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

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

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

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

Tag(s) : Clinical

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

00:00	**Now it is not only about cigarettes: dual, triple, multiuse of nicotine and cannabis products. What to expect (focus on lung health)** Charlotta Pisinger (Frederiksberg, Denmark)	**13**
00:30	**What we know and what we do not know about cannabis health effects: a concern for lung health?** Ellen Burnham (Aurora, United States of America)	**15**
00:45	**Behind the scenes. The public health concerns of marijuana legalization; from production to marketing and recreational use** Stanton Glantz (San Francisco, United States of America)	**16**

Pre-congress content Session 4 00:00 - 23:59

Professional development: Teaching, learning and assessments: key principles

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

Tag(s) : Clinical

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

	Applying teaching and design principles from learning theory Suzanne Schut (Maastricht, Netherlands)	**17**
	Teaching and learning for health professionals Annie Noble (Bristol, United Kingdom)	**18**
	Formative and summative assessment - Theory Robert Primhak (Sheffield (South Yorkshire), United Kingdom)	**19**
	Formative and summative assessment - Practical application Robert Primhak (Sheffield (South Yorkshire), United Kingdom)	**20**

Pre-congress content Session 5 00:00 - 23:59

Professional development: Medical writing

How to write an article

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

Tag(s) : Translational

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

	Why should we publish? Enrico Ruffini (Torino (TO), Italy)	**21**
	Structure of an article; Typology of papers; Cycle of a manuscript Gilbert Massard (Esch Sur Alzette, Luxembourg), Enrico Ruffini (Torino (TO), Italy)	**22**

Pre-congress content Session 6 00:00 - 23:59

Professional development: Leading and managing change

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

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

Why change efforts fail; Personal response to change 23
Louellen N. Essex (Wayzata, United States of America)

The planned change process: steps and guidelines 24
Louellen N. Essex (Wayzata, United States of America)

The leader as a role model; Action planning 25
Louellen N. Essex (Wayzata, United States of America)

Pre-congress content Session 7 00:00 - 23:59

Professional development: How to deal with difficult people

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

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

What makes a situation challenging? How to implement a communication approach 26
Louellen N. Essex (Wayzata, United States of America)

How to use a coping technique when communication fails 27
Louellen N. Essex (Wayzata, United States of America)

Pre-congress content Session 8 00:00 - 23:59

Professional development: Teamability: becoming an effective team leader and member

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

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

What makes a team effective? 28
Louellen N. Essex (Wayzata, United States of America)

Stages of team development: how to lead and participate effectively through emotions, behaviours and tasks 29
Louellen N. Essex (Wayzata, United States of America)

Stages of team development – Part 2; Action planning 30
Louellen N. Essex (Wayzata, United States of America)

Pre-congress content Session 9 00:00 - 23:59

Year in review: Clinical year in review

Exercise capacity and physical activity in paediatric respiratory diseases

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

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

Tag(s) : Clinical

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

00:00	**Diverging effects of premature birth and bronchopulmonary dysplasia on exercise capacity and physical activity: a case control study** Helge Hebestreit (Wuerzburg, Germany)	**31**
00:15	**Physical activity and asthma development in childhood: prospective birth cohort study** Marianne Eijkemans (Vught, Netherlands)	**32**
00:30	**Impaired pulmonary function and its association with clinical outcomes, exercise capacity and quality of life in children with congenital heart disease** Pascal Amedro (Montpellier, France)	**33**
00:45	**Test-retest reliability, minimal detectable change and minimal clinically important differences in the modified shuttle walk test in children and adolescents with cystic fibrosis** Tamara Del Corral Nuñez-Flores (Madrid, Spain)	**34**

Pre-congress content Session 10 00:00 - 23:59

Year in review: Scientific year in review

Mechanisms regulating lung diseases across the lifespan

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

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

Tag(s) : Translational

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

00:00	**Preterm birth effects on future lung health** Sailesh Kotecha (Cardiff (South Glamorgan), United Kingdom)	**35**
00:15	**Lifelong effects of genetic lung diseases and their origins in childhood** Mirjam Stahl (Berlin, Germany)	**36**
00:30	**Lifestyle, environmental and occupational effects on the teenage and adult lung** Sukhwinder Singh Sohal (Launceston (TAS), Australia)	**37**
00:45	**The aging lung** Silke Meiners (München, Germany)	**38**

Pre-congress content Session 11 00:00 - 23:59

Year in review: Paediatric year in review

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

Disease(s) : Paediatric respiratory diseases

Tag(s) : Clinical

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

00:00	**Cellular mechanisms of paediatric lung disease** Anne Hilgendorff (München, Germany)	**39**
00:15	**Cystic fibrosis fibrosis bronchiectasis** Keith Grimwood (Gold Coast (QLD), Australia)	**40**
00:30	**Non-cystic fibrosis bronchiectasis** Anne Bernadette Chang (Brisbane (QLD), Australia)	**41**

00:45	**Neonatology and intensive care** Theodore Dassios (Beckenham (Kent), United Kingdom)	**42**
01:00	**Paediatric asthma** Klaus Bonnelykke (Allerød, Denmark)	**43**

Pre-congress content Session 12 00:00 - 23:59

Expert view: Do we really need guidelines?

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

Disease(s) : Respiratory critical care

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

Tag(s) : Clinical

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

00:00	**Do we really need guidelines?** Nicolas Roche (Paris, France)	**44**

Pre-congress content Session 13 00:00 - 23:59

Expert view: CRISPR for dummies

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

Disease(s) : Airway diseases

Method(s) : Cell and molecular biology

Tag(s) : Translational , Basic science

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

00:00	**CRISPR for dummies** Alen Faiz (Ultimo (NSW), Australia)	**45**

Pre-congress content Session 14 00:00 - 23:59

Expert view: Microplastic in the lungs: should we be worried?

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

Disease(s) : Airway diseases

Method(s) : Epidemiology Public health

Tag(s) : Basic science

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

00:00	**Microplastic in the lungs** Frank J. Kelly (London, United Kingdom)	**46**

Pre-congress content Session 15 00:00 - 23:59

Expert view: Puzzling natures of the solitary pulmonary nodules that only the pulmonologist can solve

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

Disease(s) : Thoracic oncology

Method(s) : Imaging Surgery

Tag(s) : Clinical

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

00:00	**Puzzling natures of the solitary pulmonary nodules that only the pulmonologist can solve** Georgia Hardavella (Athens, Greece)	**47**

Pre-congress content Session 16 00:00 - 23:59

Expert view: Transbronchial cryobiopsy in diffuse parenchymal lung diseases

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

Disease(s) : Interstitial lung diseases

Tag(s) : Clinical

Target audience : Adult pulmonologist/Clinician, Clinical researcher, Medical Student, Pathologist, Physician in Pulmonary Training, Thoracic surgeon

00:00	**Transbronchial cryobiopsy in diffuse parenchymal lung diseases** Claudia Ravaglia (Forlì, Italy)	**48**

Pre-congress content Session 17 00:00 - 23:59

Expert view: The role of the radiologist in the multidisciplinary diagnosis of idiopathic pulmonary fibrosis

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

Disease(s) : Interstitial lung diseases

Method(s) : Imaging

Tag(s) : Clinical

Target audience : Adult pulmonologist/Clinician, Pathologist, Radiologist

00:00	**The role of the radiologist in the multidisciplinary diagnosis of idiopathic pulmonary fibrosis** Johny Verschakelen (Leuven, Belgium)	**49**

Pre-congress content Session 18 00:00 - 23:59

Expert view: Managing stable, severe COPD

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

Disease(s) : Airway diseases Respiratory critical care

Method(s) : General respiratory patient care Palliative care Pulmonary rehabilitation

Tag(s) : Clinical

Target audience : Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Respiratory critical care physician, Journalist

00:00	**Managing stable, severe COPD** Leonardo Michele Fabbri (Modena, Italy)	**50**

Pre-congress content Session 19 00:00 - 23:59

Expert view: Bronchoscopy interventions in ventilated patients

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

Aims : To describe the specific risks associated with bronchoscopic interventions in ventilated critically ill patients; to assess methods available to obtain lung tissue samples from ventilated critically ill patients; and to determine categories of critically ill patients who may benefit from bronchoscopy guided lung tissue biopsy.
This session is applicable to training, including training of radiologists, respiratory critical care physicians, journalists, basic and applied scientists, and thoracic surgeons.

