Germany)

12:05  Respiratory function monitoring in neonatal and paediatric intensive care units
David Tingay (Melbourne (VIC), Australia)

12:20  Discussion and Q&A

8F  Session  12:45 - 14:00

Oral presentation: Sarcoidosis: from disease pathogenesis to prediction of disease behaviour

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

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

**Chairs:** Karen Moor (Rotterdam, Netherlands), Natalia V. Rivera (Stockholm, Sweden)

- Imbalance between Th17 and Tregs in the EBUS/TBNA lymph nodes in patients with pulmonary sarcoidosis.
  Agata Raniszewska (Warszawa, Poland), Elzbieta Rutkowska, Iwona Kwiecień, Joanna Bednarek, Rafał Sokolowski, Karina Jahnz-Rozyk, Piotr Rzepecki

- Bronchoscopy in sarcoidosis – EBUS-TBNA, transbronchial biopsy or cryobiopsy?
  Charlott Terschluse (Freiburg, Germany), Martin Feineis, Wolfram Meschede, Thomas Köhler, Daniel Soriano, Sebastian Fähndrich, Joachim Müller-Quernheim, Daiana Stolz, Björn Frye

- Risk factor of pulmonary embolism in sarcoidosis patients: a pilot study
  Barbara Ruaro (Trieste, Italy), Paola Confalonieri, Chiara Torregiani, Silvia Pichierri, Marco Confalonieri, Francesco Salton

- Changes in forced vital capacity over time in pulmonary fibrosing sarcoidosis: application of group-based trajectory modelling
  Florence Jeny (Bobigny, France), Marina Cumin, Philippe Khafagy, Pierre-Yves Brillet, Diane Bouvry, Thomas Gille, Nanthara Sritharan, Marouane Boubaya, Dominique Valeyre, Hilario Nunes

- Strain echocardiography for the prognostic estimation of patients with sarcoidosis
  Paolo Cameli (Siena (SI), Italy), Maria Concetta Pastore, Giulia Elena Mandoli, Mariangela Vigna, Giuseppe De Carli, Laura Bergantini, Miriana D'Alessandro, Nicolò Ghionzoli, Elena Bargagli, Matteo Cameli

- Effect of hydroxychloroquine in cutaneous sarcoidosis or musculoskeletal-related pain
  Britney Vermeer (Nieuwegein, Netherlands), Marcel Veltkamp, Adriane D.M. Vorselaars

- Online mindfulness-based cognitive therapy reduces anxiety and depression in patients with sarcoidosis
  Vivienne Kahlmann (Rotterdam, Netherlands), Catharina C Moor, Sanne J Van Helmond, Rémy L Mostard, Marije L Van Der Lee, Jan C Grutters, Marlies S Wijsenbeek, Marcel Veltkamp

- Chronic hypersensitivity pneumonitis - how to predict the treatment success?
  Katarzyna B. Lewandowska (Warszawa, Poland), Inga Baranska, Małgorzata Sobiecka, Piotr Radwan-Rohrenscheif, Małgorzata Dybowska, Monika Franczuk, Adriana Rozy, Agnieszka Skoczyłas, Iwona Bestry, Jan Kus, Witold Tomkowksi, Monika Szturmowicz

- Home environmental fungal exposure in patients with Hypersensitivity Pneumonitis – pilot analysis
  David Jorge Araújo Barros Coelho (Braga, Portugal), Joao Cavaleiro Rufo, Rita F Santos, Natalia Melo, Patricia Caetano Mota, Andre Terras Alexandre, Helder Novais Bastos, Antonio Morais

Discussion

8L  Session  12:45 - 14:00

Oral presentation: What's new in COVID
Airway remodeling in COVID-19 lungs

Airway microbiota profiles associated with total lung capacity after severe COVID-19
Sabine Stadler (Lausanne, Switzerland), Eric Bernasconi, Niki Ubags, Louis Mercier, Berra Erkosar, Christophe Von Garnier

Vitamin D to prevent COVID-19 or other acute respiratory infections: phase 3 randomised controlled trial (CORONAVIT)
Adrian R Martineau (London, United Kingdom), David A Jolliffe, Hayley Holt, Mohammad Talaei, Aziz Sheikh, Christopher J Griffiths, Seif O Shaheen, Clare Relton

Faster clinical recovery with ensolvibep compared to placebo in patients with mild-to-moderate COVID-19: interim results from the EMPATHY Phase 2 trial
Andreas Tietz (Basel, Switzerland), Richa Chandra, Luis Abrahshamian, Marc Bonten, Pierre Fustier, Kinfemichael Gedif, Susana Gonzalez, Awawu Igbinadolor, Jeff Kingsley, Charles Knutson, Nagalingeswaran Kumarasamy, Philippe Legenne, Martha Mekebeb-Reuter, Krishnan Ramanathan, Evgeniya Reshetnyak, Jennifer Rosa, Marianne Soergel, Damodaran Solai Elango, Vaia Stavropoulou, Nina Stojcheva, Michael Stumpp

Major candidate variables to guide personalized treatment with corticosteroids in critically ill patients with COVID-19: CIBERESUCICOVID study
Ana Motos Galera (Barcelona, Spain), Catia Cillóniz, Adrian Ceccato, Laia Fernández-Barat, Antoni Torres

Longitudinal profiling of the peripheral blood transcriptome identifies risk of Major Cardiac Events after Hospitalization for COVID-19
Chloe Hughes (Dundee, United Kingdom), Merete, B Long, Holly, R Keir, Yan Hui Giam, Thomas Pembbridge, Lilia Delgado, Hanabo Leyah, Rebecca Hull, Amy Gilmour, Diane Cassidy, Hollian Richardson, Amelia Shoemark, Faisel Khan, James, D Chalmers

THE IMPACT OF BIOLOGICAL AGEING ON CLINICAL SEVERITY IN HOSPITALIZED COVID-19 PATIENTS.
Elien De Waele (Sint-Niklaas, Belgium), Dries Martens, Stijn Vos, Esmée Bijnens, Geert Mestiaen, Geert Dewyspelaere, Tim Nawrot, Pieter Goeminne

Characteristics and risk factors for persistent breathlessness after hospitalisation for COVID-19

The role of surfactant lipid composition in the aftermath of COVID-19 infection among patients treated in intensive care
Alexander Holm (Gothenburg, Sweden), Sanna Kjellberg, Bengt Nellgård, Ketil Dalla, Per Larsson, Anna-Carin Olin

Late Breaking Abstract - Real-world effectiveness of sotrovimab for the early treatment of COVID-19 in the US
Mindy Cheng (Alamo, United States), Daniel Gibbons, Helen Birch, Vishal Patel, Christopher Bell, Myriam Drysdale, Sacha Satram, Carolina Reyes

Discussion

8N Session 12:45 - 14:00
Oral presentation: Lung or long COVID: emerging insights into COVID-19 mechanisms
Disease(s) : Airway diseases, Interstitial lung diseases
Method(s) : Cell and molecular biology, Imaging, Public health, General respiratory patient care, Respiratory intensive care
Chairs : Gwenda Vasse (Groningen, Netherlands), Chair to be confirmed

Blood monocyte subsets to characterize and differentiate active SARS-CoV-2 infection from convalescent patients
Elżbieta Rutkowska (Warsaw, Poland), Iwona Kwiecień, Agata Raniszewska, Piotr Rzepecki, Krzysztof Klos, Andrzej Chciałowski
LSC - 2022 - Alveolar macrophages from people with severe eosinophilic asthma show differential antiviral responses to human rhinovirus 16 and SARS-CoV-2.
Andrew Hearn (London, United Kingdom), Paniz Khooshemehri, Varsha Kanabar-Raivadera, Kate Poulton, Rocio Martinez Nunez, David Jackson

Increased CD14+ monocytes and OPN+ positive airway macrophages in the BAL are associated with Post-COVID-19 induced altered respiratory function.
Eliza Tsitoura (Heraklion (Crete), Greece), Eirini Lambiri, Semeli Mastrodemiou, Dimitra Maria Zevla, Eleni Bibaki, Nikolta Bizymi, Nikos Tzanakis, Katerina Antoniou

The role of reactive nitrogen species as biomarkers of disease severity in COVID-19
Nur Konyalilar (İstanbul, Turkey), Özgecan Kayalar, Deniz Mortazavi, Hadi Rajabi, Seval Korkunç, Sinem Erkan, Tuşê Aksoy, Mehmet Gökhan Gönenli, Fatma Tokgöz Akyıl, Sedat Altun, Hasan Bayram

Covid-19 and NETs
Salvador Bello Dronda (Zaragoza, Spain), Pablo Ruiz De Gopegui, Lucia López Vergara, Laura Torralba Garcia, Cristina De Diego Ramos, Claudia Abadia Molina, Raquel Lahoz Alonso, Ana Lasierra Monclus, Alberto Cebollada Solanas, Javier Godino, Beatriz Jimeno Beltran

To estimate oxidative stress and DNA damage in post-COVID patients.
Nandini Dikshit (Lucknow, India), Surya Kant, Ajay Kumar Verma, Kausar Mahmood Ansari, Jyoti Bajpai, Chamanpreet Kaur, Ishaat Jahan

COVID-19 neutrophils show elevated migration and NETosis, which is reduced by PI3K inhibition
Shaun Thein (Birmingham (West Midlands), United Kingdom), Kylie Belchamber, Jon Hazeldine, Frances Grudzinska, Michael Hughes, Alice Jasper, Kay Por Yip, Louise Crowley, Sebastian Lugg, Elizabeth Sapey, Dhruv Parekh, David Thickett, Aaron Scott

Insights into the lung microenvironment after severe COVID-19
Valentina Vaira (Milan, Italy), Alessandra Maria Storaci, Mattia Pitasi, Francesco Gentile, Francesco Blasi, Letizia Corinna Morlacchi, Antonio Pesenti, Giacomo Grasselli, Paola Tagliabue, Mario S. Clerici, Francesco Malvestiti, Luca Valent, Stefano Alberti, Roberta Gualtierotti, Stefano Ferrero, Mario Nosotti, Alessandra Bandera, Andrea Gori, Flora Peyvandi, Silvano Bosari, Alessandro Palleschi

Molecular signatures of SARS-CoV2 in vitro infection of bronchial epithelium from CF, COPD and healthy subjects
Loic Guillot (Paris, France), Justine Oliva, Manon Ruffin, Claire Calmel, Harriet Corvel, Olivier Terrier

Late Breaking Abstract - mRNA vaccine boosts the SARS-CoV-2 specific mucosal antibody in recipients of inactivated and mRNA vaccines
Shaojun Liu (HONG KONG, China), Kathy Yy Chan, Yuanyuan Wei, Renee Wy Chan

Discussion

Online skills lab: Oscillometry and spirometry

Aims: to demonstrate the measurement of lung function with simple (handheld) and/or professional spirometers, including how to prepare the equipment and perform an optimal test; to demonstrate forced oscillometry measurements and to highlight techniques that ensure accuracy; to discuss the interpretation of results, the clinical relevance of measurements and the advantages/disadvantages of the two techniques. All this will be achieved with live demonstrations, case studies of adults and children and interactive questions/discussion.

Target audience: Adult pulmonologist/Clinician, Clinical researcher, Physician in Pulmonary Training, Respiratory physiotherapist, Physiologist, Nurse, Respiratory therapist, Medical Technical Assistant

Chairs: Omar S. Usmani (London, United Kingdom), Frans H.C. De Jongh (Enschede, Netherlands), Hilary Pinnock (Edinburgh (Edinburgh), United Kingdom)

12:45 Introduction
Omar S. Usmani (London, United Kingdom), Frans H.C. De Jongh (Enschede, Netherlands)

12:50 Spirometry procedure
Frans H.C. De Jongh (Enschede, Netherlands), Omar S. Usmani (London, United Kingdom)

13:00 Oscillometry procedure
Frans H.C. De Jongh (Enschede, Netherlands), Hilary Pinnock (Edinburgh (Edinburgh), United Kingdom)

13:20 Case discussion (Spirometry paediatric, adult, oscillometry, and teaching/coaching perspectives)
Laura Graciela Gochocha Rangel (Ciudad de México, Mexico), Chung-Wai Chow (Toronto (ON), Canada), Hilary Pinnock (Edinburgh (Edinburgh), United Kingdom), Jellien Makonga-Braaksma (Woudenberg, Netherlands)
<table>
<thead>
<tr>
<th>Title</th>
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<tbody>
<tr>
<td>High serum HIF-1 levels are associated with intensive respiratory support in community acquired pneumonia</td>
<td>Noelia Carrion Collado (Valencia, Spain), Ana Comes Raga, Francisco Sanz Herrero, Goitzañe Marcaida Benito, Estrella Fernández-Fabrellas</td>
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<td>A population-based study to estimate the incidence rate of hospitalized community-acquired pneumonia in adults in Greece</td>
<td>Adamadia Liapikou (Athens, Greece), Vasiliki Kossyvaki, John Skiadas, Damianos Menegas, Cristina Méndez, Elizabeth Begier, Bradford D. Gessner, Claudia Schwarz, Haralampos Milionis, Vasilios Tsimihodimos, Athanasios Konstantinidis, Gerasimos Baxevanos, Theodora Argiriadou, Chrysayvgi Terrovitou, Michael Toubmis, Study Egnatia Group</td>
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<td>Activity and isoferment spectrum of serum lactate dehydrogenase in patients with community-acquired pneumonia associated with non-alcoholic fatty liver disease</td>
<td>Roman Razumnyi (Lugansk, Ukraine)</td>
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<td>Impact of isolation for the suspicion of COVID-19 on bacterial pneumonia patients</td>
<td>Akiko Tamura (Tokyo, Japan), Manabu Murakami, Hiroshi Okamoto, Toraiko Jinta</td>
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<td>Adiponectin in patients with community-acquired pneumonia: a prospective cohort study</td>
<td>Arnold Dungu (København, Denmark), Camilla Koch Ryrso, Maria Hein Hegelund, Adin Sejdic, Andreas Vestergaard Jensen, Peter Lommer Kristensen, Rikke Krogh-Madsen, Daniel Faurohjult-Jepsen, Birgitte Lindegaard</td>
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<td>Analysis of complications of community-acquired pneumonia (CAP) in Anti-Terrorist Operation / Joint Forces Operation (ATO / JFO) participants</td>
<td>Natalia Popenko (Kyiv, Ukraine)</td>
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<td>Antioxidative stress markers in obese patients with community-acquired pneumonia</td>
<td>Tatiana Dumitrus (Chisinau, Republic of Moldova), Diana Feeto-Mereuta, Sergiu Mateovschi, Livi Grib, Lilia Andronache, Virginia Cascaval, Valeriana Pantea, Valentin Gudumac</td>
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<tr>
<td>Delta Neutrophil Index, C-Reactive Protein and IL-8 as Markers of Sepsis</td>
<td>Pavlina Peneva (Varna, Bulgaria), Silviya Nikolova, Yana Bocheva</td>
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<td>Changes in the pathogen spectrum of hospitalized adults with community-acquired pneumonia in Fujian Province: a multicenter, prospective study from 2012 to 2018</td>
<td>Hongru Li (Fuzhou (Fujian), China), Fan Wu, Jian Wu, Nengluan Xu, Ming Lin, Wexiang Yue, Yusheng Chen</td>
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<td>Phenotypic characteristics of Streptococcus pneumoniae in patients admitted to intensive care unit due to bacteremic pneumococcal pneumonia</td>
<td>Francisco Sanz Herrero (Quart de Poblet (Valencia), Spain), Luis Alberto Ruiz Iturriaga, Marta Garcia Clemente, Pedro Pablo España Yandiola, Lerye Serrano Fernández, Noelia Carrión Collado, Julia Herrero Huertas, Rafael Zalacaín Jorge, Estrella Fernández-Fabrellas</td>
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<td>Host transcriptomic signature for infection in patients with suspicion of LRTI undergoing bronchoscopy</td>
<td>Desiree Schumann (Basel, Switzerland), Andreas Hoheisel, Kathleen Jahn, Nina Khanna, Matthias Herrmann, Andrei Darie, Silvio Ragozzino, Sabine Kuster, Werner Strobel, Hans Hirsch, Michael Tamm, Daiana Stolz</td>
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<td>Model-Based Dosing Optimization of Teicoplanin in Critically Ill Patients</td>
<td>SUNG WOOK KANG (Seoul, Republic of Korea), Hyeong Geun Jo, Eun Kyoung Chung, Sandy Jeong Rhie, Cheon Woong Choi</td>
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<td>Serum copeptin and Serum albumin as markers of severity for community acquired pneumonia</td>
<td>Vaibhav Padashetti (Kalaburgi, India), Mahesh Pa, Jayraj B</td>
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<td>Validation of IDSA/ATS guidelines for ICU admission in very elderly patients with community-acquired pneumonia</td>
<td>Miquel Ferrer Monreal (Barcelona, Spain), Catia Cilloniz Campos, Juan Manuel Pericas, Leyre Serrano, Raul Mendez, Rosario Menendez, Luis Alberto Ruiz, Antoni Torres</td>
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ESTIMATING THE RISK OF BACTEREMIA IN HOSPITALIZED PATIENTS WITH PNEUMOCOCCAL PNEUMONIA
Leyre Serrano Fernandez (Bilbao (Bizkaia), Spain), Luis Alberto Ruiz Iturriaga, Silvia Perez Fernandez, Pedro Pablo España Yandiola, Catia Cilloniz, Beatriz Gonzalez Quero, Alejandro Rezola Carasusan, Ane Urraga, Antoni Torres Martí, Rafael Zalacain Jorge

Covid-19 pneumonia in women: what are the particularities?
Manel Loukil Ben Ali (Nabeul, Tunisia), Nemi Essa, Abid Narjes, Gader Nada, Kalboussi Slim, Ben Ali Mechaal, Chaabane Imen, Bouzaidi Khaled, Ghrairi Hedia

Neutrophil gelatinase-associated lipocalin for predicting clinical stability in patients with community-acquired pneumonia
Xue Mingshan (Guangzhou, China), Runpei Lin, Teng Zhang, Yifeng Zeng, Wenhan Cao, Sixiao Wu, Mingtao Liu, Ning Li, Peiyian Zheng, Haisheng Hu, Chen Huang, Baoqing Sun

Forced oscillation technique used for monitoring of covid-19 pneumonia
Immanuels Taivans (Riga, Latvia), Laura Grima, Normunds Jurka, Gunta Strazda, Valentina Gordusina

Interstitial changes after severe SARS-CoV-2 Infection
Ana Belén Llanos Gonzalez (La Orotava, Spain), Verónica Saray Hernández García, Héctor Manuel González Expósito, Juan Alfonso Bonilla Arjona, Paula Pérez De Armas, Nelson Mesa Leóon, Marta Elena Gómez Gil, Jorge Estonell Erill, Olga Maria García Hernández, Maria Mercedes Cruz Díaz, Orlando Acosta Fernández

Impact of cardiovascular disease on in-hospital mortality in patients with COVID-19
Ventsislava Pencheva Genova (Sofia, Bulgaria), Ralica Pencheva, Blagovest Stoimenov, Emil Manov, Vasil Kolev, Radoslava Tsranceva, Krasimira Koshtikova, Dimitar Stoianov, SvilenDonev

Post COVID-19 recovery personalised care
Rachael Moses (North Shields, United Kingdom), Jenny Coelota-Smith, Aimee Robson, Kate Jackson, Mohanpal Singh Chandan

Eight clusters of long-covid symptoms
Michal Kopecký (Byšť, Czech Republic), Vladimir Koblizek, Mikulas Skala, Vratislav Sedlak, Jiri Mares, Hynek Cigler

Professional burnout in a COVID-19 pandemic
Kseniia Bielosludtseva (Dniepropetrovsk, Ukraine), Karyna Fuhol, Larysa Botvinikova, Olena Myronenko, Oksana Pliekhonava

Impact of endothelial function on the prognosis of COVID-19 patients
Laura Cornejo-Cornejo (México City, Mexico), Carlos Sanchez-Moreno, Arturo Orea-Tejeda, Dulce Gonzalez-Islas, Iris Lopez-Vazquez, Mariana Salavatierra-Escobar, Jorge Aguilar-Meza, Juan Marquez-Cordero, Alejandra Rios-Pereda, Luis Hernandez-Urquieta, Robinob Robles-Hernandez, Susana Galicia-Amor, Esperanza Trejo-Mellado, Juan Carlos Garcia-Hernandez, Norma Camacho-Mendoza

Heart involvement in patients shortly after COVID-19 infection – easy detectable risk factors.
Magdalena Martusewicz-Boros (Warszawa, Poland), Piotr Boros, Marcin Paciorek, Dorota Piotrowska-Kownacka

Major cardiovascular events in patients with severe chronic obstructive pulmonary disease with and without asthma: a nationwide cohort study
Josefin Eklöf (København N, Denmark), Barbara Bonnesen, Pradeesh Sivapalan, Anna Kjær Kristensen, Ema Rastoder, Rikke Sørensen, Tor Biering Sørensen, Jens-Ulrik Jensen

Depressive outcomes of coronavirus pneumonia at a glance of gender factor
Kiarina Chichirelo-Konstantynovych (Vinnitsya, Ukraine), Olena Koval, Maksym Marunkevych, Tetyana Konstantynovych, Larysa Moroz

The long-COVID in the Czech Republic - interim analysis of population based survey
Vladimir Koblizek (Hradec Králové, Czech Republic), Jiří Jarkovský, Iva Cierna Peterova, Pavla Petr Dostalova, Margit Horackova, Milada Sipkova, Jiri Posker, Zuzana Antusova, Marianna Stefankova, Irena Opletalova, Michal Kopecky, Mikulas Skala, Klara Benesova, Ondrej Sanca, Hana Zelinkova, Libor Nevoranek, Larisa Solichova

TP-1 Session 13:00 - 14:00
Disease(s): Airway diseases, Interstitial lung diseases
Method(s): Epidemiology, General respiratory patient care, Public health, Imaging, Pulmonary function testing, Cell and molecular biology, Physiology, Respiratory intensive care, Surgery, Pulmonary rehabilitation
Chairs: Thomas Bahmer (Kiel, Germany), Sachin Ananth (London, United Kingdom)
Anxiety and depression in COVID-19 survivors
Soumaya Bouchareb (Ksar Hellal, Tunisia), Bouthayna Ben Rejeb, Ameni Ben Salem, Aya Zaara, Soumaya Boujnah, Imen Touiil, Jihen Ayeb, Leila Boussofiara, Jalel Knani, Nadia Boudawara

In bed hybrid tracheostomy procedure in COVID-19 patients. Technique and results.

Short-term impact of COVID-19 on health-related physical fitness in hospitalized and home-treated patients
Aniello Arianna (Naples, Italy), Luca Scalfi, Ludovica Capitelli, Anna Buonocore, Rosalba Donizzetti, Lorena Gallotti, Paola Rebecca Iovine, Annalisa Mazzocca, Alessandro Sanduzzi, Marialuisa Bocechino

Mortality and access to intensive care in the Czech Republic during COVID-19 pandemic - evidence of care limitation or natural course of the disease?
Vladimir Koblizek (Hradec Králové, Czech Republic), Renata Chloupkova, Ondrej Ngo, Ondrej Majek, Jiri Jarkovsky, Karel Hejduk, Karolina Benesova, Ondrej Sanca

Stress and workload impact of the COVID-19 pandemic on pulmonology residents
Maide Gozde Inam (altındağ, Turkey), Nazlı  Cetin, Orkun Eray Terzi, Nazlı Huma Teke, Mehmet Parlık, Atalay Özkul, Aylin Ozsancak Ugurlu

Post COVID Lung function after mild to moderate disease: Good prognosis, but high prevalence of hyperventilation (HV)
Abhinav Singla (Essen, Germany), Christian Taube, Thomas Wessendorf

Clinical course of Covid-19 cases vaccinated or unvaccinated
AYCAN YUKSEL (Ankara, Turkey), Esen Sayin Gulersoy, Ceren Ilgar, Nalan Ogan, Evrim Eylem Akpınar

Symptoms as achievable indicators of death risk in patients with COPD - final analysis of a prospective multicenter study in Czechia
Jaromír Zatloukal (Oломouc, Czech Republic), Vladimir Koblízek, Michal Svoboda, Eva Voláková, Libor Nevoranek, Michal Kepecký, Marek Plutinsky, Kristian Brat

Impact of COVID19 on work return after 6 months of hospitalization
Eloara Ferreira (São Paulo, Brazil), Helena Azevedo, Nataly Santos, Mariana Lafetá, Vitor Souza, Thais Menezes, Fabiana Penido, Maria Saldanha, Andre Albuquerque, Suzana Tanni, Priscila Sperandio

Comparison between suspected and confirmed COVID-19 respiratory patients: a pilot study
Stefania Principe (Palermo (PA), Italy), Amelia Grosso, Alida Benfante, Federica Albicini, Salvatore Battaglia, Erica Gini, Marta Amata, Ilaria Piccionello, Angelo Guido Corsico, Nicola Scichilone

Has become the management of severe SARS-CoV-2 infection a challenge for respiratory physicians?
Damiana Maria Vulturar (Cluj-Napoca, Romania), Anca-Diana Maierean, Doina-Adina Todea

TP-22 Session 13:00 - 14:00

Thematic poster: Molecular footprints in lung cancer

Disease(s): Thoracic oncology Airway diseases
Method(s): Cell and molecular biology Endoscopy and interventional pulmonology Physiology General respiratory patient care Respiratory intensive care

Chairs: Ilias Angelidis (Chalandri, Greece), Fernando Gamarra (Straubing, Germany)

Changes in Structure and Stiffness of the Lung Extracellular Matrix in Lung Cancer
Maria Narciso (barcelona, Spain), Natalia Diaz-Valdivia, Constança Junior, Jorge Otero, Jordi Alcaraz, Daniel Navajas, Ramon Farre, Isaac Almendros, Núria Gavara

Endobronchial ultrasonic transbronchial needle aspiration (EBUS-TBNA) performance for the determination of Programmed Death Ligand-1 (PD-L1) expression in non-small cell lung cancer (NSCLC)
Maria Zuil Moreno (Lleida, Spain), Dinora Polanco, Esther Gracia-Lavedan, Lucía Pinilla, Sonia Gatus, Ferran Barbé

Extracellular vesicles (EVs) as diagnostic tools in the phenotypic determination of lung tumors
Maureen Cambier (Liège, Belgium), Florian Muller, Monique Henket, Claire Remacle, Julien Guiot, Ingrid Struman

Non small cell lung cancer patients with EGFR mutation : therapeutic sequences in a real life setting
Giulia Berardi (Grenoble, France), Nicolas Girard, Florence De Fraipont, Chantal Decroisette, Sylvie Gazzerie, Denis Moro Sibilot, Anne Claire Toffart
Detection of lung cancer using a single blood biomarker and tobacco history in a high risk cohort
Morten Borg (Aalborg SV, Denmark), Line Nederby, Sara Wen, Torben Hansen, Anders Jakobsen, Rikke Andersen, Ulla Möller Weinreich, Ole Hilberg

Involvement of TLRs and WNT pathway in lung cancer in COPD patients
Amanda Iglesias Coma (Palma, Spain), Noemi Ceron, Esther Martinez, Aina Martin, Antonia Obrador, Jaume Saulea

Terminal effector Tregs in metastatic lymph nodes of lung cancer patients
Joanna Domagała-Kulawiak (Warszawa, Poland), Iwona Kwiecien, Elzbieta Rutkowska, Agata Raniszewska, Joanna Bednarek, Rafal Sokolowski, Piotr Rzepiecki

Monika Bratová (Brno 35, Czech Republic), Kristian Brat, Jana Skrickova, Karolina Hurdalkova, Milos Pesek, Martin Svaton, Libor Havel, Leona Koubkova, Michal Hrnciarik, Ondrej Fischer, Jana Krejci

ADAMTS1 as a potential tumor suppressor in lung adenocarcinoma
Chao-Yuan Chang (Kaohsiung, Taiwan), Hsiao-Chen Lee, Kuan Li Wu, Ya-Ling Hsu

Blood biomarkers as predictors of treatment response in advanced NSCLC patients treated with immune checkpoint inhibitor therapy
Karolien Vekens (Jette, Belgium), Charlotte Dethier, Lore Decoster

Cancer associated fibroblasts subtypes are associated with histological features, immune environment and prognosis in resected non small cell lung cancer
nicolas poté (paris, France), Edouard Guenzi, Kinan El Hussein, Alice Guyard, Arnaud Mailieux, Pierre Mordant, Anne Couvelard, Bruno Crestani, Aurélie Cazes, Gérard Zalcman

Analysing the molecular landscape of squamous cell carcinoma through simultaneous targeted DNA and RNA-based next-generation sequencing
Joanna Moes-Sosnowska (Warsaw, Poland), Monika Skupinska, Urszula Lechowicz, Paulina Skronska, Ewa Szczepulska-Wojcik, Aneta Stepniowska, Adrianna Rozy, Renata Langfort, Piotr Rudzinski, Tadeusz Orlowski, Delfina Popiel, Maciej Wieczorek, Joanna Chorostowska-Wynimko

Effects of the tumor microenvironment and molecular forms of alpha1-antitrypsin on NSCLC viability
Anna Gründing (Hannover, Germany), Tobias Welte, Sabina Janciauskiene

The Role of Interleukin 6 and Cyclooxygenase 2 In Progressivity and Metastatic Process in Andavce Non Small Cell Lung Cancer
Arif Santoso (Makassar, Indonesia), Rasiha Rasiha, Sitti Munawwarah, Ahmad Mustang

Thematic poster: Translational research in COPD and lung cancer

TP-6 Session 13:00 - 14:00
Thematic poster: Translational research in COPD and lung cancer

Disease(s) : Thoracic oncology, Airway diseases
Method(s) : Endoscopy and interventional pulmonology, Cell and molecular biology, Epidemiology, Public health, Imaging, Pulmonary rehabilitation, Transplantation

Chairs : Guillaume Beltramo (Dijon, France), Chair to be confirmed

The Y-chromosome regulates hallmark features of asthma and COPD
Karosham (Diren) Reddy (Glebe, Australia), Senani Rathnayake, Dikaia Xenaki, Alen Faiz, Brian Oliver

Implicating biological pathways in lung function and COPD by variant-to-gene mapping of novel signals from a multi-ancestry meta-analysis of genome-wide association studies
Martin D Tobin (Leicester, United Kingdom), Nick Shrime, Abril Izquierdo, Jing Chen, Anna L Guyatt, Richard Packer, Chiara Batini, Alfred Pozarickij, Robin G Walters, Stephanie London, Andrew P Morris, Louise V Wain, Ian P Hall

Clinical and molecular characterisation of new variants associated to alpha-1-antitrypsin deficiency
Valentina Barzon (Casanova Lonati (PV), Italy), Aline Maria Balderacchi, Giulia Bartoli, Stefania Ottaviani, Alessandra Corino, Tomás Patrick Carrol, Davide Piloni, Noel Gerard McElvaney, Angelo Guido Corsico, Anna Fra, Ilaria Ferrarotti

Smoking mice and exercise genes
Lars Aakerøy (Trondheim, Norway), Chew W Cheng, Pavla Sustova, Sissel Gryid Freim Wahl, Nathan R Scrimgeour, Sigurd Steinshammer, T Scott Bowen, Eivind Bronstad

Study of the expression of the IREB2, HHIP, and FAM13A genes in COPD and lung cancer
Esperanza Salcedo Lobera (Málaga, Spain), Macarena Arroyo Varela, Gracia Eugenia González Angulo, Rafael Larrosa Jiménez, Rocio Bautista Moreno
The role of the microbiome in COPD
Gunnar Reksten Husebø (Fana, Norway), Kristel Knudsen, Rune Nielsen, Andreu Paytuvi-Gallart, Walter Sanseverino, Tomas Mikal Eagan

Differentiating metabolomic signatures of airway and pulmonary vascular abnormalities in COPD
Wassim Labaki (Ann Arbor, United States), Yizhuo Wang, Susan Murray, Jeffrey Curtis, Russell Bowler, Carrie Pistenmaa, Pietro Nardelli, Rubén San José Estépar, Raül San José Estépar, Kathleen Stringer, George Washko, Meilan Han

Using liquid biopsies to validate miRNA lung cancer biomarkers.
Esperanza Salcedo Lobera (Málaga, Spain), Macarena Arroyo Varela, Elena Espinosa Garcia, Rafael Larrosa Jiménez, Rocío Bautista Moreno

MiRNAs under condition of continuous and intermittent hypoxia: possible link on oncogenesis?
Donato Lacedonia (Molfetta (BA), Italy), GIORGIA MORIONDO, Piera Soccio, Giulia Scioscia, Pasquale Tondo, Rosa Leccisotti, Maria Cristina Colanardi, Roberto Sabato, Maria Pia Foschino Barbato

Comparison of blood and lung biopsy core microbiome profiles of patients with lung carcinoma.
Borislava Tsafarova (Sofia, Bulgaria), Yordan Hodzhev, Vladimir Tolchkov, Nikolay Yanev, Vania Youroukova, Silvia Ivanova, Vladimir Milanov, Dimitar Kostadinov, Stefan Panaiotov

Correlation of PD-L1 expression on endobronchial ultrasound-guided transbronchial needle aspiration(EBUS-TBNA) samples and metabolic activity on 18F-Fluorodeoxyglucose uptake on positron emission tomographycomputed tomography(18F-FDG PET/CT)
Virginia Guevara Velazquez (Salamanca, Spain), Rosa Cordovilla Perez, Asunción Gómez Muñoz, Marta Rodriguez González, Marco López Zubizarreta, Miguel Iglesias Heras, Lorena Bellido Hernández, Jesús Pinto Blázquez

The involvement of neutrophil infiltration in the formation of lung pre-metastatic niche
YUNG-CHI HUANG (Kaohsiung City, Taiwan), Ya-Ling Hsu, Hsiao-Chen Lee

Esperanza Salcedo Lobera (Málaga, Spain), Macarena Arroyo Varela, Maria Pilar Pérez Soriano, Rafael Larrosa Jiménez, Rocío Bautista Moreno

The clinical utility of longitudinal measurement of mutated EGFR in plasma of advanced NSCLC patients during EGFR-TKI treatment
Adam Szpechciński (Warszawa, Poland), Maciej Bryl, Emil Wojda, Grzegorz Cyzewicz, Daria Swiniuch, Marek Szwiec, Rodney Ramlau, Pawel Slawiński, Aleksander Barinow-Wojewodzki, Joanna Chorostowska-Wynimko

Chest manifestation of the scleros tuberos complex: case report and literature review
naima ait mouddene (CASABLANCA, Morocco), Hajer Arfaoui, Hasna Jabri, Wiam Elkhattabi, Hicham Afif

MiR-125b-5p up-regulation in asthma and COPD overlap patients mediates oxidative stress and apoptosis via targeting IL6R/NLRC5/TRIAP1
Yu-Ping Chang (Kaohsiung, Taiwan), Chiu-Ping Lee, Yung-Che Chen

The regulation of IL33 following smoking cessation
Alen Faiz (Ultimo (NSW), Australia), Fia Sabrina Boedijono, Wim Timens, Martijn Nawijn, Philip M. Hansbro, Rashad Mahbub, Matt D. Johansen, Corry-Anke Brandsma, Irene H. Heijink, Florian Müssig, Maria Stella De Biasi, Roland F. Schwarz, Ian M. Adcock, Kian Fan Chung, Pieter S. Hienstra, Helene Goulauouic, Heming Xing, Rałat Abdalai, Emanuele De Rinaldis, Danen Cunoosamy, Sivan Harel, David J. Lederer, Chad Nivens, Huib Kerstjens, Machteld Hylkema, Maarten Van Den Berge

Novel privacy considerations for large scale proteomics

Late Breaking Abstract - Low-density lipoprotein-cholesterol and risk of chronic obstructive pulmonary disease: A prospective study of 107,301 participants
Josefine Freyberg (København SV, Denmark), Shoab Afzal, Eskild Morten Landt, Børge G. Nordestgaard, Morten Dahl

Late Breaking Abstract - Terminal bronchioles decrease before emphysematous destruction and adaptive immune response in human explant lungs with COPD.
Thematic poster: COPD: from biomarkers to phenotypes and severity

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

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

**Chairs:** Morten Dahl (Køge, Denmark), Jose Luis López-Campos Bodineau (Sevilla, Spain)

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**Bone Morphogenic Proteins and their antagonists in the lower airways of stable COPD patients**
Antonino Di Stefano (Veruno (NO), Italy), Isabella Gnemmi, Francesca Dossena, Umberto Rosani, Paola Brun, Andrea Leonardi, Bruno Balbi, Francesco Nucera, Vitina Carriero, Francesca Bertolini, Silvestro Ennio D'Anna, Mauro Maniscalco, Ian M. Adcock, Gaetano Caramori, Fabio Lm Ricciardolo

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**What is walking? a systematic review and meta-ethnography**
Laura Delgado Ortiz (Barcelona, Spain), Ashley Polhemus, Alison Keogh, Norman Sutton, Werner Remmele, Clint Hansen, Felix Kluge, Basil Sharrack, Clemens Becker, Thierry Troosters, Walter Maetzler, Lynn Rochester, Anja Frei, Milo Puhan, Judith Garcia-Aymerich

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**Effects of breathing-based meditation on dyspnea in COPD, a single-case study**
Ting-fen Lin (Fresno, United States), Samantha Shune

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**Survival of COPD patients according to the new phenotypes defined in Spanish COPD Guidelines 2021**
IRENE MILAGROS DOMINGUEZ ZABALETA (Madrid, Spain), Zichen Ji, Julio Hernández Vázquez, Ismael Ali García, Carmen Matesanz Ruiz, Walther Iván Girón Matute, David Martos Ruiz, Paula García Valentín, Marta Esteban Yagüe, Javier De Miguel Diez

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**Lower levels of a leukotriene B4 catabolite in COPD patients**
Tina Kramarić (Aberystwyth, United Kingdom), Katie Love, Sarah Thomas, Timothy Asibey-Berko, Subhamay Ghosh, Keir Lewis, Luis Mur

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**Thrombophilia as a factor in increasing inflammation in COPD**
Elmorahon Abduganieva (Tashkent, Uzbekistan)

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**The BLF Early COPD Consortium: Respiratory Oscillometry Detects Abnormalities before Lung Function Testing**
Andrew Ritchie (London, United Kingdom), Gavin Donaldson, Omar Usmani, Andras Bikov, Luana Alves-Moreira, Jorgen Vestbo, Peter Calverley, Jadwiga Wedzicha

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**Advanced lung function targeting small airway dysfunction (SAD) improves differentiation of mild COPD and smokers at risk from healthy controls – CAPTO-COPD**
Frederik Trinkmann (Heidelberg, Germany), Mustafa Abd, Anne Kirsten, Klaus F. Rabe, Felix J.F. Herth, Henrik Watz

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**Health-related quality of life (HRQL) is associated with small airway dysfunction (SAD) in mild COPD and smokers at risk – cross-sectional baseline data from CAPTO-COPD**
Frederik Trinkmann (Heidelberg, Germany), Anne Kirsten, Mustafa Abd, Klaus F. Rabe, Felix J.F. Herth, Henrik Watz

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**TRONARTO post hoc analysis: factors affecting peak inspiratory flow (PIF) variability**
Donald A. Mahler (Hanover, United States), Henrik Watz, Rachel Emerson-Stadler, John Ritz, Asif Shaikh, Michael Bradley Drummond

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**Sarcopenia is associated with cardiovascular risk in patients with COPD, independent of adiposity**
Youngmok Park (Seoul, Republic of Korea), Ji Ye Jung, Ah Young Leem, Young Sam Kim, Kung Soo Chung, Moo Suk Park, Seung Up Kim, Young Ae Kang

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**Correlations between volumetric capnography and automated quantitative computed tomography analysis in patients with severe COPD**
Monica Corso Pereira (Campinas (SP), Brazil), Odair Diniz, Silvia Da Silva, Marcel Santos, Ilma Paschoal, Marcos Moreira

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**Principal component analysis of flow-volume curves in COPDGene to link spirometry with phenotypes of COPD**
Kenneth Verstraete (Leuven, Belgium), Nilakash Das, Iwein Gyselinck, Marko Topalovic, Thierry Troosters, Maarten De Vos, Wim Janssens

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**PROM and PREM preferences in COPD-patients**

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**Rapid FEV1/FVC decline is a risk factor for chronic obstructive pulmonary disease and mortality in general population**
Kwang Yong Choi (Seoul, Republic of Korea), Hyo-Jin Lee, Jung-Kyu Lee, Tae Yeon Park, Eun Young Heo, Deog Kyeom Kim, Hyun Woo Lee
Probabilistic modeling of COPD imaging characteristics for disease severity prediction
Silvia Dias Almeida (Heidelberg, Germany), Tobias Norajitra, Carsten Lueth, Tassilo Wald, Taisiya Kopytova, Marco Nolden, Paul F. Jaeger, Claus Peter Heussel, Juergen Biederer, Hans-Ulrich Kauczor, Oliver Weinheimer, Klaus Maier-Hein

Analysis of brain functional connectivity in COPD patients with functional brain MRI
Yoomi Yeo (Guri-si, Republic of Korea), Ji Tak Rhu, Hanjoon Jo, Sung-Ho Jang, Joonho Choi, Dong Woo Park, Tae-Hyung Kim

FEV1 decline is accelerated in only a minority of patients with COPD: a factorial analysis of longitudinal data

129Xe-MRI and lung function to phenotype ventilation heterogeneity in asthma and/or COPD
Laurie Smith (Sheffield (South Yorkshire), United Kingdom), Helen Marshall, Demi-Jade Jakymelen, Alberto Biancardi, Guilhem Collier, Ho-Fung Chan, Paul Hughes, Martin Brook, Joshua Astley, Ryan Munro, Smitha Rajaram, Andy Swift, David Capener, Jody Bray, James Ball, Oliver Rodgers, Ian Smith, Bilal Tahir, Madhwsheh Rao, Graham Norquay, Nick Weatherley, Leanne Armstrong, Latife Fihn-Wikander, Rod Hughes, Jim Wild

Prediction of VO2max in advanced COPD patients using the Oxygen Uptake Efficiency Slope
Marco Maenen (Heerlen, Netherlands), L. Van Den Broek, L. Somers, A. Hanneman, J.G. Van Den Aardweg, R. Baba, M.D. De Kruif

TP-4 Session 13:00 - 14:00

Thematic poster: Exercise capacity in respiratory diseases

Disease(s) : Pulmonary vascular diseases, Airway diseases, Interstitial lung diseases
Method(s) : Imaging, Physiology, Pulmonary function testing, Pulmonary rehabilitation, Epidemiology, General respiratory patient care

Chairs : J. Alberto Neder (Kingston (ON), Canada), Samuel Verges (Grenoble, France)

Determinants of DLCO and contribution to exercise capacity and symptoms
Eldar Priel (Dundas, Canada), Kieran J Killian, Imran Satia

VO2 prediction based on physiologic and mechanical exercise measurements
Marco António Pacheco Pereira (Paio Pires, Portugal), Ricardo Almeida, Herminia Dias

Cardiovascular response to exercise in preterm-born children with and without low lung function
Chris Course (Cardiff, United Kingdom), Sarah Kotecha, Michael Cousins, Kylie Hart, John Watkins, Sailesh Kotecha

The effect of aerobic training on pulse wave velocity in adults with and without long-term conditions: a systematic review
Majda Bakali (Leicester, United Kingdom), Thomas J C Ward, Amy V Jones, Grace M Hawthorne, Pip Divall, Matthew P M Graham-Brown, Gerry P Mccann, Thomas Yates, Michael C Steiner, Rachael A Evans

Effects of a rehabilitation programme on blood inflammatory markers
Salma Mokaddem Mohsen (Tunis, Tunisia), Khadija Ayed, Zeineb El Guebsy, Asma Ayed, Ibtissem Dekhil, Imededdine Ben Dhia, Touhami Khelifi

Why patients with lung fibrosis showing only mild restriction at rest may develop limiting dyspnoea on exertion?
J. Alberto Neder (Kingston (ON), Canada), Reginald M Smyth, Devin B Phillips, Matthew D James, Sandra G Vincent, Kathryn M Milne, Mathieu Marillier, Juan Pablo De-Torres, Onofre Moran-Mendoza, Denis E. O'Donnell

Longitudinal prediction of maximum oxygen uptake in adults: analysis from the FRIEND registry
Víctor Dourado (Santos (SP), Brazil), James Peterman, Ross Arena, Jonathan Myers, Leonard Kaminsky

Validity of alternative exercise tests in pulmonary hypertension.
Harrison Stubbs (Glasgow, United Kingdom), Alexander Macelllan, Michael Mcgettrick, Stephanie Lua, Fiona Thompson, Bhautesh Jani, Melanie Brewis, Colin Church, Martin Johnson

Disease-specific muscle oxygen transport and utilization during exercise in chronic obstructive pulmonary disease vs. chronic heart failure
Ulrik Winning Iepsen (Copenhagen, Denmark), Jacob Peter Hartmann, Rasmus Holmboe Dahl, Stine Nymand, Gregers Munch, Camilla Koch Ryrsøe, Bente Klarlund Pedersen, Pia Thaning, Stefan Mortensen, Ronan Martin Griffin Berg