Disease(s) : Interstitial lung diseases | Respiratory critical care | Respiratory infections

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

Tag(s) : Clinical

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

00:00	**Bronchoscopy interventions in ventilated patients** Prashant Nemichand Chhajed (Mumbai, India)	**51**

Pre-congress content — Session 20 — 00:00 - 23:59

Expert view: Diagnosis and management of chronic fibrotic hypersensitivity pneumonitis

Aims : To present state of the art decision algorithms, based on serologic testing, the pathogenesis of lung inflammation and the development of fibrosis, in the diagnosis (laboratory, radiology, pathology) and management of patients with chronic fibrotic hypersensitivity pneumonitis: to describe subtle radiological findings that differentiate this disease from other interstitial lung diseases, such as usual interstitial pneumonia; to evaluate the pathological diagnosis of chronic fibrotic hypersensitivity pneumonitis; and to assess the efficacy of anti-fibrotic and immunosuppressive agents.

Disease(s) : Interstitial lung diseases

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

Tag(s) : Translational

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

00:00	**Diagnosis and management of chronic fibrotic hypersensitivity pneumonitis** Wim A Wuyts (Leuven, Belgium)	**52**

Pre-congress content — Session 21 — 00:00 - 23:59

Expert view: Tips and pitfalls of cardiopulmonary exercise testing

Aims : To describe the physiological basis of exercise testing and its clinical application to lung diseases; to describe the indications and protocols used in clinical settings (e.g., incremental, constant work-rate); to evaluate the utility of exercise testing in pharmacological and non-pharmacological interventions; and to describe the importance of exercise testing in patient prognosis.

Disease(s) : Sleep and breathing disorders

Method(s) : Physiology

Tag(s) : Clinical

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

00:00	**Tips and pitfalls of cardiopulmonary exercise testing** Paolo Palange (Rome, Italy)	**53**

Pre-congress content — Session 22 — 00:00 - 23:59

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

Aims : To describe the challenges faced by adolescents and young adults with asthma and their status as at risk patients; and to evaluate methods enabling adolescents and young adults to better self-manage their asthma.

Disease(s) : Airway diseases | Paediatric respiratory diseases

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

Tag(s) : Clinical

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

00:00	**Successfully managing adolescent and young adult patients with asthma** Graham Roberts (Southampton (Hampshire), United Kingdom)	**54**

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

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

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

Disease(s) : Respiratory critical care

Method(s) : Respiratory intensive care

Tag(s) : Clinical

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

00:00 **Extracorporeal life support in lung failure and lung transplant bridging: when and how** **55**
Arne Neyrinck (Leuven, Belgium)

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

Expert view: Physiotherapy in chronic respiratory infections

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

Disease(s) : Airway diseases Respiratory infections

Method(s) : General respiratory patient care Pulmonary rehabilitation

Tag(s) : Clinical

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

00:00 **Physiotherapy in chronic respiratory infections** **56**
Arietta Spinou (London, United Kingdom)

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

Expert view: Optimal treatment for multistage N2-disease

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

Disease(s) : Thoracic oncology

Method(s) : Endoscopy and interventional pulmonology Imaging Surgery

Tag(s) : Clinical

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

00:00 **The optimal treatment for multistage N2-disease** **57**
Rudolf M. Huber (Munich, Germany)

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

Expert view: From life threatening to chronic connective tissue disease-associated interstitial lung disease (CTD-ILD): all you need to know

Compare and contrast acute vs chronic CTD-ILD management

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

Disease(s) : Interstitial lung diseases Respiratory critical care

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

Tag(s) : Clinical

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

00:00	**From life threatening to chronic connective tissue disease-associated interstitial lung disease: all you need to know** Sonye Danoff (Baltimore, United States of America)	**58**

Pre-congress content Session 27 00:00 - 23:59

Expert view: Treatment in pulmonary hypertension

Aims : To describe updated treatment algorithms in pulmonary hypertension; to evaluate treatments of chronic thromboembolic pulmonary hypertension; and to determine when to treat or not to treat pulmonary hypertension.

Disease(s) : Pulmonary vascular diseases

Method(s) : General respiratory patient care

Tag(s) : Clinical

Target audience : Adult pulmonologist/Clinician, General practitioner, Medical Student, Nurse, Physician in Pulmonary Training, Thoracic surgeon

00:00	**Treatment of pulmonary hypertension** Sean Gaine (Dublin, Ireland)	**59**

Pre-congress content Session 28 00:00 - 23:59

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

Aims : This session will define Compassion Fatigue and Burnout and provide examples of symptoms and signs. Awareness training and methods for transforming these types of distress into resilience and prevention shall be provided through teaching self-care, and improving compassion cultivation skills.

Disease(s) : Respiratory critical care

Method(s) : Public health Respiratory intensive care

Target audience : Adult pulmonologist/Clinician, General practitioner, Nurse, Paediatrician, Respiratory critical care physician

00:00	**Burning up while burning out: compassion fatigue awareness and burnout prevention for practitioners** Howard Baumgarten (Lakewood, United States of America)	**60**

Pre-congress content Session 29 00:00 - 23:59

Expert view: AI: are the doctors still needed?

Aims : This session will address whether doctors are still needed due to AI development and describe AI applications in (respiratory) medicine, the main characteristics of doctors and AI, and the future of AI in (respiratory) medicine.

Disease(s) : Airway diseases Interstitial lung diseases Pulmonary vascular diseases

Method(s) : Pulmonary function testing Imaging

Tag(s) : Clinical

Target audience : Adult pulmonologist/Clinician, Clinical researcher, Medical Technical Assistant, Paediatrician, Physiologist, Medical Student, Respiratory therapist, Respiratory physiotherapist, Scientist (basic, translational)

00:00	**AI: are the doctors still needed?** Marko Topalovic (Leuven, Belgium)	**61**

Pre-congress content Session 30 00:00 - 23:59

Expert view: Common variable immunodeficiency (CVID)

Why should I care as a pulmonologist?

Aims : To identify patients with common variable immunodeficiency (CVID); to inform patient and referring physician about CVID-ILD; to manage CVID-ILD in co-operation with a specialist in immunodeficiency.

Disease(s) : Interstitial lung diseases Respiratory infections

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

Tag(s) : Clinical

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

00:00	**Common variable immunodeficiency (CVID)** Klaus Warnatz (Freiburg, Germany)	**62**

Pre-congress content Session 31 00:00 - 23:59

Expert view: Gender-based differences in drug toxicity

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

Disease(s) : Airway diseases Respiratory infections

Method(s) : Cell and molecular biology Epidemiology

Tag(s) : Basic science

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

00:00	**Gender-based differences in drug toxicity** Philippe Camus (Dijon, France)	**63**

Pre-congress content Session 32 00:00 - 23:59

Expert view: The role of patients in medicine

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

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

Tag(s) : Clinical

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

00:00	**The role of patients in medicine** Isabel Saraiva (Cascais, Portugal), Kjeld Hansen (Oslo, Norway)	**64**

Pre-congress content Session 33 00:00 - 23:59

Expert view: Genom revolution: Human Lung Cell Atlas

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

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

Method(s) : Cell and molecular biology Imaging Physiology

Tag(s) : Translational , Basic science

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

00:00	**DiscovAIR: Basic science - Human Lung Cell Atlas** Martijn C. Nawijn (Groningen, Netherlands)	**65**

Pre-congress content Session 34 00:00 - 23:59

E-poster session: Aspects of pulmonary rehabilitation: part 2

Disease(s) : Airway diseases

Method(s) : Pulmonary rehabilitation General respiratory patient care

Chairs : Alda Sofia Pires De Dias Marques (Aveiro, Portugal), Clancy Dennis (Canberra (ACT), Australia)

66	**To use or not to use – a qualitative analysis of factors associated with using or not using an electronic health (eHealth) tool among people with COPD** Sarah Marklund (Umeå, Sweden), Malin Tistad, Sara Lundell, Lina Östrand, Ann Sörlin, Carina Boström, Karin Wadell, André Nyberg
67	**Feasibility of an eHealth tool for exercise training at home for people with chronic obstructive pulmonary disease and long-term oxygen treatment** Pernilla Sönnerfors (Stockholm, Sweden), Karin Wadell, Michael Runold, André Nyberg, Alexandra Halvarsson
68	**Perceptions of the use of telemonitoring. A qualitative study in patients with chronic obstructive pulmonary disease.** Sara Lundell (Umeå, Sweden), Mari Andersson, Åsa Holmner, Karin Wadell
69	**Self-management support for asthma and airways disease – what do patients want?** Nicola Pott (Stockport, United Kingdom), Claire Somerton, Rebecca Gymer, Stephen J Fowler
70	**Assessing the caregiving experience in COPD: content validity of the Zarit Burden Interview and Caregiver Reaction Assessment** Anne-Marie Selzler (Toronto, Canada), Alda Margues, Roger Goldstein, Dina Brooks, Joana Cruz
71	**Pulmonary Rehabilitation (PR) in Cheshire and Merseyside (C&M)** Samantha Pilsworth (Liverpool (Merseyside), United Kingdom), Samantha Pilsworth, Dennis Wat, Sarah Sibley
72	**Are there common characteristics between people who drop out of Pulmonary Rehabilitation (PR) at Royal Berkshire Hospital (RBH)?** Francesca Knight (Reading, United Kingdom), Laura Cornish, Catherine Thomas
73	**Knowledge, attitudes and practices survey of pulmonary rehabilitation among chest physicians: a first national survey in Lebanon** Rebecca Farah (Bruxelles, Belgium), Wim Groot, Milena Pavlova
74	**Disease-specific knowledge in patients with COPD. A qualitative study before entering in an education program** Eleni Kortianou (Athens (Alimos), Greece), Maria Siafaka, Aspasia Mavronasou, Andreas Asimakos, Nikolaos G. Koulouris
75	**An educational program can improve specific to medication knowledge in patients with COPD** Eleni Kortianou (Athens (Alimos), Greece), Aspasia Mavronasou, Maria Koulopoulou, Maria Psylla, Andreas Asimakos, Nikolaos G. Koulouris
76	**The educational needs of people with bronchiectasis in a pulmonary rehabilitation setting** Annemarie Lee (Melbourne (VIC), Australia), Rebecca Smith, Christian Osadnik, Lucy Burr, Anne Chang, Chien-Li Holmes-Liew, Lata Jayaram, Paul King, Peter Middleton, Lucy Morgan, Tu Nguyen, Daniel Smith, Enna Stroil-Salama, Rachel Thomson, Justin Waring, Grant Waterer, Conroy Wong, Rachel Mcaleer
77	**Patients' perspectives on exposure to environmental contaminants: a missing piece in pulmonary rehabilitation?** Sara Souto-Miranda (Aveiro, Portugal), Sara Melo-Dias, Carla Valente, Célia Freitas, Ana Margarida Sousa, Ana Catarina Sousa, Alda Marques
78	**Conditions for COPD management in municipal healthcare – healthcare professionals' perspective. A qualitative study.** Sara Lundell (Umeå, Sweden), Ulla-Maija Pesola, André Nyberg, Karin Wadell
79	**SingStrong: Commmunity-based group singing for better lung health in COPD** Roisin Cahalan (Limerick (Co Limerick), Ireland), James Green, Ciara Meade

Pre-congress content — Session 35 — 00:00 - 23:59

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

Disease(s) : Airway diseases Interstitial lung diseases

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

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

80	**Home-based exercise training(HET) post-hospitalisation for acute exacerbation of COPD(AECOPD) - a mixed -method systematic review** Ruth E Barker (Aylesbury (Buckinghamshire), United Kingdom), Morag Farquhar, Lisa Jane Brighton, Claire M Nolan, Sarah E Jones, Suhani Patel, Jessica A Walsh, Jadwiga A Wedzicha, William D-C Man, Matthew Maddocks
81	**Palliative oxygen for the relief of breathlessness: a qualitative meta-synthesis** Slavica Kochovska (Sydney, Australia), Diana Ferreira, Maja Garcia, Jane Phillips, David Currow

82	**Efficacy comparison of inpatient vs outpatient pulmonary rehabilitation: a Systematic Review** Virginie Molinier (Lodève, France), Nelly Heraud, François Alexandre
83	**The role of neuromuscular electrostimulation in patients with advanced COPD included in pulmonary rehabilitation programs** Emanuela Tudorache (Timisoara (Timis), Romania), Daniel Traila, Monica Marc, Camelia Pescaru, Patricia Hogea, Noemi Porojan Suppini, Ariadna Petronela Fildan, Ovidiu Fira Mladinescu, Cristian Oancea
84	**Internet access and usage in patients with chronic respiratory disease** Oliver Polgar (Harrow, United Kingdom), Claire M Nolan, Ruth E Barker, Suhani Patel, Jessica A Walsh , William D-C. Man
85	**The Role of Diet in COPD Rehabilitation** Katalin Csicsely Károlyiné (Budapest, Hungary), Mária Kerti, Krisztina Tóth, János Varga
86	**Association between Frailty Index and BODE index with lung function and mortality in COPD** Panaiotis Finamore (Roma (RM), Italy), Simone Scarlata, Vittorio Cardaci, Francesco D'Alessandro, Raffaele Antonelli Incalzi, Matteo Cesari
87	**Pulmonary rehabilitation in COPD: influence of comorbidities on physical activity** Matthias Limbach (Bad Reichenhall, Germany), Michael Wittmann, Nicola Lehbert, Wolfgang Geidl, Johannes Carl, Klaus Pfeifer, Konrad Schultz
88	**The association between respiratory muscle function and physical activity level and exercise tolerance in patients with COPD: Preliminary results.** Tamara Michalcíková (Holesov, Czech Republic), Katerina Neumannova, Pavla Horova, Martin Dvoracek, Eva Volakova, Jaromír Zatloukal, Jan Dygrýn
89	**Intra-patient reproducibility of continuous saturation evaluation.** Francesco Bini (Pavia (PV), Italy), Bruno Bodini, Sergio Bernorio
90	**BENEFITS OF MEASURED ISOTIMING IN CONSTANT CARDIOPULMONARY EXERCISE TESTING IN A STRUCTURED PHYSICAL ACTIVITY PROGRAM** Walther Ivan Giron Matute (Madrid, Spain), Irene Milagros Domínguez Zabaleta, Gianna Vargas Centanaro, Myriam Calle Rubio, Marta Godin Vivancos, Juan Luis Rodríguez Hermosa, Javier De Miguel Diez, Luis Puente Maestu
91	**The effectiveness of early pulmonary rehabilitation in acute exacerbation of COPD in the terms of functional and systemic markers.** Janos Tamas Varga (Budapest, Hungary), Csilla Paska, Imre Barta, Maria Kerti, Zsuzsanna Kelemen, Krisztina Kelemen, Balazs Antus
92	**Point-of-care transcranial doppler in chronic obstructive pulmonary disease stable patients** ROOSEVELT SANTOS NUNES (RIBEIRAO PRETO, Brazil), Andréa Cristina Meneghini, Elizabet Sobrani, Elcio Dos Santos Oliveira Vianna
93	**Postural sway and chest wall kinematics during inspiratory loading in individuals with COPD.** Jadranka Spahija (Montréal (QC), Canada), Ahmed Imcaoudene, Manpreet Virdi, Naiana Muntini, Michel De Marchie, Joyce Fung
94	**The effect of pulmonary rehabilitation programs on physical activity level and perception of exercise in patients with chronic respiratory disease** Elif Özarı Yıldırım (Istanbul, Turkey), Ipek Özmen, Meral Karakış, Murat Öztürk, Emre Sahal, Ruya Aydın
95	**COPD patients' experience of long-term domestic oxygen-enriched nasal high flow treatment: A qualitative study.** Line Storgaard (Aabybro, Denmark), Ulla Weinreich, Birgitte S. Laursen
96	**Effect of long-acting muscarinic antagonist (LAMA) on 24-hour physical behaviours in COPD** Sarah Edwards (Leicester (Leicestershire), United Kingdom), Mark Orme, Theresa Harvey-Dunstan, Ruth Tal-Singer, Michael Polkey, Michael Steiner, Mike Morgan, Sally Singh
97	**Adapted physical activity intervention for improvement of quality of life in patients with idiopathic pulmonary fibrosis** Sergio Calvache Castillo (Jaen, Spain), Susana Herrera Lara, Martía Sandemetrio, Marta Acosta Dávila, Cristina De Juana Izquierdo, Alberto Herrejón Silvestre, Eva Martínez-Moragón
98	**DOES THE BENEFIT FROM PULMONARY REHABILITATION DIFFER BETWEEN PHENOTYPES IN COPD?** Gülru Erbay Polat (Izmir, Turkey), Melih Büyükşirin, Hülya Şahin, Aysu Ayrancı, Gülistan Karadeniz, Filiz Güldaval, Seher Susam, Fatma Üçsular, Ceyda Anar, Onur Süneçli