Effects of acute bronchodilators on ventilatory constraint and dyspnoea during exercise in patients with pulmonary arterial hypertension (PAH)
Danilo C Berton (Porto Alegre (RS), Brazil), Elisa Schroeder, Lucia Rosso Diello, Marcelo B Gazzana, Eloara Vieira Machado Ferreira Alvare Da Silva Campos
The utility of maximal oxygen uptake in assessment of cardiovascular risk in female patients with rheumatoid arthritis without associated lung disease
Gehan H. Abo E-Magd (Tanta, Egypt), Samah Elmedany

Submaximal breathing reserve during incremental cycle ergometry: reference values and clinical validation
J. Alberto Neder (Kingston (ON), Canada), Danilo C. Berton, Franciele Plachi, Devin Phillips, Reginald Smyth, Matthew James, Sophie Crinion, Juan Pablo De-Torres, Denis E. O’Donnell

The Impact of Cardiopulmonary Exercise Testing on Diagnosis of Unexplained Dyspnea
Craig Cook (bountiful, United States), Matt Hegewald

The association of pulmonary function and physical fitness in a population study
Maria Lopmeri (Helsinki, Finland), Tuula Vasankari, Tiina Mattila, Kari Tokola, Tommi Vasankari

Exploring the long-term survival impact of low exercise capacity in COPD patients: the importance of DLCO
Juan Pablo de Torres Tajes (Kingston, Canada), Alberto Neder, Devin Phillips, Mathew James, Amany Elbehairy , Sandra Vincent, Angela Martin Palmero, Denis O’Donnell

Sit-to-stand as a potential alternative to 6MWT for portable oxygen titration in COPD
Nuno Faria (Porto, Portugal), Bruno S. Silva, Paula Pinto, Vânia Almeida, Maria José Fernandes, Maria Sucena, Joana Gomes

Do “static” lung volumes add to inspiratory capacity to predict exertional dyspnea and poor exercise tolerance in COPD?
J. Alberto Neder (Kingston (ON), Canada), Danilo C. Berton, Francieli Plachi, Devin Phillips, Reginald Smyth, Matthew James, Sophie Crinion, Juan Pablo De-Torres, Denis E. O’Donnell

Postural relief of dyspnea is associated with reduced neuromechanical dissociation in patients with advanced COPD
Amany Elbehairy (Alexandria, Egypt), Azmy Faisal, Hannah McIsaac, Matthew D. James, Devin B. Phillips, Nicole J. Domnik, Denis E. O’Donnell

The link between elevated inspiratory neural drive, inspiratory constraints, and dyspnea across the continuum of COPD severity

TP-7 Session 13:00 - 14:00

Thematic poster: Respiratory inflammation and the pulmonary consequences of COVID-19

Disease(s): Interstitial lung diseases Airway diseases Respiratory critical care
Method(s): Respiratory intensive care Cell and molecular biology Pulmonary function testing Physiology General respiratory Endoscopy and interventional pulmonology Public health Pulmonary rehabilitation

Chairs: Justine Devulder (London, United Kingdom), Katie Raby (London, United Kingdom)

Inflammation and membrane integrity of epithelial cells and macrophages infected by Pseudomonas aeruginosa and Streptococcus pneumoniae
Elena Campaña Duel (Sabadell, Spain), Luis Morales-Quinteros, Adrián Ceccato, Aina Areyn-Balaguero, Pamela Conde, Luis Blanch, Laia Fernández, Marta Camprubi-Rimbals, Antonio Artigas

IL-4 mediated-macrophage reprogramming promotes ARDS resolution in the Aging Host
Andres Felipe Villabona-Rueda (Baltimore, United States), Xueyi Chen, Jeremy Walston, Peter Abadir, Franco D’Alessio

IL-33 and IL-4R blockade impact distinct and overlapping inflammatory mediators of airway disease
Seblewongel Asrat (Tarrytown, United States), George Scott, Jeanne Allinone, Weikeat Lim, Dylan Birchard, Li-Hong Ben, Andrew J. Murphy, Matthew A. Sleeman, Jamie O'rengo

Physiometric culture of mesenchymal stromal cells affects macrophage activity in a paracrine manner.
Bryan Falcones (Malmö, Sweden), Arturo Ibáñez-Fonseca, Zackarias Söderlund, Isaac Almendros, Linda Elovsson Rendin, Ramon Farré, Gunilla Westergren-Thorsson

The role of MBD2 regulating M1 macrophage polarization in acute lung injury
Wenjin Sun (Chengdu City, China)

Monocyte Derived Macrophage (MDM) responses to heime stimulation
Michelle Schorer (Bern, Switzerland), Kleanthis Fytianos, Jessica Petracca, Fabian Kaesermann
Late Breaking Abstract - Parenchymal lung abnormalities, clinical severity and outcomes in patients with COVID-19 pneumonia: a prospective longitudinal observational study
Ashish Kumar Prakash (Gurgaon (Haryana), India), Bornali Datta, Manish Kumar Singh, Kavitha Yaddanapudi, Kulbir Ahlawat, Jaya Tripathy, Pinky Goyal, Sandeep Mittal, Nishant Gupta, S Parvathi, Anand Jaiswal, Padam Singh, Sudhakar Pipavat, Ganesh Raghu

Circulating neutrophil-derived microvesicles are a hidden compartment of inflammation in severe COVID-19
Sanoj Soni (London, United Kingdom), Elizabeth Brown, Dianeana Tsrirou, Ashley Green, Carissa Chu, Jessica Luiz, Robert Grogan, Sehar Khushi, Michael R. Wilson, Anthony C. Gordon, Kieran O’Dea, Stephen J. Brett, Masao Takata

Investigating COVID-19 severity based on serum levels of vascular endothelial growth factor (VEGF)
Elham Barzadeh (Kerman, Islamic Republic of Iran), Mitra Samareh Fekri, Ahmad Shafahi, Mehrdad Farokhnia, Fatemeh Karami Robati, Sajjadah Movahedinia, Sharari Dabiri

Involvement of the chemerin-ChemR23 system in severe COVID-19 patients
Philomen Lavis (Brussels, Belgium), Sofia Morra, Carmen Orte Cano, Nurhan Albayrak, Véronique Corbière, Véronique Olisagers, Nicolas Dauby, Véronique Del Marmor, Arnaud Marchant, Christine Decaestecker, Françoise Mascart, Philippe Van De Borne, Isabelle Salmon, Myriam Remmelink, Marc Parmentier, Alessandra K Cardozo, Benjamin Bondue

Developing advanced cell culture models to study COVID-19-associated pulmonary fibrosis
Anne M. van der Does (Leiden, Netherlands), Siijia Liu, Ying Wang, Melissa Thaler, Annemarie Van Schadewijk, Mariska Van Huizen, Danielle Cohen, Marjolein Kikker, Martijn J. Van Hemert, Peter Ten Dijke, Pieter S. Hiemstra

Time-dependent molecular motifs of pulmonary fibrogenesis in COVID-19
Jan-Christopher Kamp (Hanover, Germany), Lavinia Neubert, Maximilian Ackermann, Helge Stark, Christopher Werlein, Jan Fuge, Axel Haverich, Alexandar Tzankov, Konrad Steinestel, Johannes Friesen, Peter Boor, Klaus Junker, Marius M. Hoepner, Tobias Welte, Florian Laenger, Mark P. Kuehnel, Danny D. Jonigk

Serological markers of tissue remodeling are elevated in patients with COVID-19 who develop interstitial lung disease
Helene Wallem Breisnes (Herlev, Denmark), Pernille Juhl, Diana Julie Leeming, Tom Wilkinson, Aishath Fazleen, Jannie Marie Bülow Sand

Balance between α1-Antitrypsin and Human Neutrophil Elastase (a1AT/HNE) in Bronchoalveolar Lavage fluid (BALf) of severe COVID19 patients
Valentina Vertui (Pavia, Italy), Maura D'Amato, Simona Viglio, Sara Bozzini, Monica Morosini, Laura Pandolfi, Sara Lettieri, Matteo Della Zoppa, Tommaso Fossali, Riccardo Colombo, Anna Aliberti, Paolo Iadarola, Federica Meloni

Broncho-alveolar expression of metalloproteinases and tissue growth factors as predictors of clinical severity in Sars-Cov-2 pneumonia
Vittorio Chino (Pavia, Italy), Francesco Bertuccio, Laura Saracino, Anna Aliberti, Michele Pagani, Sara Bozzini, Cecilia Bagnara, Sara Lettieri, Federica Meloni

Prolonged stay and endothelial dysfunction in hospitalized patients with covid-19
Laura Cornejo-Cornejo (México City, Mexico), Juan Marquez-Cordero, Arturo Orea-Tejeda, Dulce Gonzalez-Islas, Jorge Aguilar-Meza, Alejandra Rios-Peraeda, Iris Lopez-Vazquez, Mariana Salavaterra-Escobar, Carlos Sanchez-Moreno, Gamaliel Aztatzi-Aguilar, Maria Sierra-Vargas, Yasmin Debray-Garcia, Alejandra Loaea-Roman, Susana Galicia-Amor, Esperanza Trejo-Mellado

Correlation between lung inflammatory cells, viral load and cytokines in fatal COVID-19
Natália de Souza Xavier Costa (São Paulo, Brazil), Jonas Erjfajlt, Jimmie Jönsson, Olga Cozzolino, Katia Dantas, Carla-Magnus Claussen, Premukumar Siddhuraj, Caroline Lindö, Suzete Ferreira Spinha Lombardi, Alfredo Mendroni Júnior, Leila Antonangelo, Caroline Silvério Faria, Amaro Nunes Duarte Neto, Renata Almeida Monteiro, João Renato Rebelo Pinho, Michele Soares Gomes-Gouvêa, Roberta Verciano Pereira, Jhonatas Sirino Monteiro, João Carlos Setubal, Ellen Pierre De Oliveira, Jair Theodora Filho, Caroline Sanden, Jamie Orenigo, Matthew Sleeman, Luiz Fernando Ferraz Da Silva, Paulo Nascimento Saldiva, Marisa Dolhnikoff, Thais Mauad

Protemic profiling of severe lung diffusion impairment in the recovery stage of COVID-19-induced ARDS
Maria C García-Hidalgo (Udela, Spain), Jessica González, Iván D Benítez, Sally Santistevne, Fátima Rodríguez-Jara, Marta Molinero, Manel Pérez-Pons, Gerard Torres, Anna Moncusi-Moix, Clara Gort-Paniello, Paola Carmona, Jesús Caballero, Carme Barberà, Ana P. Tedíte, Raquel Almansa, Adrián Ceccato, Laia Fernández-Barat, Ricard Ferrer, Dario Garcia-Casulla, Rosario Menéndez, Anna Motos, Oscar Peñuelas, Jordi Riera, Jesús F Bermejo-Martín, Antoni Torres, Ferrán Pipavat, Ganesh Raghu

Andrea Portacci (Taranto, Italy), Paola Pierucci, Sara Quaranta, Ilaria Iorillo, Cristian Locorotondo, Enrico Buonamico, Fabrizio Diaferia, Esterina Boniello, Giuseppe Di Gioia, Maria Francesca Grimaldi, Giovanna Elisiana Carpegano

HLA Class I allele is associated with a lower risk to develop Post-COVID19 interstitial lung manifestations
Gloria Pérez-Rubio, Ramcés Falfán-Valencia, Ivette Buendía-Roldán, Enrique Ambrocio-Ortiz, Hiram Aguilar-Durán, Leslie Chávez-Galán, Angel Camarena
Thematic poster: Noninvasive respiratory support in COVID-19: what did we learn?

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

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

**Chairs:** Claudia Crimi (Catania (CT), Italy), Miguel Filipe Martins de Matos Navarro Guia (Carnaxide, Portugal)

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**Role of BAL in COVID-19 patients: a prospective multicentre study**
Luca Ciani (Firenze, Italy), Giuliet Guioni, Claudia Ravaglia, Venerino Poletti, Valentina Luzzi, Leonardo Giuntoli, Leonardo Gori, Ernst Benoit, Edoardo Berillo, Alessandro Morettini, Carlo Nozzoli, Federico Lavorini, Anna Peired, Cosimo Nardi, Fabio Morecchiato, Gian Maria Rossolini, Simona Pollini, Laura Maggi, Francesco Annunziati, Marco Matucci Cerinic, Sara Tomassetti

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**Usefulness of the early combination of non-invasive respiratory therapies in patients with COVID-19**
José Rafael Terán Tinedo (Madrid, Spain), Pablo Mariscal Aguilar, Miguel Lorente González, Eduardo Cano Sanz, Joaquin Hernández Núñez, Maria Ángeles Ortega Fraile, Daniel Laorden Escudero, Isabel De La Calle Gil, Maria Cristina Plaza Moreno, Daniel Carballo López, Berta Gallego Rodríguez, Maríana Calderon Alcalá, Aila' Latif Essa, Annette Zevallos Villegas, Soraya Gholamian Ovejero, María Churrera Arróspide, Manuel Valle Falcons, Elena Maria Saiz Lou, Carmen Rodriguez Calle, Pedro Landete Rodriguez

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**High-flow nasal cannula oxygen versus non-invasive ventilation in patients with COVID-19: a systematic review and meta-analysis**
Azizullah Beran (Toledo, United States), Omar Srour, Saif-Eddin Malhas, Mohammed Mhana, Hazem Ayesh, Waleed Khokher, Khaleed Srour, Ragheb Assaly

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**Severe SARS-CoV-2 pneumonia and pneumomediastinum and/or pneumothorax: a prospective observational study in an intermediate respiratory care unit**
Miguel Lorente González (Madrid, Spain), José Rafael Terán Tinedo, Daniel Laorden Escudero, Annette Zevallos Villegas, Miguel Suárez Ortiz, Pablo Mariscal Aguilar, Eduardo Cano Sanz, María Ángeles Ortega Fraile, Joaquin Hernández Núñez, Adalgisa Falcone, Elena María Saiz Lou, María Cristina Plaza Moreno, Clotilde Funes Moreno, Isabel De La Calle Gil, Rosalía Navarro Casado, Daniel Carballo López, Berta Gallego Rodríguez, Soraya Gholamian Ovejero, Aylaf Latif Essa, Carmen Rodriguez Calle, Tomás Jesús Villén Villegas, Pedro Landete Rodriguez

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**Lung Ultrasound versus SpO2-guided as "Best-PEEP" titration in SARS-CoV2 ARDS**
Salvatore Longobardi (Milan, Italy), Paolo Gaboardi, Fabrizio Nava, Andrea Lanza, Leonardo Rovere, Luca Ciceri, Michele Chiericozzi, Paolo Tarsia

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**Palliative care for Continuous Positive Airway Pressure (CPAP) withdrawal in patients with COVID-19**
Shi Han Lee (Colchester, United Kingdom), Asfandyar Yousuf, Sangam Bhandari, Mayurun Selvan, Harriet Roebuck, Rekha Badiger

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**CPAP-associated changes in oxygenation and clinical outcomes in severe COVID-19 pneumonia**
Stefano Pini (Milan, Italy), Marina Saad, Luca Perotto, Marina Gatti, Davide Alberto Chiumello, Stefano Aliberti, Francesco Blasi, Dejan Radovancevic, Pierschile Santus

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**Treatment of COVID-19 ARDS with a tabletop NIV device in a Respiratory Intermediate Care Unit**
Barney Isaac (Vellore (Tamil Nadu), India), Nadesan Priya, Avinash Nair, Balamugesh Thangakunam, Amith Balachandran, Tina George, Sheba Thomas, Tarun George, Ramya Iyadurai, Selwyn Kumar, Anand Zachariah, Bhagteshwar Singh, Priscilla Rupali, Kishore Pichamuthu, Richa Gupta, Jeffereson Daniel, Jebin Roger, Sujith Chandy, Devashayam Christopher

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**Utility of Continuous Positive Airway Pressure (CPAP) in COVID pneumonitis patients not suitable for mechanical ventilation**
Jessamy Reece (Worces, United Kingdom), Bethany Jones, Roisin O’Neill, Abhi Lal, See Ling Tan

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**Predicting the need for Continuous Positive Airway Pressure (CPAP) or High-flow nasal oxygen (HFNO) in COVID-19 and patient outcome**
Mohammed Jahanzeb Malik (Leatherhead, United Kingdom), Simon Bax, Riaz Ahmed

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**ROX index dynamics according to HFNC success in ICU patients with COVID-19-related acute respiratory failure**
Pervin Hanç (Edirne, Turkey), Ahmet Uysal, Beyza Yuksel, Volkan Inal

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**Development of a Non-Invasive Respiratory Support Pathway in COVID19 patients with severe respiratory failure in an Intermediate Respiratory Care Unit**
Antonio Menéndez (Granada, Spain), Jose Antonio Sánchez-Martínez, Susana Rojo-Tolosa, María Victoria González-Gutiérrez, Graciela Carolina Jurkoje Mohrenberger, Gonzalo Jiménez-Gálvez, Concepción Morales-Garcia
CLINICAL FINDINGS AND OUTCOMES FROM 1306 PATIENTS WITH COVID-19 PNEUMONIA IN AN INTERMEDIATE RESPIRATORY CARE UNIT: A PROSPECTIVE, OBSERVATIONAL STUDY


Predictors of Non-invasive Respiratory Support Failure in COVID-19 Pneumonia (RUTIROX). Preliminary Results

Toni Marin (Badalona (Barcelona), Spain), Irene Aldás, Marina Galdeano, Leire Mendiluce, Alan Jhunior Solis, Isabel Alfaya, Adriana Martín, Marina Perpiñán, Jorge Abad, Antoni Rosell

Thematic poster: Advances in the diagnosis of tuberculosis, multidrug-resistant tuberculosis and NTM

Disease(s) : Pulmonary vascular diseases, Airway diseases

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

Chairs : Selin Ercan (Izmir, Turkey), Irina Kontsevaya (Borstel, Germany)

Disseminated tuberculosis is associated with more false negative interferon gamma release assay results compared to localized tuberculosis
Shagun Shah (, United Kingdom), Michael Eisenhut

Mutational profile of gyrA and gyrB genes associated with fluoroquinolones (FQs) resistance among drug resistant tuberculosis patients: an observational study
Vikram Bajiya (Jodhpur, India), Chaina Ram Choudhary, Gopal Purohit, Ashok Kuwal, Ankita Mohanty

Variability of resistance of Mycobacterium tuberculosis based on whole genome sequencing in patients with MDR and XDR-TB in the Kharkiv region, Ukraine
Dmytro Butov (Kharkiv, Ukraine), Tetina Butova, Mykhailo Kuzhko, Oleksii Solodiankin, Nataliia Rudova, Anton Tkachenko, Michael Harris, Andrei Gabrielian, Darrell Hurt, Alex Rosenthal

The alternation of gut microbiome composition can predict latent tuberculosis infection status in poorly-controlled diabetic patients: A prospective case-control study
Jann-Yuan Wang (Taipei, Taiwan), Hung-Ling Huang, Inn-Wen Chong, Jinn- Moon Yang, Po-Liang Lu

Next generation sequencing reveals miR-431-3p and miR-1303 as immune-regulatory microRNA for active pulmonary tuberculosis through targeting MDR1/MMP16/RIPOR2 and ATG5 signaling
Yung-Che Chen (Kaohsiung, Taiwan), Chao-Chien Wu, Meng-Chi Lin, Chang-Chun Hsiao, Chiu Ping Lee

Role of complete-thoracentesis in TB-pleural-effusions, precluding residual-pleural-thickening, a case-control study(300 cases)?
Abdul Rasheed Qureshi (Lahore, Pakistan), Muhammad Irfan

Utility of the provocation coupled with the drug reintroduction test in the diagnosis of a hypersensitivity reaction to fixed-dose combination (FDC) of anti-TB drugs
Aissa Sana (Sousse, Tunisia), Omrane Asma, Ben Jazia Rahma, Benzarti Wafa, Knaz Asma, Kacem Amani, Gargouri Imen, Abdelghani Ahmed, Hayouni Abdelaziz

Comparison of Indigenous tuberculin skin test (TST) antigen solution developed in India with Tubersol in diagnosing latent tuberculosis
Devashayam Jesudas Christopher (Vellore (Tamil Nadu), India), Natesan Priya, Thangakunam Balamugesh, Barney Isaac, Prasanna Samuel

Study of CD27, CD38, HLA-DR and Ki-67 immune profiles for the characterization of activedetuberculosis, latent infection and cured disease.
Sergio Diaz Fernández (Barcelona, Spain), Raquel Villar-Hernández, Zoran Stojanovic, Marco Antonio Fernández-Samartín, María Luisa De Souza-Galvão, Guillermo Tolosa, Adrián Sánchez-Montalva, Jorge Abad, Maria Angeles Jiménez-Fuentes, Guillem Safont, Iris Romero, Josefina Sabriá, Cristina Prat, Jose Dominguez, Irene Latorre

Diagnostic accuracy of molecular assays for drug susceptibility testing of M.tuberculosis using a raw sputum and isolates strains.
Valeriu Crudu (Chisinau, Republic of Moldova), Sofia Alexandru, Nelly Ciobanu, Alexandru Codreanu, Ecaterina Noroc, Dumitru Chesov, Ted Cohen
Comparison of QuantiFERON-TB Gold Plus vs tuberculin skin test in a healthy population in Mexico
Adrian Rendon (Monterrey, Mexico), Adrian G. Rosas Taraco, Jorge Martín Llaca Díaz, Berenice Soto Monciváis, Adriana González Gutiérrez, María José Sánchez Otero, Aurora Eloísa Mercado Sánchez

Utility of GeneXpert MTB/Rif for detection of drug resistance in tuberculous pleural effusion(TPE) in high endemic areas
Radhika Banka (Mumbai (Maharashtra), India), Swapna Naik, Jai Mullerpattan, Lancelot Pinto, Zarir Udwadia, Camilla Rodrigues

Comparing drug susceptibility testing for drug resistant TB using TB PCR and WGS
Mirae Park (London, United Kingdom), Giovanni Satta, Onn Min Kon

The role of autophagy associated gene expressions in the progression from latent TB infection to active pulmonary TB disease
Ying-Tang Fang (Kaohsiung City, Taiwan), Yung-Che Chen

A retrospective audit assessing the efficacy of the GeneXpert test in diagnosing TB in a paediatric population
Robert White (LEICESTER, United Kingdom), Srini Bandi

Multiparameter immunoprofiling differentiates progressive from nonprogressive nontuberculous mycobacteria lung disease (NTM-LD)
Paige Marty (Rochester, United States), Balaji Pathakumari, Virginia Van Keulen, Maleeha Shah, Tobias Peikert, Patricio Escalante

Identification of lung macrophage secreted biomarkers for the development of rapid, accurate and affordable point-of-care tuberculosis diagnosis test suitable in low income settings.
Paulin Essone (Lambarene, Gabon), Bayode Adegbite, Ayodele Alabi, Bertrand Lell, Ayola Adegnika, Peter Kremsner, Martin Grobusch, Selidji Agnandji

Thematic poster: Clinical consequences and systemic effects of obstructive sleep apnoea

Thematic poster: Clinical consequences and systemic effects of obstructive sleep apnoea

Determinants of sleepiness and related polysomnographic variables in sleep apnea patients: cross sectional study
Luci Suliman (Mansoura, Egypt), Raed Elmetwaley, Elshaima El-shimaa Sabry Mohamed

Hypoxic burden in patients with Obstructive Sleep Apnea and its correlation with other polygraphic parameters and subjective hypersomnia.
Thais Beauperthuy Levy (Valencia, Spain), Grace Oscullo Yepez, Marina Inglés Azorín, Alberto García-Ortega, Jose Daniel Gómez-Olivas, Amina Bekki, Miguel Ángel Martinez-García

Partners cannot help improve the accuracy of the Epworth Sleepiness Scale for assessment of Excessive Daytime Sleepiness
Bob Tielbeek (Maastricht, Netherlands), Susan Voncken, Umit Karaca, Astrid Kolfoort-Otte, Martijn De Kruif

Micro-sleep during MWT and risk of sleepiness at wheel or near-missing accidents
Francesco Fanfulla (Pavia (PV), Italy), Pasquale Tondo, Irene Risi, Caterina Pronzato, Marisa Bonsignore

Residual excessive daytime sleepiness (EDS) in Italian patients with obstructive sleep apnea (OSA) treated with continuous positive airway pressure (CPAP): preliminary results of the OSAREDS study
Maria Bonsignore (Palermo, Italy), Tommaso Sacco, Alberto Braghiroli, Francesco Fanfulla, Luigi Ferini-Strambi, Anna Lo Bue, Fabio Placidi, Andrea Romigi, Giuseppe PiaZZi

Prevalence and predictors of Residual Sleepiness (RS) in Obstructive Sleep Apnea (OSA) Patients Treated with Positive Airway Pressure (PAP)
Michail Fanaridis (Heraklion, Greece), Izolde Bouloukaki, George Stathakis, Christina Ermidou, Violeta Moniaki, Eleni Mavroudi, Sophia Schiza

Obstructive Sleep Apnea and Fracture Risk
Daniela Krasmirova (Sofia, Bulgaria), Ventislava Pencheva, Ognyan Georgiev, Daniela Petrova, Radoslav Bilyukov, Tzanko Mondeshki, Sevda Naydenska, Petko Shoshkov, Adelina Tzakova

Hepatic steatosis in patients with obstructive sleep apnoea syndrome
Manel Loukil Ben Ali (Nabeul, Tunisia), Warda Jelassi, Narjes Abid, Mechaal Ben Ali, Hedia Ghrairi
Hepatic dysfunction in patients with obstructive sleep apnea: prevalence and how to assess
Ali Abdelaziz (Minia, Egypt), Ahmed Kasem, Rabab Sedeek, Mahmoud M. Higazi, Ahmed Mady

Association with obstructive sleep apnea severity and heart rate variability
Soriul Kim (Seoul, Republic of Korea), Hye Ryeong Nam, Chol Shin

Impact of sleep-disordered breathing on premature ventricular complexes after cardiac surgery
Luise Schäffer (Regensburg, Germany), Annika Hofmann, Marcus Creuztenberg, Bernhard Flörchinger, Daniele Camboni, Christof Schmid, Lars Siegfried Maier, Stefan Wagner, Michael Arzt, Maria Tafelmeier

Obstructive sleep apnea and associations with lung function
Baz Delshad (Uppsala, Sweden), Mirjam Ljunggren, Xingwu Zhou, Jenny Theorell-Haglöw, Christer Janson, Ding Zou, Jan Hedner, Ludger Grote, Anders Blomberg, Karl A. Franklin, Carin Sahlin, Andrei Malinovschi, Eva Lindberg

Association between gut microbiota and obesity in obstructive sleep apnea
Masako Ueyama (Tokyo, Japan), Ryuji Ohue, Hiroyuki Kokuto, Fumio Suzuki, Shinichi Oikawa, Hiroshi Kimura, Ikuo Kimura

Comparison of composite lipid indices in patients with obstructive sleep apnoea
Andras Bikov (Budapest, Hungary), Stefan Frent, Daniela Reisz, Alina Negru, Laura Gaita, Daniel Breban Schwarzkopf, Stefan Mihai Cutca

Relationship between Neutrophil to lymphocyte ratio and platelet to lymphocyte ratio and the severity of obstructive sleep apnea syndrome
Arbia Chaieb (Tunis, Tunisia), Abir Hedhli, Mjid Mariem, Turki Chaima, Cheikhrouhou Sana, Merai Samira, Toujeni Sonia, Ouhachi Yassine, Dhaire Bessma

Apnea-hypopnea index of 5 per hour is a threshold for phosphatidylcholine-related metabolomic changes in patients with sleep complaints
Ott Kiens (Tartu, Estonia), Egon Taalberg, Viktoria Ivanova, Ketlin Veevääli, Ragne Tamm, Triin Laurits, Aigar Ottas, Kalle Kilk, Ursel Soomets, Alan Altraja

Inflammation and oxidative stress markers in obstructive sleep apnea patients
Anca Diana Maierean, Damiana Maria Vulturca, Doina Adina Todea

The association between snoring and hearing loss in patients with obstructive sleep apnoea.
Emily Lawton (Adelaide, Australia), Mark Jurisevic, Kate Hobart, Jonathon Polasek, Andrew Fon

REM sleep apnoea and carotid intima thickness in men and women A SHE-MUSTACHE Cohort Study
Mirjam Elisa Ljunggren (Uppsala, Sweden), Tord Naessén, Jenny Theorell-Haglöw, Karl Franklin, Eva Lindberg

Association of REM predominant obstructive sleep apnoea severity with depression and quality of life in adults with coronary artery disease in the RICCADSA cohort
Baran Balcan (Istanbul, Turkey), Yeliz Celik, Yuksel Peker

TP-10 Session 13:00 - 14:00
Thematic poster: Clinical treatment of asthma

Effect of once daily (o.d.) mometasone/indacaterol/glycopyrronium (MF/IND/GLY) vs o.d. MF/IND and twice daily (b.i.d.) fluticasone/salmeterol (FLU/SAL) with respect to age, age at asthma-onset and BMI at baseline: Subgroup analysis from IRIDIUM study
Huib A.M. Kerstjens (Groningen, Netherlands), David Lawrence, Karen Mezzi, Domin Brittain, Xavier Jaumont, Kenneth R. Chapman

A window of opportunity to prevent exacerbations in intermittent and mild persistent asthma
Miguel Lanz (Coral Gables, United States), Michael Pollack, Ileen Gilbert, Hitesh Gandhi, Joseph Tkacz, Njira Lugogo

Predictors of treatment response to high-dose ICS/LABA or medium-dose ICS/LABA+LAMA in asthma patients - TAILOR study
Katia Mc Verhamme (Rotterdam, Netherlands), Maria De Ridder, Peter Rijnbeek, Mees Moseveld, Lars Pedersen, Ettore Marconi, Francesco Lapi, Cheryl Tan, Antonella Delmestri, Dani Prieto-Alhambra, Dani Prieto-Alhambra, Elena Nudo, Guy Brusselle
SABA-free asthma management challenged by refer id asthma questionnaire.
Luis Nannini (Rosario (Pcia. Santa Fe), Argentina), Nadia Brandan, Octavio Fernandez, Gabriela Chirino, Nadia Zuccarino, Francisco Rovira

Short and longer-term effects of tailored pulmonary rehabilitation for difficult-to-control asthma associated with elevated body mass index
Helen Clare Ricketts (Glasgow (Glasgow), United Kingdom), Femke Steffensen, Duncan S Buchan, Rekha Chaudhuri, Douglas C Cowan

Efficacy of once-daily medium- or high-dose mometasone/indacaterol/glycopyrronium (MF/IND/GLY) versus twice-daily high-dose fluticasone/salmeterol (FLU/SAL) to control nocturnal symptoms in patients (pts) with inadequately controlled asthma
Kenneth R. Chapman (Toronto (ON), Canada), Richard Van-Zyl Smit, Karen Mezzi, Dominic Brittain, Huib Am Kerstjens

Efficacy of once-daily (o.d.) indacaterol/glycopyrronium/mometasone (IND/GLY/MF) vs free combination of twice-daily salmeterol/fluticasone (SAL/FLU) & o.d. tiotropium with respect to age, age at asthma-onset & BMI at baseline: ARGON subgroup analysis
Richard Van Zyl-Smit (Cape Town, South Africa), David Lawrence, Karen Mezzi, Dominic Brittain, Xavier Jaumont, Christian Gessner

A randomized cross-over study comparing correct use and preference between two inhalers in patients with asthma
Job van der Palen (Enschede, Netherlands), David Slade, Manish Verma, Maximilian Plank

Asthma patient adherence to biologic and non-biologic treatments
Michelle Tan (London, United Kingdom), Kelly Kueh

Medication adherence and asthma control with once-daily indacaterol/glycopyrronium/mometasone (IND/GLY/MF) Breezhaler digital companion: interim analysis from Europe
Holger Woehrle (Ulm, Germany), Paul Mastoridis, David A Stempel, Leanne Kaye, Vy Vuong, Karen Mezzi

Medication adherence and asthma control with once-daily indacaterol/glycopyrronium/mometasone (IND/GLY/MF) Breezhaler digital companion: interim analysis from Japan and Germany
Holger Woehrle (Ulm, Germany), Paul Mastoridis, David A Stempel, Leanne Kaye, Vy Vuong, Karen Mezzi

Efficacy of indacaterol/glycopyrronium/mometasone (IND/GLY/MF) vs free combination of salmeterol/fluticasone (SAL/FLU) & tiotropium (TIO) in patients with uncontrolled asthma on prior LABA/ICS high-dose (GINA step 5): Results from ARGON study
Christian Gessner (Leipzig, Germany), David Lawrence, Karen Mezzi, Dominic Brittain, Richard Van-Zyl Smit

TriOptimize X: Improved adherence by extrafine single-inhaler triple therapy in real-world
Carl-Peter Criee (Bovenden, Germany), Frederik Trinkmann, Stephanie Güldenring, Nathalie Loeper, Valentina Bogoevska, Christian Gessner

Airway hyperresponsiveness in uncontrolled severe eosinophilic asthma with anti-IL5r
Rory Chan (Glasgow, United Kingdom), Chris Ruiwen Kuo, Sunny Jabbal, Cally Smith, Brian Lipworth

Bronchodilator responsiveness testing with inhaled budesonide/formoterol in asthma.
Luis Nannini (Rosario (Pcia. Santa Fe), Argentina), Nadia Neumayer, Nadia Brandan, Octavio Fernandez

Oral corticosteroid-related morbidity and mortality in asthma - a Danish nationwide cohort study
Inge Raadal Skov (Odense, Denmark), Hanne Madsen, Daniel Pilsgaard Henriksen, Jacob Harbo Andersen, Anton Pottegård, Jesper Ramhild Davidsen

Determinants of type of step-up treatment following medium-dose ICS/LABA in asthma patients - TAILOR study
Katia Mc Verhamme (Rotterdam, Netherlands), Maria De Ridder, Peter Rijnbeek, Mees Moseveld, Lars Pedersen, Francesco Lapi, Ettore Marconi, Cheryl Tan, Antonella Delmestri, Dani Prieto-Alhambra, Dani Prieto-Alhambra, Enena Nudo, Guy Brusselle

A Pilot Randomized Trial of As-needed Budesonide-formoterol for Stepping Down Controller Treatment in Asthma with Complete Remission
Narongwit Nakwan (Songkhla, Thailand), Thidarat Ruklerd, Pattarawadee Taptawee

Early lung function and asthma control test score after different biological therapy in severe asthmatics patients in real-life
Maria Eugenia Navarrete Rouco (Barcelona (Barcelona), Spain), Cinta Cumpli, Esmeralda Hernández, Juana Martinez-Llorens, Nuria Carballo, José González-Garcia, Pilar Ausín

Once-daily Inhaled therapy and peak flowmetry: How effective in improving adherence and control of Asthma
Pramod Dadhich (Mumbai, India)
**Thematic poster: Viral respiratory infections and primary ciliary dyskinesia**

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

**Thoracic oncology**

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

**Chairs:** Myrofora Goutaki (Bern, Switzerland), Laura Petrarca (Roma (RM), Italy)

- **Bronchiolitis 2021-2022: the other viruses revenge**
  Meriem Mjid (Tunis, Tunisia), Fatma Khalsi, Imen Brikki, Emna Ben Arab, Ines Trabelsi, Imen Belhadj, Khedija Boussetta

- **Variation in the pattern of childhood respiratory viral infections during the COVID-19 pandemic**
  Dana Pe'er Mosovich (Jerusalem, Israel), Diana Averbuch, Dana Wolf, Oded Breuer

- **Effects of the Covid-19 Pandemic on the nature of bronchiolitis in infants**
  Emma Smith (Kent, United Kingdom), Thomas Blyth, Miriam Fine-Goulden

- **Bronchiolitis vs. COVID-19: epidemiologic correlations from a single Pediatric Unit experience.**
  Claudio Cavalli (Cremona, Italy), Anna Vaccari, Alessandra C.F. Ferrari, Lorenza Bonetti, Elena Carboni, Filippo Puricelli, Gloria Fumagalli, Mariano S.S. Cosentino, Martina Soliani, Andrea E. Scaramuzzza

- **Hospitalizations for acute bronchiolitis in infants after relaxation of COVID-19 mitigation strategies in Brazil.**
  Leonardo Pinto (Porto Alegre (RS), Brazil), Frederico Friedrich, Magali Lumertz, Lucas Montiel Petry, Marina Pieta, Marcos Brum, Marcelo Scotta, Marcus Jones, Renato Stein

- **Effectiveness of school or day-care center closure on rhinovirus infection during COVID-19 Pandemic**
  Jeewon Oh (Seoul, Republic of Korea), Young Seok Lee, Juwhan Choi, Jae Yeeom Sim, Kyung Hoon Min, Gyu Young Hur, Sung Yong Lee, Jae Jeong Shim

- **Evolution of the frequency cases of infection COVID-19 among children in relation to the evolution of the pandemic**
  Tatiana Dumintras (Chisinai, Republic of Moldova), Rodica Selecevru, Diana Rotaru-Cojocari, Ana Goloborodico, Venceslav Bozadji, Ion Negru, Ina Pali, Sergiu Gladun, Svetlana Siciua

- **Hospitalizations Associated with COVID-19 Among Children in Republic of North Macedonia from September 2021 to January 2022**
  Filip Doksimovski (Skopje, North Macedonia), Sandra Petlichkovska, Elena Ginovska, Hristijan Nestorov, Katerina Boshkovska, Tanja Jakovska

- **Mild symptomatology of SARS-CoV-2 infection in children born very preterm**
  Gabriela Prado Peralta (Zürich, Switzerland), Mark Adams, Dirk Bassler, Alex Moeller, Giancarlo Natalucci, Susi Kriemler

- **Research priorities for Primary Ciliary Dyskinesia- experts’ perspective**
  Myrofora Goutaki (Bern, Switzerland)

- **Low incidence and severity of SARS-CoV-2 infections in people with PCD**
  Eva Sophie Lunde Pedersen (Bern, Switzerland), Leonie D Schreck, Myrofora Goutaki, Sara Bellu, Fiona Copeland, Jane S Lucas, Claudia E Kuehni

- **Research priorities in Primary Ciliary Dyskinesia - patients’ perspective**
  YIn Ting Lam (Bern, Switzerland)

- **Research priorities in Primary Ciliary Dyskinesia - experts’ perspective**
  Myrofora Goutaki (Bern, Switzerland), YIn Ting Lam, Bruna Rubbo, Laura Behan, Jane S. Lucas

- **Research priorities in Primary Ciliary Dyskinesia - patients’ perspective**
  YIn Ting Lam (Bern, Switzerland), Laura Behan, Katie Dexter, Lucy Dixon, Claudia E Kuehni, Eva S-L Pedersen, Jane Lucas, Myrofora Goutaki

- **Sinonasal features in patients with Primary Ciliary Dyskinesia - an EPIC-PCD study**

- **Evaluating transmission electron microscopy as the sole laboratory test for clinically-suspected PCD cases in a South African public hospital.**
  Monica Birkhead (Johannesburg, South Africa), Sam Otido, Theodore Mabaso, Refiloe Mopeli, Charl Verwey, Ziyaad Dangor
Body composition in Primary Ciliary Dyskinesia, does it matter?
René Gaupmann (Wien, Austria), Klara Schmidhaler, Sabine Renner, Zsolt Szépfalusi, Eleonora Dehlink

PICADAR - is there a need for a separate paediatric score?
Kirsten Wallace (West Calder, United Kingdom), Zoe Johnstone, Stefan Achim Unger, Kirstin Unger

Anxiety and depression in children with primary ciliary dyskinesia – Experience from a tertiary respiratory centre in the northwest United Kingdom
David Wood (Manchester, United Kingdom), Anirban Maitra

Depression, anxiety and sleep quality of caregivers with children with spinal muscular atrophy
Pinar Ergenekon, Zeynep Gumus, Cansu Yilinaz Yegit, Muruvvet Yanaz, Aytnur Gulieva, Mine Kalyoncu, Merve Selcuk, Seyda Karabulut, Gulfen Ozturk, Ela Erdem Eralp, Olay Unver, Bulent Karadag, Yasemin Gokdemir

Late Breaking Abstract - Increase of high flow nasal cannulas use after the pandemic in bronchiolitis: a more severe disease or a changed physician’s attitude?
Sergio Ghirardo (Trieste, Italy), Giorgio Cozzi, Giovanna Tonin, Francesco Maria Risso, Laura Dotta, Alessandro Zago, Daniela Lupia, Paola Cogo, Nicola Ullmann, Antonella Coretti, Raffaiele Badolato, Alessandro Amaddeo, Egidio Barbi, Renato Cutrera

Late Breaking Abstract - Prevalence of chronic respiratory disease in Australian Aboriginal children
Pamela Laird (Perth, Australia), Rachel Foong, Shekira Brahim, Elizabeth Mc Kinnon, Matthew Cooper, Roz Walker, Elizabeth Smith, Anne Chang, André Schultz

TF-15
Session 13:00 - 14:00

Thematic poster: Influence of infections, risk factors and biomarkers in paediatric asthma

Disease(s) : Airway diseases

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

Chairs : Susanne J. H. Vijverberg (Utrecht, Netherlands), Eckard Hamelmann (Bielefeld, Germany)

Exposure to bushfire smoke is associated with clinical significant decrease in lung function in asthmatic children during the 2019/2020 Australian bushfire
Carla Rebeca Da Silva Sena (Newcastle, Australia), Olivia Lines, Mariyam Shaya Latheef, Guvani Gaveshika Amarasinghe, Wei Han Quah, Tesfalidet Beyene, Joseph Van Buskirk, Ivan Hanigan, Geoff Morgan, Christopher Oldmeadow, Lauren Platt, Kasey Pearce, Vanessa Murphy, Peter G Gibson, Wilfried Karmaus, Adam Collison, Koert Dewaal, Joerg Mattes

Have you heard about Air Pollution?
Abigail Whitehouse (London, United Kingdom), Rachel Parker, Victoria Hadaway

Impact of COVID-19 related alterations in circulating respiratory viruses on children and adult patients with recurrent wheeze and asthma
Nicole Maisen (München, Germany), Ana Peck, Alexander Hose, Jimmy Omony, Bianca Schaub, Ruth Grychtol, Anna-Maria Dittrich, Catharina Nitsche, Svenja Foth, Markus Weckmann, Mustafa Abdo, Thomas Bahmer, Klaus F. Rabe, Harald Renz, Gesine Hansen, Matthias V. Kopp, Erika Von Mutius

Differences in COVID-19-triggered pediatric asthma exacerbations across variant waves
Kristina Gaietto (Pittsburgh, United States), Oliver Snyder, Nicholas Bergum, Leigh Anne Dicicco, Sherry Rauenswinter, Jennifer Iagnemma, David Wolfson, Traci Kazmerski, Erick Forno

Living with the risk of being infected: Asthma patients’ experiences during the Covid-19 pandemic.
fatih bounoua (AGADIR, Morocco), Abdelkrim Khannous, Houda Moubachir, Hind Serhane

Late Breaking Abstract - Parental socioeconomic status, access to specialist care, and childhood asthma severity, control, and exacerbations
Kjell Erik Julius Håkansson (København N, Denmark), Silvia Cabrera Guerrero, Vibeke Backer, Charlotte Suppli Ulrik, Deepa Rastogi

Follow-up of severe asthmatic children during COVID-19 pandemic: A comparative analysis
Gabriela Peláez (Buenos Aires, Argentina), Verónica Giubergia, Juan Manuel Figueroa, Claudio Castaños

The prevalence, severity and risk factors of asthma in school-going adolescents in KwaZulu Natal, South Africa.
Reratilwe Mphahlele (Durban (Kwazulu Natal), South Africa), Refiloe Masekela

Impact of moisture / mould exposure on asthma control in children: the CHAMPIASThma study
Stéphanie Lejeune (Lille, France), Margaux Sauverre, Flore Chagnon, Camille Cisterne, Clémence Mordacq, Caroline Thumerelle, Héloïse Ducoin, Manuela Scalbert, Armelle Le Mée, Mohamed Amani, Sawsan El Mourad, Sophie Encherry, Guillaume Pouessel, Juliette Roussel, Maxime Dartus, Emilie Fréalle, Elodie Drumez, Antoine Deschildre
Is the measurement of particles in exhaled air feasible and useful in children with suspected asthma?
Laura Healy (Manchester, United Kingdom), Fahad Al-Huda, Emma Barrett, Lisa Willmore, Rhys Tudge, Gina Kerry, Clare S Murray, Angela Simpson, Stephen Fowler

Factors associated with severe asthma in children
Jenny Libeth Jurado Hernández (Bogotá, Colombia), Iván Francisco Álvarez Orozco, Mario Barreto, Gabriel Oscar Sinfuentes Rodríguez, Natalia Becerra Uribe, Luis Fernando Giraldo Cadavid

Adult Follow-up of Children with Severe Asthma
Manon Lasseur (Montreuil, France), Camille Taillé, Véronique Houdouin, Stéphanie Wanin, Flore Amat

Role of sex and puberty on respiratory outcomes
Marina Attanasi (Chieti (CH), Italy), Annemiek Mian, Evelien R. Van Meel,Sophie M. Blaauwendraad, Vincent W.V. Jaddoe, Liesbeth Duijts