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

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

E-poster session: Diagnosis and management of COPD

Disease(s) : Airway diseases Respiratory critical care

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

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

100	**Variability in eosinophil levels at start of severe exacerbations of COPD** Emanuel Citgez (Wierden, Netherlands), Job Van Der Palen, Paul Van Der Valk, Huib Kerstjens, Marjolein Brusse-Keizer
101	**Frailty and Risk of COPD Readmission within 30 Days Following Exacerbation of COPD** Jaber Alqahtani (London, United Kingdom), Trixica Kapdee, Shumonta Quaderi, Abdulelah Aldhahir, Swapna Mandal, John Hurst
102	**Association between airway bacterial abundance and urinary inflammatory biomarkers in COPD** Ahmed Javid Yousuf (Oxford (Oxfordshire), United Kingdom), Vijay Mistry, Liesl Carr, Gita Parekh, Mohmmadali Yavari Ramsheh, Sarah Parker, Joanne Finch, Sarah Glover, Lynne Watson, Chris Brightling
103	**Significant parameters in CBC profiles for expecting outcomes of COPD** JUNG-KI YOON (SEOUL, Republic of Korea), Jung-Kyu Lee, Eun-Young Heo, Chang-Hoon Lee, Ho Il Yoon, Yong-Il Hwang, Chin Kook Rhee, Kwang Ha Yoo, Hee Soon Chung, Deog Kyeom Kim
104	**SERUM ?-2-MICROGLOBULIN CORRELATES WITH COPD OUTCOMES AND PREDICTS FUTURE HOSPITALIZATION.** Carlos Antonio Amado Diago (Santander (Cantabria), Spain), Armando Raúl Guerra, Mayte García-Unzueta, Juan Agüero, Sandra Tello, Marta Cristeto, Joy Osorio, Sheila Izquierdo, Guido Andretta, Karla Fabiola Escobar
105	**Influence of pneumonia on the survival of patients with COPD** Christian Reynaldo Castro Riera (Madrid, Spain), Zichen Ji, Julio Hernández Vázquez, José María Bellón Cano, Virginia Gallo González, Beatriz Recio Moreno, Alicia Cerezo Lajas, Luis Puente Maestu, Javier De Miguel Díez
106	**Younger COPD patients – the need for long-term follow-up** Iliya Krachunov (Pleven, Bulgaria), Zlatina Ivanova, Nikolay Kyuchukov, Temenuzhka Ignatova-Danova, Pavlina Glogovska, Plamen Pavlov, Tzanya Popova, Elena Borisova, Yavor Ivanov
107	**Automated telephone message service for people with uncontrolled asthma or COPD** Jayne Longstaff (Portsmouth (Hampshire), United Kingdom), Milan Chauhan, Ruth De Vos, Tom Brown, Richard Jackson, Peter Hayward, Hitasha Rupani, Anoop Chauhan
108	**Should anxiety and depression be more deeply researched in COPD?** Amaia Aramburu Ojembarrena (Galdakao, Spain), Ane Antón, Fco Javier Moraza, Leyre Chasco, Ana Jodar, Maria Gorordo, Susana Aizpiri, Jose Maria Quintana, Cristobal Esteban
109	**The 'surprise question' in patients surviving severe COPD exacerbation.** Sarah M. Gillespie (Newcastle Upon Tyne, United Kingdom), Nicholas D Lane, Carlos Echevarria, Katherine E Frew, Stephen C Bourke
110	**Copeptin predicts all-cause mortality in stable COPD: An analysis of the COSYCONET study** Sebastian Fähndrich (Freiburg, Germany), Christian Herr, Henrik Watz, Benjamin Waschki, Johanna Classen, Julia Demandt, Franziska C. Trudzinski, Albert Omlor, Frederik Seiler, Tobias Welte, Hans-Ulrich Kauczor, Rudolf A. Jörres, Claus Vogelmeier, Robert Bals
111	**Analysis of NEWS2 trend to predict risk of death in COPD** Sarah Forster (Nottingham (Nottinghamshire), United Kingdom), Tricia Mckeever, Dominick Shaw
112	**Examining the correlation between length of hospital stay and disease severity in patients with COPD** Kristina Kock Hansen (Vejle, Denmark), Lone Bach Kristensen, Ole Hilberg, Anders Løkke
113	**30-day Readmissions After Acute Exacerbations of COPD: How Relevant Are Comorbidities?** Cláudia Freitas (Villa Nova de Gaia, Portugal), Joana Dias, Pedro Leuschner
114	**Valdation study of MEP-questionnaire for detection of exacerbations (Ebs) - interim analysis** Thomas Hering (Berlin, Germany), Nils Kossack, Axel Krinner, Dietmar Bulenda

115	**Fast time estimation is associated with high levels of depression in COPD patients** Nikolay Evgeniev (Ruse, Bulgaria), Nikolay Conev, Rumelia Nikolaeva, Ivan Donev
116	**The diagnostic value of FEV6/FVC in COPD patients with severe bronchial obstruction** Iryna Nemish (Chernivci, Ukraine), Ganna Stupnytska, Oleksandr Fediv, Olga Nesterovska
117	**The effect of awareness campaigns for early detection of obstructive lung disease** Ramona Elena Nedelcu (Bucuresti, Romania), Roxana Maria Nemes, Ruxandra Ulmeanu, Florin Dumitru Mihaltan
118	**Comparison of COPD patients with and without diabetes mellitus** Nimet Aksel (Izmir, Turkey), Hulya Sahin, Ilknur Naz Gursan
119	**Predictive factors of lung function in patients with COPD and heart failure** Manuel Abraham Gómez Martínez (Mexico City, Mexico), NATHALIE MARTINEZ LUNA, Dulce Gonzalez Islas , Arturo Orea Tejeda, Yael Ramiro Gatelum Ayala, Óscar Ubaldo Martinez Reyna, Valeria Ariadna Martinez Vazquez , Ilse Perez Garcia, Martha Elena Quintero Martinez, Itzel Ameyalli Sandoval Sanchez , Leslie Verdeja Vendrell, Rocio Sanchez Santillan, Juan Jose Orozco Gutierrez, Stephanie Gisel Montoya Azpeitia

Pre-congress content — Session 37 — 00:00 - 23:59

E-poster session: Air pollution and comorbidities

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

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

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

120	**Late Breaking Abstract - COVID-19 epidemic in Respiratory Diseases Unit: partioning analysis and data mining. Results from a single Institution experience.** Giulia Maria Stella (Pavia (PV), Italy), Giulia Accordino, Amelia Grosso, Federica Albicini, Erica Gini, Silvia Mancinelli, Matteo Della Zoppa, Davide Piloni, Angelo Corsico
121	**Impact of PAHs exposure on exacerbation frequency in asthma using a new grid-scale simulation of PM2.5-PAHs distribution** Yu-Chen Huang (Taipei City, Taiwan), Te Fang Sheng, Shih-Wei Lee, Chon-Lin Lee, Kian Fan Chung, Chun-Hua Wang
122	**Prognostic value of right ventricular systolic dysfunction in patients with chronic obstructive pulmonary disease after ST-segment elevation myocardial infarction (STEMI).** Karolina Klester (Barnaul (Altay), Russian Federation), Elena Klester, Alexandra Balitskaya, Antonina Bocharova, Valeriy Elykomov
123	**Effect of COPD on immediate and long-term outcomes of STEMI.** Alexandra Balitskya (Barnaul, Russian Federation), Elena Klester , Karolina Klester , Valeriy Elykomov , Inna Weisman
124	**Dysfunctional breathing impacts symptom burden in Chronic Obstructive Pulmonary Disease (COPD).** Therese Lapperre (København NV, Denmark), Uffe Bodtger, Ditte Kjærsgaard Klein, Laurits Frøssing, Morten Hvidtfeldt, Alexander Silberbrandt, Nikolaj Obling, Leif Bjermer, Celeste Porsbjerg
125	**Is increased gastro-intestinal permeability related to exacerbation in patients with chronic obstructive pulmonary disease?** Roy T.M. Sprooten (Cadier en Keer, Netherlands), Emiel F.M. Wouters, Kaatje Lenaerts, Niki L. Reynaert, Miriam T.J. Groenen, Frits M.E. Franssen
126	**Preclinical myocardial dysfunction in healthy smokers and COPD patients** Vera Nevzorova (Vladivostok (Primorsky Krai), Russian Federation), Elena Kondrashova, Dmitriy Kondrashov
127	**Inhaled steroids and prevalence of osteoporosis in chronic obstructive pulmonary disease: Data from the DACCORD cohort** Franziska Trudzinski (Homburg (Saar), Germany), Claus F. Vogelmeier, Roland Buhl, Frederik Trinkmann, Victoria Obermoser, Peter Kardos, Carl-Peter Criée, Heinrich Worth
128	**LSC - 2020 - Could the overweight influence bronchiectasis (B) exacerbations frequency (EF)?** Kateryna Gashynova (Dnipro, Ukraine), Kseniia Suska, Kateryna Gashynova, Valeriia Dmytrychenko
129	**Can fractional exhaled nitric oxide be useful to differentiate asthma-chronic obstructive pulmonary disease (COPD) overlap (ACO) from COPD-only** SEYED MOHAMMADYOUSOF MOSTAFAVI POURMANSHADI (Montréal (QC), Canada), Nafiseh Naderi, Palmina Mancino , Pei Zhi Li , Wan Tan, Jean Bourbeau

130	**The impact of previous pulmonary tuberculosis on lung cancer development in never smoker with COPD** Hye Yun Park (Seoul, Republic of Korea), Sun Hye Shin, Danbee Kang, Hayoung Choi, Hyun Lee, Hye Kyeong Park, Hojoong Kim, Chin Kook Rhee, Kwang Ha Yoo, Juhee Cho
131	**Red Blood Cell Distribution Width as a potential predictor of Pulmonary Hypertension Secondary to Chronic Obstructive Pulmonary Disease** Sofia Rodrigues Sousa (Braga, Portugal), João Nunes Caldeira, Cidália Rodrigues, Ana Figueiredo, Fernando Barata
132	**Decreased pulmonary function tests are affected by blood glucose tolerance** Ke Huang (Beijing, China), Ting Yang, Guangwei Li
133	**Hyalyronic acid as marker of respiratory system remodelling** Vasilii Fedotov (Nizhny Novgorod, Russian Federation), Tatiana Blinova
134	**Prevalence of non-cystic fibrosis bronchiectasis in patients with severe asthma: a real-life study** Giulia Cacopardo (Palermo (PA), Italy), Claudia Crimi, Santi Nolasco, Raffaele Campisi, Lucia Spicuzza, Nunzio Crimi
135	**Influence of tobacco smoking on lipid peroxidation in exhaled breath condensate in asthma patients with exercise-induced bronchoconstriction (EIB)** Juliy M. Perelman (Blagoveshchensk (Amur Oblast), Russian Federation), Leonid G. Nakhamchen, Anna G. Prikhodko, Eugeniy A. Borodin
136	**High healthcare utilisation and functional impairment in inducible laryngeal obstruction: results from the UK national registry** Jemma Haines (Wilmslow (Cheshire), United Kingdom), Stephen J Fowler , Andrew J Simpson, Julia Selby, James H Hull
137	**HRCT features in patients with severe asthma and non-cystic fibrosis bronchiectasis.** Giulia Cacopardo (Palermo (PA), Italy), Raffaele Campisi, Claudia Crimi, Enrico Heffler, Rossella Intravaia, Santi Nolasco, Sebastian Ferri, Nunzio Crimi

Pre-congress content Session 38 00:00 - 23:59

E-poster session: Lung function tests and exhaled biomarkers

Disease(s) : Airway diseases Respiratory critical care

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

Chairs : Frederik Trinkmann (Heidelberg, Germany), Chair to be confirmed

138	**Late Breaking Abstract - Management of asthma in pregnancy using fractional exhaled nitric oxide (FENO) to adjust inhaled corticosteroid (ICS) dose did not improve perinatal outcomes: the Breathing for Life Trial (BLT)** Vanessa E. Murphy (Callaghan, Australia), Megan Jensen, Elizabeth Holliday, Warwick Giles, Helen Barrett, Leonie Callaway, Andrew Bisits, Michael Peek, Sean Seeho, Alistair Abbott, Paul Colditz, Andrew Searles, John Attia, Michael Hensley, Joerg Mattes, Peter Gibson
139	**Late Breaking Abstract - Small Airways Dysfunction (SAD) correlates with relevant asthma outcomes: longitudinal results from the AssessmenT of smalL Airways involvemeNT In aSthma (ATLANTIS) Study** Monica Kraft (Tucson, United States of America), Gabriele Nicolini, Maarten Van Den Berge, Christopher Brightling, Leonardo Fabbri, Thys Van Der Molen, Alberto Papi, Klaus Rabe, Salman Siddiqui , Dave Singh, Dirkje Postma
140	**Within-day repeatability of fractional exhaled nitric oxide in severe asthma** Ran Wang (Manchester (Greater Manchester), United Kingdom), Ran Wang, Fahad Alahmadi, Robert Niven, Stephen Fowler
141	**Real life spirometry analysis according to age groups.** ALEJANDRO REZOLA CARASUSAN (Donostia San Sebastian, Spain), Ana Gomez Larrauri, Joseba Andia Iturrate, Elena Garay Llorente, Borja Ortiz De Urbina Antia, Lorea Lorea Martinez Indart, Josep Benavent Benavent Marco, Eva Tabernero Huguet, Nuria Marina Malanda
142	**Changes in exhaled breath particles lipid composition following experimental endotoxin challenge** Olaf Holz (Hannover, Germany), Per Larsson, Heike Biller, Grielof Koster, Anthony Postle, Anna-Carin Olin, Jens M. Hohlfeld
143	**Transdiaphragmatic pressure in COPD patient and its correlation with diaphragm dynamics including spirometry findings.** Sandip Agarwal (new delhi, India), Randeep Guleria , Anant Mohan, Karan Madan, Gc Khilnani, Vijay Hadda, Gopal Chawla

144	**The relationship of spirometric and echocardiographic (ECHO) parameters in children with bronchial asthma (BA)** L.Yu. Nikitina (, Russian Federation), Nataliia POPOVA, A.T. Egorskaya, L.E. Egorskaya , A.V. Prahov, O.V. Vinogradova , S.K. Soodaeva , I.A. Klimanov , M.V. Glukhova
145	**Decreased lung function is associated with vitamin D deficiency in middle aged Korean health screening examinee** Hye Kyeong Park (Goyang-Si, Republic of Korea), Heejung Jun, Jonghoo Lee, Jae-Uk Song
146	**Feasibility of home spirometry in patients with chronic graft-versus-host disease: a prospective observational study** Jane Turner (Dundas, Canada), Chad He, Lisa Chung, Kelsey Baker, Jesse Hubbard, Elizabeth Rankin, Maggie Guerriero, Michael Boeckh, Karen Syrjala, Paul Martin, Ted Gooley, Stephanie Lee, Mary Flowers, Guang-Shing Cheng
147	**Reference values for lung clearance index (LCI) derived from sulphur hexafluoride multiple breath washout testing.** Frederik Trinkmann (Heidelberg, Germany), Máté Maros, Katharina Roth, Arne Hermanns, Julia Schäfer, Joshua Gawlitza, Joachim Saur, Ibrahim Akin, Martin Borggrefe, Thomas Ganslandt, Felix Herth
148	**Pulmonary dysfunction after treatment for childhood cancer – Comparing multiple-breath washout with spirometry** Jakob Usemann (Basel, Switzerland), Christina Schindera, Simeon Zuercher, Ruedi Jung, Rahel Kasteler, Bettina Frauchiger, Corina Silvia Rueegg, Philipp Latzin, Claudia Elisabeth Kuehni, Nicolas Xavier Von Der Weid
149	**FEV6 and FEV1/FEV6 have higher association with small airway function and oxygen saturation than FVC and FEV1/FVC in patients with asthma.** Khalil Ansarin (Tabriz, Islamic Republic of Iran), Ensiyeh Seiyedrezazadeh
150	**Predicting survival in COPD using the transfer factor for carbon monoxide Z-score** Roel Van Pel (Groningen (GR), Netherlands), T.M. Fabius, E Citgez, F.H.C. De Jongh, M Brusse-Keizer
151	**Relationship of cardiac biomarkers in COPD to exacerbation and hyperinflation** Mairi Macleod (London, United Kingdom), Gavin Donaldson, James Allinson, Dexter Wiseman, Jadwiga Wedzicha
152	**The prognostic value of extended lung function characterization in COPD** Terezia Pincikova (Uppsala, Sweden), Jens Ellingsen, Karin Lisspers, Hans Hedenström, Kristina Bröms, Björn Ställberg, Marieann Högman, Christer Janson, Andrei Malinovschi
153	**Higher levels of alveolar nitric oxide in asthmatic frequent exacerbation: a pilot study.** Francesca Bertolini (Orbassano, Italy), Rossana Fucà, Elisa Riccardi, Vitina Carriero, Andrea Sprio, Fabio Luigi Massimo Ricciardolo
154	**Normal range for bronchodilation response in impulse oscillometry parameters in healthy adults** Henrik Johansson (Uppsala, Sweden), Christer Janson , Xing Zhou, Johan Sundström, Per Wollmer, Andrei Malinovschi
155	**Prediction of peak expiratory flow of the next day through a smartphone application designed for individuals with asthma** Panagiotis Sakkatos (Southampton (Hampshire), United Kingdom), Thomas Antalffy, Natalia Pavlovskaia
156	**A systematic review of the use of physiological tests assessing the acute response to treatment during exacerbations of COPD** Nowaf Alobaidi (Birmingham , United Kingdom), Mohammed Almeshari, James Stockley, Elizabeth Sapey, Ross Edgar
157	**Activation of the cascade-system in small airways- a pilot study in asthma with small airway involvement** Anna-Carin Olin (Göteborg, Sweden), Spela Kokelj, Jörgen Östling