The impact of the Mediterranean diet on rhinitis prevalence
Francisco-Javier Gonzalez Barcala (Santiago de Compostela, Spain), Antonio Acevedo-Prado, María-Teresa Seoane-Pillado, Angel López-Silverray, Sonia Pértega, Francisco-Javier Salgado, Juan José Nieto-Fontarigo, Miguel Angel San-José-González, Juan Sánchez-Lastres, Manuel Sampredo, Teresa Pérez-Castro, Luciano Garnelo, Luis Bamonde

Trajectories Of Asthma-symptom And Their Association With Family Environmental Factors Among Children In Australia: Evidence From A National Birth Cohort Study.
K M Shahunja (Brisbane, Australia), Peter D Sly, Abdullah Maman

Better COVID-19 outcomes in children with good asthma control
Jasna Rodman Berlot (Ljubljana, Slovenia), Malena Aldeco, Dušanka Lepej, Marina Praprotnik, Saša Šetina Šmid, Aleksandra Zver, Uroš Krivec

Environmental exposures and recurrent wheeze in early childhood: a time-to-event study
Nithiseelan Rajen Naidoo (Durban, South Africa), Kareshma Asharam, Prakash Jeena, Aweke Mitiku

Housing and health – impact of mould on children with asthma
Abigail Whitehouse (London, United Kingdom), Victoria Hadaway, Rachel Parker

Respiratory (RA) & Non-IgE(NIgE) allergies both increase Respiratory Effort(RE) during sleep, implicating a common pathophysiology mechanism in Obstructive Sleep Apnoea(OSA)asthma associated. Asthma treatment (AT) decrease Apnoea Hypopnea Index(AHI).
Kalomoira Kefala (Paris, France), François Lavaud, Philippe Guerin

TP-18 Session 13:00 - 14:00
Thematic poster: Nursing interventions in various respiratory areas

Disease(s) : Interstitial lung diseases Airway diseases Sleep and breathing disorders Pulmonary vascular diseases
Method(s) : Palliative care Pulmonary rehabilitation Public health General respiratory patient care Epidemiology Pulmonary function testing Physiology
Chairs : Rui Pedro Marques da Silva (Sobreira – Paredes, Portugal), Sabina Miranda Valladares (La Laguna, Spain)

Audit of council-level clean air policies for schools in England
Chloe John (Liverpool, United Kingdom), Beth Lawrence, Ian Sinha, Alice Lee

Managing patients with respiratory diseases: burnout among HCP
Tomi Kovačević (Sremska Kamenica, Republic of Serbia), Bojan Zaric, Ivan Mikov, Darijo Bokan

Cognitive impairment in long COVID syndrome patients one year after infection
Javier Martín Núñez (Granada, Spain), Alba Navas Otero, Paula López López, Irene Torres Sánchez, Ángela Benítez Feliponi, Irene Cabrera Martos, Marie Carmen Valenza

A literature review of allergen management in Children with Type 2-high Asthma
Madeleine Gray-ffrench (Leicester, United Kingdom), Ian Sinha, Elissa Abrams, Ricardo Fernandes, Lynsey Brown
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**Thematic poster: Chronic management of respiratory diseases**

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

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

**Chairs:** Beatriz Abascal Bolado (Santander, Spain), Natasha Smallwood (Melbourne (VIC), Australia)

1. **The minimum important difference for the PREM-9 following a course of Pulmonary Rehabilitation (PR)**
   - Emma Chaplin (Leicester (Leicestershire), United Kingdom), David Coope, Jakub Zatloukal, Sarah Ward, Sally J Singh, Linzy Houchen-Wolloff

2. **Physical activity promotion interventions in chronic airways disease: preliminary findings from a scoping review and meta-analysis**
   - Caroline Reilly (Leeds, United Kingdom), Joe Sails, Rebecca Birch, Ian Clifton, Daniel Peckham, Jim Mckenna, Antonios Stavropoulos-Kalnoglou, Oliver Price

3. **Using technology to engage patients with interstitial lung diseases in a home exercise program: a pilot study**
   - Diana C Sanchez-Ramirez (Winnipeg, Canada)

4. **The lived experiences of people with idiopathic pulmonary fibrosis (IPF) to inform Home Based Pulmonary Rehabilitation (HBPR) in Delhi, India: A Qualitative Study**
   - Humaira Hanif (Noida, India), Obaidullah Ahmed, Rubia Ishrat, Ilaria Pina, Mark W Orme, Zahira Ahmed, Mohd Shibli, Andy Barton, Deepak Talwar, Sally Singh
Does personality predict physical activity and sedentary behaviors after pulmonary rehabilitation in patients with chronic respiratory diseases?
Pauline Caille (LODEV, France), Yannick Stephan, François Alexandre, Virginie Molinier, Nelly Héraud

Perceptions of patients about Pulmonary Rehabilitation (PR) in Bangladesh
G M Monsur Habib (Khulna, Bangladesh), Roberto Rabinovich, Nazim Üzظام, Kamrun Nahar, Sumaiya Akter, Hilary Pinnock

Feasibility study of home-based pulmonary rehabilitation (PR) in Bangladesh
G M Monsur Habib (Khulna, Bangladesh), Roberto Rabinovich, Nazim Üzظام, Kamrun Nahar, Sumaiya Akter, Hilary Pinnock

Effect of virtual pulmonary rehabilitation among patients with Chronic Obstructive Pulmonary Disease
Aldrin John Almario (Quezon City, Philippines), Glynna Ong-Cabrera

Comparison of the effectiveness of different telerehabilitation methods on exercise capacity, dyspnea and quality of life in COPD patients
Nursima Bulut (İstanbul, Turkey), Esra Pehlivan, Erdoğan Çetinkaya, Barış Demirkol, Melih Akay Arslan, Küşad Nuri Baydili, Halit Çınarka

Late Breaking Abstract - A long road to recovery? Reduced quality of life, impaired functional status and the lived experience of Long COVID patients, a cohort analysis.
Mark Faghy (Nottingham (Nottinghamshire), United Kingdom), Rebecca Owen, Ruth Ashton

Sing-a-Lung: Does Singing for Lung Health provide physiological changes in COPD?
Uffe Bodtger (Naestved, Denmark), Mette Kaasgaard, Daniel Bech Rasmussen, Anders Løkke, Peter Vuust, Ole Hilberg

Home oxygen therapy before, during, and after the COVID-19 pandemic: our reality
Ramon Antonio Toribio Abreu (Santo Domingo, Dominican Republic), Sheila Espinal

Differentiating acute heart failure from exacerbations of COPD: An AI-supported literature review
Sanne H B van Dijk (Enschede, Netherlands), Marjolein G J Brusse-Keizer, Charlotte C Bucsán, Carine J M Doggen, Job Van Der Palen, Anke Lenferink

A systematic review of shared decision-making interventions for people living with chronic respiratory diseases
Amy Barradell (Leicester (Leicestershire), United Kingdom), Charlotte Gerlis, Linzy Houchen-Wolloff, Hilary Bekker, Noelle Robertson, Sally Singh

Impact of pulmonary rehabilitation on the social support of people with COPD
Alda Sofia Pires De Dias Marques (Aveiro, Portugal), Sara Almeida, Patrícia Rebelo, Guilherme Rodrigues, Eduardo Samuel, Carolina Monteiro, Ana Grave, Cintia Dias, Cristiana Santos, Adriana Simões, Cláudia Rodrigues, Silvia Marques, Ana Carolina Conde Oliveira, Ana Sofia Rijo, Maria João Moura, Maria Aurora Mendes

Effectiveness of home-based pulmonary rehabilitation: systematic review and meta-analysis
Md Nazim Üzظام (Edinburgh, United Kingdom), Dhiraj Agarwal, Soo Chin Chan, Julia Patrick Engkasan, G M Monsur Habib, Nik Sherina Hanafi, Tracy Jackson, Paul Jebrajr, Ee Ming Khoo, Fatim Tahirah Mirza, Hilary Pinnock, Ranita Hisham Shunmugam, Roberto A. Rabinovich

Accelerometer adherence and physical activity levels for adults living with post-TB lung disease in Uganda
Wincelaus Katagira (Kampala, Uganda), Pauline Ndagire, Pina Ilaria, Richard Kasiita, Sally J. Singh, Bruce J. Kirenga, Mark W. Orme

The influence of adherence to COPD exacerbation action plans on health outcomes
Jade Schrijver (Enschede, Netherlands), Tanja Effing, Joanke Van Helden, Marjolein Brusse-Keizer, Job Van Der Palen, Paul Van Der Valk, Anke Lenferink

Impact of fatigue on physical performance during a pulmonary rehabilitation program in COPD patients
François Alexandre (Lodeve, France), Virginie Molinier, Amandine Calvat, Adriana Castanyer, Laurene Charbonnel, Thomas Henry, Louis Hognon, Morgane Jollive, Aurelien Marcenac, Antonin Vernet, Nelly Heraud

Pulmonary rehabilitation and changes in aerobic capacity, peak respiratory pressures and quality of life in Colombian patients with bronchiectasis
Lina Marcela Orozco Mejia (Cali, Colombia), Julián Andrés Rivera Motta

**TP-13**

**Session**

13:00 - 14:00

**Thematic poster: Obstructive lung diseases: trends, diagnosis and management**

**Disease(s):** Airway diseases

**Method(s):** Epidemiology Public health General respiratory patient care Pulmonary function testing
Chairs: Branislava Milenkovi (Beograd, Republic of Serbia), AYCAN YUKSEL (Ankara, Turkey)

Co-morbidities in COPD patients with Arg16Gly polymorphism of ADRB2 gene
Kostiantyn Dmytryiev (Vinnitsya, Ukraine), Yuriy Mostovoy, Nataliia Slepchenko, Yuliia Smereka, Dmytro Dmytryiev, Kateryna Dmytryieva

Respiratory health inequalities exponentially impact the most deprived tertile
Alice Lee (Liverpool, United Kingdom), Carlos Echevarria, Daniel Hawcutt, Ian Sinha

Long-term oxygen therapy in Catalonia over 18 years
Julia Tarrega Camarasa (Granollers, Spain),Alejandra Marin Arguedas

Disease burden and healthcare contact behaviour across care sectors in asthma
Kjell Erik Julius Håkansson (København N, Denmark), Vibeke Backer, Charlotte Suppli Ulrik

Healthcare resource consumption and care pathway of patients who died from asthma in France
Laurent Guillermnault (Toulouse Cedex, France), Michael Mounié, Agnès Sommet, Claire Camus, Alain Didier, Laurent Reber, Nadège Costa, Cécile Conte

Pharmacovigilance in Brazil: safety of budesonide-formoterol
Rafael Miranda (Santo Andre (SP), Brazil), Antonio Vattimo, Jana Fonseca, Marina Ramos, Ariane Oliveira, Karen Barbosa, Stevin Zung

Amongst chronic conditions, respiratory diseases are most inextricably linked to socioeconomic deprivation
Alice Lee (Liverpool, United Kingdom), Carlos Echevarria, Daniel Hawcutt, Ian Sinha

Characteristics of patients developing depression after hospitalization for COPD
Johanne Hermann Karlsen (Randers C, Denmark), Christian Torp-Pedersen, Kristian Hay Kragholm, Ulla Møller Weinreich, Peter Jacobsen

Parental COPD as a risk factor for developing COPD and disease severity in offspring – a systematic scoping review
Melina Sikjær (Egå, Denmark), Allan Sorensen, Ole Hilberg, Anders Lokke

Co-morbidities in COPD patients with Gln27Glu polymorphism of ADRB2 gene
Kostiantyn Dmytryiev (Vinnitsya, Ukraine), Yuriy Mostovoy, Nataliia Slepchenko, Yuliia Smereka, Dmytro Dmytryiev

Observational cohort study of pulmonary exacerbations in alpha-1 antitrypsin deficiency
Paul Ellis (Solihull, United Kingdom), Michael Newnham, John Ripollone, Mark Forshag, Alice Turner

Development and validation of a clinical model to identify candidates for allergic rhinitis pre-exposure prophylaxis: a multi-center study
Wenting Luo (Guangzhou (Guangdong), China), Baoqing Sun

HAS MORTALITY FROM COPD DECREASED IN SPAIN IN THE LAST TWO DECADES?
Gema Ramirez Rodriguez (Granada, Spain), Ana Quesada-Quesada, Antonio Menéndez-Lobo, Alejandro Romero-Linares, Bernardino Alcázar-Navarrete

Retrospective study characterising clinical manifestations and treatment patterns of hypereosinophilic syndrome in Europe
Lee Baylis (Apex, United States), Jeremiah Hwee, Rupert W Jakes, Lynn Huynh, Namhee Kwon, Rafael Alfonso-Cristancho, Gema Requena, Shawn Du, Anamika Khanal, Mei Sheng Duh

Prognosis of patients with COPD not eligible for major clinical trials
Shoaib Afzal (Herlev, Denmark), Yunus Çolak, Børge G. Nordestgaard, Peter Lange, Jørgen Vestbo

Where and when: The diagnostic setting and age at diagnosis for Danish COPD-patients - a nationwide registry study
Peter Ascanius Jacobsen (Aalborg, Denmark), Kristian Kragholm, Christian Torp-Pedersen, Ulla Møller Weinreich

Chronic airflow limitation and respiratory symptoms in relation to smoking in a general middle-aged population
Magnus Sköld (Stockholm, Sweden), Anders Blomberg, Per Liv, Carl Johan Östgren, Jan Engvall, Andrei Malinovschi, Gunnar Engström, Kjell Torén

Title: Development of a Community Screening tool for COPD in India: The OSCAR study
Deesha Ghorpade (Pune (Maharashtra), India), Jyoti Londhe, Sapna Madas, Anchala Raghupathy, Nisha Kale, Arvinder Narula, Reshina Patil, Prakash P R Doke, Sundee Salvi

The role of birth order and sibship size in the pathogenesis of asthma is independent of living standards
Daniil Lisik (Gothenburg, Sweden), Athina Ioannidou, Gregorio Paolo Milani, Sunkutu Nyassi, Salihya Selin Özuygur Ermis, Giulia Carla Imaculata Spolidoro, Hannu Kankaanranta, Emma Goksör, Göran Wennergren, Bright Ibeabughichi Nwaru
Thematic poster: Respiratory physiology assessment: choosing the right test for the patient

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

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

**Chairs:** Ana Lutas (São Domingos de Rana, Portugal), Chair to be confirmed

**Validity and symptom burden of impulse oscillometry (iOS) in idiopathic pulmonary fibrosis (IPF)**
Suhani Patel (London, United Kingdom), Karl Sylvester, Zhe Wu, Claire Nolan, Toby Maher, Philip Molyneaux, William Man

**Diagnostic work-up of asthma: more than spirometry**
Caspar Schiffers (Vienna, Austria), Emiel Wouters, Alina Ofenheimer, Tobias Mraz, Patricia Puchhammer, Marie-Kathrin Breyer, Renaud Louis, Wolfgang Pohl, Otto Chris Burghuber, Sylvia Hartl, Robab Breyer-Kohansal

**Accuracy of three different peak flow devices, a pilot study**
Martijn Cuipers (Roermond, Netherlands), Richard Bonné, Herman Jan Pennings

**Personal respiratory profiles assessed at rest ventilometry distinguished asthmatic from COPD patients**
Patrick Hanusse (Pessac, France), Pierantonio Laveneziana, Fabien Beaufils, Julie Joie, Christian Strauss, Pierre-Olivier Girodet, Thomas Similowski, Patrick Berger

**Personal respiratory profiles assessed at rest ventilometry predict phenotypes of asthmatic patients**
Patrick Hanusse (Pessac, France), Fabien Beaufils, Julie Joie, Pierantonio Laveneziana, Christian Strauss, Thomas Similowski, Pierre-Olivier Girodet, Christophe Pison, Patrick Berger

**Pulmonary function tests in COVID-19 pandemic: The thoughts and concerns of the patients**
Bilun Gemicioglu (Istanbul, Turkey), Ilgim Vardaloglu, Kamile Tombul, Nihal Ensen, Gunay Can, Sermin Borekci

**Understanding the pathophysiology of COVID-19: Are we investigating survivors appropriately?**
Ian Cliff (Stoke-on-Trent, United Kingdom), Imran Hussain, Naveed Mustfa, Charlotte Johnson, Helen Stone

**Correlation between multiple breath washout and spirometry in young cystic fibrosis children with pancreatic sufficiency**
Federico Alghisi (Roma RM, Italy), Matteo De Marchis, Sergio Bella, Fabiana Ciciriello, Alessandra Federici, Alessandro Giovanni Fiocchi

**Can remote monitoring of lung disease lead to more efficient patient care?**
Vicky Moore (Birmingham West Midlands, United Kingdom), Sherwood Burge, Christopher Huntley, Alastair Robertson, Gareth Walters

**Agreement of three continuous oximetry devices in COPD patients, users of supplementary oxygen and noninvasive ventilation.**
Roberto Vera Uribe (Santiago, Chile), Nicolás Sepúlveda Cáceres, Francisca Figueroa, Javiera Rosales Fuentes, Paula Urrutia, Constanza Hernandez, Francisca Zarriutua, Alvaro Oloives, Maria Elena Torres, Rodrigo Torres-Castro

**Cardiopulmonary Exercise Testing (CPET) Service Utilisation: Backlog to the Future**
Max Thomas (Birmingham, United Kingdom)

**Respiratory profiles assessed by rest ventilometry predict response to bronchodilator of COPD patients**
Patrick Hanusse (Pessac, France), Pierantonio Laveneziana, Fabien Beaufils, Julie Joie, Christian Strauss, Pierre-Olivier Girodet, Patrick Berger, Thomas Similowski

**Body plethysmography interpretation using ECSC versus GLI2019 reference equations**
Tânia Duarte (Caparica, Portugal), Catarina Rijo, Mafalda Loureiro, Susana Sousa, Paula Duarte

**Effects of Covid-19 pneumonia on submaximal exercise tolerance**
Salma Mokaddem Mohsen (Tunis, Tunisia), Asma Chaker, Nadia Ben Lazreg, Khouloud Kechaou, Mok Maalej, Saloua Ben Khamis Jamedldeine

**Comparing ultrasonic and breath-actuated jet nebulisers for sputum induction**
Paula Cristina Andrade Almeida (Aracaju SE, Brazil), Katherine Smith, Glenn Hearson, Matthew J. Martin, Tim W. Harrison
Evaluation of the Global Lung Initiative 2012 reference values for spirometry in China: a national cross-sectional study
Feilong Wang (Shanghai, China), Kun Wang, Cole Bowerman, Hogne Ulla, Jiaxing Sun, Marko Topalovic, Sanja Stanojevic, Qiang Li

Post-Covid Interstitial Lung Disease (PC-ILD): the role of pulmonary function testing and lung imaging in the long-term follow-up of patients with COVID-19 pneumonia
Daniela Pellegrino (Roma, Italy), Arianna Sanna, Emanuele Messina, Leonardo Maria Siena, Valentina Baccolini, Letizia D’Antoni, Pia Baiocchi, Paolo Villari, Carlo Catalano, Valeria Panebianco, Paolo Palange

Late Breaking Abstract - Smallest detectable change (SDD) of absolute long volumes by body plethysmography
Herman Groepenhoff (Lijnden, Netherlands), Margriet Kaldenbach, Andreas Waldmann

TP-20 Session 13:00 - 14:00
Thematic poster: COVID basic science

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

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

Chairs: Holly R. Keir (Dundee (Angus), United Kingdom), Natalia El-Merhie (Giessen, Germany)

Experimental SARS-CoV-2 human challenge in young adults
Alex Mann (London, United Kingdom), Ben Killingly, Mariya Kalinova, Arun Anandakumar, Alison Boyers, Brandon Londt, Nicolas Noulin, Christopher Chiu, Andrew Catchpole

Dynamics and Heterogeneity of the Lung Immunopathology in Severe COVID-19
Jonas Erjefalt (Lund, Sweden), Natália De Souza Xavier Costa, Jimmie Jönsson, Olga Cozzolino, Katia Dantas, Carla Magnes Claussen, Premkumar Siddhruraj, Caroline Lindö, Suzete Ferreira Spina Lombardi, Alfredo Mendroni Júnior, Leila Antonangelo, Caroline Sérgio Faria, Amaro Nunes Duarte Neto, Renata De Almeida Monteiro, João Rebelo Pinho, Michele Soares Gomes-Gouvêa, Roberta Verciano Pereira, Jhonatas Sirino Monteiro, João Setubal, Ellen Pierre De Oliveira, Jair Theodoro Filho, Caroline Sanden, Jamie Orengo, Matthew Sleeman, Luiz Ferraz Da Silva, Paulo Nascimento Saldíva, Marisa Dolnikoff, Thais Mauad

Impact of the NRF2 activator, stabilised synthetic sulforaphane, on systemic inflammation in COVID19: results from the STAR-COVID19 trial
Merete Bridget Long (Dundee, United Kingdom), Yan Hui Giam, Hani Abo-Leyah, Rebecca C Hull, Holly R Keir, Thomas Pembridge, Daniela Alferes De Lima, Benjamin J New, Sarah Inglis, Thenmalar Vadiveloo, Graeme Maclennan, Amy Gilmour, Chloé Hughes, Liliana Delgado, Alben T Dinkova-Kostova, James D Chalmers

Covid-19 and Cytokine Storm
Lucia Lopez Vergara (Zaragoza, Spain), Laura Torralba, Cristina De Diego, Ana Lasierra, Raquel Laohoz, Claudia Abadia, Pablo Ruiz De Copegui, Javier Godino, Alberto Cebollada, Beatriz Jimeno, Salvador Bello

Lymphocytic exhaustion in COVID-19 patients
Cristina De Diego Ramos (Zaragoza, Spain), Laura Torralba, Lucia López, Pablo Ruiz De Copegui, Raquel Laohoz, Claudia Abadia, Ana Lasierra, Alberto Cebollada, Javier Godino, Beatriz Jimeno, Salvador Bello

A study on the morbid histopathological changes in COVID-19 patients with or without comorbidities using minimally invasive tissue sampling
Animesh Ray (Kolkata (West Bengal), India), Ayush Goel, Deepali Jain, PrasenjitDas, Sudheer Arava, Geetika Singh, S Arulselvi, Naveet Wig

The features of thrombogenesis in COVID-19-associated pneumonia compared to bacterial pneumonia: the key role of fibrinolysis
Kseniya Bielosludtseva (Dniepropetrovsk, Ukraine), Mariia Krykhtina, Katerina Dyahovets

Cells and cytokines analysis in bronchoalveolar lavage (BAL) fluid during or after non-severe COVID-19 pneumonia
Camille Rolland-Debord (clermont-ferrand, France), Laurence Pieroni, Farah Bejar, Audrey Milon, Antoine Parrot, Anne Fajac, Jacques Cadranel

Histopathologic changes in lung tissue after Covid-19 pneumonia
Jasna Tekavec-Trkanjec (Zagreb, Croatia), Arijana Pačić, Čedna Tomasović-Lončarić, Darjan Ranilović, Divo Ljubičić

Impact of COVID 19 on bacterial respiratory isolates (2018-2021) from a UK tertiary cardio-thoracic ICU
Vidya Krishna (Chennai, India), Sundeep Kaul, Pradeep Panicker, Jaymin Morjaria, Anne Hall
T-cell responses to SARS-CoV-2 in patients during acute disease, convalescence and after vaccination

Cell surface GRP78 functions as an alternative virus entry receptor on monocytes during SARS-CoV-2 infection
Bing Han, Yibing Lü, Dominique Moser, Tobias Woehrle, Xiaoxi Zhou, Alexander Choukér, Ping Lei

Human pulmonary artery endothelial cells upregulate ACE2 expression in response to iron-regulatory elements: potential implications for SARS-CoV-2 infection
Queza K Toe (Essex, United Kingdom), Theo Issitt, Abdul Mahomed, Charles Sturges, Stephen J Wort, Gregory Quinlan

Could biological disease modifying anti rheumatic drugs (bDMARDs) and small molecules have a key role in preventing COVID-19 infection?
Fiammetta Danzo, Marina Saad, Sarah O'Donnell, Debora Spitaleri, Linda Pelosi, Anna Casartelli, Dejan Radovanovic, Pier Carlo Sarzi-Puttini, Pierachille Santus

Circulating cfDNA is an excellent marker of severity in Covid-19
Lucía Lopez Vergara (Zaragoza, Spain), Cristina De Diego, Laura Torralba, Ana Lasierra, Claudia Abadía, Raquel Lahoz, Pablo Ruiz De Copegui, Javier Godino, Alberto Cebollada, Beatriz Jimeno, Salvador Bello

T1-inflammatory endotype in patients with severe COVID-19
Takehiro Hasegawa (Hamburg, Germany), Yoshiaki Miyamoto, Niina Iwanaga, Maho Yoshida, Yamashita Kazuto, Yamashita Saya, Tamada Eiya, Kohjin Suzuki, Kenta Noda, Yoko Tabe

Viral kinetic modeling and simulation of the impact of non-pharmaceutical COVID-19 interventions in different countries: model-informed respiratory disease trial design
Igor Faddeenkov (Lyon, France), Simon Arsène, Claire Couty, Natacha Go, Solène Granjeon-Noriot, Daniel Smit, Riad Kahoul, Ben Illigens, Jean-Pierre Boissel, Aude Chevalier, Lorenz Lehr, Christian Pasquali, Alexander Kulesza

Late Breaking Abstract - Increased SARS-CoV-2 infection, protease and inflammatory responses in COPD primary bronchial epithelial cells defined with single cell RNA-sequencing
Matt Johansen (Miranda (NSW), Australia), Rashad Mahbub, Sobia Idrees, Duc Nguyen, Stefan Miemczyk, Prabuddha Pathinayake, Kristy Nichol, Nicole Hansbro, Linden Gearing, Paul Hertzog, David Gallego-Ortega, Warwick Britton, Bernadette Saunders, Peter Wark, Alen Faiz, Philip Hansbro

Late Breaking Abstract - SARS-CoV-2 load in exhaled end-tidal breath fine aerosol condensates among acutely symptomatic COVID-19 cases

Late Breaking Abstract - SARS CoV 2 RNA in exhaled air of hospitalized COVID 19 patients
Corné van den Kieboom (Utrecht, Netherlands), Lisa Kurver, Kjerstin Lanke, Dimitri Diavatopoulos, Gjirsi Overheul, Mihai Netea, Jaap Ten Oever, Reinout Van Creveld, Karin Mulders-Manders, Frank Van De Veerdonk, Heiman Werthaim, Jeroen Schouten, Janette Rahamat-Langendoon, Ronald Van Rij, Teun Bousema, Arjan Van Laarhoven, Marien De Jonge

TP-14 Session 13:00 – 14:00

Thematic poster: Epidemiology: products and diseases

Disease(s): Airway diseases, Respiratory critical care

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

Chairs: Stamatoula Tsikrika (Athens, Greece), Linnea Hedman (Luleå, Sweden)

Smoking cessation program for patients with diabetes-success factors
Aliki Kortkontzelou (Athens, Greece), Stamatina Driva, Sotiria Schoresaniti, Zafeiria Barbaressou, Vasiliki Vasileiou, Vasiliki Saltagianni, Alexander Osarogoe, Sotiros Gyftopoulos, Martha Andritsou, Sofia Pappa, Serena Tonstad, Christina Gratziou, Nikolaos Tentolours, Paraskevi Kataoungou

Impact of smoking and arterial hypertension on plasma surfactant protein-A levels in patients during acute exacerbation COPD
Olga Shtepa (Dnipropetrovsk, Ukraine)

Biomarkers used to evaluate smoking in COPD patients
Letitia Trofor (Iasi (Iasi), Romania), Antigona Carmen Trofor, Ioana Buculei, Mona Dobrin, Roberta Ionela Cernat, Oana Melinte, Cristina Vicol, Emanuel Stavarache
Evaluation of environmental tobacco smoke exposure of pediatric patients with chronic lung diseases
Setenay Akyuzluer Gunes (Ankara, Turkey), Gizem Ozcan, Fazilcan Zirek, Merve Nur Tekin, Filiz Bakar Ateş, Nazan Cobanoglu

Students' smoking prevalence in Barcelona region in 2021: study of its evolution compared to 2016 and 2019.
Cristina Muñoz-Pindado (Vic (Barcelona), Spain), Genoveva Vilardell-Rifà, Carlos Muñoz-Pindado

SARS CoV-2 infection in a cohort of patients from a smoking cessation program in Bogotá
Juan Pablo Rodriguez Gallego (Bogota, Colombia), Daniela Cifuentes Hurtado, Mauricio Gonzalez Garcia

High parental education a risk factor for teenage e-cigarette use in Ireland
Joan Hanafin (Dublin, Ireland), Salome Sunday, Luke J. Clancy

The decline in teenage smoking has reversed in Ireland - how can we intervene?
Salome Sunday (Blackpool, Ireland), Joan Hanafin, Luke Clancy

Educational interventions to improve inpatient smoking cessation support
Adam Lyons (London, United Kingdom), Rebecca Walshe, Christina Timehin, Kay Roy

Comparative study of oxidative stress status in smokers versus non-smokers with tuberculosis
Letitia Trofor (Iasi (Iasi), Romania), Antigona Carmen Trofor, Ioana Buculei, Cristina Vicol, Mona Dobrin, Roberta Ionela Cernat, Oana Melinte, Daniela Robu Popa

Clinical features of drug addict patients hospitalized for pulmonary diseases
Khouloud Chaabi (Tunis, Tunisia), Emna Ben Jemia, Yosssr Aloulou, Nourchene Khalfallah, Yosssr Ben Attig, Jihen Ben Amar, Mohamed Sadok Boudaya, Haifa Zaibi, Hichem Aouina

Predictors of severity in patients with exacerbation of the chronic obstructive pulmonary disease
Hamida Kwas (Gabes, Tunisia), Sabrine Majdoub, Wafa Fekih

Correlation between blood carboxyhemoglobin levels and smoking
Cristina Sánchez Fernández (Oropesa, Spain), Walther Ivan Girón Matute, Ji Zichen, Gabriella Manzanares Cavin, Irene Milagros Dominguez Zabaleta, Cristhian Alonso Correa Gutiérrez, Virginia Parra León, Javier De Miguel Diez, Luis Puente Maestu

Attitudes and behavior of healthcare workers towards smoking: Hospital-based study in Tunisia
amina abdelkbir (ben arous, Tunisia), Yosr Ayedi, Chahida Harizi, Afef Skhiri, Nawel Dhaouadi, Radhouane Fakhfakh

Smoking among nursing staff in the regional hospital of AGADIR
Oussama HALLOUMI (AGADIR, Morocco), Houda Moubachir, Hind Serhane

Vaping and Hookah use among medical trainees
Luiza Helena Degani-Costa (São Paulo, Brazil), Fernando P Bruno, Fernanda Gushken, Claudia Szlejf, João Roberto Resende Fernandes, Yasmín F Tehrani, Daniel Kaufman, Ana B P Tokeshi, Kandipudi K L Prasad, Pentapati S S Kumar, Limalemla Jamir, Matthew G K Benesch, Morag G Ryan, Hardeep S Lotay, Jonathan P Fuld, Thiago M Fidalgo

Geography, gender and smoking in Europe
Luke J. Clancy (Dublin 8, Ireland), Joan Hanafin, Salome Sunday

Parental smoking reduction bundle in children’s medical-care utilisation, respiratory tract infection and spirometry results
Siyu Dai (Hong Kong, Hong Kong), Fanjing Meng

Late Breaking Abstract - Sex-related differences and FEV1 decline among COPD patients: the French Palomb cohort.
Nolwenn Jestin-Guyon (Bordeaux, France), El Hassane Ouatlahy, Alain Bernady, Emilie Berteaud, Julien Casteigt, Laurent Falque, Frédéric Le Guillou, Jean Moinard, Mathieu Molimard, Laurent Nguyen, Cécilia Noent, Annage Ozier, Mohammed Staali, Chantal Raherison-Semjen

Late Breaking Abstract - Establishment of an Alpha-1 research registry within the patient advocacy organization
Jeanine D’Armiento (New York, United States), Monica Goldklang, Alison Chin, J Michael Wells, Randel Plant, Laura Fonseca, Charlie Strange

TP-25 Session 13:00 - 14:00
Thematic poster: Practice changing pleural interventions and beyond in 2022
Disease(s) : Thoracic oncology Respiratory critical care Airway diseases
Method(s) : Endoscopy and interventional pulmonology Cell and molecular biology Physiology General respiratory patient care Surgery Respiratory intensive care Imaging Palliative care
Chairs: Mohammed Munavvar (Preston (Lancashire), United Kingdom), Rachel Mercer (Winchester, United Kingdom)

**Antiseptic pleural irrigation for adult pleural infection**
Maged Hassan (Alexandria, Egypt), Basma El-Shaarawy, Asmaa Elshazly, Mohamed Gadallah, Ahmed Sadaka

**A Randomized Trial Comparing the duration of the procedure using Rigid mini-Thoracoscopy and Semirigid Thoracoscopy in Undiagnosed or Malignant Pleural Effusion**
Pariyakorn Padmindra (Bangkok, Thailand), Vorawut Thanthitaweewat, Thitiwat Sriprasart

**Semi-rigid vs rigid pleuroscopy for the diagnosis for pleural effusion: a multi-centric study**
Maria João Silva (Torres Novas, Portugal), Diana Amorim, Fernando Silva, Rebeca Natal, Michele Santis, Paulo Matos, Lourdes Barradas, Luis Ferreira, Luis Rodrigues, Salvato Feijó

**Erector spinae plane (ESP) blocks and day case thoracoscopy**
Avinash Aujayeb (Newcastle, United Kingdom), Jamie Mcpherson, Edward Halvey

**Pleural pustule - A novel thoracoscopic appearance of pleural tuberculosis.**
Venkata Nagarjuna Maturu (Hyderabad (Andhra Pradesh), India), Pratibh Prasad, Mahendra Biradar

**Usefulness of pleural manometry during evacuating thoracentesis**
Claudia Rodriguez Busto (Madrid, Spain), Olga Rajas Naranjo, Ana Nuñez Ares, Javier Lazaro Sierra, Paola Arrieta Narvaez, Javier Flandes Aldeyturriaga, Beatriz Morales Chacon, Andrea Albuja Hidalgo, Gianna Vargas Centanaro, Eduardo Solis Garcia, Elena Forenc Vicente De Vera, Maria Jose Bernabe Barrios

**The impact of 2% lidocaine in pleural effusion pH and LDH - Real world experience**
Gabriela Sofia Cancela da Fonseca Ferreira Santos (Lisboa, Portugal), André B. Matos, João Portela, Ricardo Gomes, Marina Bonnet, Jorge Soares

**Tunneled pleural catheters - our experience with the first fifty patients**
Nicole Fernandes (vila nova de gaia, Portugal), Luis Lázaro Ferreira, Daniel Coutinho, Carla Ribeiro, Ana Oliveira

**Improving pleural procedure documentation in a district general hospital**
Frederick Jarvis (Halstead, United Kingdom), Catherine Doig, Zaw Aung, Dora Amran

**Pigtail catheters for pleural effusions: efficacy and safety**
Ana Rita Queiroz Rodrigues (Baiao, Portugal), Margarida Cruz, Ana Isabel Loureiro, Joelm Silva, Rafael Noya

**An update on the management of first episode primary spontaneous pneumothorax in an Australian hospital network.**
Christopher Chew (Melbourne, Australia), James Bartlett

**Retrospective analysis of chest drain size and complications in secondary spontaneous pneumothorax in a District General Hospital, UK.**
Thomas Moore (Buckinghamshire, United Kingdom), Martha Purcell, Ketan Patel, Katrine Steele

**Has COVID-19 affected complication rate of IPC placements?**
Dana Li (London, United Kingdom), Sarah Johnstone, Padmavathi Parthasarathy, Rajini Sudhir, Muhammad Tufail, Rakesh Panchal

**Does intravenous sedation improve patient comfort during the insertion of tunnelled indwelling pleural catheters a pilot prospective comparison study.**
Andrew Harries (Cardiff, United Kingdom), Gillian Warwick, Artemio Gonzales, Claire Tagg, Kathryn Turner, Michael Pynn, Alina Ionescu

**Compliance of Pleural Procedures with BTS Pleural Guidelines within a large District General Hospital**
Nafisa Hussain (Watford, United Kingdom), Alessio Navarra, Rahul Mogal

**THORACOSCOPIC PRACTICES IN INDIA- A SURVEY BY INDIAN CHEST SOCIETY**
Aditya Kumar Chawla (New Delhi (Delhi), India), Rakesh Chawla

**Mechanical ventilation for COVID19 – new patient cluster in risk for postintubation tracheal stenosis**
Goran Glodić (Zagreb, Croatia), Sonja Badovinac, Marta Koršić, Filip Popović, Denis Baričević, Dražena Srđić, Ana Baćelić Gabelica, Feda Džubur, Mateja Janković Makek, Bernard Budimir, Miroslav Samažija

**A retrospective cohort study to investigate the diagnostic yield of bronchoscopy with bronchoalveolar lavage in highly immuno compromised adult patients**
Rayid Abdulqawwi (Manchester. United Kingdom), Deemah AlAbdulhadi, Ahmad Aljishi, Ghadeer Alabbadi, Mohammad Hashim Khalafallah, Zainab Almus
**Late Breaking Abstract - Metered Cryospray improves patient-reported outcome measures at 6-months post-treatment, in patients with COPD with chronic bronchitis, in a randomised, sham-controlled trial**
Christopher M Orton (London, United Kingdom), James Tonkin, Ley Chan, Francesca Conway, Anand Tana, Bavithra Vijayakumar, Jorine E Hartman, Cielito Caneja, Laura Avanzi, Karin Klooster, John Thornton, Jan Lukas Robertus, Dirk-Jan Šlebos, Pankaj K Bhavsar, Pallav L Shah

**Late Breaking Abstract - Transbronchial biopsy by radial probe endobronchial ultrasound followed by cryobiopsy using a novel 1.1-mm diameter cryoprobe**
Jung Seop Eom (Busan, Republic of Korea), Soo Han Kim, Hyun Sung Chung
Targeting eosinophils in chronic eosinophilic pneumonia: new therapeutic perspectives for long-term control.
Cecilia Cisternino (San Giovanni Rotondo, Italy), Alessia Steffanina, Paola Scarano, Giulia Lo Muzio, Olimpia Calò, Arianna Sanna, Francesca De Filippis, Maria Teresa Leporini, Paolo Palange, Elda Graziani

Dupilumab improves exacerbations and lung function irrespective of prior asthma exacerbations: TRAVERSE
Alberto Papi (Cona, Ferrara, Italy), Mario Castro, William W Busse, David Langton, Stephanie Korn, Changming Xia, Xavier Soler, Nami Pandit-Abid, Shahid Siddiqui, Juby A Jacob-Nara, Paul J Rowe, Yamo Deniz

Assessment of inhaled medications using an in vitro human alveolar microphysiological system.
Emily Richardson, Hailey Sze, David Hughes, Tomasz Kostrzewski

Biomarker-defined clusters by level of Type 2 inflammatory involvement in severe asthma
William Henley (Exeter, United Kingdom), David Price, Sarah Burkill, Eileen Wang, Michael E. Wechsler, Eve Denton, Trung N. Tran, Neil Martin, Rohit Katial, Peter Barker, Jorge Maspero, Mark Hew, Guy Bruselle, George C Christoff, Mohsen Sadatsafavi, Carlos A. Torres-Duque, Celeste M. Porsbjerg, Charlotte Ulrik, Susanne Hansen, Alan Altraja, Arnaud Bourdin, Nikolaos G. Papadopoulos, Konstantinos Kostikas, Sundeep Mahboub, John Busby, Laim G Heaney, Paul E Pfeffer, Pujan Patel, Flavia Hoyte, Yang Liu, Celine Goh, Juntao Lyu, Thendral Uthaman

Dupilumab effectiveness in patients with type 2-high severe asthma and chronic rhinosinusitis with nasal polyps
Santi Nolasco (Catania, Italy), Raffaele Campisi, Antonino Cipolla, Pietro Impellizzeri, Martina Bonsignore, Nunzio Crimi, Claudia Crimi

Characteristics of Responders to Biologics in Patients with Severe Asthma: Based on Precision Medicine Intervention in Severe Asthma (PRISM) Study
Ji-Hyang Lee (Seoul, Republic of Korea), Hyunkyoung Kim, Jae-Woo Jung, Min-Hye Kim, Jeong-Hee Choi, Ji-Yong Moon, So Young Park, Soo-Hoon Kim, Min-Suk Yang, Byung-Keun Kim, Jae-Woo Kwon, Hye-Kyung Park, Chan Sun Park, Tae-hoon Lee, Sujeong Kim, Young-Hee Nam, Han-Ki Park, Byung-Jae Lee, Hyouk-Soo Kwon, Woo-Jung Song, Sei Won Lee, You Sook Cho, Tae-Bum Kim

Thematic poster: Basic science in pulmonary hypertension
Disease(s): Pulmonary vascular diseases, Airway diseases
Method(s): Cell and molecular biology, Physiology, Pulmonary function testing, Transplantation, Imaging, Epidemiology, Public health
Chairs: Christina Eichstaedt (Heidelberg, Germany), Grazyna Kwapiszewska-Marsh (Graz, Austria)

Research priorities for future pulmonary hypertension research: a James Lind Alliance priority setting partnership
Jason Weatherald (Edmonton, Canada), Hina Iqbal, Lisa Mielniczuk, Abdul Rehman Syed, Jennifer Howard, Nicole Dempsey, Tamara Rader, John Swiston, Steeve Provencher

Deep learning of regulatory regions discovers enhancer variants implicated in PAH
Tobias Tilly (Cambridge, United Kingdom), Kathryn Auckland, Reshma Nibhani, Jennifer Martin, N Nihr Bioresource - Rare Diseases, N National Cohort Study Of Idiopathic And Heritable Pah, Nicholas W. Morrell, Pietro Lio', Stefan Gräf

End-stage COPD patients with severe pulmonary hypertension have less airspace enlargement in histologic samples of explanted lungs
Katarina Zeder (Graz, Austria), Leigh M. Marsh, Alexander Avian, Luka Brcic, Anna Birnhuber, Philipp Douschan, Vasilie Foris, Teresa Sassmann, Panja Böhm, Konrad Hoetzenecker, Grazyna Kwapiszewska, Horst Olschewski, Gabor Kovacs

Optical imaging outperforms micro-CT towards revealing 3D microvasculature in whole lung tissue
Birger Tielemans (Leuven, Belgium), Fopke Marain, Felix De Bie, Montserrat Coll-Llado, Sebastian Munck, Jan Deprest, Jim Swoger, Greetje Vande Velde

Correlation between right ventricular dysfunction and plasma protein profile in pulmonary hypertension
Andrew Constantine (London, United Kingdom), Christopher J Rhodes, Piera Ricci, Wei Li, Laura C Price, Colm Mccabe, John Wharton, Martin R Wilkins, Luke S Howard, Konstantinos Dimopoulos, Stephen J Wort

Impulse oscillometry in the assessment of patients with idiopathic arterial hypertension: a pilot study.
Monica Corso Pereira (Campinas (SP), Brazil), Helena Villas Bôas, Ilma Paschoal

NTP42 alleviates experimental pulmonary arterial hypertension and promotes beneficial right ventricular adaptation, preserving right heart function
Eamon Mulvaney (Dublin 4, Ireland), Fabiana Renzo, Rui Adão, Glória Conceição, Emilie Dupre, Charles Laurent, Pedro Mendes-Ferreira, Carmen Brás-Silva, B. Therese Kinsella
**IL-11 increases levels and activates circulating fibrocytes in different pulmonary hypertension animal models.**
Ines Roger (Valencia, Spain), Javier Milara, Paula Montero, Nada Belhadj, Julio Cortijo

**IL-1 may contribute to NGF-induced alterations in pulmonary hypertension**
Clement BOUCHET (Pessac, France), Guillaume Cardouat, Precilia Fernandes, Paul Robillard, Roger Martian, Christelle Guibert, Veronique Michel

**Quantitative immunohistochemistry of PDGFRα, PDGFRβ, c-KIT and CSF1R in human PAH lung samples**
Ravikumar Sitapara (San Diego, United States), Aneta Gadjeva, Rubin Tudor, Lawrence Zisman

**Extended Pulmonary Retention and Tissue Distribution of Inhaled Liposomal Iloprost (L608)**
Pei Kan (Taipei, Taiwan), Ko-Jie Chen

**The microbiota affects the development of the lung vascular tree in rats**
FIRMIN AKOUMIA (Paris, France), Maria-Rosa Ghigna, Julie Cadiou, Amanda Lashermes, Julie Riviere, Stephanie Gouriou, Rosyne Lagrangeville, Geneviève Hery-Arnaud, Marc Humbert, Nicolas Lapaque, Sylvia Cohen-Kaminsky

**HS135: Novel Activin & GDF Ligand Trap for the Treatment of Pulmonary Hypertension (PH)**
Gauthier Schang (Montreal, Canada), Mathilde Poujol De Moliens, Jean-Francois Denis, Cristina Chauvet, Emilie Brûlé, Vann Ganesh, Julia Schoelermann, Gilles Tremblay, Ilia Tikhomirov, Maureen O'Connor-Mccourt