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

E-poster session: Unusual tools for evaluating obstructive diseases

Disease(s) : Airway diseases

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

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

158	**Do we require de-aeration of exhaled breath condensate samples for measuring pH** Dibakar Sahu (Sonipat (Haryana), India), Sajal De, Qmar Khan
159	**Non Specific Spirometric Pattern: Evolving and associations with basic data** Asma Chaker (Ariana, Tunisia), Khadija Ayed, Sahar Chakroun, Salma Mokaddem, Saloua Benkhamsa Jameleddine
160	**Significance of the forced oscillation technique for evaluation of the bronchodilation test in patients with initial mild airway obstruction** Elena M Zhukova (Novosibirsk, Russian Federation), Lyudmila Vokhminova

161	**Forced Oscillation technique and its association to airflow limitation in COPD** Léo Franchetti (Basel, Switzerland), Desiree Schumann, Michael Tamm, Daiana Stolz
162	**Severity of airway obstruction in COPD: comparison of z-score-based categorization approaches against FEV1%** Ana Gómez García (Valladolid, Spain), Tomas Ruiz Albi, Daniel Álvarez González, Fernando Moreno Torrero, Milko Daniel Terranova Rios, Carolina Urbina Carrera, Andrea Crespo Sedano, Tania Álvaro De Castro, Ana Cerezo Barqueros, Jose Ignacio Santos Plaza, Félix Del Campo Matías
163	**A novel wearable device for monitoring lung function from tidal breathing** Wieland Voigt (Berlin, Germany), Noy Danino, Nadav Bachar, Gregory Shuster
164	**Effect of smoking cessation on CT imaging in patients with COPD: a systematic review** Daryl Cheng (London, United Kingdom), Siddharth Agarwal, Joseph Jacob, John Hurst
165	**Normative data across the age range for Multiple Breath Nitrogen Washout** Katherine O'Neill (Belfast (Belfast), United Kingdom), Rebecca Mcleese, Denise Cosgrove, Kathryn Ferguson, Lorcan Mcgarvey, Judy M. Bradley
166	**Validation study of the quality of home spirometry performed by Air Next spirometer in combination with mobile coaching system: preliminary results** Athena Gogali (Ioannina, Greece), Konstantinos Exarchos, Konstantinos Bartziokas, Agni Sioutkou, Niels Agerskov, Konstantinos Kostikas
167	**Inspiratory-to-total lung capacity ratio in COPD: the missed information** Salma Mokaddem Mohsen (Tunis, Tunisia), Khadija Ayed, Asma Chaker, Soumaya Khaldi, Saloua Jameleddine
168	**Pro?ling of systemic in?ammation and glutathione metabolism in COPD** Ingrid Oit Wiscombe (Tallinn, Estonia), Alan Altraja, Ursel Soomets, Laszlo Virag, Kalle Kilk
169	**Clinical characteristics of asthma patients with small airway dysfunction** Cheng-Hao Chuang (Kaohsiung, Taiwan), Ming-Ju Tsai, Chau-Chyun Sheu, Ya-Ling Hsu
170	**Lung Clearance Index (LCI) and diffusion capacity of the lung (DLCO) in children with rheumatic disease** Julia Hildebrandt (Rostock, Germany), Anja Rahn, Anja Keßler, Fabian Speth, Dagmer-Christiane Fischer, Manfred Ballmann
171	**Assessment of oxidative stress in exhaled breath condensate of stable Chronic Obstructive Pulmonary Disease patients of Indian origin** Anjana Talwar (Noida (Uttar Pradesh), India), Geetanjali Bade, Meghashree Sampath, Karan Madan
172	**Does heart failure make a difference in pulmonary function testing?** Kostiantyn Dmytriiev (Vinnitsya, Ukraine), Nataliia Slepchenko, Yuriy Mostovoy, Nataliia Tsymbaliuk, Andrii Sidorov
173	**Development of the assessment of illness expectations in people with asthma** Francesco Pagnini (, Italy), Eleonora Volpato, Silvia Dell'Orto, Cesare Cavalera, Francesca Spina, Paolo Innocente Banfi
174	**The serum levels of the trace element Cu, Zn, Cd and Pb and progression of COPD – a preliminary study** Tanya Tacheva (Stara Zagora, Bulgaria), Elica Valkova, Yanitsa Zhelyazkova, Dimo Dimov, Vasil Atanasov, Tatyana Vlaykova
175	**Usefulness of oscillometry in the diagnosis of asthma** Elena Curto Sánchez (Barcelona, Spain), Sandra Orozco Echevarría, Paulina Trujillo, Jordi Giner Donaire, Soraya Sánchez Maza, Astrid Crespo Lessmann, Vicente Plaza Moral

Pre-congress content — Session 40 — 00:00 - 23:59

E-poster session: Clinical and basic pharmacology for COPD

Disease(s) : Airway diseases, Respiratory critical care

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

Chairs : Andrew Higham (Manchester (Greater Manchester), United Kingdom), Simon Lea (Manchester (Greater Manchester), United Kingdom)

176	**The role of phonophoresis in patients with COPD: a randomized clinical trial** Meidi Shen (changchun, China)
177	**Morphine for refractory breathlessness in COPD: a randomized clinical intervention study** Cornelia Verberkt (Maastricht, Netherlands), Marieke Van Den Beuken-Van Everdingen, Jos Schols, Niels Hameleers, Emiel Wouters, Daisy Janssen

178	**Roflumilast in severely ill patients with chronic obstructive pulmonary disease with frequent exacerbations: real-life outcomes** Jens Jensen (København Ø, Denmark), Imane Achir Alispahic, Rikke Sørensen, Josefin Eklöf , Pradeesh Sivapalan, Anders Løkke, Niels Seersholm , Jakob Hedemark Vestergaard, Christina Marisa Bergsoe,
179	**Effects of bisoprolol and nebivolol on the left ventricular diastolic function in patients (pts) with COPD and stable angina.** Oleksandr Fesenko (Slobozhanske, Ukraine), Kateryna Bohatska
180	**Omaveloxolone, CDDO-Me and Obacunone as promising therapeutic options in COPD** Cristina Estornut (Paterna, Spain), Pilar Ribera, Amparo Bayarri, Paula Montero, Julio Cortijo
181	**Effects of Bauhinia bauhinioides kallikrein proteinase inhibitor in mice with asthma-COPD** Iolanda Tibério (São Paulo (SP), Brazil), Luana Laura Sales da Silva, Jessica Anastácia Silva Barbosa, Juliana Morelli Lopes Goncalves João, Tabata Maruyama Dos Santos, Leandro Do Nascimento Camargo, Elaine Cristina De Campos, Thiago Tafarel Galli, Beatriz Mangueira Saraiva-Romanholo, Suellen Karoline Moreira Bezerra, Sara Sumie Sobral Hamaguchi, Edna Aparecida Leick, Carla Máximo Prado, Mílton De Arruda Martins, Maria Luiza Vilela Olivo, Renato Fraga Righetti
182	**Inhaled bacterial mimetic increases PAD4-dependent NETosis in the lungs** Theresa Andreasson (Mölndal, Sweden), Lina Odqvist, Susanne Arlbrandt, Cecilia Wingren, Pia Berntsson, Magdalena Rhedin, Matthew Dearman, Annika Borde, Mark Birrell, Annika Åstrand
183	**Genetics of response to sustained-release morphine for chronic breathlessness - an exploratory study** Diana Ferreira (Adelaide (SA), Australia), Diana Ferreira, Daniel Barratt, Andrew Somogyi, David Currow
184	**Hypertension in chronic obstructive pulmonary disease (COPD): A review of current practice** Richard Cooper (Chester, United Kingdom), Wong Po Fung, Alison Perry, James Greenway, Harmesh Moudgil, Koottalai Srinivasan, Annabel Makan, Emma Crawford, Nawaid Ahmad
185	**Effects of biweekly Alpha1 antitrypsin replacement therapy: a case series** Inês Teixeira Farinha (Maia, Portugal), Alexandra Cunha, Filipa Costa
186	**Azithromycin to prevent exacerbations of chronic obstructive pulmonary disease: a study in the real-world setting** Marli Maria Knorst (Porto Alegre (RS), Brazil), Pedro Olivo Neto, Bruno Baron Spolidoro, Gabriela Marcolin, Danilo Cortozi Berton
187	**Impact of the phosphatidylcholine treatment program on the surfactant protein D levels in hypertensive patients with Acute Exacerbations of COPD** Olga Shtepa (Dnipropetrovsk, Ukraine), Tetyana Pertseva
188	**Monitoring disease progression in severe Alpha1 antitrypsin deficiency** Inês Teixeira Farinha (Maia, Portugal), Alexandra Cunha, Filipa Costa
189	**Ninjin-yoeito ameliorates cigarette smoke-induced skeletal muscle complications in mice** Atsushi Miyamoto (Osaka, Japan), Atsushi Miyamoto, Hideaki Kadotani, Kazuhisa Asai, Naomi Maruyama, Hiroaki Kubo, Atsuko Okamoto, Naoki Ijiri, Kanako Sato, Tetsuya Watanabe, Kazuto Hirata, Tomoya Kawaguchi
190	**Treatment with proteinase inhibitor from Enterolobium contortisiliquum in mice with asthma-COPD** Iolanda Tibério (São Paulo (SP), Brazil), Jessica Anastacia Silva Barbosa, Luana Laura Sales Da Silva, Juliana Morelli Lopes Goncalves João, Tabata Maruyama Dos Santos, Leandro Do Nascimento Camargo, Elaine Cristina De Campos, Thiago Tafarel Galli, Beatriz Mangueira Saraiva-Romanholo, Suellen Karoline Moreira Bezerra, Sara Sumie Sobral Hamaguchi, Edna Aparecida Leick, Carla Máximo Prado, Mílton De Arruda Martins, Maria Luiza Vilela Olivo, Renato Fraga Righetti
191	**Effect of ICS/LABA combination in an ex vivo model of COPD exacerbation** Luigino Calzetta (Roma (RM), Italy), Beatrice Ludovica Ritondo, Ermanno Puxeddu, Maria Gabriella Matera, Paola Rogliani