**Basement membrane regulates neointimal hyperplasia in pulmonary hypertension due to left heart disease (PH-LHD)**
Netra Nambiar Veetil (Berlin, Germany), Mariya Kucherenko, Tara Gransar, Robert Szulcek, Christoph Knosalla, Wolfgang M. Kuebler

**The ephrin-b2/EphB4 guidance system in pulmonary artery smooth muscle cells plays a central role in adult vascular remodeling**
Sonja Rittchen (Graz, Austria), Slaven Crnkovic, Katharina Jandl, Diana Zabini, Ayse Ceren Mutgan, Panja Boehm, Konrad Hoetzenecker, Wolfgang Toller, Christine Veith, Akos Heinemann, Ralph T. Schermuly, Andrea Olschewski, Leigh M Marsh, Grazyna Kwapiszewska

**Pulmonary arterial changes in patients with end-stage COPD and pulmonary hypertension: computed tomography and histopathological study of the lungs.**
Guillaume Martin (Strasbourg, France), Matthieu Canuet, Assam Labani, Antoine Wackenthaler, Irina Enache, Marie-Pierrette Chenard, Peter Dorfmueller, David Montani, Romain Kessler, Konrad Hoetzenecker, Wolfgang Toller, Akos Heinemann, Ralph T. Schermuly, Andrea Olschewski, Leigh M Marsh, Grazyna Kwapiszewska

**Hypoxia induces caspase-1-dependent pulmonary inflammation, introducing pulmonary epithelium in the development of pulmonary hypertension**
Camilla Udhus (Oslo, Norway), Bente Halvorsen, Xiang Yi Kong, Else Marit Løberg, Geir Christensen, Ole Henning Skjonsberg, Karl-Otto Larsen

**Towards a GCN2 deficient model of pulmonary veno-occlusive disease**
Max Schwieneing (Cambridge, United Kingdom), Stephen Moore, Alexi Crosby, Mark Southwood, Chris Huang, Nicholas W Morrell, Stefan J Marcielia, Elaine Soon

**Il-33 role in the pulmonary hypertension development in diabetic patients with coronary artery disease**
Boris Shelest (Kharkiv, Ukraine), Yuliia Kovalova, Anatoliy Voitovych

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**Thematic poster: Biomarkers and lung function in COPD exacerbation**

**Disease(s):** Airway diseases

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

**Chairs:** Bernardino Alcazar Navarrete (Cájar, Spain), Andrea Bianco (Napoli, Italy)

**How COPD patients with Gln27Glu polymorphism utilize exacerbation-related drugs?**
Kostiantyn Dmytriiev (Vinnitsya, Ukraine), Yuriy Mostovoy, Nataliia Slepchenko, Yuliia Smereka, Dmytro Dmytriiev

**Role of ADRB2 gene haplotypes in the clinical course of COPD**
Kostiantyn Dmytriiev (Vinnitsya, Ukraine), Nataliia Slepchenko, Yuriy Mostovoy, Yuliia Smereka, Dmytro Dmytriiev
Serum amyloid A (SAA) as a predictor of chronic obstructive pulmonary disease (COPD) exacerbations.
Daria Koval (Dnipropetrovsk, Ukraine)

Resistin identifies individuals with reduced lung function in a healthy aging cohort.
Ivette Buendia Roldán (Mexico D.F, Mexico), Andy Ruiz, Andrea Espinosa-Arellano, Iliana Herrera, Leslie Chavez-Galan, Moises Selman

Activity of platelet von Willebrand factor in stable patients with COPD in terms of cardiovascular risk.
Olenna Kovalenko (Dnipropetrovsk, Ukraine), Victoria Rodionova, Olha Boiko

Connection between markers of local and systemic inflammation in stable COPD.
Daria Koval (Dnipropetrovsk, Ukraine), Bohdana Basina, Nataliia Kravchenko, Tetiana Kirieieva, Yuliya Bershadenko

The prevalence of prolonged QTc and associated risks of starting macrolide treatment
Benjamin Allison (Salford, United Kingdom), Andras Bikov

Predictive value of caspase-8 in hypertension development in COPD patients
Volodymyr Tverezovskiy (Kharkiv, Ukraine), Valeriy Kapustnyk

The correlation between blood eosinophilia and clinical characteristics in chronic obstructive pulmonary disease patients
amal chennoufi (tunis, Tunisia), Chirine Moussa, Houda Rouis, Takwa Bejaoui, Ibtihel Khouaja, Marwa Bougacha, Syrine Neji, Sarra Zioueche, Amel Khattab, Leila Bayahi, Ines Zendah, Sonia Maalej

Preserved Ratio Impaired Spirometry (PRISM) and increased arterial stiffness (AS)
Otto Chris Burghuber (Wien, Austria), Marie Kathrin Breyer, Robab Breyer-Kohansal, Patricia Puchhammer, Alina Ofenheimer, Christoph Kaufmann, Thomas Weber, Sylvia Hartl

Role of the lower limit of normal in COPD diagnosis.
Elisa Martinez Besteiro (Madrid, Spain), Ana Sofia Martin Hernández, Marta Solis Garcia, Laura Garcia Castellanos, Mateo Hevia Menéndez, Jose Maria Eiros Bachiller, Celeste Marcos, Rosa Mar Gómez-Punter, Elena Avalos Pérez-Urria, Gorane Iturricastillo Gutiérrez, Julio Anocochea Bermúdez

Impulse oscillometry as a rule-out method for emphysema
Allan Klitgaard (Vejle, Denmark), Anders Løkke, Ole Hilberg

Association between thoracic muscle mass assessed by high-resolution computed tomography and static lung volume in patients with COPD - a pilot study
Mia Solholt Godthaab Brath (Vadum, Denmark), Esben Bolvig Mark, Jens Brøndum Frokjaer, Pernille Veiss-Pedersen, Lasse Riis Østergaard, Henrik Højgaard Rasmussen, Ulla Møller Weinreich

What are the best spirometric predictors of COPD progression?
Daria Koval (Dnipropetrovsk, Ukraine), Bohdana Basina, Tetiana Pertseva, Nataliia Kravchenko

Effect of an early multidisciplinary respiratory (MDT) in-reach review of Airways Disease exacerbations (ADE) in an acute general hospital on discharges and length of stay (LOS)
Paul Ellis (Solihull, United Kingdom), Alain Al Helou, Gajan Chellappah, Kayleigh Jones, Adel Mansur, Rahul Mukherjee

The language COPD patients use to describe exacerbations: a qualitative study
Michael Crooks (East Riding of Yorkshire, United Kingdom), Richard Russell, Helena Cummings, Kay Roy, Omar Usmani, Sarah Macfadyan, Judith Cohen, Tamzin Morris, Hana Mullerova, Yang Xu, Ann Hutchinson

Predicting 3-month respiratory readmission in a Scottish COPD cohort
Chris Carlin (Glasgow (Glasgow), United Kingdom), Shane Burns, Anna Taylor, Grace Cox, Paul Mcginness, David Lowe

Restrictive and obstructive lung patterns and postoperative pulmonary complications after cardiac surgeries: A prospective cohort study
Hasan Allah Sadeghi (Tehran, Islamic Republic of Iran), Mahsa Mirdamadi, Mahmood Sheikh Fathollahi, Sadeghi Sarina

Proadrenomedullin and copeptin are more sensitive and specific biomarkers for the prediction of mortality in stable COPD than fibrinogen: An analysis of the COSYCONET study
Sébastien Fähndrich (Freiburg, Germany), Sebastian Teuteberg, Christian Herr, Henrik Watz, Benjamin Waschki, Franziska C. Trudzinski, Albert Omlor, Peter After, Frederik Seiler, Frank Bieritz, Tobias Welte, Hans-Ulrich Kauczor, Rudolf A Jörres, Claus F. Vogelmeier, Robert Bals, Daiana Stolz

Comparison of predictive properties between tools of patient-reported outcomes: exacerbation and admission due to exacerbation in subjects with chronic obstructive pulmonary disease.
Koichi Nishimura (Kyoto, Japan), Mio Mori, Ryo Sanda, Masaaki Kusunose
### Thematic poster: Elucidating the pathogenesis of COPD, cough and viral infection

**Disease(s):** Airway diseases

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

**Chairs:** Antonio Spanevello (Milano, Italy), Melissa McDonnell (Oranmore (Co Galway), Ireland)

<table>
<thead>
<tr>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Differential responses of COPD macrophages to respiratory bacterial pathogens</td>
<td>Simon Lea (Manchester (Greater Manchester), United Kingdom), Augusta Beech, James Baker, Rosemary Gaskell, Dharmendra Pindolia, Aisha Baba Dikwa, Rajesh Shah, Dave Singh</td>
</tr>
<tr>
<td>Mast cell gene expression in eosinophilic COPD patients</td>
<td>Andrew Higham (Manchester (Greater Manchester), United Kingdom), Josiah Dungwa, Tuyet-Hang Pham, Christopher Mcrcae, Dave Singh</td>
</tr>
<tr>
<td>ADAM17 and CD62L in BAL fluid as a measure of leukocyte transmigration in COPD, asthma, and healthy individuals</td>
<td>Carin Larsson (Rydsgård, Sweden), Nicole Van Der Burg, Jaro Ankerst, Leif Bjærmer, Ellen Tufvesson</td>
</tr>
<tr>
<td>Three clinical phenotypes of COPD with each a characteristic immunological profile</td>
<td>Cathelijne van Zelst (Rotterdam, Netherlands), Johannes In 't Veen, Marjolein De Bruijn, Menno Van Nimwegen, Esmee Van Der Ploeg, Lisette Krabbendam, Denise Van Uden, Ralph Stadhouders, Rudi Hendriks, Gert-Jan Braunstahl</td>
</tr>
<tr>
<td>Soluble epoxide hydrolase inhibition alleviates inflammation in cigarette smoke-induced experimental COPD irrespective of dietary fat content</td>
<td>Saima Firdous Rehman (Annandale Sydney, Australia), Kurtis F Budden, Alessandro Quaranta, David Fuchs, Shakti D Shukla, Alexandra Brown, Charlotte Alemao, Lohis Balachandra, Henry Gomez, Vinod Kumar, Sobia Idrees, Jay Horvat, Lisa G Wood, Craig Wheelock, Philip M Hansbro</td>
</tr>
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<td>Tyndallized bacteria induce macrophage polarization toward M1 polarization: an effect useful to balance allergic immune responses</td>
<td>Elisabetta Pace (Palermo (PA), Italy), Serena Di Vincenzo, Simona Taverna, Maria Ferraro, Marco Buscetta, Chiara Cipollina, Stefania La Grutta</td>
</tr>
<tr>
<td>LSC - 2022 - Innate immunity plays an important role during NTHI and RV sequential infection.</td>
<td>Yuqing Long (Oxford, United Kingdom), Sophie Morgan, Paul Klenerman, Timothy Hinks</td>
</tr>
<tr>
<td>Capsaicin evoked cough responses and the effect of sex hormones</td>
<td>Ruth Cusack (Waterford, Ireland), X Ju, B.M Salter, K Howie, C Stevens, S Beaudin, J Wattie, J.A. Smith, P.M. O'Byrne, Imran Satia, R Sehmi, Gail Gauvreau</td>
</tr>
<tr>
<td>Late Breaking Abstract - Maternal high-fat diet increases airway sensory innervation and reflex bronchoconstriction in adult offspring</td>
<td>Zhening Nie (Portland, United States), Gina Calco, Yem Alharithi, Elyssie Phillips, David Jacoby, Allison Fryer, Alina Maloyan</td>
</tr>
<tr>
<td>Late Breaking Abstract - Enhanced early T cell activation and protection from hyper-inflammation in smoke exposed Cox4i2/- infected mice with influenza</td>
<td>Thilo Berger (Marburg, Germany), Claudia Fernanda Garcia Castro, Vidya Lakshmi, Sara Völkel, Natascha Sommer, Chrysanthi Skevaki</td>
</tr>
<tr>
<td>Late Breaking Abstract - FeNO in a healthy population: normal ranges and contributing factors</td>
<td>Christina Bal (Wien, Austria), Caspar Schiffer, Patricia Puchhammer, Ouat Sunanta, Marie-Kathrin Breyer, Wolfgang Pohl, Sylvia Hartl, Marco Idzko, Robab Breyer-Kohansal</td>
</tr>
<tr>
<td>Late Breaking Abstract - Assessment of sputum inflammatory, neural, and remodelling mediators in eosinophilic and non-eosinophilic asthma</td>
<td>Hajar Ali (wellington, New Zealand), Jeroen Douwes, Jeroen Burmanje, Prachee Gokhale, Julian Crane, Philip Pattemore, Yu-Chieh Tzeng, Thorsten Stanley, Jacqui Keenan, Collin Brooks</td>
</tr>
<tr>
<td>Late Breaking Abstract - White blood cells and asthma: a two-sample Mendelian Randomization Study</td>
<td>Vanesa Bellou (Ioannina, Greece), Athena Gogali, Konstantinos Kostikas, Evangelos Evangelou</td>
</tr>
<tr>
<td>Late Breaking Abstract - Oral microbiome associated with asthma and COPD in a multicenter study</td>
<td>Christine Drengenes (Bergen, Norway), Michael Abramson, Oskar Jögi, Caroline Lodge, Francisco Gomez Real, Randi Bertelsen</td>
</tr>
</tbody>
</table>
Disease(s) : Intersitial lung diseases, Airway diseases
Method(s) : Cell and molecular biology, Physiology, Imaging, Endoscopy and interventional pulmonology
Chairs : Nikhil Hirani (Edinburgh (Edinburgh), United Kingdom), Manuela Funke-Chambour (Bern, Switzerland)

Silencing MMP7 expression with a lung-targeted RNAi molecule limits fibrosis and preserves pulmonary function in bleomycin-injured rats
Tingting Yuan (VERONA, United States), Anthony Nicholas, Natalia Lakomski, Maria Afrazi, Holly Hamilton, Julia Hegge, James Hamilton, Tao Pei, Erik Bush

Fibroblast-like culture from bronchoalveolar lavage of patient with idiopathic pulmonary fibrosis
Laura Bergantini (siena, Italy), Sara Gangi, Elena Bargagli, Miriana D'Alessandro, Dalila Cavallaro, Paolo Cameli

Biomarker analysis of bronchoalveolar lavage (BAL), bronchoabsorption (BA) and serum in Idiopathic Pulmonary Fibrosis (IPF) and healthy volunteers (HV)
Nikhil Hirani (Edinburgh (Edinburgh), United Kingdom), Feng Li, Adam Marshall, Cecilia Boz, Sarah McNamara, Lisa Nicol, Williamson Bradford

Dysfunctional club cells differentiation in idiopathic pulmonary fibrosis
Bénédicte SAISSAC (Montpellier, France), Arnaud Bourdin, Aurélie Petit Aurélie

Mannose 6-phosphate/insulin-like growth factor 2 receptor in fibrosing phenotypes of diffuse parenchymal lung diseases
Eva Tedlova (Bratislava, Slovakia), Vladimir Leksaa, Magda Suchankova, Eszet Zsemlye, Jan Urban, Martina Ganovska, Elena Tibenska, Kinga Szabova, Frantisek Sandor, Marta Hajkova, Kristina Kluckova, Maria Bucova

Discovery of intra-parenchymal adipose tissue as a component of tissue remodeling in pulmonary fibrosis

Prolyl-3-hydroxylase 4 (P3H4), a novel player in collagen synthesis and secretion in lung fibroblasts
Ceylan Onursal (München, Germany), Larissa Knüppel, Caressa D. Lietman, Juliane Merl-Pham, Rudolf Hatz, Jürgen Behr, Kristian Unger, Julia Hess, Stefanie M. Hauck, Jürgen Behr, Kristian Unger, Julie Hess, Stefanie M. Hauck, Jürgen Behr, Kristian Unger, Julie Hess, Stefanie M. Hauck

Role of IL17 A/F in experimental lung fibrosis
Marie Moog (Hannover, Germany), Franziska Aschenbrenner, Danny Jonigk, Immo Prinz, Tobias Welte, Martin Kolb, Ulrich A. Maus

Role of CXCL13 in animal model of lung fibrosis and human ILDs.
Aya Watanbe (Japan), Hasegawa Koichi, Ashino Shigeru, Santosh Kumar Gothwal, Tomohiro Handa, Hiroshi Date, Toyohiro Hirai, Michael Haas, Fionnuala McInerney Eser, Ken Fujimura, Justus Veerkamp, Hana Cernecka, Markus Koch, Ulrich Nielsch, Atsuyasu Sato

Idiopathic pulmonary fibrosis is associated with increased levels of FACIT collagen biomarkers
Jannie M. B. Sand (Herlev, Denmark), Annika Hummersgaard Hansen, Emilie A. Madsen, Jeppe Thorlacius-Ussing, Thomas S. Prior, Morten A. Karsdal, Diana J. Leeming, Elisabeth Bendstrup

Inhibitory role of retinoic acid-related orphan receptor alpha ROAR in human lung fibroblast activation.
Eliza Tsitoura (Heraklion (Crete), Greece), Dimitra Maria Zevla, Bruno Crestani, Katerina Antoniou

Increased expression of -1,4-Galactosyltransferase-I in Idiopathic Pulmonary Fibrosis, a basis for further therapeutic applications
Alberto Ricci (Roma (RM), Italy), Claudia De Vitis, Dario Pizzirruso, Giulio Guerrieri, Silvia Castelli, Antonella Carruturo, Alba Moretta, Claudia Salvucci, Maria Chianese, Tiria Sordi, Rita Mancini, Michela D'Ascanio

PERIPHERAL BLOOD IMMUNOLOGICAL PROFILE OF IDIOPATHIC PULMONARY FIBROSIS
Nuria Mendoza Barco (Premià de Dalt (CT), Spain), Sandra Casas-Recasens, Fernanda Hernandez, Tamara Cruz, Núria Albacar, Gemma López-Saiz, Xavier Alzina, Álvar Agusti, Jacobo Sellarel’s, Rosa Faner

Proteomic profiling for the development of new serum based diagnostic and prognostic biomarkers in Progressive Pulmonary Fibrosis.
Ermanno Puxeddu (Roma (RM), Italy), Giuseppe Cillis, Luigi Gualtiero, Francesco Cavalli, Gianluigi Sergiacomi, Immacolata Rossi, Paola Rogliani

Expression of PD-1/PD-L1 axis and CD4/CD8 ratio in mediastinal lymph nodes of human and experimental lung fibrosis
Theodoros Karampitsakos (Patras, Greece), Apostolos Galaris, Serafeim Chrysikos, Ourania Papaioannou, Ioannis Vamvakaris, Aris Anagnostopoulos, Grigoris Stratakos, Matthais Katsaras, Fotios Sampsonas, Katerina Dimakou, Effrosyni Manali, Spyridon Papiris, Demosthenes Bouros, Petros Bakakos, Vassilis Aidinis, Argyris Tzouvelekis
Bleomycin-induced Pulmonary fibrosis alters the functioning of the respiratory neural network
nicolas voituron (Bobigny, France), Céline-Hivda Yegen, Dominique Marchant, Emilie Boncoeur

Profibrotic effects analysis of bleomycin administration in Swiss CD-1 nude mice
Kristiyan Stiliyanov Atanasov (Palma de Mallorca, Spain), Joan Truyols Vives, Gabriel Escarrer, Cristina Gómez, Teresa De Francisco, Aina Martin Medina, Carlos Rio, Ernest Sala-Llinàs, Josep Mercader-Barceló

Effects of a palmitate and fructose rich diet on lung fibrosis and inflammation markers in a murine model
Kristiyan Stiliyanov Atanasov (Palma de Mallorca, Spain), Cristina Gómez, Joan Truyols Vives, Aina Martin-Medina, Gabriel Escarrer, Ernest Sala-Llinàs, Josep Mercader-Barceló

Uncovering collagen VII in lungs of patients with idiopathic pulmonary fibrosis
Arturo Ibáñez Fonseca (Lund, Sweden), Barbora Michaliková, Liang Xiong, Hans Brunnström, Arturo Ibáñez-Fonseca, Sofia Lundin, Göran Dellgren, Anna Löfdahl, Linda Elowsson Rendin, Gunilla Westergren-Thorsson

Thematic poster: Late Breaking Abstracts in Airway disease

Late Breaking Abstract - Safety of ascending single and multiple doses of inhaled SIS, an isotonic aqueous solution of sodium hypochlorite, in healthy subjects
Christopher Burton (Kgs Lyngby, Denmark), Torben Balchen, Lise Wilki-Kurtzhals, Niclas Sjögren, Thomas Bjarsholt, Elin Jørgensen, David Peick Sonne

Late Breaking Abstract - ETD001: A long-acting inhaled ENaC blocker, is well tolerated in humans
Paul Russell (Chalfont St Peter, United Kingdom), Kathy Woodward, Joanne Charlwood, Rachael White, Denis Wilkes, Henry Danahay, David Morris

Late Breaking Abstract - Metformin: A potential drug candidate to restore poor corticosteroid sensitivity in obese asthmatic patients
Masako To (Saitama, Japan), Natsue Honda, Kosuke Haruki, Yasuo To

Late Breaking Abstract - Waning of biologic effect at end of dosing interval perceived by patients with severe asthma
Johannes A Kroes (Leeuwarden, Netherlands), Lotte H G Van Hal, Liset Van Dijk, Sander W Zielhuis, Eric N Van Roon, Anneke Ten Brinke

Late Breaking Abstract - Impact of erdosteine on exacerbations in moderate COPD
Peter M. A. Calverley (Liverpool (Merseyside), United Kingdom), Alberto Papi, Clive Page, Paolo Rogliani, Roberto Dal Negro, Mario Cazzola, Arrigo Cicero, Wisia Wedzicha

Late Breaking Abstract - Understanding how azithromycin reduces asthma exacerbations and the underlying mechanisms of macrolides
Lisa Jurak (Woolloongabba, Australia), Ian Yang, Michelle Hill, Jodie Simpson, John Upham

Late Breaking Abstract - Achievement rate and predictive factors of the deep remission to biologics in severe asthma.
Keiji Oishi (Ube, Japan), Kazuki Hamada, Yoriyuki Murata, Yoshikazu Yamaji, Maki Asami, Nobutaka Edakuni, Tsunahiko Hirano, Kazuto Matsunaga

Late Breaking Abstract - Identification and characterisation of selective antagonists for TMEM16A(acd) isoform for the treatment of obstructive respiratory diseases.
pierre philippe saintot (verona, Italy), Corrado Carignani, Jonathan Phillips, Caterina Virginio

Late Breaking Abstract - A phase 3b, randomized controlled trial of gefapixant in recent-onset chronic cough
Lorcan McGarvey (Belfast, Ireland), Mandel Sher, Yuri Grigorievich Shvarts, Susan Lu, Wen-Chi Wu, Png Xu, Jonathan Schelthou, Carmen La Rosa, Allison Martin Nguyen, Paul Reyfman, Anna Sadaf Alzal

Late Breaking Abstract - Effects of anti-tryptase antibody in upper and lower airway of asthmatics
Lindsay Henderson (South San Francisco, United States), Kit Wong, Victor Poon, Gizette Sperinde, Rebecca Bauer, Kenta Yoshida, Chen Chen, Qi Liu, Yiling Chen, Keyi Long, Praja Banerjee, Steven Laing, Nick Jones, Horace Rhee, Brian Leaker, Dave Singh, Peter Bradding

Late Breaking Abstract - The antiasthmatic activity of Rho-kinase inhibitor hydroxyfasudil in the settings of experimentally induced allergic airway inflammation
Sona Franova (Martin, Slovakia), Miroslava Molitorisova, Lenka Kalmanova, Jarmila Palencarova, Martina Sutovska
Late Breaking Abstract - Implications of treatable traits and treatment choices on exacerbation risk in moderate-severe asthma
Ayşe Arzu Yorgancıoğlu (Konak, Turkey), Ian Pavord, Guy Brusselle, Paolo Pitrez, Sean Oosterholt, Abhijith Pg, Oscar Delia Pasqua

Late Breaking Abstract - International, prospective study of mepolizumab in severe asthma: REALITI-A at 2yrs
Cristiano Caruso (Rome, Italy), Giorgio W. Canonica, Manish Patel, Andrew Smith, Mark C. Liu, Rafael Alfonso-Cristancho, Robert G. Price, Rupert W. Jakes, Lydia Demetriou, Antonio Valero, Charles Pilette, Peter Howarth

Late Breaking Abstract - Asthma exacerbation rate reduction with benralizumab in an integrated analysis of the real-world XALOC-1 study
David J Jackson (London, United Kingdom), Girolamo Pelaia, Alicia Padilla-Galo, Michael Watt, Sheena Kayaniyil, Silvia Boarino, Jesús Sánchez Tena, Vivian H. Shih, Trung N. Tran, Douglas Arbetter, David Cohen, Rohit Katal, Justin Kwiatek, Anat Shavit, Benjamin Emmanuel, Parameswaran Nair

Late Breaking Abstract - KCa3.1 inhibition possesses complex anti-asthmatic effect in a guinea pig model of chronic asthma.
Martina Šutovská (Martin, Slovakia), Jozef Mažerik, Soňa Fraňová

Late Breaking Abstract - Early response and remission with benralizumab in patients with severe asthma and chronic rhinosinusitis with nasal polyposis (CRSwNP) in the prospective real-world ImPROve Asthma study
Stephanie Korn (Mainz, Germany), Henrik Watz, Benjamin Emmanuel, Tanja Plate, Matthias Saathoff, Anat Shavit, Thorsten Grund, Marek Lommatzsch

Late Breaking Abstract - Gender differences in gene polymorphisms are linked to up-regulated leukotriene pathway in asthma
Charlotte Bernhoff (Copenhagen, Denmark), Andreas Elleby Jespersen, Nanna Dyhre-Petersen, Ditte K Klein, Kamilla W Miskowiak, Celeste M Porsbjerg

13:00-14:00
INDUSTRY LUNCHTIME SYMPOSIUM
SEE PAGE 1

14:00-14:45
INDUSTRY SKILLS LAB WORKSHOP
SEE PAGE 1

8B (live-streamed) Session 14:15 - 15:45
Symposium: Asthma: confusion in diagnosis, recognising comorbidities and understanding pathophysiological connections

Aims: to inform clinicians and researchers about the latest updates in significant asthma comorbidities and pathologies that mimic asthma and contribute to difficulties with diagnosis and treatment; to describe in particular conditions that mimic asthma, such as vocal cord dysfunction and dysfunctional breathing, and significant comorbidities, such as chronic rhinosinusitis, vasculitis and eosinophilic granulomatosis with polyangiitis (EGPA); to assess the importance of small airways in asthma.

Disease(s): Airway diseases Interstitial lung diseases

Method(s): Cell and molecular biology Epidemiology Public health

Tag(s): Translational

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

Chairs: Katerina Antoniou (Heraklion, Greece), Apostolos Bossios (Stockholm, Sweden)

14:15 Vocal cord dysfunction and dysfunctional breathing: the underlying secrets
Stephen James Fowler (Preston (Lancashire), United Kingdom)
### 8G (live-streamed) Session 14:15 - 15:45
**Hot topics: Occupational COVID-19: current and future impact**

- **Aims**: To present the latest evidence on the occupational risk factors for COVID-19 in support of a global recognition and compensation of COVID-19 and long COVID-19 as new occupational diseases; to present an international overview of the most adversely impacted and best studied occupational groups, in particular healthcare workers (HCWs); to discuss how occupational health services could be a privileged observatory to study and manage the COVID-19 pandemic because of their key role in implementing preventive measures, especially vaccination programmes, administrative and engineering controls, personal protective equipment and health surveillance and management of COVID-19 cases, including testing, contact tracing and return to work of long COVID-19 cases; to seek to identify research needs in relation to risk for occupational groups other than HCWs, especially among the most vulnerable social categories, such as migrants, to estimate the true occupational health burden of COVID-19, thereby providing effective and efficient governmental mitigation policies to prevent the associated public health burden and increase preparedness for future pandemics.

- **Disease(s)**: Interstitial lung diseases, Respiratory infections
- **Method(s)**: Epidemiology, General respiratory patient care, Public health
- **Tag(s)**: COVID
- **Target audience**: Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Medical Technical Assistant, Nurse, Respiratory critical care physician, Patient, Physician in Pulmonary Training, Physiologist, Respiratory physiotherapist, Scientist (basic, translational), Respiratory therapist, Journalist

#### Chairs
- Sara De Matteis (Cagliari, Italy), Rafael E. de la Hoz (New York, United States)

#### Schedule
- **14:15** Epidemiology of occupational COVID-19
  - Kurt Straif (Ste. Foy-les-Lyon, France)
- **14:30** Long COVID-19: an epidemiologist, clinician and patient perspective
  - Eva Polverino (Barcelona, Spain)
- **14:45** Fast-tracking the development of vaccines during a pandemic: what have we learnt?
  - Laura Fregonese (London, United Kingdom)
- **15:00** COVID-19 and returning to work: an international online survey
  - Pippa Powell (Sheffield (South Yorkshire), United Kingdom)
- **15:15** Discussion and Q&A
AI in pleural malignancies
Kevin Blyth (Glasgow (Glasgow), United Kingdom)

AI in lung cancer: potential implications for patient care
Laurent Derecle (New York, United States)

Discussion and Q&A

8N Session 14:15 - 15:30
Oral presentation: Long COVID and rehabilitation

Disease(s) : Airway diseases Sleep and breathing disorders Interstitial lung diseases Thoracic oncology
Method(s) : Cell and molecular biology General respiratory patient care Physiology Pulmonary function testing Pulmonary rehabilitation Epidemiology Surgery Imaging
Chairs : Anne Holland (Fitzroy North (VIC), Australia), Carla Simonelli (Lumezzane (BS), Italy)

Predictive factors for centralized rehabilitation in hospitalized COVID-19 patients
Antoine EL KIK (Beirut, Lebanon), Hind Eid, Albert Riachy, Elio Mekhail, Karim Hoyek, Nabil Nassim, Georges Khayat, Ghassan Silelaty, Moussa Riachy

Tolerability and safety of high-intensity continuous and intermittent exercise in COVID-19
Gundi Steinhilber (Bergamo (BG), Italy), Ioannis Vogiatzis, Beatrice Salvi, Laura Bertacchini, Irene Favero, Massimo Venturelli, Mara Paneroni, Michele Vitacca

Severity score-based study of predictors and clinical correlates of Post-COVID Syndrome (PCS) in Germany
Thomas Bahmer (Kiel, Germany), Christoph Borzikowsky, Wolfgang Lieb, Anna Horn, Lilian Krist, Julia Fricke, Carmen Scheibenbogen, Klaus F. Rabe, Walter Maetzler, Corina Maetzler, Martin Laudien, Derk Frank, Sabrina Ballhausen, Alin Viebke, Anne Hermes, Olga Muljukov, Karl Georg Haesler, Nour Eddine El Mokhtari, Martin Witzenthur, Thomas Zoller, Jörg Janne Vehreschild, Sina Hopff, Gabriele Anton, Dagmar Krefting, Lenart Reinke, Grit Hein, Felipe A. Montellano, Mirjam Kohls, Caroline Morbach, Stefan Stöhr, Jens-Peter Reese, Thomas Keil, Peter Heuschmann, Michael Krawczak, Stefan Schreiber

The Relationship Between Functional Status and Fatigue After COVID-19 Infection

Aerobic Training Reduces Chronic Airway Inflammation and Mediators of Remodelingin Asthma
Rodolfo De Paula Vieira (Sao Jose Dos Campos (SP), Brazil), Renilson Moraes-Ferreira, Maysa A. R. Brandao-Rangel, Anamé Silva-Reis, Victor H. S. Palmeira, Helida C. Aquino-Santos, Claudio R. Frison

Effectiveness of a long-term home-based exercise training in COPD patients: The HOMEX-2 RCT
Anja Frei (Zürich, Switzerland), Thomas Radtke, Kaba Dalla Lana, Ramona Kunz, Tamara Cerini, Milo A. Puhan

Predictors of disability in activities of daily living in people with advanced respiratory disease
Lucy Fettes (London, United Kingdom), Joanne Bayly, Emeka Chukwusa, Stephen Ashford, Irene Higginson, Matthew Maddocks

Single breath counting as a respiratory muscle function assessment test
Selin Ercan (Izmir, Turkey), Christopher David Turnbull, Kathryn Bowyer, Megan Haines, John R Stradling, Annabel H Nickol

Actionable factors fostering scalability of prehabilitation
Raquel Sebio Garcia (Barcelona, Spain), Raquel Risco, Rubén González-Colom, Mar Montané-Muntané, Isaac Cano, Emili Vela, Fernando Dana, Joan Faner, Miquel Coca, Sara Laxe, Josep Roca, Graciela Martinez-Palli

Late Breaking Abstract - Muscle volume, functionality and metabolic resilience during recovery following severe COVID-19
Ayushman Gupta (Boston (Lincolnshire), United Kingdom), Rosemary Nicholas, Jordan Megining, Aline Nixon, Joanne Mallinson, Sebastian Serres, James Bonnington, Tricia Mckeever, Tricia Mckeever, Ian Hall, Janet Lord, Janet Lord, Rachael Evans, Rachael Evans, Paul Greenhaff, Susan Francis, Charlotte Bolton

Discussion
**Sleep apnea syndrome and atherosclerosis: VE-Cadherin as a new antiatherogenic target?**
Olfa Harki (LA TRONCHE, France), Sophie Bouyon, Emeline Lemarié, Alexandra Demory, Carole Chirica, Isabelle Viglair, Jean-Louis Pépin, Gilles Faury, Anne Briançon-Marjollet

**Proteomic profiling in patients with acute coronary syndrome and obstructive sleep apnea: A post-hoc analysis from the ISAACC study.**
Andrea Zapater Matute (Lleida, Spain), Esther Gracia-Lavedan, Gerard Torres, Alicia Sánchez-De-La-Torre, Albina Aldoma, Olga Minguez, Lydia Pascual, Anunciación Cortijo, Dolores Martínez, Ivan David Benítez, Ferran Barbé, Manuel Sánchez-De-La-Torre

**The effect of the GLP-1 analogue Liraglutide on intermittent hypoxia-induced systemic insulin resistance in vivo**
Ailbhe King (Dublin 4, Ireland), Claire Arnaud, Guillaume Vial, Emma Billoir, Bilgehan Ozcan, Elise Belaidi, Cliona O'Donnell, Silke Ryan

**Short-term continuous positive air pressure (CPAP) treatment: effects on cardiac structural changes and function in patients with obstructive sleep apnea (OSA)**
Laima Kondrataviciene (Kaunas, Lithuania), Egle Tamulenaite, Egle Ereminiene, Skaidrius Miliauskas

**Long non-coding RNA FKSG29 over-expression in patients with obstructive sleep apnea modulates intermittent hypoxia-induced oxidative stress and cell apoptosis via sponging miR-23a-3p-IL6R signaling**
Yung-Che Chen (Kaohsiung, Taiwan), Meng-Chih Lin, Po-Yuan Hsu, Chang-Chun Hsiao, Ting-Ya Wang

**Autophagy impairment in patients with obstructive sleep apnea mediates intermittent hypoxia-induced apoptosis and cytotoxicity via hypermethylation of the MAP1LC3B and ATG5 promoter regions**
Yung-Che Chen (Kaohsiung, Taiwan), Meng-Chih Lin, Po-Yuan Hsu, Chang-Chun Hsiao, Ting-Ya Wang

**DYSLIPIDEMIA PREVALENCE IN NON-OBESE NON-DIABETIC PATIENTS WITH OBSTRUCTIVE SLEEP APNEA: DOES SEX MATTER?**
Mehmet Sezai Taşbakan (Izmir, Turkey), Ozen K. Basoglu, Merak Kayikcioglu

**Late Breaking Abstract - Inflammasome activation: A keystone of proinflammatory response in obstructive sleep apnea**
Fundación investig, Biomédica G83727057 (Madrid, Spain), Sara García, Enrique Alfaro, Ana Juareguizar, Raquel Casitas, Begoña Sanchez, Esté Zamarro, Juan Fernández, Francisco García, carolina cubillos

**Discussion**
Annual and post-exacerbation follow-up of COPD patients in clinical practice – a large population-based study in Sweden
Christer Janson (Uppsala, Sweden), Hanna Sandelowsky, Fredrik Wiklund, Gunilla Telg, Sofie De Fine Licht, Björn Ställberg

Rate of admission and readmission to the emergency department (ED) associated with physician visits among patients with asthma
Irvin Mayers (Edmonton (AB), Canada), Stephen Noorduyn, Arsh Randhawa, Mena Soliman, Manisha Talukdar, Christina Qian, Karissa Johnston, Pramod Jayasinghe, Mohit Bhutani

Incidence of physical frailty in older subjects with lung function impairment and frailty transitions: a population-based study.
Lies Lahousse (Ghent, Belgium), Sara Wijnant, Elizabeth Benz, Annemarie Luik, Fernando Rivadenciera, Trudy Voortman, Guy Brussels

IMPlementing IMProved Asthma self-management as RouTine (IMP2ART) in primary care: internal pilot for a cluster randomised controlled trial
Kirstie McClatchey (Edinburgh, United Kingdom), Jessica Sheringham, Atena Barat, Brigitte Delaney, Barbara Searle, Viv Marsh, Vicky Hammersley, Stephanie Taylor, Hilary Pinnock

Pulmonary rehabilitation using peer volunteers in a rural Indian setting: A feasibility study
BISWAJIT PAUL (Vellore, India), Paul Jebraj, Rita Isaac, Deepa Das, John Norrie, David Weller

Covid Virtual Ward: Are we effectively managing patients in the community following hospitalisation from Acute COVID infection?
Sarah Sibley (Altrincham (Cheshire), United Kingdom), Emma Rickards, Dennis Wat

Discussion

8A (live-streamed) Session 14:15 - 15:45
Clinical cases: Imaging clinical cases
Challenges in imaging of emphysema and interstitial lung diseases

Aims: to provide a case-based session, with a special focus on imaging, that explains the role of imaging of emphysema in a preoperative setting and evaluation before endobronchial valve implantation or LVRS, with a special focus on available imaging software, the role of the new imaging technique photon counting CT in comparison with HRCT for ILD imaging and how to identify the most common ILD patterns on HRCT. A clinician and a radiologist will evaluate the cases, and there will be interactive involvement of the audience.

Disease(s): Airway diseases, Interstitial lung diseases, Sleep and breathing disorders
Method(s): Endoscopy and interventional pulmonology, General respiratory patient care, Imaging
Tag(s): Clinical
Target audience: Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Respiratory critical care physician, Paediatrician, Pathologist, Physician in Pulmonary Training, Physiologist, Radiologist, Respiratory physiotherapist, Scientist (basic, translational), Thoracic surgeon, Respiratory therapist
Chairs: Walter De Wever (Leuven, Belgium), Elbieta Magdalena Grabczak (Warszawa, Poland), Daniela Gompelmann (Vienna, Austria)

14:15 Patients with lung emphysema: endobronchial valves or surgery?
Stephanie Everaerts (Leuven, Belgium)

14:30 Patients with lung emphysema: radiological preoperative setting
Walter De Wever (Leuven, Belgium)

14:45 Discussion and Q&A

15:00 Patients with ILDs: prognostic markers of disease progression
Veronika Müller (Budapest, Hungary)

15:15 Patients with ILDs: radiological signs and artificial intelligence possibilities
Helmut Prosch (Wien, Austria)

15:30 Discussion and Q&A

8C (live-streamed) Session 14:15 - 15:45
State of the art session: Respiratory critical care
**Aims:** to discuss the key characteristics of the different acute respiratory disease syndrome phenotypes and how these affect clinical management; to discuss the pathophysiology of lung injury induced by high respiratory effort and how clinical management can reduce the risk of lung injury caused by high patient effort; to discuss the principles of novel techniques for respiratory monitoring and how their clinical application can improve outcomes; to discuss the role of different techniques for noninvasive respiratory support in patients with acute hypoxemic failure.

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

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

**Tag(s):** Clinical

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

**Chairs:** Maxime Patout (Paris, France), Maria Bonsignore (Palermo, Italy), João Carlos Winck (Vila Nova de Gaia, Portugal)

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<thead>
<tr>
<th>14:15</th>
<th>Phenotyping in acute respiratory distress syndrome: clinical implications</th>
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<td>Carolyn Calfee (San Francisco, United States)</td>
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<th>14:30</th>
<th>Patient self-inflicted lung injury: clinical implications</th>
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<td>Laurent Brochard (Toronto (ON), Canada)</td>
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<th>14:45</th>
<th>Advanced respiratory monitoring in acute respiratory failure: clinical implications</th>
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<td>Lise Piquilloud (Lausanne, Switzerland)</td>
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<th>High-flow nasal oxygen or noninvasive ventilation for patients with acute hypoxemic failure</th>
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<td>Stefano Nava (Bologna (BO), Italy)</td>
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## Studio Session 14:15 - 15:15

**Online skills lab: Right heart catheterisation**

**Aims:** To learn the principles of a safe right heart catheterisation. To learn how to obtain the correct pressure wave recordings and obtaining the correct references. To learn to interpret the right heart catheterisation in a correct way. To learn the principles of NO testing and performing an exercise test.

**Chairs:** Mona Lichtblau (Zürich, Switzerland), Gabor Kovacs (Graz, Austria), Olivier Sitbon (Le Kremlin-Bicêtre, France)

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<tr>
<th>14:15</th>
<th>Right heart catheterisation procedure from the Amsterdam lab: jugular approach</th>
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<td>Mona Lichtblau (Zürich, Switzerland), Gabor Kovacs (Graz, Austria)</td>
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## 8F Session 14:15 - 15:30

**Mini symposium: Long-term impact of cystic fibrosis transmembrane conductance regulator modulators in cystic fibrosis patients and potential changes in the management of the disease in CF units**

**Long-term effects of CFTR modulators in cystic fibrosis**

**Aims:** To review the expected changes associated with the introduction of cystic fibrosis transmembrane conductance regulator (CFTR) modulators in the management of CF patients; to particularly review how the clinical management of paediatric and adult CF patients could change in the future considering the potential benefits of these drugs on disease progression, but also in consideration of potential side effects; to discuss the perspective of early treatment in CF children and the applications of CFTR modulators in special subgroups of CF patients, such as nonresponders and those with rare mutations; to provide a session that is intentionally translational and directed at different specialists and disciplines involved in the management of CF patients.

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

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

**Tag(s):** Translational

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

**Chairs:** Catherine Greene (Dublin 9, Ireland), Refika Hamutcu Ersu (Ottawa, Canada)

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<th>14:15</th>
<th>How CFTR modulators are expected to change the management of CF and its comorbidities</th>
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<td>Stuart Elborn (Belfast (Belfast), United Kingdom)</td>
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### 8D Session 14:30 - 16:50

**Skills workshop: SW9 Thoracic ultrasound**

**Aims:** To describe the current use of thoracic ultrasound and to provide participants with the opportunity to perform this technique using training models, simulators, volunteers and patients.

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

**Tag(s):** Clinical

**Chairs:** Konstantina Kontogianni (Heidelberg, Germany)

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<th>Time</th>
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<tr>
<td>14:30</td>
<td>The normal thoracic cavity</td>
<td>Valentina Pinelli (Sarzana, Italy), Beenish Iqbal (London, United Kingdom)</td>
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<td>15:00</td>
<td>Pleural effusion and/or pleural thickening</td>
<td>Gilles Mangiapan (Creteil, France), Giovanni Volpicelli (Torino (TO), Italy)</td>
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<td>15:30</td>
<td>Case studies</td>
<td>Hugh Welch (Bristol, United Kingdom), John Wrightson (Oxford, United Kingdom)</td>
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<td>16:00</td>
<td>Lymph node biopsy using models</td>
<td>Rachid Tazi Mezalek (Barcelona, Spain), Rachel Mercer (Winchester, United Kingdom)</td>
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### Studio Session 15:30 - 16:30

**Language session: French programme 2022**

**Aims:** Le texte sera adressé ultérieurement

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

**Tag(s):** COVID

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, Respiratory critical care physician, Radiologist

**Chairs:** Marc Humbert (Le Kremlin-Bicêtre, France), Marion Delcroix (Leuven, Belgium), Jesus Gonzalez Bermejo (Montlignon, France)

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<tr>
<td>15:30</td>
<td>Recommandations pour la prise en charge de l'asthme : GINA 2021 versus SPLF 2021</td>
<td>Chantal Raherison-Semjen (Pointe-à-Pitre, Guadeloupe)</td>
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<td>15:40</td>
<td>Que retenir des recommandations internationales sur les pneumopathies d’hypersensibilité ? / International recommendations on hypersensitivity pneumonitis</td>
<td>Vincent Cottin (Lyon, France)</td>
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<td>15:50</td>
<td>Discussion and Q&amp;A</td>
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<td>16:00</td>
<td>Embolie pulmonaire et exacerbation de BPCO / Pulmonary embolism and exacerbation of COPD</td>
<td>Francis Couturaud (Brest, France)</td>
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<td>16:10</td>
<td>Actualités Covid-19 / The latest on COVID-19</td>
<td>Claire Andrejak (Amiens, France)</td>
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<td>16:20</td>
<td>Discussion and Q&amp;A</td>
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### 8L Session 15:45 - 17:00

**Oral presentation: Nursing aspects in asthma and COPD: self-management and pulmonary rehabilitation**

**Disease(s):** Airway diseases

**Method(s):** Cell and molecular biology, Pulmonary rehabilitation, Respiratory intensive care, General respiratory patient care, Public health
Comparing results of the Asthma Control Test and Severe Asthma Quality of life Questionnaire in patients with severe asthma on biologics
Mariana Rezelj (Stahovica, Slovenia), Jana Tršan, Irena Počvavšek, Tina Morgan, Peter Kopač, Sabina Škrgat

Impact on the quality of life of patients with COPD after three non-pharmacological interventions.
Sabina Miranda Valladares (La Laguna, Spain), Belen Gonzalez Sanchez, Marta Entrambasaguas Martin, Francisca Bernal Prados, Marta Perez Redondo, Maria Jesus Prunera Pardell, Adolfo Domenech Del Rio

Patients’ experience of automated oxygen administration during hospitalization with acute exacerbation in COPD - a qualitative study.
Charlotte Sandau Bech (Hvidovre, Denmark), Ingrid Poulsen, Vibeke Nørholm, Dorthe Gaby Bove

The impact on number of hospitalizations and length of hospital stay for patients with advanced COPD affiliated with a cross-sectorial lung team.
Birgit Refsgaard Iversen (Århus N, Denmark), Lotte Rodkjær, Vibeke Bregnballe, Anders Løkke

Pain perception in COPD patients across the COVID-19 pandemic
Maria Granados Santiago (Alcaudete, Spain), Jesús González Dueñas, Andrés Calvache Mateo, Ángela Benítez Feliponi, Alejandro Heredia Ciuró, Marie Carmen Valenza

Pulmonary rehabilitation maintenance programmes: What makes the difference?
Liliana Silva (Matosinhos, Portugal), Tiago Maricoto, Patrício Costa, Joana Berger, Miguel Padilha

The effect of early pulmonary rehabilitation on the treatment of ICU chronic obstructive pulmonary disease with severe respiratory failure
Fangbo Zhao (Changchun (Jilin), China)

Pulmonary telerehabilitation in the COVID era - pilot program
Sérgio Filipe Alves Vaz (Vila Real, Portugal), Ana Isabel Loureiro, Rita Queiros Rodrigues, Miguel Padilha

Lockdown impact in patients with severe and very severe COPD
Sabina Miranda Valladares (La Laguna, Spain), Marta Entrambasaguas Martin, Belen Gonzalez Sanchez, Marta Perez Redondo, Francisca Bernal Prados, Maria Jesus Prunera Pardell, Adolfo Domenech Del Rio

Late Breaking Abstract - Development, and evaluation of a handheld digital inspiratory airflow resistance monitor, to aid remote respiratory consultations in primary care, post the COVID-19 pandemic.
Lindsay Welch (Southampton (Hampshire), United Kingdom), Kacper Wlodarczyk, Aditya Revat, George Everdell, Martin Grigorov, Neil White

Discussion

8M  Session  15:45 - 17:00

Oral presentation: Relevant news in rare interstitial lung diseases

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

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

Chairs: Elisabeth Bendstrup (Aarhus N, Denmark), Cormac McCarthy (Dublin 4, Ireland)

Pleuropulmonary manifestations of VEXAS syndrome

Exploring the role of matrix metalloproteinase 2 (MMP-2) as a biomarker in lymphangioleiomyomatosis
Meritxell Boada Pérez (Barcelona, Spain), Eva Maria Revilla Lopez, Victoria Ruiz De Miguel, Susana Gomez Ollés, Berta Saez
COVID-19 in patients with Pulmonary Alveolar Proteinosis: A European multicenter study


High Prevalence and impact of lung cancer in Surfactant related gene mutation carriers

Alexandre Brudon (Paris, France), Nadia Nathan, Marie Legendre, Serge Astaem, Julien Bermudez, Diane Bouvy, Jacques Cadranel, Aurélie Cazes, Tristan Degot, Céline Delaure, Rémi Diesler, Ralph Epaud, Pascale Fanen, Anne Gondouin, Anne Guillaumot, Sandrine Hirschi, Sylvie Leroy, Sylvain Marchand-Adam, Hilario Nunes, Clément Picard, Grégoire Prévot, Martine Reynaud, Paul Duyvest, Lidewi Wemeau, Bruno Crestani, Gérard Zalcman, Vincent Cottin, Raphael Borie

Two distinct trajectories of FEV1 in Adult Pulmonary Langerhans Cell Histiocytosis

Amira Benattia (Paris (Île-de-France), France), Raphael Porcher, Emmanuelle Bugnet, Constance De Margerie-Mellon, Gwenaëlle Lorillon, Abdellatif Tazi

Correlation of radiological findings and pulmonary function tests in pulmonary alveolar microlithiasis

Punchalee Kaenmuang (Songkhla, Thailand), Asma Navasakulpong

A DIPNECH deep dive

Marissa O’Callaghan (County Cork, Ireland), Hussein Almeamar, Margaret Gleeson, David Murphy, Dermot O’Toole, Aurelie Fabre, Rachel Cromwell, Cormac McCarthy

Cyst burden on high-resolution computed tomography (HRCT) correlates with VEGF-D in lymphangioleiomyomatosis

Evelyn Lynn (Blackrock (Co. Dublin), Ireland), Marissa O’Callaghan, Joseph Morrow, Niamh Boyle, Aurelie Fabre, Jonathan Dodd, Michael Keane, David Murphy, Cormac McCarthy

Plasma exchange are not associated with better outcome in MDA5 Rapidly-Progressive Interstitial Lung disease.

Pierre Bay (Creteil, France), Marc Pinet De Chambrun, Rothstein Vicent, Matthieu Mahevas, Nicolas De Prost, Antoine Roux, Benjamin Zuber, Dominique Israël-Biet, Abdellatif Tazi, Hervier Baptiste, Mouthon Luc, Arsene Mekinian, Christophe Deligny, Raphael Borie, Jean Claude Meurice, Alain Meyer, Pascaline Priou, Laurent Savale, Luc De Saint Martin, Pierre Yves Brillet, Philippe Khafagy, Olivier Benveniste, Hilario Nunes, Yves Allenbach, Yurdagul Uzunhan

Discussion

8N Session 15:45 - 17:00

Oral presentation: Pneumonia

Disease(s): Airway diseases, Respiratory critical care

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

Chairs: Tobias Welte (Hannover, Germany), Maurizio Sanguinetti (Rome, Italy)

Investigating neutrophil AMPK activity in COVID-19 and pneumonia

Yan Hui Giam (Dundee (Angus), United Kingdom), Merete B Long, Lilia Delgado, Hani Abo-Leyah, Holly R Keir, Thomas Pembire, Rebecca Hull, Amy Gilmour, Chloe Hughes, Hollian Richardson, Diane Cassidy, Amelia Shoemark, James D Chalmers

Clinical efficacy between cefoperazone-sulbactam and prolonged infusion of piperacillin-tazobactam in the treatment of severe CAP, HAP and VAP: a retrospective multicenter cohort study

Chuan Yen Sun (Taipei, Taiwan), Wei Chih Chen

The efficacy of telavancin in comparison to linezolid on endotraacheal tube biofilm in pigs with MRSA pneumonia

KASRA KIAROSTAMI (Barcelona, Spain), Denise Battaglini, Anna Motos, Leticia Bueno Freire, Alba Soler Comas, Hua Yang, Minlan Yang, Francesco Pagliara, Eli Aguileria Xiol, Andrea Meli, Joaquim Bobi, Tarek Senussi Testa, Francesco Idone, Montserrat Rigol, Gianluigi Li Bassi, Laia Fernández-Barat, Antoni Torres

Machine learning for mortality prediction in community-acquired pneumonia emergency admissions

Daniel Lozano-Rojas (Leicester, United Kingdom), Alastair Mcewan, Gerrit Woltemann, Robert C Free
Patients with COVID-19 versus non-COVID-19 community-acquired pneumonia

Impact of severe lymphopenia on outcome of patients with pneumonia and positive pneumococcal urinary antigen
Luis Alberto Ruiz Iturriaga (Barakaldo (Vizcaya), Spain), Leyre Serrano Fernández, Silvia Pérez-Fernández, Sonia Castro Quintas, Amaia Urrutia Gajate, Beatriz González Quero, Alejandra Rezola Carasusana, Amaia Artaraz Ereño, Ainhoa Gómez Bonilla, Pedro Pablo España Yandiola, Rafael Zalacain Jorge

Development of AI models to predict mortality and long-term hospitalization in pneumonia
Taiki Furukawa (Nagoya (Aichi), Japan), Shotaro Misawa, Ryuji Kano, Hirokazu Yarimizu, Yoshimune Shiratori

Neutrophils in elderly hospitalised community acquired pneumonia patients are immature and migrate inaccurately
Aduragbemi Faniyi (Birmingham, United Kingdom), Frances Grudzinska, Onn Thein, Kylie Belchamber, Jaimin Patel, Dhruv Parekh, Aaron Scott, Elizabeth Saepy, David Thickett

The diagnostic and prognostic role of plasminogen activator inhibitor-1 (PAI-1) in hospitalized patients with pneumonias of different etiologies
Ksenia Bielosludtseva (Dniepropetrovsk, Ukraine)

Late Breaking Abstract - Are undernutrition and obesity associated with poor outcomes after hospitalization with community-acquired pneumonia – a prospective cohort study.
Maria Hein Hegelund (Hillerød, Denmark), Camilla Koch Ryrso, Christian Ritz, Arnold Dungu, Rikke Krogh-Madsen, Birgitte Lindegaard, Daniel Fachth-Jepsen

Discussion

8F  Session  15:45 - 17:00

Oral presentation: New insights into diagnostic and experimental paediatric pulmonology
Disease(s) : Airway diseases
Method(s) : Imaging  Pulmonary function testing  Endoscopy and interventional pulmonology  General respiratory patient care  Physiology
Chairs : Dirk Schramm (Düsseldorf, Germany), Raffaella Nenna (Rome, Italy)

Histological and structural effects of biodegradable polydioxanone stents in the rabbit trachea.
Alvaro Gimeno Diaz De Atauri (Madrid, Spain), Alvaro Gimeno, Rocio Morante, Alicia Usategui, María López, Mª Carmen Luna, Salome Albi, Jose L. Pablos, Juan L. Anton-Pacheco Sanchez

Caspase-1 and interleukin-18 in children with post infectious bronchiolitis obliterans
Tuğba Şişmanlar Eyuboglu (Ankara, Turkey), Ayse Tana Aslan, Tugba Ramashli Gursoy, Sevgi Pekcan, Mehmet Kose, Melih Hangul, Latife Arzu Aral, Vedat Bulut

Comparison of the lung clearance index in preschool children with primary ciliary dyskinesia and cystic fibrosis
Jobst Röhmel (Berlin, Germany), Friederike Doerfler, Cordula Koerner-Rettberg, Folke Brinkmann, Anne Schlegentdal, Martin Wetke, Isa Rudolf, Simone Helms, Joerg Grosse-Oenembrink, Yin Yu, Thomas Nuesslein, Irena Wojsy-Banaszak, Sebastian Becker, Olaf Eickmeier, Olaf Sommerburg, Heymut Omran, Mirjam Stahl, Marcus Mall

Low nitric oxide in Primary Ciliary Dyskinesia due to impaired NOS activity – data driven hypothesis
Anne Schlegentdal (Bochum, Germany), Lisa Eggenkemper, Folke Brinkmann, Thomas Lücke, Christoph Maier, Dimitrios Tsikas, Cordula Koerner-Rettberg

Diffusion capacity for nitric oxide (DLNO) in paediatric cardiopulmonary disease
Astrid Madsen Ring (Gentofte, Denmark), Frederik Fourniaies  Buchwald, Kim Gjerum Nielsen

The Relationship of Radiological Scoring with Clinical Findings and Pulmonary Function Decline in Primary Ciliary Dyskinesia
Nägehan Emiralioğlu (Ankara, Turkey), Berna Oguz, Beste Özezen, Dilber Ademhan Tural, Birce Sunman, Halime Nayır Büyükşahin, İsmail Güzekş, Didemi Alboğa, Meltem Erdal, Ebru Young, Deniz Doğru, Nural Kiper, Uğur Özçelik

The ‘knee’ pattern in spirometry flow-volume curve in children: does it relate to tracheomalacia?
Wicharn Boonjindasup (Bangkok, Thailand), Julie Marchant, Margaret McElrea, Stephanie Yerkovich, Rahul Thomas, Ian Masters, Anne Chang
Late Breaking Abstract - Saliva as an alternative to nasopharyngeal swabs for detection of respiratory syncytial virus (RSV) in children
Annefleur Langedijk (Utrecht, Netherlands), Orchid Allicock, Michelle Van Wijk, Devyn Yolda-Carr, Daniel Weinberger, Anne Wyllie, Louis Bont

Discussion

8H (live-streamed) Session 16:00 - 17:30
Symposium: Malignant pleural effusion management: applying the evidence in 2022 Session

Aims: to review the current biological understanding and potential mechanisms of malignant effusion progression and the implications for practice; to explain the relationship between anatomy, physiology and symptoms in pleural disease and the implications for practice; to describe evidence about optimal talc pleurodesis, including its use thoracoscopically; to provide insight into the current evidence for adjunctive treatments with indwelling plural catheters and novel indwelling plural catheter devices and their evidence.

Disease(s): Thoracic oncology
Method(s): Cell and molecular biology  Endoscopy and interventional pulmonology  General respiratory patient care
Tag(s): Clinical
Target audience: Adult pulmonologist/Clinician, Clinical researcher, Medical Student, Respiratory critical care physician, Pathologist, Radiologist, Scientist (basic, translational), Thoracic oncologist, Thoracic surgeon
Chairs: Najib M. Rahman (Oxford, United Kingdom), Georgia Hardavella (Athens, Greece)

16:00  From malignant effusion to malignant progression: what do translational studies tell us?
Rachelle Asciak (SIGGIEWI, Malta)

16:15  Understanding the impact, treatment response and outcome of malignant pleural effusions
Gary Yc Lee (Perth (WA), Australia)

16:30  Inpatient pleurodesis: translating the evidence into practice
Najib M. Rahman (Oxford, United Kingdom)

16:45  Adjunctive indwelling pleural catheter management: from outpatient talc to drug-eluting catheters
Nick Maskell (Bristol (Avon), United Kingdom)

17:00  Discussion and Q&A

8B (live-streamed) Session 16:00 - 17:30
Hot topics: Towards elimination of COPD Innovative views from the Lancet Commission on COPD

Aims: From a revised definition of the disease and its exacerbations to a new aetiological classification, the Lancet Commission on COPD puts forward unprecedented concepts around needed steps to undermine one of the major health problems worldwide. The aims of this session are as follows: to identify the reasons why COPD became a worldwide major health problem; to discuss current shortcomings in COPD diagnosis and therapy; to explore new diagnostic methods for COPD; to appraise an unprecedented aetiological classification of the disease; to discuss the proposed work-up for an acute exacerbation and its diagnosis; to review unmet targets in COPD therapy; to identify deliverable read-outs for COPD control and elimination.

Disease(s): Airway diseases  Pulmonary vascular diseases  Respiratory infections
Method(s): Cell and molecular biology  General respiratory patient care  Pulmonary function testing
Tag(s): Clinical
Target audience: Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Medical Technical Assistant, Nurse, Pathologist, Patient, Physician in Pulmonary Training, Physiologist, Radiologist, Respiratory physiotherapist, Scientist (basic, translational), Respiratory therapist
Chairs: Katerina Antoniou (Heraklion, Greece), Apostolos Bossios (Stockholm, Sweden), Sabine Kleinert (London, United Kingdom)

16:00  Why is COPD a pandemic? What matters to patients?
MeiLan K. Han (Ann Arbor, United States)

16:15  Revisiting the diagnosis and classification of COPD
Daiana Stolz (Basel, Switzerland)

16:30  Pharmacological and nonpharmacological unmet needs in COPD
Donald Sin (Vancouver (BC), Canada)

16:45  How do we eliminate COPD?
Mark Dransfield (Birmingham, United Kingdom)
### 8G (live-streamed) Session 16:00 - 17:30

**Hot topics: The practice and the planet: how can climate change and air pollution be addressed from clinical practice?**

**Aims:** To provide an overview of the newest evidence of impacts of air pollution and climate change on respiratory health and discuss the role of respiratory clinicians in climate change mitigation and adaptation.

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

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

**Tag(s):** Translational

**Target audience:** Adult pulmonologist/Clinician, General practitioner, Patient

**Chairs:** Sara De Matteis (Cagliari, Italy), Rafael E. de la Hoz (New York, United States)

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<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>16:00</td>
<td>Why should clinicians care about climate change?</td>
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<tr>
<td>Speaker to be confirmed</td>
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<tr>
<td>16:15</td>
<td>Planetary health as a priority in medical training</td>
</tr>
<tr>
<td>Josep Maria Anto Boque (Barcelona, Spain)</td>
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<tr>
<td>16:30</td>
<td>Clinical relevance of the new WHO air quality guidelines and how to consider exposure to low-levels of air pollution in adults: an overview</td>
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<tr>
<td>Zorana Andersen (Frederiksberg, Denmark)</td>
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<tr>
<td>16:45</td>
<td>Exposure to low-levels of air pollution and respiratory diseases in children: an overview</td>
</tr>
<tr>
<td>Erik Melén (Stockholm, Sweden)</td>
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<tr>
<td>17:00</td>
<td>Discussion and Q&amp;A</td>
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</tbody>
</table>

### 8C (live-streamed) Session 16:00 - 17:30

**Clinical cases: Lungs on fire: Respiratory critical care / Sleep and Breathing disorders**

**Aims:** To facilitate the presentation of real-life clinical cases as part of an interactive session. Cases vary in difficulty and may require differential diagnosis. This session is led by two discussants who will present cases submitted by respiratory health professionals to a panel of experts and will drive the discussion in a step-by-step approach, encouraging dialogue and reflection among the panel who have no prior knowledge of these cases. As the cases are discussed, the discussants will invite the audience to participate in determining which diagnostic and therapeutic options would be best for these patients.

**Disease(s):** [Respiratory critical care](#), [Sleep and breathing disorders](#)

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, Respiratory critical care physician, General practitioner, Clinical researcher, Paediatrician, Physician in Pulmonary Training, Nurse, Physiologist, Medical Student

**Chairs:** Maxime Patout (Paris, France), Maria Bonsignore (Palermo, Italy), João Carlos Winck (Vila Nova de Gaia, Portugal)

**Discussants:** Marieke L. Duiverman (Groningen, Netherlands), Leo Heunks (Amsterdam, Netherlands)

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<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>16:00</td>
<td>Case 1 incl. panel discussion and Q&amp;A - Author: J. P. Duarte dos Santos Oliveira Rodrigues (Portugal)</td>
</tr>
<tr>
<td>Marieke L. Duiverman (Groningen, Netherlands)</td>
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<tr>
<td>16:22</td>
<td>Case 2 incl. panel discussion and Q&amp;A - Author: A. F. Pacheco Reyes (Spain)</td>
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<td>Leo Heunks (Amsterdam, Netherlands)</td>
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<tr>
<td>16:44</td>
<td>Case 3 incl. panel discussion and Q&amp;A - Author: A. Breslavsky (Israel)</td>
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<tr>
<td>Marieke L. Duiverman (Groningen, Netherlands)</td>
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<tr>
<td>17:06</td>
<td>Case 4 incl. panel discussion and Q&amp;A - Author: M. Thilakarathna (Sri Lanka)</td>
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<tr>
<td>Leo Heunks (Amsterdam, Netherlands)</td>
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</table>

### 8A (live-streamed) Session 16:00 - 17:30

**Clinical trials session: ALERT 4: Interventional pulmonology and asthma**

**Aims:** Including the ALERT sessions (Abstracts Leading to Evolution in Respiratory Medicine Trials), these formats showcase important and very late-breaking clinical trial data from all respiratory disease areas. Presenters, session chairs and viewers will take part lively discussions on the presented trials.
Disease(s) : Thoracic oncology, Airway diseases
Method(s) : Endoscopy and interventional pulmonology, Imaging, General respiratory patient care, Surgery
Tag(s) : Clinical
Chairs : Walter De Wever (Leuven, Belgium), Elbieta Magdalena Grabczak (Warszawa, Poland), Daniela Gompelmann (Vienna, Austria)
Discussants : Isabelle Opitz (Zurich, Switzerland), Discussant to be confirmed

Late Breaking Abstract - Tezepelumab reduces mucus plugging in patients with uncontrolled, moderate-to-severe asthma: the phase 2 CASCADE study
Lars H Nordenmark (Oslo, Norway), Claire Emson, Åsa Hellqvist, James Johnston, Hans Greberg, Janet M. Griffiths, John D. Newell Jr, Jane R. Parnes, Gene Colice, Christopher E. Brightling

RCT Abstract - Use of digital measurement of medication adherence and lung function to guide the management of uncontrolled asthma: The INCA Sun randomized clinical trial
Richard Costello (Dublin 9, Ireland), Liam Heaney, Des Murphy, Elaine Machale

Wrap-up by discussant and discussion
Speaker to be confirmed

Late Breaking Abstract - Comparative Effect of Lung volume reduction surgery for Emphysema and Bronchoscopic lung volume reduction with valve placement: the CELEB trial.
Sara Catherine Buttery (London, United Kingdom), Adam Lewis, Lorna Latimer, Samuel V Kemp, Pallav L Shah, David Waller, Kelvin Lau, Simon Jordan, Neil Greening, Sri Rathinam, Winston Banya, Alan J B Kirk, Rocco Biliancia, Sara Tenconi, Kay Housley, Rod Lawson, Michael C Steiner, Nicholas S Hopkinson

Late Breaking Abstract - Sustained health-related quality of life in patients with severe heterogeneous emphysema treated with spiration valve system at 24-month follow-up (EMPROVE)
Gerard J. Criner (Philadelphia, United States), Antoine Delage, Kirk Voelker, Simon Martel, Emprove Investigators The Emprove Trial Investigator Group

Wrap-up by discussant and discussion
Isabelle Opitz (Zurich, Switzerland)

A randomized controlled trial evaluating the benefit of cone beam CT guidance to electromagnetic navigation bronchoscopy for the diagnosis of pulmonary nodule
Benjamin Bondue (Bruxelles, Belgium), Olivier Taton, Fadi Tannouri, Myriam Remmelink, Dimitri Leduc

RCT Abstract - Endosonography with or without confirmatory mediastinoscopy for resectable lung cancer: a randomized clinical trial
Jouke T. Annema (Amsterdam, Netherlands), Jelle Bousema, Marcel Dijkstra, Erik Van Der Heijden, Ad Verhagen, Frank Van Den Broek

Wrap-up by discussant and discussion
Isabelle Opitz (Zurich, Switzerland)

Closing remarks

Studio Session 16:45 - 17:15

Pro-Con debate: Is pharmacological or non-pharmacological management the priority for the patient who wants to be "less breathless and do more"

Aims: to describe the definition and prevalence of chronic breathlessness; to compare the latest evidence of pharmacological and nonpharmacological management for persons living with chronic breathlessness and identify the research gaps; to improve the clinical care of the person living with chronic breathlessness by utilising a blend of nonpharmacological and pharmacological strategies in the right patient at the right time.

Disease(s) : Airway diseases, Interstitial lung diseases
Method(s) : General respiratory patient care, Palliative care, Pulmonary rehabilitation
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, Respiratory therapist
Chairs: Richard Costello (Dublin 9, Ireland), Nicolas Roche (Paris, France), Christopher E. Brightling (Leicester (Leicestershire), United Kingdom)

Pharmacological management is the priority to improve chronic breathlessness
David Currow (Sydney (NSW), Australia)
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>16:55</td>
<td><strong>Non-pharmacological management is the priority to improve chronic breathlessness</strong>&lt;br&gt;Rachael A. Evans (Leicester (Leicestershire), United Kingdom)</td>
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<tr>
<td>17:05</td>
<td><strong>Discussion and Q&amp;A</strong></td>
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<tr>
<td><strong>Studio</strong> Session</td>
<td>17:15 - 17:30</td>
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<tr>
<td><strong>News from the Studio: Congress wrap-up</strong>&lt;br&gt;<em>Chairs</em>: Richard Costello (Dublin 9, Ireland), Christopher E. Brightling (Leicester (Leicestershire), United Kingdom), Nicolas Roche (Paris, France)</td>
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<tr>
<td>17:15</td>
<td><strong>Discussion and Q&amp;A</strong></td>
</tr>
<tr>
<td>18:00-19:30</td>
<td><strong>INDUSTRY EVENING SYMPOSIUM</strong>&lt;br&gt;SEE PAGE 1</td>
</tr>
</tbody>
</table>
Postgraduate course: PG1 Part I: Cardiovascular and neurological consequences of obstructive sleep apnoea: an update

Aims: to summarise the current knowledge of the many clinical faces of obstructive sleep apnoea (OSA) characterised by a variable degree of daytime sleepiness, gender differences of OSA symptoms and differences in the presence of comorbid insomnia, resulting in various comorbidities. It will cover the heterogeneity of OSA and its cognitive outcomes, especially in terms of attention and executive functions, and the potential bidirectional relationship with dementia, focusing on early identification, prevention and treatment strategies. The physiological and biochemical mechanisms connecting OSA with metabolic syndrome and diabetes, clinically meaningful phenotyping, improved prognosis and personalised treatment will be covered. The impact of the severity of OSA on the risk and outcomes of cardiovascular diseases and evidence of the impact of OSA treated with or without continuous positive airway pressure (CPAP) on morbidity and mortality outcomes will be discussed. The challenges facing sleep medicine regarding the important effect of CPAP on patient outcomes and the role of compliance will be highlighted.

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

Method(s): Epidemiology  General respiratory patient care  Physiology

Tag(s): Clinical

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: Maria Bonsignore (Palermo, Italy), Matteo Bradicich (Zollikerberg, Switzerland)

09:30  Clinical OSA phenotypes from sleepiness to mild and asymptomatic OSA and their relevance
Sophia E. Schiza (Heraklion, Greece)

09:50  Discussion and Q&A
Sophia E. Schiza (Heraklion, Greece)

10:00  Stroke, minimal cognitive impairment/dementia and OSA: a bidirectional relationship?
Speaker to be confirmed

10:20  Discussion and Q&A
Speaker to be confirmed

10:30  Break

10:45  Various pathophysiological mechanisms leading to cardiovascular sequelae of OSA and their relevance
Carolina Lombardi (Milano (MI), Italy)

11:05  Discussion and Q&A
Carolina Lombardi (Milano (MI), Italy)

11:15  What is the impact of OSA treated with or without CPAP on cardiovascular morbidity and mortality outcomes?
Dries Testelmans (Leuven, Belgium)

11:35  Discussion and Q&A
Dries Testelmans (Leuven, Belgium)

11:45  Break

12:00  Group assignment
Sophia E. Schiza (Heraklion, Greece), Carolina Lombardi (Milano (MI), Italy), Dries Testelmans (Leuven, Belgium), Speaker to be confirmed

Postgraduate course: PG1 Part II: outcomes of central sleep apnoea and hypoventilation syndromes

Aims: to summarise the current knowledge of early recognition and effective hypoventilation treatment using various currently available treatment modalities with the scope to improve patient-centred outcomes; different clinical phenotypes of Central sleep apnoea (CSA) in heart failure (HF) patients, their correlation with prognosis and their relevance for identifying individualised therapeutic strategies to improve morbidity, mortality and patient-centred outcomes; early recognition and effective preoperative and postoperative management of patients with sleep-disordered breathing and use of anaesthetics to improve patient safety and outcomes of surgery; and various types of sleep diagnostic tests (type I–IV), their use depending on the patient’s profile and their strengths and limitations.
Disease(s): Paediatric respiratory diseases, Respiratory critical care, Sleep and breathing disorders
Method(s): Epidemiology, General respiratory patient care, Physiology
Tag(s): Clinical

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: Dries Testelmans (Leuven, Belgium), Marta Susana Monteiro Drummond Freitas (Maia, Portugal)

14:00 Clinical phenotypes of CSA: relevance for treatment decisions and patient outcomes
Winfried J. Randerath (Solingen, Germany)

14:20 Discussion and Q&A
Winfried J. Randerath (Solingen, Germany)

14:30 Obesity hypoventilation syndrome: one size does not fit all. Which patients will benefit from various therapeutic options?
Jean-Louis Pépin (Grenoble, France)

14:50 Discussion and Q&A
Jean-Louis Pépin (Grenoble, France)

15:00 Break

15:15 Preoperative and postoperative evaluation of patients with various forms of sleep-disordered breathing: relevance for patient outcomes
Özen K. Basoglu (Izmir, Turkey)

15:35 Discussion and Q&A
Özen K. Basoglu (Izmir, Turkey)

15:45 Type I–IV diagnostic modalities: which one to choose according to various forms of sleep-disordered breathing
Renata L. Riha (Edinburgh (Edinburgh), United Kingdom)

16:05 Discussion and Q&A
Renata L. Riha (Edinburgh (Edinburgh), United Kingdom)

16:15 Break

16:30 Group assignment
Winfried J. Randerath (Solingen, Germany), Jean-Louis Pépin (Grenoble, France), Özen K. Basoglu (Izmir, Turkey), Renata L. Riha (Edinburgh (Edinburgh), United Kingdom)

PG Room 2 Session 14:00 - 17:30

Postgraduate course: PG2 Paediatric respiratory diseases: focus on infections

Aims: to provide clinicians with practical take-home messages regarding the key management and health policy issues related to respiratory disease in children, focusing on airway and lung infections; to provide a state-of-the-art update on four important paediatric topics, namely, SARS-CoV-2, infections in cystic fibrosis, tuberculosis and complicated pneumonia.

Disease(s): Airway diseases, Paediatric respiratory diseases, Respiratory infections
Method(s): Epidemiology, General respiratory patient care, Public health
Tag(s): Clinical

Target audience: Adult pulmonologist/Clinician, General practitioner, Medical Student, Respiratory critical care physician, Paediatrician, Physician in Pulmonary Training, Respiratory therapist

Chairs: Stefan Unger (Edinburgh (Edinburgh), United Kingdom), Marijke Proesmans (Leuven, Belgium)

14:00 SARS-CoV-2-associated lung infections in children
Ahmad Kantar (Bergamo (BG), Italy)

14:20 Discussion and Q&A
Ahmad Kantar (Bergamo (BG), Italy)

14:30 Infections in children with cystic fibrosis

14:50 Discussion and Q&A
<table>
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<tr>
<th>Time</th>
<th>Event Description</th>
<th>Presenter(s)</th>
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<tbody>
<tr>
<td>15:00</td>
<td>Break</td>
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<tr>
<td>15:15</td>
<td>Update on lung tuberculosis in children</td>
<td>James Seddon (London, United Kingdom)</td>
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<tr>
<td>15:35</td>
<td>Discussion and Q&amp;A</td>
<td>James Seddon (London, United Kingdom)</td>
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<tr>
<td>15:45</td>
<td>Management of complicated pneumonia in children</td>
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<tr>
<td>16:05</td>
<td>Discussion and Q&amp;A</td>
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<tr>
<td>16:15</td>
<td>Break</td>
<td></td>
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<tr>
<td>16:30</td>
<td>Group assignment</td>
<td>Ahmad Kantar (Bergamo (BG), Italy), James Seddon</td>
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</tbody>
</table>
Postgraduate course: PG3 Pleural disease: Applying the evidence

Aims: to discuss the large volume of high-quality trial data being published about pleural disease, including phase III trials in several subspecialty areas and updated international guidelines that are due to be published in early 2022. In terms of malignant pleural effusion, participants will be able to select the optimal diagnostic strategy, including thoracoscopy and direct-to-biopsy approaches, and explain the proven advantages and disadvantages of different management options to facilitate patient-centred, evidence-based care. In terms of pleural infection, participants will be able to correctly diagnose and identify patients requiring drainage, adjunctive intrapleural therapies and referral for surgery, deploy risk prediction scores and explain relevant translational and antimicrobial data. In terms of pneumothorax, participants will be able to differentiate between patients requiring admission and those suitable for ambulatory management, based on recent phase III trials, and identify the importance of familial pneumothorax and ongoing trials, including those involving the use of suction. In terms of mesothelioma, participants will be able to select optimal diagnostic and treatment strategies including first- and second-line immunotherapy and learn about the role of regional multidisciplinary teams and options for patients with early-stage disease, including radical surgery and ongoing clinical trials.

Disease(s): Respiratory infections, Thoracic oncology
Method(s): Endoscopy and interventional pulmonology, General respiratory patient care, Surgery
Tag(s): Clinical
Target audience: Adult pulmonologist/Clinician, Clinical researcher, Nurse, Physician in Pulmonary Training, Thoracic oncologist, Thoracic surgeon

Chairs: Kevin Blyth (Glasgow (Glasgow), United Kingdom), Nick Maskell (Bristol (Avon), United Kingdom)

09:30 Evidence-based diagnosis and management of malignant pleural effusion
Selina Tsim (Glasgow (Glasgow), United Kingdom)

09:50 Discussion and Q&A
Selina Tsim (Glasgow (Glasgow), United Kingdom)

10:00 Interactive case: malignant pleural effusion
Radhika Banka (Mumbai (Maharashtra), India)

10:30 Break

10:45 Stratified therapy for pleural infection: integrating outcome prediction, intrapleural therapy and surgery
Najib M. Rahman (Oxford, United Kingdom)

11:05 Discussion and Q&A
Najib M. Rahman (Oxford, United Kingdom)

11:15 Interactive case: pleural infection
Deidre Fitzgerald (Nedlands, Australia)

11:45 Break

12:00 Pneumothorax: is ambulatory care ready for prime time?
Rob Hallifax (Oxford (Oxfordshire), United Kingdom)

12:20 Discussion and Q&A
Rob Hallifax (Oxford (Oxfordshire), United Kingdom)

12:30 Interactive case: pneumothorax
Julius P. Janssen (Nijmegen, Netherlands)

13:00 Lunch break

14:00 Mesothelioma: integrating new therapies, better diagnostics and clinical trials
Vasiliki Panou (Odense, Denmark)

14:20 Discussion and Q&A
Vasiliki Panou (Odense, Denmark)

14:30 Interactive case: mesothelioma
Anna Bibby (Bristol (Avon), United Kingdom)
**Postgraduate course: PG4 Back to clinical physiology**

From respiratory mechanics and gas exchange to clinical physiologic interventions

**Aims:** to explain the basic principles of respiratory physiology and how they can be applied to clinical practice.

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

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

**Tag(s):** Clinical

**Target audience:** Adult pulmonologist/Clinician, Clinical researcher, Medical Student, Nurse, Respiratory critical care physician, Physician in Pulmonary Training, Physiologist, Respiratory physiotherapist, Scientist (basic, translational), Respiratory therapist, Journalist

**Chairs:** William Stringer (Long Beach, United States), Camille Rolland-Debord (clermont-ferrand, France)

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>14:00</td>
<td><strong>From pulmonary gas exchange to the interpretation of arterial blood gases</strong></td>
<td>Paolo Palange (Rome, Italy)</td>
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<tr>
<td>14:20</td>
<td><strong>Discussion and Q&amp;A</strong></td>
<td>Paolo Palange (Rome, Italy)</td>
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<tr>
<td>14:30</td>
<td><strong>Pulmonary circulation: from physiology to clinical applications</strong></td>
<td>Silvia Ulrich (Zurich, Switzerland)</td>
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<tr>
<td>14:50</td>
<td><strong>Discussion and Q&amp;A</strong></td>
<td>Silvia Ulrich (Zurich, Switzerland)</td>
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<tr>
<td>15:00</td>
<td><strong>Break</strong></td>
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<tr>
<td>15:15</td>
<td><strong>Respiratory mechanics and respiratory muscle function</strong></td>
<td>Caroline Jolley (London, United Kingdom)</td>
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<tr>
<td>15:35</td>
<td><strong>Discussion and Q&amp;A</strong></td>
<td>Caroline Jolley (London, United Kingdom)</td>
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<tr>
<td>15:45</td>
<td><strong>The mechanics of breathing in intensive care unit patients, particularly in the era of COVID-19</strong></td>
<td>Laurent Brochard (Toronto (ON), Canada)</td>
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<tr>
<td>16:05</td>
<td><strong>Discussion and Q&amp;A</strong></td>
<td>Laurent Brochard (Toronto (ON), Canada)</td>
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<tr>
<td>16:15</td>
<td><strong>Break</strong></td>
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<tr>
<td>16:30</td>
<td><strong>Group assignment</strong></td>
<td>Paolo Palange (Rome, Italy), Silvia Ulrich (Zurich, Switzerland), Caroline Jolley (London, United Kingdom), Laurent Brochard (Toronto (ON), Canada)</td>
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</tbody>
</table>
Postgraduate course: PG5 Masterclass in asthma

Aims: to describe methods of diagnosing and managing patients with asthma; to present methods of assessing and treating patients with different asthma phenotypes and monitoring the effects of treatment of asthma based on recent updates.

Disease(s): Airway diseases

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

Tag(s): Clinical

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

Chairs: Apostolos Bossios (Stockholm, Sweden), Mona Al-Alhmad (Kuwait, Kuwait)

08:30  Latest updates in the guidelines of asthma: diagnosis and management
Ayşe Arzu Yorgancıoğlu (Konak, Turkey)

08:50  Discussion and Q&A
Ayşe Arzu Yorgancıoğlu (Konak, Turkey)

09:00  Assessing and monitoring asthma
Florence Schleich (Liège, Belgium)

09:20  Discussion and Q&A
Florence Schleich (Liège, Belgium)

09:30  Break

09:45  Making sense of phenotypes and endotypes in asthma
Renaud Louis (Liège, Belgium)

10:05  Discussion and Q&A
Renaud Louis (Liège, Belgium)

10:15  Pharmacological treatment and current controversies
Guy Brusselle (Ghent, Belgium)

10:35  Discussion and Q&A
Guy Brusselle (Ghent, Belgium)

10:45  Break

11:00  Interactive cases by participants
Stylianos Loukides (Athens, Greece), Manali Mukherjee (Hamilton (ON), Canada), Ayşe Arzu Yorgancıoğlu (Konak, Turkey), Angela Zacharasiewicz (Wien, Austria)

Postgraduate course: PG6 Masterclass in COPD

Aims: to describe methods of diagnosing, assessing and managing patients with COPD; to present methods of assessing and treating patients with different COPD phenotypes and monitoring the effects of treatment of COPD based on recent updates.

Disease(s): Airway diseases

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

Tag(s): Clinical

Target audience: Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Medical Technical Assistant, Nurse, Patient, Physician in Pulmonary Training, Physiologist

Chairs: Apostolos Bossios (Stockholm, Sweden), Ayşe Arzu Yorgancıoğlu (Konak, Turkey)

14:00  Latest updates in the guidelines for COPD: diagnosis and management
Konstantinos Kostikas (Ioannina, Greece)

14:20  Discussion and Q&A
Konstantinos Kostikas (Ioannina, Greece)

14:30  Assessing and monitoring COPD
MeiLan K. Han (Ann Arbor, United States)
14:50  Discussion and Q&A  
MeiLan K. Han (Ann Arbor, United States)

15:00  Break

15:15  Making sense of phenotypes and endotypes in COPD  
Daiana Stolz (Basel, Switzerland)

15:35  Discussion and Q&A  
Daiana Stolz (Basel, Switzerland)

15:45  Pharmacological treatment and current controversies  
Alberto Papi (Cona, Ferrara, Italy)

16:05  Discussion and Q&A  
Alberto Papi (Cona, Ferrara, Italy)

16:15  Break

16:30  Interactive cases by participants  
Stylianos Loukides (Athens, Greece), Miriam Barrecheguren Fernandez (Barcelona, Spain), Daiana Stolz (Basel, Switzerland)
Postgraduate course: PG7 How to improve research strategies in pneumonia
ECRAID-base project

Aims: to review limitations of pneumonia research and potential advances in this field to improve research and the development of future trials in pneumonia in both community and hospital settings.

Disease(s): Respiratory infections

Method(s): General respiratory patient care  Public health  Respiratory intensive care

Tag(s): Clinical

Target audience: Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Nurse, Respiratory critical care physician, Physician in Pulmonary Training, Radiologist, Respiratory physiotherapist, Scientist (basic, translational), Respiratory therapist

Chairs: Eva Polverino (Barcelona, Spain), Marc Bonten (Utrecht, Netherlands)

08:30  Strengths and limitations of clinical trials in pneumonia
Tobias Welte (Hannover, Germany)

08:50  Discussion and Q&A
Tobias Welte (Hannover, Germany)

09:00  Advances in microbiological diagnosis of respiratory tract infections
Speaker to be confirmed

09:20  Discussion and Q&A
Speaker to be confirmed

09:30  Break

09:45  Definition criteria of pneumonia from the perspective of regulatory agencies
Speaker to be confirmed

10:05  Discussion and Q&A
Speaker to be confirmed

10:15  Adaptive trials in respiratory tract infections

10:35  Discussion and Q&A

10:45  Break

11:00  Group assignment
Tobias Welte (Hannover, Germany), Speaker to be confirmed

Postgraduate course: PG8 The challenges of chronic noninvasive ventilation
A case-based discussion

Aims: to discuss titration of chronic noninvasive ventilation (NIV) in patients with bulbar complaints, including how to adjust patients, additional therapies and techniques, when to decide that NIV goals have not been achieved, when to switch to invasive mechanical ventilation and when to decide to stop; to discuss titration of chronic NIV in patients with chronic obstructive pulmonary disease (COPD), including whether to aim for high-intensity NIV, how to adjust patients to high-intensity NIV, the back-up respiratory rate, inspiration and expiration times and new modes; to discuss the detection and clinical consequences of patient-ventilator asynchrony, including whether this should be treated in chronic care and how to reliably detect it; to discuss the value of alternative (autotitrating) modes, including whether AVAPS and EFL titration modes or other alternatives should be used.

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

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

Tag(s): Clinical

Target audience: Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Medical Technical Assistant, Nurse, Respiratory critical care physician, Paediatrician, Patient, Respiratory physiotherapist, Respiratory therapist

Chairs: Marieke L. Duiverman (Groningen, Netherlands), Jesus Gonzalez Bermejo (Montlignon, France)

14:00  Chronic NIV in patients with bulbar disease: challenges and goals
Peter J. Wijkstra (Groningen, Netherlands)
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>14:20</td>
<td>Discussion and Q&amp;A</td>
<td>Peter J. Wijkstra (Groningen, Netherlands)</td>
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<tr>
<td>14:30</td>
<td>Chronic NIV in patients with COPD: what is the best way to go?</td>
<td>Chloé Cantero (Paris, France)</td>
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<tr>
<td>14:50</td>
<td>Discussion and Q&amp;A</td>
<td>Chloé Cantero (Paris, France)</td>
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<tr>
<td>15:00</td>
<td>Break</td>
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<tr>
<td>15:15</td>
<td>Is patient-ventilator asynchrony also important in chronic care?</td>
<td>Michelle Ramsay (Esher, United Kingdom)</td>
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<tr>
<td>15:35</td>
<td>Discussion and Q&amp;A</td>
<td>Michelle Ramsay (Esher, United Kingdom)</td>
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<tr>
<td>15:45</td>
<td>New NIV modes: what is available, and when should they be used?</td>
<td>Maxime Patout (Paris, France)</td>
</tr>
<tr>
<td>16:05</td>
<td>Discussion and Q&amp;A</td>
<td>Maxime Patout (Paris, France)</td>
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<tr>
<td>16:15</td>
<td>Break</td>
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</tr>
<tr>
<td>16:30</td>
<td>Group assignment</td>
<td>Peter J. Wijkstra (Groningen, Netherlands), Michelle Ramsay (Esher, United Kingdom), Maxime Patout (Paris, France), Chloé Cantero (Paris, France)</td>
</tr>
</tbody>
</table>
**PG room 1**  
Session  
08:30 - 12:00  

**Postgraduate course: PG9 Diagnosing pulmonary hypertension: what a pneumologist should know**  

**Aims**: to explain how to correctly diagnose pulmonary hypertension via a stepwise approach, how to perform the diagnostic tests in the correct order, how to interpret the radiology results correctly and how to perform and interpret right heart catheterisation data correctly; to describe the right heart physiology and explain how to interpret right heart parameters correctly; to explain how to apply this knowledge using interactive cases.  