Pre-congress content — Session 41 — 00:00 - 23:59

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

Disease(s) : Airway diseases

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

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

192	**Clinical characteristics of adult obese asthma with type-2 inflammation dominant** Masako To (Saitama, Japan), Ryuta Tsuzuki, Satoshi Yamawaki, Natsue Honda, Ichino Kano, Kosuke Haruki, Yasuo To

193	**PD40 sGaw with deep inhalation as alternative for PD20 FEV1** Lydia Natalia (Amsterdam, Netherlands), Mart Van Der Plas, Paul Bresser
194	**FeNO is not affected by spirometry, IOS or walking in healthy subjects or well controlled asthma patients** Helle Haagensen Andersen (Brabrand, Denmark), Maha Mousa, Nuha Mousa, Lene Pedersen, Anne-Sofie Bjerrum, Tina Skjold, Hans Jürgen Heinrich Hoffmann, Johannes Schmid
195	**The relationship between total IgE and specific antibody testing by Immunocap in screening allergic asthma** Fortune Alabi (Celebration, United States of America), Christopher Alabi, Hadaya Alkhateeb, Mukudzeishe Zibanayi, Mia Zeper, Kayla Garcia, Adebanke Oderinde
196	**Correlation of severity of chronic obstructive pulmonary disease with potential biomarkers** SEEMA SINGH (LUCKNOW, India), Santosh Kumar, S K Verma
197	**The impact of depression in patients with severe asthma (SA) in the Wessex Severe Asthma Cohort (WSAC)** Laura Wiffen (Portsmouth, United Kingdom), Thomas Brown, Lauren Fox, Thomas Jones, Kerry Gove, Clair Barber, Hitasha Rupani, Scott Elliott, Anoop Chauhan, Peter Howarth
198	**Non-eosinophilic COPD is associated with severe emphysema assessed by quantitative computed tomography** Kuan-Yuan Chen (New Taipei City, Taiwan), Hsiao-Yun Kuo, Shu-Chuan Ho, Kang-Yun Lee
199	**Evaluation of the effect of excess body weight on the level of pro-inflammatory cytokines in patients with asthma-COPD overlap.** Svetlana Faletrova (Ryazan (Ryazan Oblast), Russian Federation), Oleg Uryasev, Eduard Belskikh, Larisa Nikiforova
200	**Time trends in prevalence of symptoms of asthma in Indian children: ISAAC and GAN studies** Sheetu Singh (Jaipur (Rajasthan), India), Sundeep Salvi, Shally Awasthi, Nishtha Singh, Monica S Barne, Meenu Singh, Sabir Mohammad, Sanjay K Kocher, Sushil K Kabra, Sanjeev Sinha, Aloke Ghoshal, Tu Sukumaran, Pa Mahesh, Daya K Mangal, Virendra Singh
201	**Differences between early-onset persistent and late-onset asthma: a real life study** Martina Turrin (CORDENONS, Italy), Simonetta Baraldo, Kim Lokar Oliani, Michele Rizzo, Federico Lionello, Erica Bazzan, Manuel Cosio, Marina Saetta
202	**Impulse Ocscillometry is a reproducible assessment of airway resistance and reactance in well-controlled asthmatics and healthy controls.** Lene Moelgaard Pedersen (, Denmark), Nuha Mousa, Maha Mousa, Helle Andersen, Anne-Sofie Bjerrum, Tina Skjold, Hans Jürgen Heinrich Hoffmann, Johannes Schmid
203	**Indoor home allergen load relates to clinical outcomes in COPD: A metagenomics approach** Pei Yee Tiew (Singapore, Singapore), Tavleen Kaur Jaggi, Micheal Mac Aogain, J X Kenny Lau, Fransiskus Xaverius Ivan, Nicolas E. Gaultier, Mariko Siyue Koh, Thun How Ong, Fook Tim Chew, Stephan C. Schuster, Sanjay H Chotirmall
204	**Upper Respiratory Symptoms in Patients with Chronic Obstructive Pulmonary Disease** Nicolai Obling (Kgs. Lyngby, Denmark), Vibeke Backer, John R Hurst, Uffe Bodtger
205	**Cross-sectional, observational study to estimate the prevalence of the eosinophilic phenotype for Brazilian patients with severe asthma: the BRAEOS study** Rodrigo Abensur Athanazio (São Paulo (SP), Brazil), Rafael Stelmach, Martti Antila, Adelmir Machado, Luisa Karla Arruda, Alcindo Neto, Faradiba Cerpa, Daniela Blanco, Marina Lima, Marcelo Rabahi, Pedro Bianchi, Luisa Furlan, Andre Santa Maria, Flavia Lopes, Angela Souza, Marcio Penha
206	**Application of machine learning algorithms to predict loss of asthma control: A post-hoc analysis of INCONTRO study** Sofia Necander (Askim, Switzerland), Ana Teixeira, Vaishali Chaudhuri, Mahdi Hashemi, Robert Pálmer, Katarina Korsback, Carlos Pedrinaci, Ioannis Psallidas
207	**Features of the chemiluminescent activity of neutrophils in chronic obstructive pulmonary disease associated with multiple myeloma** Svetlana Smirnova (Krasnoyarsk, Russian Federation), Olga Smirnova
208	**Selected blood parameters of inflammation (circulating immune complexes, CIC, C-reactive protein, CRP, neutrophil/ lymphocyte ratio and platelet/lymphocyte ratio) in patients with chronic obstructive pulmonary disease (COPD)** Grzegorz Przybylski (Osielsko, Poland), Marta Pilaczyńska-Cemel, Ryszard Gołada, Anita Dąbrowska, Tomasz Wandtke
209	**Serum Interleukin (IL)-6 levels in patients with severe asthma disease is associated with blood eosinophilia** Abhinav Singla (Essen, Germany), Franziska Engbert, Hümeyra Kas, Faustine Funke, Ina Haasler, Hendrik Beckert, Sebastian Reuter, Christian Taube

Pre-congress content Session 42 00:00 - 23:59

E-poster session: Prevalence, characteristics and predictors of obstructive sleep apnoea

Disease(s) : Sleep and breathing disorders Airway diseases

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

Chairs : Paschalis Steiropoulos (Alexandroupolis, Greece), Ana Mafalda van Zeller (Porto, Portugal)