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

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

**Tag(s)**: Clinical  

**Target audience**: Adult pulmonologist/Clinician, Clinical researcher, Medical Student, Respiratory critical care physician, Paediatrician, Patient, Physician in Pulmonary Training, Radiologist  

**Chairs**: Mona Lichtblau (Zürich, Switzerland), Marion Delcroix (Leuven, Belgium), Louise Bouman-van der Waal (Piershil, Netherlands)  

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>08:30</td>
<td>The diagnostic algorithm in pulmonary hypertension</td>
<td>David Kiely (Sheffield (South Yorkshire), United Kingdom)</td>
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<tr>
<td>08:50</td>
<td>Discussion and Q&amp;A</td>
<td>David Kiely (Sheffield (South Yorkshire), United Kingdom)</td>
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<tr>
<td>09:00</td>
<td>The radiology of pulmonary hypertension</td>
<td>Deepa Gopalan (LONDON, United Kingdom)</td>
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<tr>
<td>09:20</td>
<td>Discussion and Q&amp;A</td>
<td>Deepa Gopalan (LONDON, United Kingdom)</td>
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<tr>
<td>09:30</td>
<td>Break</td>
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<tr>
<td>09:45</td>
<td>Correctly performing right heart catheterisation and interpreting the data</td>
<td>Gabor Kovacs (Graz, Austria)</td>
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<tr>
<td>10:05</td>
<td>Discussion and Q&amp;A</td>
<td>Gabor Kovacs (Graz, Austria)</td>
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<tr>
<td>10:15</td>
<td>Evaluation of right ventricular function</td>
<td>Anton Vonk Noordegraaf (Amsterdam, Netherlands)</td>
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<tr>
<td>10:35</td>
<td>Discussion and Q&amp;A</td>
<td>Anton Vonk Noordegraaf (Amsterdam, Netherlands)</td>
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<tr>
<td>10:45</td>
<td>Break</td>
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</tr>
<tr>
<td>11:00</td>
<td>Interactive cases</td>
<td>Athénaïs Boucly (Le Kremlin Bicêtre, France), Mitja Jevnikar (Paris, France), Rui Miguel Costa Adão (Oliveira de Azeméis, Portugal)</td>
</tr>
</tbody>
</table>

**PG Room 2**  
Session  
14:00 - 17:30  

**Postgraduate course: PG10 Spirometry today: from theory to practice**  

**Aims**: to explain the basic principles of spirometry and how to perform it in a standardised and safe way during and after the COVID-19 pandemic following the standardisation of spirometry (ATS-ERS) 2019 update.  

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

**Tag(s)**: Clinical  

**Target audience**: Adult pulmonologist/Clinician, General practitioner, Medical Technical Assistant, Physician in Pulmonary Training, Physiologist, Respiratory physiotherapist, Respiratory therapist  

**Chairs**: Pierantonio Laveneziana (Paris, France), Monika Franczuk (Warszawa, Poland)  

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>14:00</td>
<td>The physiological basis of the flow volume curve</td>
<td>Frans H.C. De Jongh (Enschede, Netherlands)</td>
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<tr>
<td>14:20</td>
<td>Discussion and Q&amp;A</td>
<td>Frans H.C. De Jongh (Enschede, Netherlands)</td>
</tr>
<tr>
<td>Time</td>
<td>Session Title</td>
<td>Presenter(s)</td>
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<tr>
<td>14:30</td>
<td>Ensuring quality and safety of your spirometry service</td>
<td>Aisling McGowan (Dublin 15, Ireland)</td>
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<tr>
<td>14:50</td>
<td>Discussion and Q&amp;A</td>
<td>Aisling McGowan (Dublin 15, Ireland)</td>
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<tr>
<td>15:00</td>
<td>Break</td>
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<tr>
<td>15:15</td>
<td>Spirometry: effective performance</td>
<td>Rachel Ong-Salvador (Amsterdam, Netherlands)</td>
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<tr>
<td>15:35</td>
<td>Discussion and Q&amp;A</td>
<td>Rachel Ong-Salvador (Amsterdam, Netherlands)</td>
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<tr>
<td>15:45</td>
<td>Spirometry: what can go wrong and how to rectify it</td>
<td>Karl Sylvester (Cambridge (Cambridgeshire), United Kingdom)</td>
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<tr>
<td>16:05</td>
<td>Discussion and Q&amp;A</td>
<td>Karl Sylvester (Cambridge (Cambridgeshire), United Kingdom)</td>
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<tr>
<td>16:15</td>
<td>Break</td>
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<tr>
<td>16:30</td>
<td>Group assignment</td>
<td>Frans H.C. De Jongh (Enschede, Netherlands), Aisling McGowan (Dublin 15, Ireland), Rachel Ong-Salvador (Amsterdam, Netherlands), Karl Sylvester (Cambridge (Cambridgeshire), United Kingdom)</td>
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ERS International Congress 2022
INDUSTRY SPONSORED SESSIONS
# Industry Early Morning Symposium: Simplicit it: Treatable Traits in practice

**Organised by GSK**

**Chairs:** Chris Compton (Brentford, Middlesex, United Kingdom)

<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>08:00</td>
<td>Opening and introduction</td>
<td>Chris Compton (Brentford, Middlesex, United Kingdom)</td>
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<tr>
<td>08:05</td>
<td>Proactively managing patients and long-term risk using Treatable Traits</td>
<td>Ian Douglas Pavord (Oxford (Oxfordshire), United Kingdom)</td>
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<tr>
<td>08:20</td>
<td>Can we simplify the approach by prioritising prime traits?</td>
<td>Peter Gibson (Newcastle, Australia)</td>
</tr>
<tr>
<td>08:35</td>
<td>Spotlight on sentinel events in asthma and COPD: exacerbations need a zero-tolerance approach</td>
<td>Mona Bafadhel (London, United Kingdom)</td>
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<tr>
<td>08:50</td>
<td>Let’s implement Treatable Traits: an illustrative case</td>
<td>Thys van der Molen (Groningen, Netherlands)</td>
</tr>
<tr>
<td>09:00</td>
<td>Q&amp;A and close</td>
<td>Chris Compton (Brentford, Middlesex, United Kingdom)</td>
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# Industry Early Morning Symposium: mRNA science and the next generation of vaccines: Transforming the management of respiratory infections

**Organised by Moderna**

**Chairs:** Roger Paredes (Barcelona, Spain)

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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>08:00</td>
<td>Welcome and introduction</td>
<td>Roger Paredes (Barcelona, Spain)</td>
</tr>
<tr>
<td>08:05</td>
<td>mRNA platform technology and its potential beyond COVID-19</td>
<td>Melissa Moore (Massachusetts, United States)</td>
</tr>
<tr>
<td>08:20</td>
<td>Current landscape and unmet needs in respiratory medicine</td>
<td>Eva Polverino (Barcelona, Spain)</td>
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<td>08:40</td>
<td>Revolutionizing the respiratory disease landscape through advances in vaccinology</td>
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<tr>
<td>09:00</td>
<td>Live Q&amp;A</td>
<td>Roger Paredes (Barcelona, Spain), Eva Polverino (Barcelona, Spain), Melissa Moore (Massachusetts, United States)</td>
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# Industry Early Morning Symposium: Critical Therapeutic Advances for Optimizing Clinical Outcomes in MAC Lung Disease: An Evidence-to-Practice Update

**Organised by Insmed**

**Chairs:** Christoph Lange (Borstel, Germany)

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<tr>
<th>Time</th>
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<tr>
<td>08:00</td>
<td>The Challenging Morbidity, Risk, and Therapeutic Continuum of MAC Lung Disease: What Have Learned from ERS Treatment Guideline, Real World Experience, and Recent Trials Focused on High Risk/Refractory MAC Lung Disease? How Do We Best Match Antimicrobial Therapies with Individual Patients with NTM-PD?</td>
<td>Christoph Lange (Borstel, Germany)</td>
</tr>
<tr>
<td>08:15</td>
<td>Optimizing Management of MAC Lung Disease with Guideline-Based Therapy: Current, Evidence- and Trial-Based Recommendations for Applying ATS/IDSA/ERS/ESCMID Treatment Plans for NTM-PD to the Front Lines of Patient Care for Refractory and Advanced MAC Pulmonary Disease</td>
<td>Stefano Aliberti (Milano (MI), Italy)</td>
</tr>
</tbody>
</table>
Clinical and Microbiologic Confirmation of MAC Lung Disease: Guiding Antibiotic Selection and Intensity Based on Systematic Microbiological Testing, Risk Stratification, Severity Score Indexes, and Prompt Recognition of Disease Severity Based on Radiographic Findings and Patient Co-Morbidities
Michael Loebinger (London, United Kingdom)

From Trials to Treatment for Challenging Patients with MAC Lung Infection—The Role, Safety, Indications, Evidence, and Practical Aspects of Deploying Inhaled Antimicrobial Formulations to Ensure Regimen Adherence, Minimize Side Effects, and Ensure Antimicrobial Course Completion for MAC Lung Disease
Francesco De Blasio (Pozzuoli (NA), Italy)

**8K Session 08:00 - 08:45**

**Industry Skills Lab Workshop: Central airway bronchoscopy – oncological and benign conditions**
*Organised by Erbe Elektromedizin GmbH*

- **08:00** Introduction
  Doreen Werner

- **08:05** Intro-lecture on different disease states & application of Erbe-solutions
  Jürgen Hetzel (Switzerland)

- **08:15** Hands-On
  Jürgen Hetzel (Tuebingen, Germany), Carlos Didisier Vicente (Simancas, Spain), Daniela Gompelmann (Vienna, Austria)

- **08:40** Discussion
  Jürgen Hetzel (Switzerland), Carlos Didisier Vicente (Simancas, Spain), Daniela Glockenhammer-Timm (München, Germany)

**8J Session 08:00 - 08:45**

**Industry Skills Lab Workshop: Breaking Research -Physiological Effects of the Novel DuetTM Asymmetrical Cannula on COPD**
*Organised by Fisher & Paykel Healthcare*

**Chairs:** Stefano Nava (Bologna (BO), Italy), Ulla Møller Weinreich (Ålborg, Denmark)

- **08:00** Nasal high flow therapy in COPD patients using a novel asymmetric cannula
  Gerard J. Criner (Philadelphia, United States)

- **08:18** Nasal High Flow in Post-Exacerbation COPD
  Lara Pisani (Bologna (BO), Italy)

- **08:36** Prong size, pressure, pCO2: how to optimise NHF therapy
  Jens Bräunlich (Leipzig, Germany)

**8K Session 10:30 - 11:15**

**Industry Skills Lab Workshop: What would you do…?Join an interactive session where you get to have your say on NIV patient setup!**
*Organised by ResMed*

**Chairs:** Claudia Crimi (Catania (CT), Italy), OLIVIER SAGNARD (Saint Priest, France)

- **10:30** An interactive session where you can chat with the experts

- **10:48** Deep dive into NIV settings in a leakage system and learn how to optimise them to adopt, manage and improve therapy for your patients (includes clinical cases)

- **11:06** Whether you’re just starting out in NIV management or you’re more advanced, this session is suitable for all levels of ventilation knowledge
8J Session 10:30 - 11:15

Industry Skills Lab Workshop: Considerations for ventilator and PI selection for NIV
Organised by Philips

Chairs: Jule Yarascavitch

10:30 Considerations for ventilators in NIV
Maxime Patout (Paris, France)

10:40 Hands on with the EV300
Emad Makram (Allison Park, United States)

8M Session 13:00 - 14:00

Industry Lunchtime Symposium: Re-IMAGinING the pathway for clinical decision making in rare lung diseases – moving towards a united vision
Organised by CSL Behring GmbH

Chairs: Daiana Stolz (Basel, Switzerland), Charlie Strange (Charleston, United States)

13:00 Welcome and introduction to the faculty and symposium topics
Daiana Stolz (Basel, Switzerland), Charlie Strange (Charleston, United States)

13:05 Pars pro toto ILD: Improving diagnosis and differentiation
Daiana Stolz (Basel, Switzerland), Marlies S. Wijsenbeek (Rotterdam, Netherlands)

13:15 OSIC: A Renaissance approach to imaging in rare lung diseases
Elizabeth Estes (Holland, United States)

13:25 Exacerbations in AATD: Impact on lung density
Noel Gerard McElvaney (Dublin, Ireland), Charlie Strange (Charleston, United States)

13:35 Summary and introduction of the Q&A session
Daiana Stolz (Basel, Switzerland), Charlie Strange (Charleston, United States)

13:40 Live Q&A and closing remarks
Daiana Stolz (Basel, Switzerland), Charlie Strange (Charleston, United States)

8C (live-streamed) Session 13:00 - 14:00

Industry Lunchtime Symposium: COVID-19 and respiratory patients: remaining risks and challenges
Organised by GSK

Chairs: Krystal Evans (Brentford, United Kingdom)

13:00 Welcome and introductions
Krystal Evans (Brentford, United Kingdom)

13:05 COVID-19 evolution: where are we now and where are we headed?
Marta Boffito (London, United Kingdom)

13:20 COVID-19 and the risk to respiratory patients: strategies to optimise management
Tobias Welte (Hannover, Germany)

13:35 Interactive case studies
Krystal Evans (Brentford, United Kingdom), Tobias Welte (Hannover, Germany), Marta Boffito (London, United Kingdom)

13:45 Panel discussion and Q&A
Krystal Evans (Brentford, United Kingdom), Tobias Welte (Hannover, Germany), Marta Boffito (London, United Kingdom)

13:55 Key takeaways
Tobias Welte (Hannover, Germany)
Industry Lunchtime Symposium: Asthma and beyond: anti-IgE continues to play a major role

Organised by Novartis Pharma AG

Chairs: Celeste Michala Porsbjerg (Copenhagen, Denmark)

13:00 Welcome and Introduction
Celeste Michala Porsbjerg (Copenhagen, Denmark)

13:05 Why still target IgE pathways in the airways?
Oscar Palomares (Madrid, Spain)

13:20 Why does anti-IgE remain important in the management of severe asthma?
Andrew Menzies-Gow (London, United Kingdom)

13:35 Why look beyond asthma? Anti-IgE in the treatment of co-morbidities
Philippe Gevaert (Ghent, Belgium)

13:45 Q&A
Celeste Michala Porsbjerg (Copenhagen, Denmark), Oscar Palomares (Madrid, Spain), Andrew Menzies-Gow (London, United Kingdom), Philippe Gevaert (Ghent, Belgium)

13:55 Summary and close
Celeste Michala Porsbjerg (Copenhagen, Denmark)

Industry Lunchtime Symposium: Importance of Adult Vaccination in the Evolving Pneumococcal Disease Landscape

Organised by Pfizer

Chairs: Antoni Torres Marti (Barcelona, Spain)

13:00 Welcome and Introduction
Antoni Torres Marti (Barcelona, Spain)

13:05 Public Health Impact of PCVs on All Cause Pneumonia
Joe Lewnard (Berkeley, United States)

13:25 Addressing a New Era to Help Protect Against Pneumococcal Disease in Adults
Cristina Mendez (Alcobendas (Madrid), Spain)

13:45 Live Faculty Discussion and Q&A Session
Antoni Torres Marti (Barcelona, Spain), Joe Lewnard (Berkeley, United States), Cristina Mendez (Alcobendas (Madrid), Spain)

13:58 Closing Remarks
Antoni Torres Marti (Barcelona, Spain)

Industry Skills Lab Workshop: Oral appliance: a rising alternative option for OSA patients in Europe

Organised by ResMed

Chairs: Christoph Schoebel (Berlin-Mitte, Germany)

14:00 Exploration of the current reimbursement models in Europe.

14:15 Outcomes from the ALASKA study related to MAD treatment.

14:30 How digitalisation of the oral care pathway can aid follow-up and collaboration.
### Industry Skills Lab Workshop: Life Is Easier With a Hands-on Approach - Get More Confidence and Improve Your Outcomes

**Organised by Olympus Europa SE & Co. KG**

**Chairs:**

<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>14:00</td>
<td><strong>EBUS-TBNA: Handling all procedure steps safely and efficiently</strong></td>
<td>António Apolinário Bugalho De Almeida (Lisboa, Portugal)</td>
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<tr>
<td>14:00</td>
<td><strong>Peripheral Bronchoscopy: Plan, access and identify peripheral lesions for successful sampling</strong></td>
<td>Ales Rozman (Golnik, Slovenia)</td>
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<tr>
<td>14:00</td>
<td><strong>Emphysema and Air Leak treatment with EVIS X1: Elevating the standard of therapeutic interventions</strong></td>
<td>Matthias Hecker (Gießen, Germany)</td>
</tr>
<tr>
<td>14:00</td>
<td><strong>Medical Thoracoscopy: A semi-rigid approach to see and treat diseases in the thoracic cavity</strong></td>
<td>Enric Barbeta Sanchez (Barcelona, Spain)</td>
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### Industry Evening Symposium: Remission in Severe Asthma: an achievable treatment goal in the biologics era?

**Organised by AstraZeneca**

**Chairs:** Andrew Menzies-Gow (London, United Kingdom)

<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>18:00</td>
<td><strong>Welcome and Introduction</strong></td>
<td>Andrew Menzies-Gow (London, United Kingdom)</td>
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<tr>
<td>18:10</td>
<td><strong>Remission in chronic inflammatory diseases: learnings from rheumatoid arthritis</strong></td>
<td>Josef Smolen (Vienna, Austria)</td>
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<tr>
<td>18:25</td>
<td><strong>Clinical remission in severe asthma: a potential new treatment goal?</strong></td>
<td>David Price (Singapore, Singapore)</td>
</tr>
<tr>
<td>18:45</td>
<td><strong>Clinical remission in severe asthma: what does the data tell?</strong></td>
<td>Andrew Menzies-Gow (London, United Kingdom), Ian Douglas Pavord (Oxford (Oxfordshire), United Kingdom)</td>
</tr>
<tr>
<td>19:10</td>
<td><strong>Meeting close and Q&amp;A</strong></td>
<td>Andrew Menzies-Gow (London, United Kingdom)</td>
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</table>

### Industry Evening Symposium: Management of Pulmonary Fibrosis: What Now?

**Organised by Boehringer Ingelheim International GmbH**

**Chairs:** Fernando J. Martinez (New York, United States)

<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>18:00</td>
<td><strong>Introduction</strong></td>
<td>Fernando J. Martinez (New York, United States)</td>
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<tr>
<td>18:05</td>
<td><strong>Lessons Learned from Clinical Trials</strong></td>
<td>Toby Maher (Los Angeles, United States)</td>
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<tr>
<td>18:25</td>
<td><strong>Management Guidelines and Challenges</strong></td>
<td>Luca Richeldi (Roma, Italy)</td>
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<tr>
<td>18:45</td>
<td><strong>The Future of Research and Clinical Care</strong></td>
<td>Marlies S. Wijsenbeek (Rotterdam, Netherlands)</td>
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<tr>
<td>19:05</td>
<td><strong>Q&amp;A</strong></td>
<td>Fernando J. Martinez (New York, United States), Toby Maher (Los Angeles, United States), Luca Richeldi (Roma, Italy), Marlies S. Wijsenbeek (Rotterdam, Netherlands)</td>
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INDUSTRY SPONSORED SESSIONS
SUNDAY 04 SEPTEMBER, 2022

8F Session 18:00 - 19:30
Industry Evening Mini-Symposium: Dare to challenge the status quo: AATD, bronchiectasis, and new research
Organised by Grifols

Chairs: Marc Miravitlles (Barcelona (CT), Spain)

18:00 Welcome and introduction
Marc Miravitlles (Barcelona (CT), Spain)

18:05 Screening for severe Alpha-1 Antitrypsin Deficiency (AATD) and evolving results
Ilaria Ferrarotti (Pavia (PV), Italy)

18:25 Real world registry comparison studies on augmentation therapy
When should augmentation therapy be started in severe AATD patients? What parameters are of relevance?
point – counterpoint
Do we need clearly defined starting criteria for augmentation therapy?
Alice Turner (Birmingham (West Midlands), United Kingdom), Marc Miravitlles (Barcelona (CT), Spain)

19:00 Hot topic
The protease–antiprotease imbalance in infectious diseases: COVID-19 and Bronchiectasis
Clinical trial results on Alpha-1 Antitrypsin in COVID-19
Oliver McElvaney (, Ireland)

19:20 2022 ALTA awards ceremony
Antonio Paez Regadera (Barcelona, Spain)

19:25 Summary and Close
Marc Miravitlles (Barcelona (CT), Spain)

8H (live-streamed) Session 18:00 - 19:30
Industry Evening Symposium: How molecular pharmacology is improving patient outcomes in COPD
Organised by GSK

Chairs: Chris Compton (Brentford, Middlesex, United Kingdom), MeiLan K. Han (Ann Arbor, United States)

18:00 Opening and introduction
Chris Compton (Brentford, Middlesex, United Kingdom), MeiLan K. Han (Ann Arbor, United States)

18:05 Efficacy by design: from pharmacology to effective therapy
Kai Michael Beeh (Wiesbaden, Germany)

18:25 Are all triple therapies the same? Learning from head-to-head and indirect comparisons
Claus Vogelmeier (Marburg, Germany)

18:45 Real-world evidence on triple therapy: what have we learned?
David M. G. Halpin (Exeter, United Kingdom)

19:05 Panel discussion and Q&A
Chris Compton (Brentford, Middlesex, United Kingdom), MeiLan K. Han (Ann Arbor, United States), Kai Michael Beeh (Wiesbaden, Germany), Claus Vogelmeier (Marburg, Germany), David M. G. Halpin (Exeter, United Kingdom)

8M Session 18:00 - 19:30
Industry Evening Mini-Symposium: Management of non-tuberculous Mycobacterium avium complex pulmonary disease (MAC-PD) – what the future holds
Organised by Insmed Ireland Ltd.

Chairs: Gernot G.U. Rohde (Frankfurt am Main, Germany), Eva Polverino (Barcelona, Spain)

18:00 MAC-PD in Europe – identifying the patient at risk
Eva Polverino (Barcelona, Spain)
18:15 Diagnosis, management and prescribing patterns for MAC-PD in Europe  
Charles Haworth (Cambridge, United Kingdom)

18:30 VOTING: Adherence to treatment guidelines among physicians

18:35 Pitfalls and gaps in NTM clinical practice guidelines – how to follow  
Claire Andrejak (Amiens, France)

18:50 Treatment options for MAC-PD disease when oral GBT is not successful  
Stefano Aliberti (Milano (MI), Italy)

19:05 VOTING: Adherence to treatment among patients

19:10 Panel discussion: Learnings and expectations for the future – the path forward physicians would want to see  
Gernot G.U. Rohde (Frankfurt am Main, Germany), Eva Polverino (Barcelona, Spain), Charles Haworth (Cambridge, United Kingdom), Claire Andrejak (Amiens, France), Stefano Aliberti (Milano (MI), Italy)

8G (live-streamed) Session 18:00 - 19:30
Industry Evening Symposium: Addressing the challenges of the breathless patient: Beyond the obvious  
Organised by Janssen Pharmaceutica NV  
Chairs: Marion Delcroix (Leuven, Belgium), Sean Gaine (Dublin, Ireland)

18:00 Welcome and introduction  
Marion Delcroix (Leuven, Belgium)

18:10 Pitfalls in diagnosing the breathless patient  
Discussion  
Luke Howard (London, United Kingdom), Marion Delcroix (Leuven, Belgium), Sean Gaine (Dublin, Ireland)

18:35 Why pulmonary hypertension classification can be difficult  
Discussion  
Pilar Escribano-Subias (Madrid, Spain), Marion Delcroix (Leuven, Belgium), Sean Gaine (Dublin, Ireland)

19:00 My patient is diagnosed with PH. What are the treatment options?  
Silvia Ulrich (Zurich, Switzerland)

19:15 Q&A with the faculty  
Marion Delcroix (Leuven, Belgium), Sean Gaine (Dublin, Ireland), Pilar Escribano-Subias (Madrid, Spain), Silvia Ulrich (Zurich, Switzerland), Luke Howard (London, United Kingdom)

19:25 Key messages and closing remarks  
Sean Gaine (Dublin, Ireland)

8C (live-streamed) Session 18:00 - 19:30
Industry Evening Symposium: A triple approach to shifting the asthma paradigm: inhaled therapy, digital technology and environment  
Organised by Novartis Pharma AG  
Chairs: Christine Jenkins (McMahons Point (NSW), Australia)

18:00 Welcome and Introduction  
Christine Jenkins (McMahons Point (NSW), Australia)

18:05 Shifting the paradigm with inhaled asthma therapy  
Richard Van Zyl-Smit (Cape Town, South Africa)

18:25 Discussion: Shifting the paradigm with inhaled asthma therapy  
Christine Jenkins (McMahons Point (NSW), Australia), Richard Van Zyl-Smit (Cape Town, South Africa), Christopher Licskai (London (ON), Canada), Ashley Woodcock (Manchester (Greater Manchester), United Kingdom)

18:35 Shifting the paradigm with digital health care  
Christopher Licskai (London (ON), Canada)
18:50 Discussion: Shifting the paradigm with digital health care
Christine Jenkins (McMahons Point (NSW), Australia), Christopher Licskai (London (ON), Canada), Richard Van Zyl-Smit (Cape Town, South Africa), Ashley Woodcock (Manchester (Greater Manchester), United Kingdom)

19:00 Shifting the paradigm with environmental approaches
Ashley Woodcock (Manchester (Greater Manchester), United Kingdom)

19:15 Discussion: Shifting the paradigm with environmental approaches
Christine Jenkins (McMahons Point (NSW), Australia), Ashley Woodcock (Manchester (Greater Manchester), United Kingdom), Richard Van Zyl-Smit (Cape Town, South Africa), Christopher Licskai (London (ON), Canada)

19:25 Conclusion: Shifting the paradigm with a triple approach to asthma
Christine Jenkins (McMahons Point (NSW), Australia)

8N Session 18:00 - 19:30

Industry Evening Symposium: Delivering High Value Care for Asthma & COPD
Organised by Orion Pharma and Menarini Group
Chairs: Alvar Agusti Garcia-Navarro (Barcelona, Spain)

18:00 Welcome: Patient-physician relationships and the new normal
Alvar Agusti Garcia-Navarro (Barcelona, Spain)

18:10 Empowering patients to become equal partners in their care: Experience from Finland
Tuula Vasankari (Kaarina, Finland)

18:25 How to select the most appropriate inhaler with your patients
Federico Lavorini (Firenze (FI), Italy)

18:40 Avoiding pitfalls in asthma and COPD care
Christer Janson (Uppsala, Sweden)

18:55 The carbon footprint of asthma and COPD care
Lauri Lehtimäki (Tampere, Finland)

19:10 Q&A and panel discussion
Alvar Agusti Garcia-Navarro (Barcelona, Spain), Tuula Vasankari (Kaarina, Finland), Federico Lavorini (Firenze (FI), Italy), Lauri Lehtimäki (Tampere, Finland)

19:25 Wrap up and close
Alvar Agusti Garcia-Navarro (Barcelona, Spain)

8L Session 18:00 - 19:30

Industry Evening Mini-Symposium: Update: Clinical Adoption in High-Flow Therapy (HFT)
Organised by ResMed
Chairs: Maxime Patout (Paris, France), Adam Benjafield (Sydney, Australia)

18:10 A typical COPD patient using at-home HFT: A case study
Salvador Diaz Lobato (Colmenar Viejo (Madrid), Spain)

18:30 Presenting the results of the UK feasibility study on HFT
Rebecca D'Cruz (London, United Kingdom)

18:50 Innovative digital pathways in chronic care management
Chris Carlin (Glasgow (Glasgow), United Kingdom)

19:10 Danish HFT Guidelines and their implications: An update
Ulla Møller Weinreich (Ålborg, Denmark)

Industry Virtual Channel Session 18:00 - 19:00

Industry Virtual Symposium: The connected approach: exploring a new era of chronic respiratory disease management with digital inhalers
Organised by Teva Pharmaceuticals Europe B.V.
Chairs: Liam G. Heaney (Belfast (Belfast), United Kingdom)
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>18:00</td>
<td>Welcome and opening address</td>
<td>Liam G. Heaney (Belfast (Belfast), United Kingdom)</td>
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<tr>
<td>18:10</td>
<td>How can we break the pattern of poor inhaler use in asthma and COPD?</td>
<td>Per Rönmark (Nyköping, Sweden)</td>
</tr>
<tr>
<td>18:25</td>
<td>Digital inhalers – a new solution to an old problem?</td>
<td>Nawar Diar Bakerly (Salford (Lancashire), United Kingdom)</td>
</tr>
<tr>
<td>18:40</td>
<td>Discussion and audience questions</td>
<td>Liam G. Heaney (Belfast (Belfast), United Kingdom), Per Rönmark (Nyköping, Sweden), Nawar Diar Bakerly (Salford (Lancashire), United Kingdom)</td>
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ERS International Congress 2022

INDUSTRY SPONSORED SESSIONS

SUNDAY 04 SEPTEMBER, 2022
### 8B (live-streamed)  
**Session** 08:00 - 09:15

**Industry Early Morning Symposium: Heterogeneity of inflammation in asthma: a matter of airway epithelium?**  
*Organised by AstraZeneca*

**Chairs**: Santiago Quirce (Madrid, Spain)

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speakers</th>
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<tbody>
<tr>
<td>08:00</td>
<td>Welcome, introduction, and opening remarks</td>
<td>Louis-Philippe Boulet (Québec (QC), Canada)</td>
</tr>
<tr>
<td>08:05</td>
<td>Bronchial epithelium in health and disease</td>
<td>Celeste Michala Porsbjerg (Copenhagen, Denmark), Louis-Philippe Boulet (Québec (QC), Canada)</td>
</tr>
<tr>
<td>08:15</td>
<td>Asthma inflammation from the triggers’ point of view</td>
<td>Katrin Milger-Kneidinger (Munich, Germany), Celeste Michala Porsbjerg (Copenhagen, Denmark), Louis-Philippe Boulet (Québec (QC), Canada)</td>
</tr>
<tr>
<td>08:25</td>
<td>The epithelium - a driving force behind airway hyperresponsiveness</td>
<td>Paola Rogliani (Roma (RM), Italy), Louis-Philippe Boulet (Québec (QC), Canada), Celeste Michala Porsbjerg (Copenhagen, Denmark)</td>
</tr>
<tr>
<td>08:35</td>
<td>Inflammation, remodelling and remission – how is the epithelium involved</td>
<td>Pascal Chanez (Marseille, France), Celeste Michala Porsbjerg (Copenhagen, Denmark), Louis-Philippe Boulet (Québec (QC), Canada)</td>
</tr>
<tr>
<td>08:50</td>
<td>Panel Q&amp;A</td>
<td>Gianni Marone (Napoli (NA), Italy)</td>
</tr>
<tr>
<td>09:10</td>
<td>Summary and close</td>
<td>Celeste Michala Porsbjerg (Copenhagen, Denmark)</td>
</tr>
</tbody>
</table>

### 8G (live-streamed)  
**Session** 08:00 - 09:15

**Industry Early Morning Symposium: Tailoring treatment for uncontrolled asthmatic patients: from theory to practice**  
*Organised by Chiesi Farmaceutici S.p.A.*

**Chairs**: Ana Fernandez Tena (Oviedo (Asturias), Spain), Johann Christian Virchow (Rostock, Germany)

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<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speakers</th>
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<tbody>
<tr>
<td>08:00</td>
<td>Aiming for asthma remission and disease modification</td>
<td>Alvaro A. Cruz (Salvador (BA), Brazil)</td>
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<tr>
<td>08:20</td>
<td>Tailoring treatments in moderate to severe asthma: the TAILOR study</td>
<td>Guy Brusselle (Ghent, Belgium)</td>
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<tr>
<td>08:35</td>
<td>Identifying asthma patients who profit from dual and triple therapy</td>
<td>Johann Christian Virchow (Rostock, Germany)</td>
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<tr>
<td>08:55</td>
<td>Q&amp;A</td>
<td>Johann Christian Virchow (Rostock, Germany), Ana Fernandez Tena (Oviedo (Asturias), Spain), Guy Brusselle (Ghent, Belgium), Alvaro A. Cruz (Salvador (BA), Brazil)</td>
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### 8H (live-streamed)  
**Session** 08:00 - 09:15

**Industry Early Morning Symposium: Redefining asthma goals: the evolving era of proactive control**  
*Organised by GSK*

**Chairs**: Kenneth R. Chapman (Toronto (ON), Canada)

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speakers</th>
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<tbody>
<tr>
<td>08:00</td>
<td>Welcome, introductions, meeting objectives</td>
<td>Kenneth R. Chapman (Toronto (ON), Canada)</td>
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<tr>
<td>08:02</td>
<td>Asthma management and appropriate reliever use: APPaRENT challenges</td>
<td>Kenneth R. Chapman (Toronto (ON), Canada)</td>
</tr>
<tr>
<td>08:17</td>
<td>Evolving data from existing clinical trials: the power of modelling</td>
<td>Dave Singh (Manchester, United Kingdom)</td>
</tr>
</tbody>
</table>
08:32 Mastering asthma management: redefining treatment goals
Guy Brusselle (Ghent, Belgium)

08:47 Summary/conclusion
Kenneth R. Chapman (Toronto (ON), Canada)

08:50 Real-world results: debating clinical applications of proactive regular dosing
Kenneth R. Chapman (Toronto (ON), Canada), Dave Singh (Manchester, United Kingdom), Guy Brusselle (Ghent, Belgium)

09:00 Q&A session
Kenneth R. Chapman (Toronto (ON), Canada), Dave Singh (Manchester, United Kingdom), Guy Brusselle (Ghent, Belgium)

08:00 - 09:15 Industry Early Morning Symposium: The Science of COVID-19 mRNA Vaccines: Innovation to Anticipate the Evolving Prevention Paradigm
Organised by Pfizer

08:00 Welcome and introduction
Eva Polverino (Barcelona, Spain)

08:05 A new era of vaccine development
Miguel Prudêncio (Lisbon, Portugal)

08:15 How vaccines can meet the evolving challenges related to COVID-19
Eva Polverino (Barcelona, Spain)

08:45 Approaches to tackle COVID-19: mRNA vaccine and oral treatments
Miguel Prudêncio (Lisbon, Portugal)

08:55 Panel discussion / Q&A
Eva Polverino (Barcelona, Spain), Miguel Prudêncio (Lisbon, Portugal)

09:10 Closing remarks
Eva Polverino (Barcelona, Spain)

08:00 - 09:15 Industry Early Morning Symposium: Biomarkers Matter in the Long-term Treatment of Severe Asthma
Organised by Sanofi Regeneron

08:00 Introduction and Opening Remarks
Giorgio Walter Canonica (Milano (MI), Italy), Arnaud Bourdin (Montpellier Cedex 5, France), Diego Maselli (San Antonio, United States)

08:05 From Bench to Bedside: Clinical and Scientific Utility of Biomarkers in Type 2 Asthma
Giorgio Walter Canonica (Milano (MI), Italy)

08:15 Long-Term Impact of Dupilumab Across Type 2 Asthma Phenotypes
Diego Maselli (San Antonio, United States)

08:30 Improving Long-Term Outcomes While Reducing OCS Use
Arnaud Bourdin (Montpellier Cedex 5, France)

08:45 Panel Perspectives: Why Biomarkers Matter
Giorgio Walter Canonica (Milano (MI), Italy), Arnaud Bourdin (Montpellier Cedex 5, France), Diego Maselli (San Antonio, United States)

08:55 Audience Q&A
Giorgio Walter Canonica (Milano (MI), Italy), Arnaud Bourdin (Montpellier Cedex 5, France), Diego Maselli (San Antonio, United States)
### 8M Session 08:00 - 09:15

**Industry Early Morning Mini-Symposium: The vicious vortex of bronchiectasis, tackling the cornerstone of inflammation**

*Organised by Insmed Ireland Ltd.*

**Chairs:** Montserrat Vendrell Relat (Girona, Spain)

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<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>08:00</td>
<td>Introduction and overview</td>
<td>Montserrat Vendrell Relat (Girona, Spain)</td>
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<tr>
<td>08:05</td>
<td>NCFBE a consequence of inflammatory dysregulation?</td>
<td>Amelia Shoemark (Dundee (Angus), United Kingdom)</td>
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<tr>
<td>08:20</td>
<td>The biology of NCFBE – exploring the endotypes as treatable traits</td>
<td>Stuart Elborn (Belfast (Belfast), United Kingdom)</td>
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<tr>
<td>08:35</td>
<td>Targeting inflammation, a cornerstone in the vicious vortex of NCFBE</td>
<td>Pieter Goeminne (Bornem, Belgium)</td>
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<tr>
<td>08:50</td>
<td>Panel discussion</td>
<td>Pieter Goeminne (Bornem, Belgium), Montserrat Vendrell Relat (Girona, Spain), Stuart Elborn (Belfast (Belfast), United Kingdom), Amelia Shoemark (Dundee (Angus), United Kingdom)</td>
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<tr>
<td>09:10</td>
<td>Summary and close</td>
<td>Montserrat Vendrell Relat (Girona, Spain)</td>
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### Industry Virtual Channel Session 08:00 - 09:15

**Industry Virtual Symposium: The Climate Change as a Risk to Respiratory Health**

*Organised by Haleon*

**Chairs:** Christopher Carlsten (Vancouver (BC), Canada)

<table>
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<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>08:00</td>
<td>The challenge of climate change and health: Time to act</td>
<td>Kian Fan Chung (London, United Kingdom)</td>
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<tr>
<td>08:15</td>
<td>Health Impacts of Air Pollution and Climate Change in Low and Middle Income Countries</td>
<td>Sundeep Santosh Salvi (Pune (Maharashtra), India)</td>
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<tr>
<td>08:30</td>
<td>Firesmoke and Lung Health: Responses to an Increasing Threat</td>
<td>Christopher Carlsten (Vancouver (BC), Canada)</td>
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<tr>
<td>08:45</td>
<td>Impact of climate change on pediatric allergies and respiratory disorders</td>
<td>Gary Wong (Shatin, Hong Kong)</td>
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<tr>
<td>09:00</td>
<td>Q&amp;A with speakers</td>
<td>Kian Fan Chung (London, United Kingdom), Sundeep Santosh Salvi (Pune (Maharashtra), India), Christopher Carlsten (Vancouver (BC), Canada), Gary Wong (Shatin, Hong Kong)</td>
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### 8K Session 08:00 - 08:45

**Industry Skills Lab Workshop: Peripheral Bronchoscopic biopsy solutions with radial EBUS and navigation planning**

*Organised by FUJIFILM*

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<th>Time</th>
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<td>08:00</td>
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### 8J Session 08:00 - 08:45

**Industry Skills Lab Workshop: Recent Trial Results for Home Nasal High Flow and COPD**

*Organised by FISHER & PAYKEL HEALTHCARE*

**Chairs:** Nicholas Hart (London, United Kingdom), Claudia Crimi (Catania (CT), Italy)
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Details</th>
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<tbody>
<tr>
<td>08:00</td>
<td>8K</td>
<td>Home nasal high flow therapy in COPD patients following a recent hospitalization</td>
<td>Gerard J. Criner (Philadelphia, United States)</td>
</tr>
<tr>
<td>08:18</td>
<td>8K</td>
<td>Safety and effectiveness of domiciliary nasal high flow therapy for stable hypercapnic COPD patients</td>
<td>Kazuma Nagata (Kobe, Japan)</td>
</tr>
<tr>
<td>08:36</td>
<td>8K</td>
<td>Feasibility of home high-flow therapy after severe exacerbation of COPD: a mixed methods randomised control trial</td>
<td>Rebecca D'Cruz (London, United Kingdom)</td>
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<td>08:54</td>
<td>8K</td>
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<td>Chairs: Joan Escarrabill Sanglas (Barcelona, Spain), Kimberly L. Sterling (Indianapolis, United States)</td>
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<tr>
<td>10:30</td>
<td>8K</td>
<td>Introduction to PROM and Patient-Reported Experience Measures (PREM)</td>
<td>Joan Escarrabill Sanglas (Barcelona, Spain)</td>
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<tr>
<td>10:45</td>
<td>8K</td>
<td>The influence of patient engagement tools and PROM on PAP treatment adherence in obstructive sleep apnoea patients</td>
<td>Jean-Louis Pépin (Grenoble, France)</td>
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<tr>
<td>11:00</td>
<td>8K</td>
<td>A demonstration of ResMed's AirSense 11 patient feedback tool, Care Check-In, integrated with myAir and AirView</td>
<td>Clémence Dini (Lyon, France)</td>
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<td>Chairs: Sanja Stanojevic (Halifax (NS), Canada), Marko Topalovic (Kessel-lo, Belgium), Q&amp;A</td>
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<td>10:30</td>
<td>8J</td>
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<tr>
<td>13:00 - 14:00</td>
<td>8B (live-streamed)</td>
<td>Industry Lunchtime Symposium: Time to raise standards of care for patients with COPD</td>
<td>Organised by AstraZeneca</td>
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<td>Chairs: Fco. De Borja García Cosío Piqueras (Palma de Mallorca, Spain), Mona Bafadhel (London, United Kingdom)</td>
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<tr>
<td>13:00</td>
<td>8B (live-streamed)</td>
<td>Welcome, introduction, and opening remarks</td>
<td>David Price (Singapore, Singapore), Mona Bafadhel (London, United Kingdom)</td>
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<tr>
<td>13:05</td>
<td>8B (live-streamed)</td>
<td>Time to change: challenging the status quo of COPD management</td>
<td>Dave Singh (Manchester, United Kingdom)</td>
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<tr>
<td>13:15</td>
<td>8B (live-streamed)</td>
<td>Time to act: prompt identification of patients with COPD and their underlying risk</td>
<td>Mona Bafadhel (London, United Kingdom)</td>
</tr>
<tr>
<td>13:29</td>
<td>8B (live-streamed)</td>
<td>Time to treat: earlier intervention to prevent exacerbations and reduce the risk of mortality</td>
<td>Dave Singh (Manchester, United Kingdom)</td>
</tr>
<tr>
<td>13:43</td>
<td>8B (live-streamed)</td>
<td>Time to CONQUER COPD: ensuring quality standards in patient care</td>
<td>David Price (Singapore, Singapore), Fco. De Borja García Cosío Piqueras (Palma de Mallorca, Spain), Mona Bafadhel (London, United Kingdom), Dave Singh (Manchester, United Kingdom)</td>
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<tr>
<td>13:57</td>
<td>8B (live-streamed)</td>
<td>Summary and close</td>
<td>Fco. De Borja García Cosío Piqueras (Palma de Mallorca, Spain), Mona Bafadhel (London, United Kingdom)</td>
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</tbody>
</table>
8A (live-streamed) Session 13:00 - 14:00
Industry Lunchtime Symposium: What would you recommend for COPD today: Made-to-measure or one-size-fits-all?
Organised by Boehringer Ingelheim International GmbH
Chairs: Sarah Jarvis (London, United Kingdom)

13:00
Starting on the right path: How can I optimise treatment initiation in my patient?
Sarah Jarvis (London, United Kingdom), Peter J. Barnes (London, United Kingdom), John R Hurst (London, United Kingdom), Marc Miravitlles (Barcelona (CT), Spain)

13:50
Q&A and closing comments
Sarah Jarvis (London, United Kingdom), Peter J. Barnes (London, United Kingdom), John R Hurst (London, United Kingdom), Marc Miravitlles (Barcelona (CT), Spain)

8M Session 13:00 - 14:00
Industry Lunchtime Symposium: Global Access to Spirometry Project (GASP): a pathway to asthma and COPD management in Low- and Middle-Income Countries
Organised by Chiesi Farmaceutici S.p.A.
Chairs: Mario Scuri (Milano, Italy)

13:00
Chiesi’s commitment to respiratory care beyond R&D
Thomas Eichholtz (Utrecht, Netherlands)

13:05
The Chiesi Foundation: a strategic tool for social change. Resources, expertise, and networking for improving the quality of life of patients and their families living in Low-and Middle-Income Countries (LMICs)
Maria Paola Chiesi (Parma (PR), Italy)

13:10
GASP Guyana - Implementing an impactful strategy for asthma management in LMICs: from acute episodic care to sustainable chronic disease management.
Robert D. Levy (Vancouver (BC), Canada)

13:30
GASP Peru - Addressing the burden of COPD: improving access to accurate diagnosis, chronic disease management, patient education, and awareness
Juan Carlos Rojas Marroquín (, Peru)

13:45
GASP key benefits and lessons learned
Robert D. Levy (Vancouver (BC), Canada)

13:55
GASP future perspective: making the world breathe better
Massimo Salvadori (Milano, Italy)

8C (live-streamed) Session 13:00 - 14:00
Industry Lunchtime Symposium: A unified approach: improving patient outcomes in severe asthma and comorbid eosinophilic diseases
Organised by GSK
Chairs: Peter H. Howarth (Brentford, United Kingdom), Joaquim Mullol Miret (Barcelona, Catalonia, Spain)

13:00
Welcome and introduction
Peter H. Howarth (Brentford, United Kingdom), Joaquim Mullol Miret (Barcelona, Catalonia, Spain)

13:15
Joining forces: combating eosinophilic disease progression across the unified airway
Christian Domingo Ribas (Sabadell (Barcelona), Spain), Martin Wagenmann (Düsseldorf, Germany)

13:45
Managing real-world patients: putting the pieces together
Peter H. Howarth (Brentford, United Kingdom), Joaquim Mullol Miret (Barcelona, Catalonia, Spain), Martin Wagenmann (Düsseldorf, Germany), Christian Domingo Ribas (Sabadell (Barcelona), Spain)

13:55
Q&A
Peter H. Howarth (Brentford, United Kingdom), Joaquim Mullol Miret (Barcelona, Catalonia, Spain), Christian Domingo Ribas (Sabadell (Barcelona), Spain), Martin Wagenmann (Düsseldorf, Germany)
Industry Lunchtime Symposium: Recovering the "Lost Art" of Breathing in COPD and Asthma
Organised by Menarini group

**Chairs:** Alvar Agusti Garcia-Navarro (Barcelona, Spain)

**13:00**
**Introduction**
Alvar Agusti Garcia-Navarro (Barcelona, Spain)

**13:05**
**Symptoms and Exacerbations: two sides of the same coin**
Claus Vogelmeier (Marburg, Germany)

**13:20**
**Time matters: The opportunity to reduce mortality in COPD**
David M. G. Halpin (Exeter, United Kingdom)

**13:35**
**Ensuring effectiveness through a simplified treatment approach in an Asthma complex world**
Fulvio Braido (Genova, Italy)

**13:50**
**Open discussion**
Alvar Agusti Garcia-Navarro (Barcelona, Spain)

Industry Lunchtime Symposium: Take a Deep Breath: The Evolving Role of Biologics in Pediatric Severe Asthma
Organised by Sanofi Genzyme

**13:00**
**Inhale: Understanding the True Burden of Pediatric Severe Asthma and Underlying Type 2 Inflammation**
Eckard Hamelmann (Bielefeld, Germany)

**13:25**
**Exhale: Can Biologics Meet the Clinical Needs of Pediatric Asthma Patients?**
Leonard Bacharier (Nashville, United States)

**13:50**
**Panel Discussion and Q&A**
Eckard Hamelmann (Bielefeld, Germany), Leonard Bacharier (Nashville, United States)

Industry Virtual Symposium: Advancing care in alpha-1 antitrypsin deficiency: Working towards meeting holistic patient needs
Organised by Takeda Pharmaceuticals International GmbH

**Chairs:** Marc Miravitlles (Barcelona (CT), Spain)

**13:00**
**Introduction from the Chair: AATD disease background and EARCO Registry data**
Marc Miravitlles (Barcelona (CT), Spain)

**13:10**
**ARALAST® NP (RYMPHYSLA®) [Alpha-1 Proteinase Inhibitor (Human)] Clinical Efficacy Study: Advancing research in patients with AATD**
Jason Homsy (Cambridge, United States)

**13:20**
**Working towards holistic management of AATD: A lung and liver disease**
Virginia Clark (Gainesville, United States)

**13:30**
**A patient’s vision for the future of care in AATD. Can we get there, and how?**
Frank Willersinn (Bruxelles, Belgium)

**13:40**
**Panel discussion: Moving forward together: Priorities for the advancement of care in AATD**
Marc Miravitlles (Barcelona (CT), Spain), Jason Homsy (Cambridge, United States), Virginia Clark (Gainesville, United States), Frank Willersinn (Bruxelles, Belgium)

**13:55**
**Summary and close**
Marc Miravitlles (Barcelona (CT), Spain)

Industry Skills Lab Workshop: Implementing a digital sleep apnoea pathway in clinical practice
Organised by ResMed
**Chairs**: Ulla Anttalainen (Paimio, Finland), Christopher Carlin

**14:00**  
Implementing a digital diagnostic pathway in clinical practice  
Laurien Teunissen

**14:20**  
Case study of an out-of-hospital virtual CPAP pathway in clinical practice  
David Jones

### 8J Session 14:00 - 14:45

**Industry Skills Lab Workshop: Efficient OSA management with the DreamStation 2 sleep therapy solution**  
*Organised by Philips*

**Chairs**: Cheryl Needham (Wexford, United States)

**14:00**  
DreamStation 2 sleep therapy solution  
Thomas Catalano (Monroeville, United States)

### 8G (live-streamed) Session 18:00 - 19:30

**Industry Evening Symposium: Proactive risk management: a novel approach to embedding OCS Stewardship into asthma care**  
*Organised by AstraZeneca*

**Chairs**: David Price (Singapore, Singapore)

**18:00**  
Welcome and introduction  
David Price (Singapore, Singapore)

**18:05**  
OCS Stewardship: where we are now?  
Giorgio Walter Canonica (Milano (MI), Italy)

**18:20**  
Assessing the impact of OCS use: moving beyond exposure  
Liam G. Heaney (Belfast (Belfast), United Kingdom)

**18:30**  
Practical tools to enable risk prediction in asthma  
David Price (Singapore, Singapore)

**18:40**  
Panel discussion  
David Price (Singapore, Singapore), Giorgio Walter Canonica (Milano (MI), Italy), Liam G. Heaney (Belfast (Belfast), United Kingdom)

**18:55**  
Summary and close  
David Price (Singapore, Singapore)

### 8A (live-streamed) Session 18:00 - 19:30

**Industry Evening Symposium: New strategies to manage intermediate-risk patients with PAH by advancing Oral Prostacyclin treatment**  
*Organised by Ferrer*

**Chairs**: R James White (Rochester, United States)

**18:00**  
Introduction  
R James White (Rochester, United States)

**18:05**  
Is there a dose-response effect with oral Treprostinil?  
Carmine Dario Vizza (Roma (RM), Italy), R James White (Rochester, United States)

**18:30**  
What is the new clinical evidence with oral Treprostinil after FREEDOM-EV trial?  
Joanna Pepke-Zaba (Cambridge, United Kingdom), Sandeep Sahay (Houston, United States)

**18:55**  
Round table discussion. Oral treatment combinations in intermediate-risk PAH patients: The place for oral Treprostinil?  
Carmine Dario Vizza (Roma (RM), Italy), Joanna Pepke-Zaba (Cambridge, United Kingdom), Sandeep Sahay (Houston, United States), Marius M. Hoepfer (Hannover, Germany), R James White (Rochester, United States)

**19:25**  
Closing remarks  
R James White (Rochester, United States)
### Industry Evening Symposium: Consulting the ORACLE: moving towards a predict and prevent model to raise ambition for patients with severe asthma

**Organised by GSK**

**Chairs:** Ian Douglas Pavord (Oxford (Oxfordshire), United Kingdom)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>18:00</td>
<td>Welcome and introduction</td>
<td>Ian Douglas Pavord (Oxford (Oxfordshire), United Kingdom)</td>
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</tr>
<tr>
<td>18:10</td>
<td>How it all began: demonstrating consistent efficacy of Nucala in RCT and RWE data</td>
<td>Andrea Matucci (Florence, Italy)</td>
<td>Florence (Italy)</td>
</tr>
<tr>
<td>18:20</td>
<td>Clinical Remission: defining more ambitious endpoints for patients with severe asthma</td>
<td>Arnaud Bourdin (Montpellier Cedex 5, France)</td>
<td>Montpellier Cedex 5, France</td>
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<tr>
<td>18:30</td>
<td>Achieving clinical remission through real-world data</td>
<td>Geoffrey Chupp (New Haven, United States)</td>
<td>New Haven (United States)</td>
</tr>
<tr>
<td>18:45</td>
<td>Predict and prevent: utilising the ORACLE</td>
<td>Ian Douglas Pavord (Oxford (Oxfordshire), United Kingdom)</td>
<td></td>
</tr>
<tr>
<td>19:00</td>
<td>Panel and audience discussion</td>
<td>Arnaud Bourdin (Montpellier Cedex 5, France), Andrea Matucci (Florence, Italy), Ian Douglas Pavord (Oxford (Oxfordshire), United Kingdom), Geoffrey Chupp (New Haven, United States)</td>
<td>Montpellier Cedex 5, France</td>
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### Industry Evening Symposium: Picturing the human being behind the patient: the latest COPD challenge

**Organised by Menarini Group**

**Chairs:** Claudio Micheletto (S.Giovanni Lupatoto, Italy)

<table>
<thead>
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<tbody>
<tr>
<td>18:00</td>
<td>COPD 2022: new opportunities to take, old enemies to face</td>
<td>Claudio Micheletto (S.Giovanni Lupatoto, Italy)</td>
<td>S.Giovanni Lupatoto, Italy</td>
</tr>
<tr>
<td>18:10</td>
<td>Back to basics: symptoms control as the basis for the management of COPD patients</td>
<td>Konstantinos Kostikas (Ioannina, Greece)</td>
<td>Ioannina (Greece)</td>
</tr>
<tr>
<td>18:40</td>
<td>COMmunicating with Patients: our Duty</td>
<td>Jutta Beier (Wiesbaden, Germany)</td>
<td>Wiesbaden (Germany)</td>
</tr>
<tr>
<td>19:00</td>
<td>Closing remarks</td>
<td>Claudio Micheletto (S.Giovanni Lupatoto, Italy)</td>
<td>S.Giovanni Lupatoto, Italy</td>
</tr>
<tr>
<td>19:20</td>
<td>Q&amp;A</td>
<td>Claudio Micheletto (S.Giovanni Lupatoto, Italy)</td>
<td>S.Giovanni Lupatoto, Italy</td>
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### Industry Evening Symposium: IPF and COPD: close siblings or distant cousins?

**Organised by F. Hoffmann-La Roche Ltd.**

**Chairs:** Maria Molina Molina (Barcelona, Spain)

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<tr>
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<tbody>
<tr>
<td>18:00</td>
<td>Opening remarks</td>
<td>Maria Molina Molina (Barcelona, Spain)</td>
<td>Barcelona, Spain</td>
</tr>
<tr>
<td>18:05</td>
<td>Debate: IPF and COPD are distant cousins</td>
<td>Katerina Antoniou (Heraklion, Greece)</td>
<td>Heraklion, Greece</td>
</tr>
<tr>
<td>18:17</td>
<td>Debate: IPF and COPD are close siblings</td>
<td>Venerino Poletti (Forli, Italy)</td>
<td>Forli, Italy</td>
</tr>
<tr>
<td>18:29</td>
<td>Rebuttal</td>
<td>Venerino Poletti (Forli, Italy), Katerina Antoniou (Heraklion, Greece)</td>
<td>Heraklion, Greece</td>
</tr>
<tr>
<td>18:35</td>
<td>COPD - new treatment approaches</td>
<td>Claus Vogelmeier (Marburg, Germany)</td>
<td>Marburg, Germany</td>
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<td>Time</td>
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<tr>
<td>18:55</td>
<td><strong>IPF - new treatment approaches</strong></td>
<td>Luca Richeldi (Roma, Italy)</td>
<td></td>
</tr>
<tr>
<td>19:15</td>
<td><strong>Q&amp;A</strong></td>
<td>Maria Molina Molina (Barcelona, Spain), Katerina Antoniou (Heraklion, Greece), Venerino Poletti (Forlì, Italy), Claus Vogelmeier (Marburg, Germany), Luca Richeldi (Roma, Italy)</td>
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### 8C (live-streamed) Session 18:00 - 19:30

**Industry Evening Symposium: Introducing Dupilumab for the Treatment of Uncontrolled Pediatric Asthma**

*Organised by Sanofi Regeneron*

**Chairs:** Leonard Bacharier (Nashville, United States)

<table>
<thead>
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<th>Time</th>
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<tbody>
<tr>
<td>18:00</td>
<td><strong>Opening Remarks</strong></td>
<td>Leonard Bacharier (Nashville, United States), Jonathan Corren (Los Angeles, United States)</td>
</tr>
<tr>
<td>18:05</td>
<td><strong>Paediatric Asthma: An Ongoing Global Epidemic</strong></td>
<td>Jonathan Corren (Los Angeles, United States)</td>
</tr>
<tr>
<td>18:15</td>
<td><strong>Expert Commentary: Burden of Disease Extends Through Adulthood</strong></td>
<td>Leonard Bacharier (Nashville, United States), Jonathan Corren (Los Angeles, United States)</td>
</tr>
<tr>
<td>18:25</td>
<td><strong>Relieving the Burden on Children: Dupilumab Improves Asthma Outcomes</strong></td>
<td>Leonard Bacharier (Nashville, United States)</td>
</tr>
<tr>
<td>18:40</td>
<td><strong>Patient Case: Clinical Experience With Dupilumab</strong></td>
<td>Jonathan Corren (Los Angeles, United States)</td>
</tr>
<tr>
<td>18:50</td>
<td><strong>Expert Commentary: Real-World Use of Dupilumab</strong></td>
<td>Leonard Bacharier (Nashville, United States), Jonathan Corren (Los Angeles, United States)</td>
</tr>
<tr>
<td>19:00</td>
<td><strong>The Link Between Type 2 Inflammation and Uncontrolled Paediatric Asthma</strong></td>
<td>Leonard Bacharier (Nashville, United States)</td>
</tr>
<tr>
<td>19:10</td>
<td><strong>Audience Q&amp;A</strong></td>
<td>Leonard Bacharier (Nashville, United States), Jonathan Corren (Los Angeles, United States)</td>
</tr>
<tr>
<td>19:25</td>
<td><strong>Closing Remarks</strong></td>
<td>Leonard Bacharier (Nashville, United States), Jonathan Corren (Los Angeles, United States)</td>
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</tbody>
</table>

### 8H (live-streamed) Session 18:00 - 19:30

**Industry Evening Symposium: Asthma and COPD disease management: learning from the past, evaluating the present and looking to the future**

*Organised by Teva Pharmaceuticals Europe B.V.*

**Chairs:** Peter J. Barnes (London, United Kingdom)

<table>
<thead>
<tr>
<th>Time</th>
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</tr>
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<tbody>
<tr>
<td>18:00</td>
<td><strong>Welcome and opening address</strong></td>
<td>Peter J. Barnes (London, United Kingdom)</td>
</tr>
<tr>
<td>18:10</td>
<td><strong>Different decade, same problem – managing asthma and COPD in the 2020s</strong></td>
<td>Hilary Pinnock (Edinburgh (Edinburgh), United Kingdom)</td>
</tr>
<tr>
<td>18:25</td>
<td><strong>Controller therapies – why are we still facing the same challenges?</strong></td>
<td>Johann Christian Virchow (Rostock, Germany)</td>
</tr>
<tr>
<td>18:40</td>
<td><strong>Looking to the future – how could digital inhalers revolutionise the management of chronic respiratory diseases?</strong></td>
<td>Henry Chrystyn (Bingley (West Yorkshire), United Kingdom)</td>
</tr>
<tr>
<td>18:55</td>
<td><strong>Panel discussion: Working together to achieve more connected care</strong></td>
<td>Peter J. Barnes (London, United Kingdom), Hilary Pinnock (Edinburgh (Edinburgh), United Kingdom), Johann Christian Virchow (Rostock, Germany), Henry Chrystyn (Bingley (West Yorkshire), United Kingdom)</td>
</tr>
<tr>
<td>19:05</td>
<td><strong>Discussion and audience questions</strong></td>
<td>Peter J. Barnes (London, United Kingdom), Hilary Pinnock (Edinburgh (Edinburgh), United Kingdom), Johann Christian Virchow (Rostock, Germany), Henry Chrystyn (Bingley (West Yorkshire), United Kingdom)</td>
</tr>
</tbody>
</table>
### Industry Evening Mini-Symposium: Clinical and Cost Effectiveness of Autotitrating NIV for Obesity Hypoventilation Syndrome: Rise of the Machines

*Organised by Philips*

**Chairs:** Michael Polkey (London, United Kingdom)

<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>18:00</td>
<td><strong>Introduction</strong></td>
<td>Nicholas Hart (London, United Kingdom)</td>
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<tr>
<td>18:05</td>
<td><strong>Trial PICO and clinical implications</strong></td>
<td>Nicholas Hart (London, United Kingdom)</td>
</tr>
<tr>
<td>18:40</td>
<td><strong>Trial PICO and clinical implications</strong></td>
<td>Maxime Patout (Paris, France)</td>
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<tr>
<td>19:15</td>
<td><strong>Q&amp;A</strong></td>
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### Industry Evening Mini-Symposium: Choices in Asthma and COPD Care: How to Maximize Outcomes for Patients

*Organised by Orion Pharma*

**Chairs:** Eric D. Bateman (Cape Town, South Africa), Ashley Woodcock (Manchester (Greater Manchester), United Kingdom)

<table>
<thead>
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<tbody>
<tr>
<td>18:00</td>
<td><strong>Welcome</strong></td>
<td>Ashley Woodcock (Manchester (Greater Manchester), United Kingdom)</td>
</tr>
<tr>
<td>18:05</td>
<td><strong>Preventing or treating symptoms in asthma – which is better for your patient?</strong></td>
<td>Federico Lavorini (Firenze (FI), Italy)</td>
</tr>
<tr>
<td>18:20</td>
<td><strong>Good treatment outcomes in COPD: What does it take?</strong></td>
<td>Ashley Woodcock (Manchester (Greater Manchester), United Kingdom)</td>
</tr>
<tr>
<td>18:35</td>
<td><strong>Inhaler types: What’s the difference for your patients?</strong></td>
<td>Charlotte Suppli Ulrik (Virum, Denmark)</td>
</tr>
<tr>
<td>18:50</td>
<td><strong>Sustainable asthma and COPD care</strong></td>
<td>Dave Singh (Manchester, United Kingdom)</td>
</tr>
<tr>
<td>19:05</td>
<td><strong>Sustainable asthma and COPD care</strong></td>
<td>Ashley Woodcock (Manchester (Greater Manchester), United Kingdom)</td>
</tr>
<tr>
<td>19:25</td>
<td><strong>Panel discussion</strong></td>
<td>Eric D. Bateman (Cape Town, South Africa)</td>
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### Industry Virtual Channel Session

**Industry Virtual Symposium: Managing hospitalised patients with COVID-19 in the post-vaccination era: The role of antivirals**

*Organised by Gilead Sciences Europe Ltd*

**Chairs:** Tobias Welte (Hannover, Germany)

<table>
<thead>
<tr>
<th>Time</th>
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</tr>
</thead>
<tbody>
<tr>
<td>18:00</td>
<td><strong>Welcome and introduction</strong> Where are we now in the COVID-19 pandemic?</td>
<td>Tobias Welte (Hannover, Germany)</td>
</tr>
<tr>
<td>18:07</td>
<td><strong>What clinical dilemmas are pulmonologists facing?</strong></td>
<td>Elizabeth Sapey (Birmingham (West Midlands), United Kingdom)</td>
</tr>
<tr>
<td>18:17</td>
<td><strong>What are the considerations for hospitalised patients not on supplemental oxygen and at risk of severe COVID-19?</strong></td>
<td>Elizabeth Sapey (Birmingham (West Midlands), United Kingdom)</td>
</tr>
<tr>
<td>18:27</td>
<td><strong>What is the approach for patients with COVID-19 requiring supplementary oxygen?</strong></td>
<td>Andrew Ustianowski (Manchester, United Kingdom)</td>
</tr>
</tbody>
</table>
18:42  Where next in the post-vaccination era? Panel discussion
  Tobias Welte (Hannover, Germany)

18:57  Key learnings
  Tobias Welte (Hannover, Germany)
### 8G (live-streamed) Session 08:00 - 09:15

**Industry Early Morning Symposium: Your chronic respiratory disease patients – What do you know about their risk of infectious disease?**

*Organised by GSK*

**Chairs:** Javier Díez Domingo (Valencia, Spain)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:00</td>
<td>Welcome and introduction</td>
<td>Javier Díez Domingo (Valencia, Spain)</td>
</tr>
<tr>
<td>08:10</td>
<td>The shadow of pertussis in chronic respiratory disease</td>
<td>Giovanni Gabutti (Ferrara, Italy)</td>
</tr>
<tr>
<td>08:23</td>
<td>Shingles: understanding the risk and evolving prevention strategies</td>
<td>Tobias Welte (Hannover, Germany)</td>
</tr>
<tr>
<td>08:36</td>
<td>Vaccination of respiratory diseases patients – how can we increase the coverage?</td>
<td>Rosario Menendez Villanueva (Valencia, Spain)</td>
</tr>
<tr>
<td>08:49</td>
<td>Panel discussion</td>
<td>Javier Díez Domingo (Valencia, Spain), Tobias Welte (Hannover, Germany), Rosario Menendez Villanueva (Valencia, Spain), Giovanni Gabutti (Ferrara, Italy)</td>
</tr>
<tr>
<td>09:09</td>
<td>Summary and closure</td>
<td>Javier Díez Domingo (Valencia, Spain)</td>
</tr>
</tbody>
</table>

### 8H (live-streamed) Session 08:00 - 09:15

**Industry Early Morning Symposium: Keeping It Simple: Providing Precision Medicine to Adults With Severe Asthma**

*Organised by Sanofi Genzyme*

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:00</td>
<td>Predicting the Response: Using Type 2 Biomarkers to Navigate the Biologic Landscape in Adults With Severe Asthma</td>
<td>Oscar Palomares (Madrid, Spain), Enrico Marco Heffler (Milano, Italy)</td>
</tr>
<tr>
<td>08:20</td>
<td>Achieving Control Without Oral Corticosteroids: An Expert Review of Guideline-Driven Management of Adult Severe Asthma With Biologics</td>
<td>Enrico Marco Heffler (Milano, Italy)</td>
</tr>
<tr>
<td>08:30</td>
<td>The Road Ahead: Plotting the Course for Maintaining Long-Term Improvements in Adults With Severe Asthma</td>
<td>Andrew Menzies-Gow (London, United Kingdom), Oscar Palomares (Madrid, Spain)</td>
</tr>
<tr>
<td>09:00</td>
<td>Panel Discussion</td>
<td>Oscar Palomares (Madrid, Spain), Enrico Marco Heffler (Milano, Italy), Andrew Menzies-Gow (London, United Kingdom)</td>
</tr>
<tr>
<td>09:10</td>
<td>Q&amp;A</td>
<td>Oscar Palomares (Madrid, Spain), Enrico Marco Heffler (Milano, Italy), Andrew Menzies-Gow (London, United Kingdom)</td>
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### 8M Session 08:00 - 09:15

**Industry Early Morning Mini-Symposium: Tackling pulmonary disease in children and adults with cystic fibrosis: Has the paradigm shifted?**

*Organised by Vertex Pharmaceuticals (Europe) Limited*

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:00</td>
<td>Introductory animation</td>
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<tr>
<td>08:02</td>
<td>Chair’s intro: A changing landscape in cystic fibrosis (CF)</td>
<td>Silvia Gartner (Barcelona, Spain)</td>
</tr>
<tr>
<td>08:12</td>
<td>The importance of preserving CF lung function and structure from early ages</td>
<td>Marcus Mall (Berlin, Germany)</td>
</tr>
</tbody>
</table>
08:22 Monitoring lung disease: Beyond spirometry
Pedro Mondejar Lopez (Molina de Segura (Murcia), Spain)

08:32 Growing older with CF: A new paradigm for pulmonologists?
Nicholas Simmonds (London, United Kingdom)

08:42 Panel discussion and audience polling
Silvia Gartner (Barcelona, Spain), Marcus Mall (Berlin, Germany), Pedro Mondejar Lopez (Molina de Segura (Murcia), Spain), Nicholas Simmonds (London, United Kingdom)

09:12 Chair's close: A look ahead
Silvia Gartner (Barcelona, Spain)

Industry Virtual Channel Session 08:00 - 09:15

Industry Virtual Symposium: Childhood ILD (chILD): addressing the challenges
Organised by Boehringer Ingelheim International GmbH
Chairs: Matthias Griese (München, Germany)

08:00 Introduction
Matthias Griese (München, Germany)

08:05 chILD: what do we know?
Nicolaus Schwerk (Hannover, Germany)

08:20 Challenges in the management of chILD
Lisa Young (Philadelphia, United States)

08:35 InPedILD trial of nintedanib in chILD
Robin Deterding (Aurora, United States)

08:55 Panel discussion
Matthias Griese (München, Germany), Nicolaus Schwerk (Hannover, Germany), Lisa Young (Philadelphia, United States), Robin Deterding (Aurora, United States)

8A (live-streamed) Session 08:00 - 09:15

Industry Early Morning Symposium: What role will antivirals play in treating COVID-19 this winter and beyond?
Organised by Shionogi
Chairs: Andreas Johannis Karas (Ascot, United Kingdom)

08:00 Welcome & Introduction
Andreas Johannis Karas (Ascot, United Kingdom)

08:05 What do we expect to see from COVID-19 this winter and into 2023?
Santiago Moreno (Madrid, Spain)

08:30 How are antivirals best utilised to minimise the impact of COVID-19 this winter?
Yohei Doi (Toyoake, Japan)

08:55 Chair led panel discussion
Andreas Johannis Karas (Ascot, United Kingdom)

8B (live-streamed) Session 08:00 - 09:15

Industry Early Morning Symposium: Clinical Improvement as Endpoint in PAH
Organised by MSD
Chairs: Olivier Sitbon (Le Kremlin-Bicêtre, France)

08:00 Welcome and Opening Lecture:
Prognostic value of Improvement endpoints in Pulmonary Arterial Hypertension
Marius M. Hoeper (Hannover, Germany)

08:20 Multicomponent Improvement Endpoint Thresholds in Past and Current PAH Clinical Trials
Stephan Rosenkranz (Köln, Germany)
08:30 Multicomponent Clinical Improvement vs. Clinical Worsening endpoints: PROs & CONs
Olivier Sitbon (Le Kremlin-Bicêtre, France)

08:45 Round Table Q&A/discussion
Moderated by: Olivier Sitbon
Olivier Sitbon (Le Kremlin-Bicêtre, France)

09:10 Summary and Close
Olivier Sitbon (Le Kremlin-Bicêtre, France)

8J Session 08:00 - 08:45
Organised by GANSHÖRN Medicin Electronic GmbH

8K Session 08:00 - 08:45
Industry Skills Lab Workshop: A New Era in Distal Mucus Management
Organised by PhysioAssist

8K Session 10:30 - 11:15
Industry Skills Lab Workshop: Lung Cancer Diagnostic Pathway: CT with AI analysis to Bronchoscopic Diagnosis
Organised by FUJIFILM

8J Session 10:30 - 11:15
Industry Skills Lab Workshop: ARIKAYCE liposomal®: a practical guide to use
Organised by Insmed
Chairs: Roald van der Laan (Huijbergen, Netherlands), Stefano Aliberti (Milano (MI), Italy)

8H (live-streamed) Session 13:00 - 14:00
Industry Lunchtime Symposium: Can we do more for our COPD patients? New frontiers in clinical care
Organised by Chiesi Farmaceutici S.p.A.
Chairs: Leonardo Michele Fabbri (Modena, Italy)
### 8G (live-streamed)

**Session 13:00 - 14:00**

**Industry Lunchtime Symposium: Management of Pulmonary Hypertension associated with ILD: Present and Future**  
*Organised by Ferrer*

**Chairs:** Vincent Cottin (Lyon, France)

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>13:00</td>
<td>Burden of Disease and unmet needs: screening and early referral relevance</td>
<td>Juergen Behr (München, Germany)</td>
</tr>
<tr>
<td>13:15</td>
<td>The landmark INCREASE study</td>
<td>Steven D Nathan (Falls Church, United States)</td>
</tr>
<tr>
<td>13:40</td>
<td>Round table discussion: Screening of PH in ILD patients: most useful tools and ideal process</td>
<td>Juergen Behr (München, Germany), Steven D Nathan (Falls Church, United States), Vincent Cottin (Lyon, France)</td>
</tr>
</tbody>
</table>

### 8A (live-streamed)

**Session 13:00 - 14:00**

**Industry Lunchtime Symposium: Evolving concepts in the treatment of nosocomial pneumonia**  
*Organised by MSD*

**Chairs:** Despoina Koulenti (Brisbane, Australia), Tobias Welte (Hannover, Germany)

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>13:00</td>
<td>Welcome and opening remarks</td>
<td>Despoina Koulenti (Brisbane, Australia)</td>
</tr>
<tr>
<td>13:04</td>
<td>What's new since the last guideline publication?</td>
<td>Antoni Torres Martí (Barcelona, Spain)</td>
</tr>
<tr>
<td>13:22</td>
<td>What has real-world evidence taught us?</td>
<td>Ignacio Martin-Loeches (Dublin, Ireland)</td>
</tr>
<tr>
<td>13:40</td>
<td>Panel Discussion</td>
<td>Despoina Koulenti (Brisbane, Australia), Tobias Welte (Hannover, Germany), Antoni Torres Martí (Barcelona, Spain)</td>
</tr>
<tr>
<td>13:56</td>
<td>Closing Remarks</td>
<td>Despoina Koulenti (Brisbane, Australia), Tobias Welte (Hannover, Germany)</td>
</tr>
</tbody>
</table>

### 8B (live-streamed)

**Session 13:00 - 14:00**

**Industry Lunchtime Symposium: Going FURTHER: from surviving to thriving on the asthma patient journey**  
*Organised by GSK*

**Chairs:** Rob Cook (London, United Kingdom)

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>13:00</td>
<td>Welcome and opening</td>
<td>Rob Cook (London, United Kingdom)</td>
</tr>
<tr>
<td>13:05</td>
<td>Living with asthma: the patient perspective</td>
<td>Olivia Fulton (Edinburgh, United Kingdom)</td>
</tr>
</tbody>
</table>
13:15 Health literacy for better patient outcomes: fostering simple and trustful communication in respiratory healthcare
Nicole Hass (Villagarcía de Arosa/ Pontevedra, Spain)

13:25 Improving patient care and outcomes through shared decision-making: the role of motivational communication
Kim Lavoie (Montréal QC, Canada)

13:35 Live Q&A
Rob Cook (London, United Kingdom), Nicole Hass (Villagarcía de Arosa/ Pontevedra, Spain), Olivia Fulton (Edinburgh Edinburgh), United Kingdom), Kim Lavoie (Montréal QC, Canada)

8M Session  13:00 - 14:00
Industry Lunchtime Symposium: Diagnosis of Incidental CT findings: Insights on guidelines, tools and various approaches – Building on EBUS-TBNA and advancing to peripheral bronchoscopy?
Organised by Olympus Europa SE & Co. KG
Chairs : Felix J.F. Herth (Heidelberg, Germany)

13:00 Introduction to incidental CT findings and recommendations from guidelines
Felix J.F. Herth (Heidelberg, Germany)

13:10 Which tools do we already have for diagnosis?
Samy Lachkar (Rouen, France)

13:20 What do we get next?
Juliana Guarize (Milano MI, Italy)

13:30 Interactive case discussion
Felix J.F. Herth (Heidelberg, Germany), Samy Lachkar (Rouen, France), Juliana Guarize (Milano MI, Italy)

8J Session  14:00 - 14:45
Slebos, Dirk-Jan; Shah, Pallav L.
Organised by Pulmonx
Chairs : Dirk-Jan Slebos (Groningen, Netherlands), Pallav L. Shah (London, United Kingdom)

14:00 Tools to use in selecting the right patients with Severe Emphysema that would benefit most from The Zephyr Valve. Asses.
Dirk-Jan Slebos (Groningen, Netherlands)

14:10 The How-To on The Zephyr Valve treatment to ensure the expected outcomes. Target. Treat.
Pallav L. Shah (London, United Kingdom)

14:20 Practical Hands-On Session with guidance from experienced users

8K Session  14:00 - 14:45
Industry Skills Lab Workshop: Single Use Bronchoscopy— New Possibilities & Tips and Tricks
Organised by Vathin Medical
Chairs :

14:00 Fotios Sampsonas (Patra, Greece)

8C (live-streamed) Session  18:00 - 19:30
Industry Evening Symposium: New Frontiers in COPD—Where Are We Heading?
Organised by Sanofi Genzyme
Chairs : Alvar Agusti Garcia-Navarro (Barcelona, Spain)

18:00 Welcome and Introductions
Alvar Agusti Garcia-Navarro (Barcelona, Spain)
18:05 A GETomics Perspective of COPD: What Is It?
Alvar Agusti Garcia-Navarro (Barcelona, Spain)

18:15 Advances in Our Understanding of Inflammation in COPD
Stephanie Christenson (San Francisco, United States)

18:30 Knowns and Unknowns in COPD Management
MeiLan K. Han (Ann Arbor, United States)

18:50 Changing Treatment Paradigms: The Evolving Biologic Landscape in COPD
Dave Singh (Manchester, United Kingdom)

19:05 Panel Discussion
Alvar Agusti Garcia-Navarro (Barcelona, Spain), Stephanie Christenson (San Francisco, United States), MeiLan K. Han (Ann Arbor, United States), Dave Singh (Manchester, United Kingdom)

19:20 Audience Q&A
Alvar Agusti Garcia-Navarro (Barcelona, Spain), Stephanie Christenson (San Francisco, United States), MeiLan K. Han (Ann Arbor, United States), Dave Singh (Manchester, United Kingdom)

8N Session 18:00 - 19:30
Industry Evening Symposium: Non-Cystic Fibrosis Bronchiectasis: Don’t Neglect Neutrophilic Inflammation
Organised by Insmed
Chairs: Eva Polverino (Barcelona, Spain)

18:00 Welcome and Introductions
Eva Polverino (Barcelona, Spain)

18:05 Current State of Affairs in NCFBE
Eva Polverino (Barcelona, Spain), Stefano Aliberti (Milano (MI), Italy), Holly R. Keir (Dundee (Angus), United Kingdom)

18:20 Refocus on Immunity and Neutrophils in NCFBE
Holly R. Keir (Dundee (Angus), United Kingdom)

18:45 Panel discussion and Audience Q&A
Eva Polverino (Barcelona, Spain), Stefano Aliberti (Milano (MI), Italy), Holly R. Keir (Dundee (Angus), United Kingdom)

18:55 Emerging Treatments for NCFBE
Stefano Aliberti (Milano (MI), Italy)

19:15 The Future of NCFBE Management
Eva Polverino (Barcelona, Spain), Stefano Aliberti (Milano (MI), Italy), Holly R. Keir (Dundee (Angus), United Kingdom)

8A (live-streamed) Session 18:00 - 19:30
Industry Evening Symposium: Identifying Patients with Chronic Cough
Organised by MSD
Chairs: Christian Domingo Ribas (Sabadell (Barcelona), Spain)

18:00 Opening Remarks
Christian Domingo Ribas (Sabadell (Barcelona), Spain)

18:10 Mechanisms of Cough – What do we need to know to understand our patients?
Jaclyn Smith (Manchester (Greater Manchester), United Kingdom)

18:30 A patient case of chronic cough: what do the ERS guidelines say?
Alyn Hugh Morice (Cottingham, United Kingdom)

18:50 A patient case of chronic cough; learnings from a recent Canadian consensus
Imran Satia (Hamilton, Canada)

19:10 Q&A and panel discussion
Christian Domingo Ribas (Sabadell (Barcelona), Spain)
DISCUSSANT INDEX

Name, Session number
SPEAKER INDEX

Name, Presentation number

A
AGUSTI GARCIA-NAVARRO A.
AKIN S.
ALBERTO DOS ANJOS DE SOUSA C.
ALEJANDRE ALCAZAR M.
ALIBERTI S.
ALMENDROS LOPEZ I.
ALVIRA C.
AMAN J.
ANDERSON T.
ANDERSON Z.
ANDERSON G.
ANDREAC J.
ANNEM J.
ANNESI MAESANO I.
ANTO BOQUE J.
ANTONIU K.
ARNAUD C.
ASCIAR R.

B
BACHARIER L.
BACHMANN T.
BACKER T.
BAFADHEL M.
BANDIRALI B.
BANKA R.
BARBERA MIR J.
BARBETA SANCHEZ E.
BARNES P.
BARRECHEGUER FERNANDEZ M.
BARTON E.
BASOGLU O.
BATEMAN E.
BEDAWI E.
BEKK H.
BEHR J.
BEIDER J.
BELCHER F.
BENDIXEN M.
BENDSTRUP E.
BENZO R.
BEVOI B.
BERASTEGUI GARCIA C.
BEYDON N.
BHATNAGAR R.
BIBBY A.
BIEDEKER J.
BIELECKI J.
BILTON D.
BLUM T.
BLYTH K.
BOFFITO M.
BOGAARD H.
BOGAERT D.
BOKAN A.
BONELLA F.
BONTA P.
BOS L.
BOTIGROS R.
BOUCLY A.
BOULET L.
BOURDIN D.
BOYTON R.
BRACKE K.
BRAIDO F.
BRAUNLICH J.
BROCHARD L.
BROCK J.
BRUSSELLE G.
BUGALHO DE ALMEIDA A.
BURGOS RINCON F.
BURTIN C.
BUSHEL A.
B.
CADRANEL J.
CALFEE C.
CAMUS P.
CANELICA G.
CANTERO P.
CAPELLETTO E.
CARBERRY J.
CARLIN C.
CARLSTEN C.
CARLUCCI A.
CARRIER M.
CATALANO T.
CAVALERI M.
CAZZOLA M.
CHALMERS M.
CHANEY P.
CHANG A.
CHAPMAN K.
CHAPIDOU A.
CHAVANNES N.
CHIESI M.
CHI A.
CHOROSTOWSKA-WYNNIMO K.
CHOTIRMALL S.
CHOW C.
CHRISTENSEN S.
CHRISTYNS H.
CHUNG K.
CHUPP G.
CIFRIAN MARTINEZ J.
CIRILLO D.
CLARENBACK C.
CLARK V.
COLY P.
COMPTON C.
CONDRA M.
COOK R.
COOPER B.
CORRENS J.
COSTA ADAO R.
COSTELLO R.
COTTER S.
COTTUS M.
COUTURAUD F.
CROSTANI B.
CRIMI C.
CRINER G.
CRUZ A.
CUNNINGHAM-BUNLDES C.
CURROW D.
C.
DAGLI E.
DANDURAND R.
DCRUZ R.
DE BLASIO F.
DE JONGH F.
DE WEVER W.
DELCROIX M.
DEMEYER H.
DEN DEKKER M.
DENNISTON P.
DERCLE L.
DERDE L.
DETERDING R.
DI BAKERLY N.
DIAZ LOBATO S.
DIEZ DOMINGO J.
DILEKTA LIA.
DINH-XUAN A.
DINI C.
DISIDIER VICENTE C.
DJUKANOVIC R.
DOI Y.
DOLEZAL B.
DOMAGA A.
KULAWIK J.
DOMINGO RIBAS C.
DRANSFIELD M.
DRES M.
DRIEHYUS B.
DUVIERMAN M.
E
EICHHOLTZ T.
EELUND U.
EKSTROM M.
ELBORN S.
ELLA S.
ESCARRABELL.
SANGLAS J.
ESCRIBANO-SUBIAS P.
ESPOSITO S.
ESTES E.
EVANS K.
EVANS R.
EVERAERTS S.
EVREN E.
F
FABBI L.
FAH Y.
FAIBISCHEW PRADO G.
FAILA K.
FALSTER C.
FANER CANET R.
FARRÉ VENTURA R.
FAVER-VESTERAARDA I.
FAUIX B.
FERINI S.
FERNANDEZ TENA A.
FERRAROTTI I.
FESCHENKO Y.
FIRSOVA A.
FITZGERALD D.
FOWLER S.
FRANKLIN M.
FRASER E.
FREGONEZE L.
FREUND Y.
FROIDEURE A.
FULTON O.
G
GABUTTI G.
GAGA M.
GAINE S.
GAPPA M.
GARABELLI B.
GARCIA COSIO PIQUERAS F.
GARTNER S.
GEVAERT P.
GIBELLINI L.
GIPOB S.
GILLET L.
GIOVAGNOI M.
GLEESEON F.
GLOCKENHAMMER-TIMM D.
GOCHICOA RANGEL L.
GOEMINNE P.
GOMPPELMANN D.
GONZALEZ BERMEJO J.
GOPALAN D.
GOSENS R.
GRIECO D.
GRIESE M.
GROTE L.
GUARIZE J.
H
HABIB G.
HAIZADEH N.
HALL C.
HALIFAX R.
HALPIN D.
HAMELMANN E.
HAMMAD H.
HAN M.
HANSEN K.
HARDAVELLA G.
HARRISON S.
HART N.
HASS N.
HAWORTH C.
HEANEY L.
HECKER M.
HEDNER J.
HEFFLER E.
HEINRICH R.
HENNINK M.
HERNANDEZ R.
HERTH F.
HETZEL J.
HEUNKS L.
HIGGINSON L.
HILDEBRAND J.
HILLMAN T.
HOEPER M.
HOFFMANN-VOLD A.
HOLLAND A.
HOLMES E.
HOMSY J.
HOSEY M.
HOWARD L.
HOWARTH P.
HUMBERT M.
HURST J.
I
IDZKO M.
IQBAL B.
J
JACK S.
JAKSCH P.
JANES S.
JANSON C.
JANSSEN J.
JANSSENS J.
JARVIS S.
JAVAHERI S.
JENKINS C.
JENY F.
JEVNIKAR M.
JIMENEZ CASTRO D.
JOHNSON M.
JOLLEY C.
JONES S.
JONES S.
JONES T.
JOOS G.
K
KAHLLMANN V.
KALKMAN J.
KANTAR A.
KAPPELLOS T.
KARAGIANNIDIS C.
KARAS A.
KATSIAOUNO P.
KEIR H.
KEILY D.
KLOPEDERSEN B.
KLION A.
KLUGE H.
KNYEBER M.
KOCKS J.
KOLB M.
KONTOGIANNIS K.
KOREVAA D.

KOSTIKAS K.
KOULENTI D.
KOVACS G.
KRAFT M.
KREUTER M.
L
LACHKAR S.
LAMBRECHT B.
LANGE C.
LANGER D.
LANKEIT M.
LAROUAMGNE DUMETRE S.
LATZ P.
LAVENEZIANA P.
LAVOIE K.
LAVORINI F.
LEE G.
LEHTIMAKI L.
LEISMAN D.
LEVETT D.
LEVY R.
LEWNARD N.
LEWTHWAITE H.
LEX C.
LIBERT Y.
LICHTBLAUM M.
LICKAI C.
LIPMAN P.
LLOYD J.
LO D.
LOEBINGER M.
LOMBARDI C.
LOMBARDI E.
LOUIS R.
LOUKIDES S.
LOWE D.
LUCCHI M.
LUCKEN M.
LUNDBERG I.
M
MAGLIONE P.
MAHER T.
MAKONGA-BRAAKSMA J.
MAKRAM E.
MALHOTRA-KUMAR S.
MALL M.
MALPASS A.
MANGIAPAN G.
MARONE G.
MARTINEZ F.
MARTINEZ GARCIA M.
MARTIN-LOECHES E.
MASELLI D.
MASCHEL N.
MATHIOUDAKIS A.
MATTHAY M.
MATUCCI A.
MAZIERES J.
AUTHOR INDEX

Name, Abstract number

A

A ABDELFAHAT R.
A FONSECA J.
A LEHTIMAKI L.
A LEWIS R.
A POPOV T.
A STEMPEL D.
A TORRES-DUQUE C.
A AKDIS C.
A DOS SANTOS E.
A LEICK E.
A LOTUFO P.
A MENDES M.
A R. BRANDAO-RANGEL M.
A RIBEIRO J.
A RODRIGUEZ D.
A TORRES-DUQUE C.
A WUTYS W.
A B. WARK P.
A RAZAK H.
A TORRES-DUQUE C.
A W. M. TIDDENS H.
AAGARD R.
A AKEBOY L.
A AAKKO J.
A ALDEREN .
A ALLOKEN T.
A ALONTEN V.
A ANELAND H.
A ANERUD M.
A ABACOPD STUDY GROUP T.
ABAD J.
ABAD J.
ABAD CAPA J.
ABAD CHAMORRO L.
ABADÍA C.
ABADÍA MOLINA C.
ABADIR P.
ABALI H.
ABANTO M.
ABASLI L.
ABATTISTA L.
ABD AZIZ Z.
ABD RAHIM .
ABD RAZAK R.
ABDALLAH S.
ABDALLAH S.
ABDEL-AZIZ A.
ABDEL-AZIZ A.
ABDEL-AZIZ M.
ABDEL-AZIZ M.
ABDEL-FAHAT A.
ABDEL-FAHAT R.
ABDELJAHNY M.
ABDELKABIR A.
ABDELKEBIR A.

ABDELKEFI M.
ABDELLEHAB S.
ABDELMADIN M.
ABDELMAGID A.
ABDELNOUSH H.
ABDELRAHMAN M.
ABDERRAHMAN A.
ABDULAZIZ ABDEL.
ABDULAZIZ ABD.
ABDULAZIZ AHMAD.
ABDULAZIZ M.

ABDENADHER .
ABDENADHER M.
ABDENADHER M.
ABDENESSI S.
ABDELLAKI A.
ABDESSALEM H.
ABDI A.
ABDO M.
ABDRAIEVA A.
ABDUGANIEVA E.
ABDUKHALIL S.
ABDUL JABBAR A.
ABDUL KADIR R.
ABDUL KASIM MOHAMMAD M.
ABDUL RAHMAN J.
ABDUL RANI M.
ABDUL SAMAD A.
ABDULAII R.
ABDULLAH A.
ABDULLAH Q.
ABDULQAWI R.
ABDURRAHMAN Y.
ABE M.
ABEL F.
ABELLAN A.
ABELLEIRA R.
ABEYRAETHA D.
ABID N.
ABID S.
ABID W.
ABIG K.
ABIMUSA A.
ABIR H.
ABISHEGHANADEN J.
ABMA W.
ABO K.
ABO R.
ABO E-MAGD G.
ABOELHASSAN A.
ABOKLAISH A.
ABO-LEYAH H.
ABOUBAKHEM F.
ABOUELASSR SALAMA S.
ABOZID H.
ABRAHAM D.
ABRAHAM T.
ABRAHAM T.
ABRAHAMS A.
ABRAHAMS R.
ABRAM S.
ABRAMS E.
ABRAMSON M.

ABREU AGUIAR M.
ABRISHMISHIAN L.
ABRIE E.
ABUBAKAR A.
ABUBAKAR A.
ABUBAKAR I.
ABU-HILU N.
ABUSAMRA R.
ACAR M.
ACASSAT S.
ACCORDINI S.
ACEBO P.
ACERANTI .
ACEREDO-PRADO A.
ACHAIAH A.
ACHARD P.
ACHARYA A.
ACHILLE A.
ACHIT H.
ACIBAL K.
ACKERMANN M.
ACOSTA C.
ACOSTA FERNANDEZ O.
ACOURT C.
ADA V.
ADALEN S.
ADAM L.
ADAM M.
ADAM O.
ADAM S.
ADAMS L.
ADAMS M.
ADAMS N.
ADAMS W.
ADAMSON S.
ADAO R.
ADASME R.
ADCOCK I.
ADCOCK I.
ADDAL A.
ADDAS J.
ADEB P.
ADEGEBE B.
ADEGBE D.
ADEGINA K.
ADEJUMO I.
ADEL M.
ADELEAIDE L.
ADEMIAH TURAL D.
ADHIKARI T.
ADJA U.
ADIL F.
ADIL M.
ADIR Y.
ADLER H.
ADMETTLÖ M.
ADMETTLÖ PAPIOL M.

ADNAN G.
ADNER M.
ADOCK I.
ADRIE C.
AELBRECHT C.
AERTS G.
AERTS J.
AERTS J.
AERTS R.
AEUMUTURAPAT S.
AFFERI N.
AHITINOS A.
AFIF H.
AFIF M.
AFONSO M.
AFONSO BADARÓ MARQUÉS C.
AFRAZI M.
AFEIXO V.
AFINOS A.
AFZAL S.
AFZAL W.
AGAMI A.
AGAPITOU T.
AGAR M.
AGARVAL D.
AGARVAL R.
AGARVAL S.
AGAKOU M.
AGELL C.
AGGELPOULOULO A.
AGGELPOULOULO C.
AGUIS T.
AGLE M.
AGMY G.
AGMY G.
AGNANDJI S.
AGOSTONI P.
AGRAWAL A.
AGRAWAL R.
AGRAWAL R.
AGUADO S.
AGUADO AGUADO M.
AGUADO IBANEZ S.
AGUAS M.
AGUDELO-ROMERO P.
AGUERO-VELILLA A.
AGUERO CARLO J.
AGUAR P.
AGUILLA M.
AGUILAR J.
AGUILAR M.
AGUILAR R.
AGUILAR PEREZ M.
AGUILAR-DURAN H.
AGUILAR-MEZA J.
AGUJIERA XIOI E.
AGUST I.
AGUSTINI F.

AHMAD A.
AHMAD H.
AHMAD K.
AHMAD K.
AHMAD N.
AHMED A.
AHMED E.
AHMED H.
AHMED H.

AKTO Y.
AKTAS B.
AKTA TAPISAZI T.
AKTER N.
AKTER S.
AKYAN SOYDA S.
AKYIL TOKGOZ F.
AKYILDIZ B.
AKYLYBEKOV A.
AKYVZULIYER GUNES S.
AL ALAM D.
AL BUTAIHI I.

AL DUHAJIB L.
AL HEILY S.
AL HELOU A.
AL MARI E.

ALABBADI G.
ALABULHADI D.

ALABED S.

ALABI A.

ALACQUA M.

ALAGESAN S.

AL-AMADER M.

ALAJMIRI M.

ALAMEERI M.

ALAMOUDI A.

ALAMI F.

ALANAZI T.

ALANDEJANI F.

ALARCÓN CEDEÑO R.

ALARD S.

ALBACAR N.

ALBANES P.

ALBANNA A.

ALBAYA-MORENO A.

ALBAYRAK N.

ALBERA C.

ALBERREET R.

ALBEREET R.

ALBERT B.

ALBERT BARBERÀ J.

ALBERTI M.

ALBERTINI C.

ALBERTINI R.

ALBI S.

ALBICINI F.

ALBLAS H.

ALBO A D.

ALBRECTSEN PAINÉ M.

ALBU G.
AUTHOR INDEX
AUTHOR INDEX

BERTOLINI F.
BERTON D.
BERTON D.
BERTONI A.
BERTONI A.
BERTUCCIO F.
BERTULIS J.
BERTZOUANIS A.
BESBES M.
BESHAYREH M.
BESLI G.
BESSMA D.
BESSMA D.
BESTRY I.
BET P.
BET P.
BETANCOURT-PEÑA J.
BETKA S.
BETTA M.
BETTANY M.
BETTEX D.
BETTINSON H.
BETTY P.
BEURNIER A.
BEUSCHLEIN F.
BEUTHER D.
BEX V.
BEYDON N.
BEYENE T.
BEYNON R.
BEZERRA S.
BEZZA E.
BEZZEGHOUD S.
BEZLI M.
BHAGWAT S.
BHAKARE M.
BHALANI M.
BHALERAO A.
BHALLA A.
BHALLA A.
BHAMANI A.
BHANDARI S.
BHARTI R.
BHARTIA B.
BHAT R.
BHATNAGAR R.
BHATRAJU N.
BHATT J.
BHATT N.
BHATT S.
BHATTACHARJEE M.
BHATTACHARYYA S.
BHATTACHARYYA B.
BHATTARAI P.
BHAVRA K.
BHAYSAR P.
BHAYSAR P.
BHINGARDEVE R.
BHONGIR R.
BHUSAL S.
BHUTANI M.
BIADENE G.
BIA AS A.
BIA EK-GOSK K.
BIANCHI A.
BIANCHI F.
BIANCHI L.
BIANCHI P.
BIANO A.
BIANO L.
BIARDELLI S.
BIASIOLI M.
BIAZ Z.
BIBAKI E.
BIBBY A.
BIBBY A.
BICA M.
BIDDISCOEM BE.
BIDDISCOEMEE B.
BIEBAECHL.
BIEIDERER J.
BIEKSIENI K.
BIELOSLUDTSVEKA K.
BIELOSLUDTSVEKA K.
BIELOSLUDTSVEKA K.
BIELSA S.
BIERI O.
BIERING SORESEN T.
BIERING SORESEN T.
BIERITZ F.
BIJUSA D.
BIFFI A.
BIGNAMFI.
BIGOT A.
BIJ DE VAATE E.
BIJELI D.
BIJENS E.
BIKDELIB.
BIKMALLA S.
BIKOV A.
BILAL H.
BILENKO N.
BILIANCI A.
BILJANA Z.
BILKEI-GORZO O.
BILLAN M.
BILLOR EI.
BILYUKOV R.
BINAY S.
BINDRABAN S.
BINGLE C.
BINGLE L.
BINGOL.
BINGOL A.
BINI F.
BINI L.
BINKOVA E.
BINNAN I.
BINNIE W.
BINTALIB H.
BIONDARO S.
BIRADAR M.
BIRAY-AVCI C.
BIRCANE D.
BIRCH H.
BIRCH R.
BIRCHARD D.
BIRKHEAD M.
BIRNHUBER A.
BIRONZO M.
BIRRELL M.
BIRRING S.
BIRRING S.
BISGA.
BISCA G.
BISCA Y.
BISCHETTI G.
BISGARDA.
BISGARDA H.
BISHOP J.
BISLIMOVSKA D.
BISP.
BITOS K.
BITTER H.
BIVOLARSKA A.
BIZA R.
BIZYMI N.
BIZYMI N.
BIZZOTTOD.
BJARNSHOLT T.
BJELAKOVIC M.
BJERG A.
BJERMER L.
BJERRUM A.
BJERRUM A.
BJORK E.
BJORKANDER S.
BJORKEIJIER H.
BJORKLUND L.
BJORKLUND S.
BJORKMAN K.
BJORNSS.
BLAUWENDRAAD S.
BLACKHAM H.
BLACKWELL D.
BLAGEV D.
BLAILEY J.
BLAIS E.
BLAIS-LECOURS P.
BLAISY M.
BLANC F.
BLANC F.
BLANCH L.
BLANCHARD A.
BLANCHARD E.
BLANCHARD M.
BLANCHET-LEGENS A.
BLANCHON S.
BLANCO I.
BLANCO R.
BLANCO-ALMAZAN D.
BLANCO-LAPICIO M.
BLANCO-APARICIO M.
BLANK N.
BLANKE O.
BLANKESITTJ.
BLANTER M.
BLASI F.
BAS SAKA K.
BLASKOVIC S.
BLAVIA I.
BLAVIA ALOY R.
BLAYAC M.
BLEECKER E.
BLEECKER E.
BLESSING A.
BLIBECH H.
BLUSTEF.
BLIZOU M.
BLOCH K.
BLOCH K.
BLOCH K.
BLOCH K.
BLOK S.
BLOMBERG A.
BLOMBERG B.
BLONDEEL A.
BLOX W.
BLUEMEK D.
BLUM T.
BLUMER S.
BLURO I.
BLYTH K.
BLYTH K.
BLYTH T.
BLYTHIN A.
BOADA M.
BOARINO S.
BOBI J.
BOBOLEA I.
BOBOLI H.
BOCCHINO M.
BOCHENEK G.
BOCK A.
BOCK A.
BOCOUM A.
BOCUET L.
BOCZKOWSKI J.
BODA B.
BODAERT G.
BODDULURI S.
BODE C.
BODE H.
BODEMER C.
BODEN E.
BODINI B.
BODNAROVA S.
BOOTGER U.
BODUROGLU K.
BOECK L.
BOEDIJONO F.
BOEJM P.
BOEKKHOFF C.
BOEL J.
BOER J.
BOERS E.
BOERS L.
BOERSMA A.
BOESCH M.
BOFFITTO.
BOGAARD H.
BOGER R.
BOGHANIM T.
BOGOEVSKA V.
BOGOMOLOV A.
BOGOS K.
BOGOT N.
BOGUS ASWSKI S.
BOYVALD AARLI B.
BOHACS A.
BOHADANA A.
BOHM P.
BOHR A.
BOIKO O.
BOISIER D.
BOISSEAU C.
BOISSEL J.
BOISSOS A.
BOJANG F.
BOJANIC S.
BOJANOWICZ W.
BOKAN D.
BOKERN M.
BOLAND A.
BOLANOS-MORALES F.
BOLBOT Y.
BOLDOGH I.
BOLLMANN A.
BOLTON C.
BOLTON C.
BOMBIE CER.
BONAGURO L.
BONAITI S.
BONATO M.
BONATTI M.
BONCI E.
BONCI F.
BONCOUR E.
BONCOORE E.
BOND-ALLISTON A.
BONDARKOVA A.
BONDUE B.
BONELLA F.
BONELLA F.
BONETTI L.
BONETTI S.
BONHIVER R.
BONIELLO E.
BONILLA ARJONA J.
BONILLA HERNAN G.
BONITO J.
BONNAL C.
BONNE R.
BONNECHER B.
BONNEFOY V.
BONNELYKE K.
BONNESEN B.
BONNET D.
BONNET M.
BONNEVIE T.
BONNAUD P.
BONNIN M.
BONNIN VILAPLANA M.
BONNINGTON J.
BONO A.
BONO F.
BONRO R.
BONROMI B.
BONOWITZ P.
BONSCHE M.
BONSIGNORE M.
BONSIGNORE M.
BONSIGNORE M.
BONSIGNORE M.
BONSIGNORE M.
BONSU K.
BONT L.
BONTA P.
BONTA P.
BONTEN M.
BONTINCK A.
BONTES K.
BONUCCCELLI C.
BOOMER J.
BOON E.
BOON M.
BOON LOW T.
BOONJINDASUP W.
BOOR P.
BORADE S.
BORAS Z.
BORASO M.
BORBERJ LAURSEN C.
BORCEA C.
BORDAG N.
BORDALLO VÁZQUEZ P.
BORDAS MARTINEZ J.
BORDE A.
BORDIJ T.
BOREKCI S.
BORELAND S.
BORELL L.
BORG M.
BORGES J.
BORGES P.
BORGHIL SILVA A.
BORGHUIS T.
BORGIA G.
BORGIMANN M.
BORJE R.
BORJE R.
AUTHOR INDEX

352

03.08.2022
AUTHOR INDEX

DOHERTY D.
DOHERTY D.
DOHERTY K.
DOIG C.
DOISNE J.
DOKE P.
DOKSIMOVSKI F.
DOLÉNC S.
DOLHINKOFF M.
DOLL S.
DOLLIVER W.
DOLMAGE T.
DOLO V.
DOMAGAA-.
DOMANDEL DEL RIO A.
DOMINELLI P.
DOMINGO C.
DOMINGO E.
DOMINGO MOREIRA J.
DOMINGO RIBAS C.
DOMINGO RIBAS E.
DOMINGOS A.
DOMINGUEZ J.
DOMINGUEZ M.
DOMINGUEZ BLASCO M.
DOMINGUEZ ORTEGA J.
DOMÍNGUEZ SANTANIELLA I.
DOMINGUEZ-ORTEGA J.
DOMINGUEZ TREJO B.
DOMINIQUE B.
DOMIS N.
DONNIK N.
DONCHIE G.
DONALDSON C.
DONALDSON G.
DONALDSON G.
DONALDSON G.
DONATELLI A.
DONATI P.
DONAY P.
DONEV S.
DONÉVA D.
DONG C.
DONGI S.
DONGO L.
DONGUIES M.
DONIZETTI R.
DONNA E.
DONELLY D.
DONELLY L.
DONELLY L.
DONELLY S.
DONOVAN A.
DONOVAN C.
DONOVAN J.
DOUTHLEGAR M.
DOOMS C.
DOORDUIN J.
DOR Y.
DORA P.
DORCA J.
DORETTO A.
DORF Müller P.
DORIS L.
DORMAN E.
DORMOY V.
DORN A.
DORN P.
DORTAS JUNIOR S.
DÓRTHO M.
DÓRTHO M.
DOS S. ZAMARIOLI L.
DOS SANTOS F.
DOS SANTOS M.
DOS SANTOS CASTRO PADILHA J.
DOS SANTOS OLIVEIRA VIANNA E.
DOS SANTOS ROCHA A.
DOSANJH D.
DOSANJH D.
DOSKALIUK B.
DOSSEN F.
DOST M.
DOTTA L.
DOUCET S.
DOUGAN C.
DOUGHERTY G.
DOUGHERTY G.
DOUGLASS J.
DOUIK EL GHALBI L.
DOUIK ELGHARBI L.
DOULI L.
DOURADO V.
DOURADO JUNIOR M.
DOUS K.
DOUSCHAN P.
DOUSOVA T.
DOUTRELEAU S.
DOWES J.
DOUZI A.
DOVE R.
DOW M.
DOWEY R.
DOWNS M.
DOWNARD J.
DOYEN M.
DOYLE C.
DOYLE J.
DOYLE L.
DRAGANSKI B.
DRAGIC D.
DRAGONIER S.
DRAKATOS P.
DRAANGE ROKSUND O.
DRANSFIELD M.
DRANSFIELD M.
DRAPER A.
DREANO E.
DREHER M.
DREGENES C.
DRESCHER F.
DREYER N.
DRICK N.
DRIDI A.
DRISCOLL T.
DRIVA S.
DROBNIEWSKI F.
DROLLAS A.
DROMANN D.
DRUMÉZ E.
DRUMMONDB.
DRUMMONDM.
DRUMMONDP.
DRUMMONDS.
DRUMMONDSL.
DRYSDALE M.
DU J.
DUS.
DUS.
DU BERRY C.
DU MEE A.
DUAN E.
DUarte D.
DUarte M.
DUarte P.
DUarte T.
DUarte DE ALMEIDA V.
DUarte DOS SANTOS OLIVEIRA RODRIGUES J.
DUarte MIRANDA S.
DUarte-SALLES T.
DUBBELDAM A.
DUBEY C.
DUBIK P.
DUBINI A.
DUBITSKAYA O.
DUBON F.
DUBOWITZ D.
DUBUS J.
DUBUS J.
DUCWORTH A.
DUCOIN H.
DUDBRIDGE F.
DUDKIN E.
DUDNYK V.
DUFFY D.
DUFFY E.
DUGAS M.
DUGGAL M.
DUH M.
DUULTS J.
DUUVELAAR E.
DUITMAN J.
DUIVERMAN M.
DUJARDIN S.
DULCEY L.
DUMAS M.
DUMAS O.
DUNINY—LUPPI D.
DUMISTRACEL M.
DUMITRAT S.
DUMONT P.
DUNACHI S.
DUNCAN C.
DUNCAN S.
DUNGU A.
DUNGWA J.
DUNNIKIN M.
DUONG A.
DUONG M.
DUPIN C.
DUPIN I.
DUPIN M.
DUPONT L.
DUPONT L.
DUPUIS C.
DURAIKANNU C.
DURAN X.
DURAN BARATA D.
DURAN JORDA X.
DURAN L.
DURDIK P.
DURÉN P.
DURÁN G.
DURheim M.
DURHEIM M.
DURKIN L.
DURMADZ D.
DURNA Z.
DURRINGTON C.
DURUSSAUX M.
DURUTÜRK N.
DUSART C.
DUSEK L.
DUSÉR R.
DUTHO W.
DUVOIR A.
DVORACEK M.
DWABAKANATH A.
DWTIEK D.
DWOINICZAK B.
DWORSKY A.
Dwyer T.
DYAHOVETS K.
DYSBOWSKA M.
DYHRE-PETERSEN N.
DYRBU M.
DYRMAN ALSTED S.
DYT SYAKOVSKA Y.
DZIAN A.
DZIEDZIC D.
DZIEDZIC M.
DZIETKO M.
DZIUBLIK Y.
DZUBUR F.
DZUBUR F.
E.
E BARKER R.
E PEEPER F.
E WECHSLER M.
E MCDONOUGH J.
E SCHIZA S.
E VAN RAEMDONCK D.
E. VERLEDEN S.
E. WHEELOCK C.
E. PEFFER F.
EADEN J.
EAGAN T.
EAGAN T.
EAGAN T.
EAPEN M.
EARN L.
 EASTON F.
 EASTON N.
 EAVES A.
 EBADI Z.
 EBATO T.
 EBBERS W.
 EBERT T.
 EBIHARA S.
 EBIHARA T.
 EBRAMH H.
 ECHAIDE M.
 ECHAVARRIA C.
 ECHAVARRIA GUERRERO E.
 ECKELMAN B.
 ECKERT D.
 ECKERT J.
 ECKIHardt S.
 ECONOMOU N.
 EDAKUNI N.
 EDARA M.
 EDDAOUDI A.
 EDEY A.
 EDRIS A.
 EDUARDO NERY L.
 EDWARDS C.
 EDWARDS C.
 EDWARDS C.
 EDWARDS L.
 EDWARDS L.
 EDWARDS M.
 EDWARDS S.
 EEFFTENS M.
 EELLIOT C.
 EFFTING T.
 EFSTATHIOU C.
 EGE M.
 EDELUNG G.
 EGENLAUF B.
 EGENOD T.
 EGER K.
 EGEsten A.
 EGGLELING S.
 EGGENKEMP L.
 EGHOLM G.
 EGNATIA GROUP S.
 EGodgADE T.
 EHYA H.
 EICHSTADT C.
 EICHSStADT C.
 EICHELBERG O.
 EICKMEIER O.
 EID H.
 EIJUKERANS M.
 EELS R.
 EINARSSON G.
 EINARSSON U.
 EIROS BACHILLER J.
 EISENBERG I.
 EISENHAWER C.
 EISENHEUT M.
 EISENMA  S.
 EIIYA T.
 EIZAGUIRRE S.
 EIZAGUIRRE ANTON S.
 EJAZ T.
 EJAZI A.
 EKANAYAKE L.
 EKAWATI D.
 EKEOWA U.
 EKERLING J.
 EKHELJKAR S.
 EKEKLENKAMP M.
 EKLOF J.
 EKOFF H.
 EKOMONDOU E.
 EKSTROM M.
 EKSTROM S.
 EKVAL HANSSON E.
 EL EUCH A.
 EL FEKHI L.
 EL FIDHA S.
 EL GHOL J.
 EL GUESBY Z.
 EL GUESBY Z.
 EL HACHEM DEBEK A.
 EL HADDAD I.
 EL HAFIDI N.
 EL HENNY A.
 EL HUSSEINI K.
 EL JAMMAL T.
 EL JERRAY I.
 EL KARAK F.
 EL KHAATTABI W.
 EL KIK A.
 EL MAALEL O.
AUTHOR INDEX
AUTHOR INDEX

IRSHAD S.

IRVING L.

ISA S.

ISAAC B.

ISAAC R.

ISABELLE V.

ISACHEN M.

ISAeva E.

ISAKSSON J.

ISCAR URRUTIA M.

ISCHAKI E.

ISENSEE F.

ISHAQUE N.

ISCHAKI E.

ISLAM M.

ISMAIL-KOCH H.

ISMAIL N.

ISMAIL KOCH H.

ISMA'IL S.

ISMAIL N.

ISMAIL N.

ISMAIL S.

ISMAIL KOCH H.

ISMAIL KOCH H.

ISLAM M.

ISLEKEL G.

ISHI A.

ISHIDA A.

ISHIDA H.

ISHIDA T.

ISHIGAKI H.

ISHIDA A.

ISHIDA A.

ISHIDAKA H.

ISHI M.

ISHII T.

ISHII T.

ISHIDA A.

ISHIDA T.

ISHIDA A.

ISHIDA T.

ISHIDA H.

ISHIDA T.

ISHIDA T.

ISHIDA T.

ISHIDA T.

ISHIDA T.

ISHIDA T.

ISHIDA T.

ISHIDA T.

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ISHIDA T.

ISHIDA T.

ISHIDA T.

ISHIDA T.

ISHIDA T.

ISHIDA T.

ISHIDA T.

ISHIDA T.

ISHIDA T.

ISHIDA T.
AUTHOR INDEX

LINDHARDT
TOENNESEN L.
LINDHARDT
TONNESSEN L.
LINDLEY M.
LINDMARK B.
LINDNER J.
LINDNER M.
LINDNER R.
LINDO C.
LINDQVIST A.
LINDSLEY A.
LINDSTEDT S.
LINDSTROM I.
LINE K.
LINES O.
LINES S.
LINGAM R.
LINGMAN K.
LINGNAU A.
LININGER N.
LINNANE S.
LINNARSSON D.
LINZ D.
LINZENBOLD W.
LIÓ P.
LIONELLO F.
LIONETTI A.
LIONTOS A.
LIQ UMPAS D.
LIQ UMPAS D.
LIPPIETT K.
LIPS C.
LIPWORTH B.
LISCHKE R.
LISK D.
LISSPERS K.
LITING W.
LITKOWSKI E.
LITTLEMORE H.
LITVINYUK O.
LIU A.
LIU B.
LIU C.
LIU F.
LIU G.
LIU H.
LIU J.
LIU J.
LIU J.
LIU J.
LIU L.
LIU L.
LIU M.
LIU M.
LIU M.
LIU Q.
LIU Q.
LIU S.
LIU S.
LIU S.
LIU S.
LIU W.
LIU W.
LIU X.
LIU Y.
LIU Y.
LIU Y.
LIU Z.
LIU Z.
LIU Z.
LIV P.
LIVERAKOU E.
LIVERKO I.
LIVESEY A.
LIVI V.
LIVIERO F.
LIVINGTON R.
LIVI P.
LIVNAT G.
LYANAGE P.
LUBAS A.
LUBIFIC C.
LUBIFIC L.
LUCIC M.
LUCBERG H.
LUCGINEN M.
LUCGOREN M.
LUCGMAN P.
LUCA DÍAZ J.
LUGUINO O.
LUNACALE O.
LLANOS A.
LLANOS GONZALEZ A.
LLANOS JIMÉNEZ L.
LLANOS-ACKER J.
LLANOS-ACKER J.
LLATIOS R.
LOYD C.
LOYD EVANS P.
LU NELL.
LU NELL.
LUANE CASANOVES A.
LO BUE A.
LO MUZIO G.
LOÁEZA-ROMAN A.
LOBATO ASTIARRAGA I.
LOBBES H.
LOBBERG E.
LOBO R.
LOBO BERISTAIN J.
LOCATELLI F.
LOCHENIE C.
LOCOCO S.
LOCONSELLE D.
LOCOROTONDO C.
LODGE C.
LOEBLENZ L.
LOEBINGER M.
LOEBINGER M.
LOEBINGER M.
LOEPE R.
LEW S.
LOEW W.
LOEWENTHAL L.
LOFARO L.
LOFDAHL A.
LOFFLER K.
LOFITOU N.
LOFIUS D.
LOGAN D.
LOGAN N.
LOGES N.
LOH T.
LOHINAI Z.
LOLACONO N.
LOIODICE C.
LOKE T.
LØKKE A.
LØKKE A.
LOLOCI G.
LOMBARD C.
LOMBARDI C.
LOMBARDI C.
LOMBARDI D.
LOMBARDINI M.
LOMZATZSCH M.
LONDHE J.
LONDON S.
LONDONO A.
LONDY B.
LONG K.
LONG M.
LONG M.
LONG M.
LONG M.
LONCHAMPET E.
LONGO C.
LONGOBARDI S.
LONGROTH K.
LOO K.
LOOR K.
LOPE S.
LOPE S.
LOPE S.
LOPE TEIXEIRA ARRAYS M.
LOPEZ A.
LOPEZ C.
LOPEZ C.
LOPEZ I.
LOPEZ J.
LOPEZ J.
LOPEZ J.
LOPEZ L.
LOPEZ M.
LOPEZ R.
LOPEZ ALADID R.
LOPEZ-CAMPOS I.
LOPEZ-CEVANTES J.
LOPEZ-FLORES C.
LOPEZ-GAVIN A.
LOPEZ-GIRALDO A.
LOPEZ-MEIJAS R.
LOPEZ-MESEGUER M.
LOPEZ-PADILLA D.
LOPEZ-REYES R.
LOPEZ-REYNON A.
LOPEZ-SAIZ G.
LOPEZ-SEGUÍ F.
LOPEZ-SILVAREY A.
LOPEZ-VASQUEZ I.
LOPEZ-VAZQUEZ I.
LOMPERRI M.
LOPOMO N.
LORBLANCHES R.
LORD J.
LORDAN J.
LORENT N.
LORENTE M.
LORENTE GONZALEZ M.
LORENTE-GONZALEZ M.
LORENZ H.
LORENZI-FILHO G.
LORENZO MARTINEZ C.
LORENZO-DIAZ F.
LORILLON G.
L. RINCI ZI L.
LORINI F.
LORIOD S.
LOROFF N.
LOSADA-OLIVA P.
LOSANTOS GARCIA I.
LOSCANO J.
LOS CERTALES-VACAS G.
LOSKE J.
LOSTY P.
LOTAY H.
LOTUFO P.
LOUA HENRIKSEN S.
LOUGHEED M.
LOUGHEED M.
LOUGHRAN K.
LOUHAICH S.
LOUIS M.
LOUIS R.
LOUIS S.
LOUIKES S.
LOUIKES D.
LOUIKIL M.
LOUIKIL BEN ALI M.
LOUKOPOULOU P.
LOU N D A.
LOUREIRO A.
LOUREIRO C.
LOUREIRO M.
LOURENÇO A.
LOURENÇO J.
LOURIDO T.
LOUSADA N.
LOUTISI N.
LOUVARIS Z.
LOU W.
LOUZIR B.
LOVATI F.
LOVE K.
LOVERDOS K.
LOW A.
LOW N.
LOWE A.
LOWE C.
LOWE D.
LOXHAM M.
LOZANO C.
LOZANO M.
LOZANO- GARCIA M.
LOZANO- GARCIA M.
LOZANO- GARCIA M.
LOZANO-ROJAS D.
LOZAR KRIVEC J.
LOZOA GARCÍA V.
LU A.
LU D.
LU P.
LU S.
LU W.
LU Y.
LU Y.
LU Y.
LU Z.
LUA S.
LUBNOW M.
LUBREE H.
LUBRICH P.
LUC M.
LUCAS J.
LUCAS J.
LUCCA F.
LUCHERI M.
LUCIDI V.
LUCHIANI M.
LUCKE E.
LUCKE T.
LUDLOW S.
LUDVIKSDÖTTIR D.
LUECKE E.
LUEF S.
LUETH C.
LUGATO F.
LUGG S.
LUGOGO N.
LU I M.
LU I S.
LUJK B.
LUJK A.
LUIS F.
LUJ Z.
LUKASSEN S.
LULI F.
LUMBIERRES M.
LUMERTZ M.
LUNA C.
LUNA M.
LUNA CRUZ M.
LUNA LOPEZ R.
LUNA PARDO C.
LUNA RODRÍGUEZ G.
LUNARDI A.
LUNA-RODRIQUEZ L.
LUND K.
LUND M.
LUND T.
LUND KROGSGAARD-CHAWES B.
LUNDELL S.
LUNDIN S.
LUNDKVIST Josenby A.
LUNDQUIST A.
LUNDQVIST A.
LUO G.
LUO W.
LUO Z.
LUPIA L.
LUPORINI SARAIVA G.
LUPS A.
LUQMANI R.
LUQUE A.
LUQUE N.
LUQUE PAZ D.
LUSIGNANI M.
LUTAS A.
AUTHOR INDEX

MANTE S.
MANTETTI F.
MANTHE M.
MANT S.
MANTOVI S.
MANTSO T.
MANUEL A.
MANZANARES CAVI G.
MANZANARES CAVIN G.
MANZO C.
MANZETTI G.
MAO X.
MAIOU M.
MAPAKO T.
MARAIN F.
MARCOX V.
MARCOT C.
MARCOS RAMIRO B.
MARCOS P.
MARCONI E.
MARCONDES V.
MARCON A.
MARÇÔA A.
MARC-MALOVRH M.
MARCINIAK S.
MARCIANI L.
MARCHIONNI N.
MARCHI N.
MARCHETTI P.
MARCHETTI G.
MARCHETTI F.
MARCHESI G.
MARCHAL E.
MARCENAC A.
MARÇALO R.
MARC M.
MARATTA E.
MARATHE M.
MARASOVIC I.
MARÃO A.
MARAIM F.
MAPAKO T.
MAO X.
MANZETTI G.
MARQUES A.
MARON B.
MARLOW R.
MARASOVIC I.
MARÃO A.
MARAIM F.
MAPAKO T.
MAO X.
MANZETTI G.
MARQUES A.
MARON B.
MARLOW R.
MARASOVIC I.
MARÃO A.
MIGUERES N.
MIHAI A.
MIHAI C.
MIHAIICUTA S.
MIHALTAN F.
MIHALTAN F.
MIHIOU Lu. S.
MIHEL I D.
MIHEL I KORTE D.
MIUKOSKI D.
MIKOLKA P.
MIKOV I.
MIKUNI H.
MIKOV I.
MIKOLA P.
MIKOLKA P.
MIJAKOSKI D.
MIJACIUSKOS S.
MIKUNI H.
MIKOV I.
MIKOLA P.
MIKOLKA P.
MIJAKOSKI D.
MIJACIUSKOS S.
MIKUNI H.
MIKOV I.
MIKOLA P.
MIKOLKA P.
MIJAKOSKI D.
MIJACIUSKOS S.
MIKUNI H.
MIKOV I.
MIKOLA P.
MIKOLKA P.
MIJAKOSKI D.
MIJACIUSKOS S.
MIKUNI H.
MIKOV I.
MIKOLA P.
MIKOLKA P.
MIJAKOSKI D.
MIJACIUSKOS S.
MIKUNI H.
MIKOV I.
MIKOLA P.
MIKOLKA P.
MIJAKOSKI D.
MIJACIUSKOS S.
MIKUNI H.
MIKOV I.
MIKOLA P.
MIKOLKA P.
MIJAKOSKI D.
MIJACIUSKOS S.
MIKUNI H.
MIKOV I.
MIKOLA P.
MIKOLKA P.
MIJAKOSKI D.
MIJACIUSKOS S.
MIKUNI H.
MIKOV I.
MIKOLA P.
MIKOLKA P.
MIJAKOSKI D.
MIJACIUSKOS S.
MIKUNI H.
MIKOV I.
MIKOLA P.
MIKOLKA P.
MIJAKOSKI D.
MIJACIUSKOS S.
MIKUNI H.
MIKOV I.
MIKOLA P.
MIKOLKA P.
MIJAKOSKI D.
MIJACIUSKOS S.
MIKUNI H.
MIKOV I.
MIKOLA P.
MIKOLKA P.
MIJAKOSKI D.
MIJACIUSKOS S.
MIKUNI H.
MIKOV I.
MIKOLA P.
MIKOLKA P.
MIJAKOSKI D.
MIJACIUSKOS S.
MIKUNI H.
MIKOV I.
MIKOLA P.
MIKOLKA P.
MIJAKOSKI D.
MIJACIUSKOS S.
MIKUNI H.
MIKOV I.
MIKOLA P.
MIKOLKA P.
MIJAKOSKI D.
MIJACIUSKOS S.
MIKUNI H.
MIKOV I.
MIKOLA P.
MIKOLKA P.
MIJAKOSKI D.
MIJACIUSKOS S.
MIKUNI H.
MIKOV I.
MIKOLA P.
MIKOLKA P.
MIJAKOSKI D.
MIJACIUSKOS S.
MIKUNI H.
MIKOV I.
MIKOLA P.
MIKOLKA P.
MIJAKOSKI D.
MIJACIUSKOS S.
MIKUNI H.
MIKOV I.
MIKOLA P.
MIKOLKA P.
MIJAKOSKI D.
MIJACIUSKOS S.
MIKUNI H.
MIKOV I.
MIKOLA P.
MIKOLKA P.
MIJAKOSKI D.
MIJACIUSKOS S.
MIKUNI H.
MIKOV I.
MIKOLA P.
MIKOLKA P.
MIJAKOSKI D.
MIJACIUSKOS S.
MIKUNI H.
MIKOV I.
MIKOLA P.
MIKOLKA P.
MIJAKOSKI D.
MIJACIUSKOS S.
MIKUNI H.
MIKOV I.
MIKOLA P.
MIKOLKA P.
MIJAKOSKI D.
MIJACIUSKOS S.
MIKUNI H.
MIKOV I.
MIKOLA P.
MIKOLKA P.
MIJAKOSKI D.
MIJACIUSKOS S.
AUTHOR INDEX

PRIMICERI C.
PRIMROSE D.
PRINCE N.
PRINCIPE S.
PRIX I.
PRIZZI T.
PRIOR H.
PRIOR T.
PRIOR T.
PRIOU P.
PRISCIANDARO E.
PRISK G.
PRITCHARD J.
PRIYA A.
PRIYA A.
PRJAVORAC B.
PRJAVORAC I.
PRJAVORAC L.
PROBETS J.
PRODINGER G.
PRODISTEANU A.
PROEVAUX P.
PROENÇA N.
PRODI STEANU A.
PROHASKA B.
PRIYA N.
PRIYA N.
PRITCHARD J.
PRISCIANDARO E.
PRIOU P.
PRIOR T.
PRIOR T.
PRIOR H.
PRINZ I.
PRINZIS T.
PRINU C.
PRIRITSCH P.
PRJAVOSSA S.
PRJAVOSSOVA S.
PRJAVOSSOVA S.
PRJAVOSSOVA S.
PRJAVOSSOVA S.
PRJAVOSSOVA S.
PRJAVOSSOVA S.
PRJAVOSSOVA S.
PRJAVOSSOVA S.
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PRJAVOSSOVA S.
PRJAVOSSOVA S.
PRJAVOSSOVA S.
PRJAVOSSOVA S.
PRJAVOSSOVA S.
PRJAVOSSOVA S.
PRJAVOSSOVA S.
PRJAVOSSOVA S.
PRJAVOSSOVA S.
PRJAVOSSOVA S.
ROHDE C.
ROHANI-MONTEZ C.
ROHAN R.
ROH Y.
ROGLIANI P.
ROGLIANI P.
ROGGERI D.
ROGGERI A.
ROGER J.
ROGER I.
ROGER A.
ROGDE A.
ROESLER Z.
ROESL R.
ROESLER Z.
ROESLER Z.
ROESLER Z.
ROESS M.
ROGD E.
ROHDE C.
ROHDE G.
ROHDE M.
ROHDE S.
ROHRM J.
ROHR K.
ROHRS E.
ROIG A.
ROJAS L.
ROJAS M.
ROJAS-SERRANO J.
ROJO-TOLOSA S.
Rokach A.
Rokka C.
RokSund O.
Roksund O.
ROLA P.
ROLAND D.
ROLAND NICAISE P.
ROLANDSSON ENS E.
Roldán A.
Roldán N.
Rolland-Debord C.
Roló SIlstretE C.
Romaognoli M.
Romaognoli S.
RomaN A.
RomaN A.
Róman RODRÍGUEZ
RomaNCO. M.
RomaNCO. C.
RomaNou V.
Romberg K.
Romei C.
Romero D.
Romero ANDUIAR F.
Romero LINARES A.
Romero MESONES C.
Romero ORTIZ A.
Romero PALACIOS P.
Romero PALACIOS P.
Romero RIBATE D.
Romero ROS.
Romero-FERNANDEZ R.
Romero-LINARES A.
RóMHL DAVIDSEN M.
ROMIGI A.
RomME E.
RonMárK E.
RonN C.
RonNoW S.
Ronsholt F.
RonSMan S.
Roodenburg S.
Rossi M.
Roostalu U.
RopChan J.
ROQUE D.
ROQUE G.
ROQUE M.
ROQUILL Y A.
ROSA G.
ROSA G.
ROSA J.
ROSA DA SILVA A.
RoaSALe FUENTE S.
RosaNI U.
RosaRIO N.
RosaS L.
RosaS TARACO A.
RosaS TRUJILLO A.
RosaS-TRUJILLO A.
Rosche M.
Rose J.
Rose M.
Rose M.
Rose S.
Rossell A.
Rossell GRATACOS A.
Rosenberg C.
RosenDahl E.
RosenDo L.
Rosenfeld M.
Rosenfeld N.
RosenGARDEN D.
RosenGREN S.
RosenKranz S.
Rosenthall S.
RosetI S.
Rosi E.
RosMark O.
Ross E.
Rossel A.
Rossi A.
Rossi F.
Rossi I.
RossokHz a.
Rossolini G.
Rossor A.
RozkonS-ki- Li K.
Rotaru-COJOCARI D.
RotevatN A.
Roth L.
Roth M.
Roth C.
Rothfuss K.
Rothman A.
Rothman A.
Rothnie K.
Rothnie K.
Rotrek L.
Rotter J.
RouabHia M.
RouATi B.
Rouhraz H.
RouIS H.
RouKa E.
Roukas K.
Rouki V.
RouMila M.
RouSSEL J.
Rouvinski A.
Roux A.
Roux J.
Roux M.
Roux P.
Rovere L.
Roviezzo F.
Rovina N.
Rovina N.
Rovira F.
Rovira N.
Rovira-Amigó S.
Rowe A.
Rowe P.
Rowe P.
Roy K.
Roya-Pabon C.
RoyeCa R.
Royuela A.
Rozej K.
RozenBergEN D.
Rozman A.
Rozo BedoYa C.
RozY A.
RozY A.
Ruano A.
Ruaro R.
Rubak S.
Rubin B.
Rubin A.
Rubin J.
Rubini P.
Rubino A.
Rubinos CuadraDo G.
Rubio L.
Rucci F.
Ruchad-sparagano M.
RuckерbauEr L.
Ruckert k.
Ruckinger S.
Ruckly S.
Rudakova V.
Rudnicka L.
Rudolf L.
Rudolph A.
Rudova N.
RudzinSki P.
RuecrMote R.
Ruedlinger R.
Ruffin M.
Ruffles T.
Rufo J.
Ruggeri J.
Ruggero L.
Ruggero A.
Ruggero C.
Ruickbie S.
Rugirok D.
Rutter G.
Ruy A.
Ruy E.
Ruy L.
Ruy N.
Ruy R.
Ruy S.
Ruy V.
Ruy De COgePui G.
Ruy De COgePui G.
Ruy De Miguel V.
Ruy iturriaga L.
Ruy Nunez M.
Ruy serrano de la Espada M.
Ruy Alzola I.
Ruy-canovas E.
Ruy-gonzález S.
Ruy-grosso P.
Rukhadze M.
RuklerD T.
RullanDer A.
Rumora L.
Runold M.
Rupali P.
Rupani H.
Rupfel R.
Ruppert A.
Ruscitti F.
RuscOni F.
RuscOni F.
RusSaLl A.
Russell N.
Russell P.
Russell R.
Russell R.
Russelli E.
Russo E.
Russo M.
Rusu D.
Rusu I.
Ruta S.
Rutherland E.
Rutherland R.
Rutkowska E.
Rutter M.
Ruttens D.
Rutter M.
RuttinG S.
Ruwisch J.
Ryan C.
Ryan D.
Ryan J.
Ryan M.
Ryan S.
RybkA-fra CZek A.
Ryde M.
Rydell A.
Rydell N.
Rydwik E.
Ryerson C.
Ryerson C.
Ryffel B.
RylancE* S.
Ryrsö C.
Ryrsøe C.
Ryu K.
Ryu M.
Ryynanen H.
Rzepecki P.
S
S. johns C.
S. hiestra P.
S. ingebRiGtSEN t.
S. jääkkola M.
S. PathinaYake P.
S. s. hamaguchi S.
S. SebastianC a.
S. silva B.
Sá sousa A.
Saad A.
Saad M.
Saad FarrAG N.
SaadAouli O.
SadaT S.
Sá Ei.
Sáathoff M.
Sábah T.
SáBáter TáLáveroAno G.
SáBato R.
SabeR CheriF L.
Sábil A.
Sabina S.
Sabino-silva R.
Sábol I.
Sábri O.
Sábría J.
Sábrina M.
SábrY moHamed C.
Sacco A.
Sacco T.
SáccOmanno J.
Sac-ePee j.
Sácks M.
Sácreas A.
SádaF AfzaL A.
SádaHi F.
Sádaka A.
SádatsaFavi M.
SádeGhi H.
SáderI L.
Sádiq M.
Sádiqoa G.
Sádushi-koliC r.
Sáeed M.
SáetTa M.
SáEy D.
Sáez B.
Sáez gimenez B.
Sáez lopez M.
SALAMEH M.
SALAS C.
SALAZAR A.
SALCEDO LOBERA E.
SALDANHA M.
SÁLE S.
SALEM I.
SALEH-GUILLÓ H.
SALEM M.
SALEM Y.
SALGADO F.
SALGADO-BENVINDO C.
SALGADO-CASTRO F.
SALGADO-FERNANDEZ M.
SALGADO-FERNANDEZ M.
SALGE J.
SALGUERO L.
SALHI B.
SALIM H.
SALIMBENE O.
SALÍM H.
SALINAS M.
SALINAS CASTILLO S.
SALILLAM R.
SALILEMI M.
SALIMISALMI M.
SALMAN D.
SALMAN H.
SALMON I.
SALOBIR B.
SALOMIDOU M.
SALONEK J.
SALORD N.
SALORD OLEO N.
SALTAGIANNI V.
SALTER B.
SALTÓN F.
SALVADO A.
SALVADOR I.
SALVADOR MAYA M.
SALVATIERRA-ESCobar M.
SALVatiERA-ESCobar M.
SALVATIERRA-ESCobar M.
SALVATORE AMORIM SORTINO J.
SALVE G.
SALVEMINI M.
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SALVI S.
SALVI Y.
SALVIONI E.
SALVIOTTI S.
SALVUCCI C.
SAMARA K.
SAMARANAYAKE C.
SAMAREH FEKRI M.
SAMARZIA M.
SAMBUFCO F.
SAMHIOTIS I.
SAMIRA M.
SAMITAS K.
SAMPEDRO.
SAMPOL SIRVENT J.
SAMPSONAS F.
SAMPSONAS F.
SAMSON A.
SAMSON M.
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SAMUEL P.
SAMUEL SANTOS E.
SAMUELS M.
SAMUTHPONGTORN J.
SAN JOSÉ ESTÉPAR R.
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SAN MIGUEL-PAGOLA M.
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SANASI G.
SANCA O.
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SANCHEZ-DE-LATORRE A.
SANCHEZ-DE-LATORRE M.
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SANCHEZ-MACHIN L.
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SANCHEZ-MONTALVA A.
SANCHEZ-MORENO C.
SANCHEZ-RAMIREZ D.
SANCHEZ-RAMOS C.
SANCHEZ-VALLE J.
SANCHO S.
SANCHO CHINESTA J.
SAND J.
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SANDA R.
SANDAL A.
SANDAU BECH C.
SandeLOWSKY H.
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SANDERS D.
SANDERSON N.
SANDIN P.
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SANDUZZI A.
SANDUZZI ZAMPARELLI A.
SANDYK R.
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Sangapalaarachchi H.
SANGUIGNOL F.
SANGUCIETTI C.
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SANTILLAN DÍAZ C.
SANTILLÁN DOHERTY P.
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SANTIS M.
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SAPON N.
SAPEY E.
SAQUE O.
SARA P.
SARACINO L.
SARAH E.
SARAJA I.
SARAIJA-ROMANHOLO B.
SARANGI B.
SARASA M.
SARASIN E.