210	**Characteristics of Sleep Apnoea in elderly population** Amaia Urrutia Gajate (Bilbao (Bizkaia), Spain), Sonia Castro Quintas, Elena Garay Lorente, Joseba Andia Iturrate, Borja Ortiz De Urbina Antia, Alejandro Rezola Carasusan, Valentin Cabriada Nuño
211	**Evidence of Obstructive Sleep Apnea among First Nations People** Chandima Karunanayake (Saskatoon, Canada), James Dosman, Mark Fenton, Jeremy Seeseequasis, Kathleen Mcmullin, Malcolm King, Sylvia Abonyi, Vivian Ramsden, Donna Rennie, Shelley Kirychuk, Niels Koehncke, Robert Skomro, John Gjevre, Thomas Smith-Windsor, Brooke Russell, Punam Pahwa
212	**Clinical Characteristics and Polysomnographic Data of Patients with Treatment-Emergent Central Sleep Apnea at Central Chest Institute of Thailand** Kanlaya Panjapornpon (Khon Kaen, Thailand), Pattharaphong Plurksahaporn, Puncharat Luengwattanakit , Manatsanan Denthet, Siwaporn Pawaphutanon Na Mahasarakam
213	**Pathophysiological and functional differences among patients with obesity-related respiratory disturbances** Simon Dominik Herkenrath (Köln, Germany), Marcel Treml, Anja Pietzke-Calcagnile, Norbert Anduleit, Winfried Randerath
214	**Risk of obstructive sleep apnoea among PLHIV and HIV-negative outpatients in a large Nigerian tertiary hospital** Ijeoma Nkem Nina Okedo (Abakaliki, Nigeria), Chihurumnanya Alo
215	**Obstructive Sleep Apnea Syndrome clinical presentation in elderly patients** Athanasia Pataka (Thessaloniki, Greece), Seraphim Kotoulas, Ioanna Grigoriou, George Kalamaras, Nikolaos Chavouzis, Katalin Fekete, Paraskevi Argyropoulou
216	**Prevalence of sleep disordered breathing in asymptomatic patients undergoing pre-bariatric surgery screening** Michael Cheng (Broadway (NSW), Australia), Swapna Mandal, Rubino Francesco, Richard Brown, Nicholas Hart, Amanda Piper, Joerg Steier
217	**Sleepy versus non-sleepy severe obstructive sleep apnea patients: Polysomnographic distinctions** Mónica Marques Grafino (Montemor-O-Novo, Portugal), Richard Staats, A Cristina Lutas, Teresa Pequito, Marco Pereira, Ana Ladeira, João Valença, Sofia Tello Furtado
218	**Prevalence and characteristics of patients with obstructive sleep apnea (OSA) and chronic obstructive pulmonary disease (COPD): "overlap syndrome (OS)"** Izolde Bouloukaki (Heraklion (Crete), Greece), Michail Fanaridis , George Stathakis, Charalampos Mermigkis, Nikolaos Tzanakis, Paschalis Steiropoulos, Violeta Moniaki, Eleni Mauroudi, Sophia Schiza
219	**OSA and COPD overlap syndrome – demographic and anthropometric characteristics in a cohort from Western Romania** Stefan-Marian Frent (Timisoara, Romania), Costela Serban, Roxana Pleava, Iosif Marincu, Stefan Mihaicuta
220	**Multifrequency body composition, anthropometric indices and hydration status in severe obstructive sleep apnea patients. The role of trunk adiposity.** Izolde Bouloukaki (Heraklion (Crete), Greece), Panagiotis Panagou, Charalampos Mermigkis, Christina Ermidou, Stylianos Michelakis, Ioanna Alexaki, Nikolaos Tzanakis, Sophia Schiza
221	**COPD GOLD classification in patients with COPD-OSA overlap syndrome** Athanasios Voulgaris (Thessaloniki, Greece), Nikoletta Paxinou, Evangelia Nena, Toulin Mouemin, Konstantina Chadia, Konstantinos Bonelis, Stavros Anevlavis, Marios Froudarakis, Paschalis Steiropoulos
222	**Patients scheduled for bariatric surgery - clinical profile, prevalence and severity of obstructive sleep apnoea.** Kamil Polok (Kraków, Poland), Paweł Nastałek, Aleksander Kania, Natalia Celejewska-Wójcik, Marek Przybyszowski, Krzysztof Sładek
223	**Is Excessive Daytime Sleepiness a predictor of co-Morbidities in Obstructive Sleep Apnea?** NITHIN KUMAR REDDY R (BANGALORE, India), Krishnaswamy U, Raj R, Venkatnarayan K, Devraj U, Ramchandran P, D Souza Ga
224	**Role of craniofacial and upper airway profile assessment in pediatric obstructive sleep apnea(OSA)- a prospective case control study from India** Rahul K. Sharma (New Delhi (Delhi), India), Ankita Goel Sharma, Shibdas Chakrabarti, J C Suri

225	**Incidence, severity, and predictive risk factors of obstructive sleep apnoea(OSA) among south Indian patients, a retrospective observational study in a general respiratory clinic.** Kesavaperumal Vijayasaratha (Chennai (Tamil Nadu), India), Shakthipriya Nandakumar
226	**Special features of Severe obstructive sleep apnea in women: a comparative study** Hana Mrassi (Tunis, Tunisia), Islam Mejri Ep Ajili, Samira Mhamdi, Selsabil Daboussi, Chiraz Aichaouia, Zied Moatemri, Mohsen Khadhraoui
227	**Obstructive sleep apnea risk and quality of life in Vietnamese COPD patients** Khoa Duong (Ho Chi Minh city, Vietnam), Vu Le, Ngoc Tran
228	**Factors associated with OSA in pre-operative bariatric patients** Peter Siu Pan Cho (London, United Kingdom), Kieran Palmer, Rebecca A Llyal, Amit S Patel, Kai K Lee
229	**Screening for obesity hypoventilation syndrome in bariatric patients.** Kieran Palmer (London, United Kingdom), Peter S P Cho, Rebecca A Lyall, Amit S Patel, Kai K Lee

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

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

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

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

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

230	**Establishment of a post-discharge virtual ward to optimise care for copd patients following admission to hospital.** Maxine Hardinge (Oxford (Oxfordshire), United Kingdom), Joanne Riley, Chris Swindale, Annelise Ovington, Amanda Robinson, Karen Kearley
231	**Roles of PI3k pan-inhibitors and PI3k-d inhibitors in allergic lung inflammation: systematic review and a meta-analysis** Yong Chul Lee (Jeonju, Republic of Korea), Jong Seung Kim, Jae Seok Jeong, Sam Hyun Kwon, So Ri Kim
232	**Type 2 inflammation-related comorbidities among patients with asthma, chronic rhinosinusitis with nasal polyps, and atopic dermatitis** Asif Khan (Chilly-Mazarin, France), Imène Gouia, Siddhesh Kamat, Benjamin Ortiz, Robert Johnson, James Siddall, Mark Small
233	**Effect of Dupilumab on patient-reported breathing and rescue medication use** Jonathan Corren (Los Angeles, United States of America), Mario Castro, Jorge F Maspero, William W Busse, Antonio Valero Santiago, Piotr Kuna, Nadia Daizadeh, Nami Pandit-Abid, Benjamin Ortiz, Asif H Khan, Siddhesh Kamat
234	**Effect of dupilumab on severe exacerbations and lung function in patients with baseline blood eosinophils =500 cells/µL** Klaus F. Rabe (Kiel, Germany), Ian D. Pavord, Mario Castro, Nadia Daizadeh, Benjamin Ortiz, Robert Johnson, Yamo Deniz, Paul Rowe
235	**Real-world adherence of subcutaneous (SCIT) and sublingual (SLIT) pollen AIT: A retrospective analysis in Germany** Christian Vogelberg (Dresden, Germany), Bernd Brueggenjuergen, Hartmut Richter, Marek Jutel
236	**House dust mite sublingual immunotherapy reduces type 2 biomarkers in allergic asthma** Makoto Hoshino (Atami, Japan), Kenta Akitsu, Kengo Kubota, Junichi Ohtawa
237	**The effect of specific Hymenoptera VIT using the ultra-rush method on immunoregulatory properties of T and B Lymphocytes, histamine, tryptase and serum cytokine concentrations.** Lukasz Szymanski (Warsaw, Poland), Aleksander Zakrzewski, Martyna Ciepielak, Aleksandra Cios, Weronika Urbanska, Jerzy Kruszewski, Wanda Stankiewicz, Andrzej Chciałowski
238	**Pharmacodynamic effects of nebulised bronchodilator combinations** Ivan Shishimorov (Volgograd, Russian Federation), Olga Magnitskaya, Oxana Fadina, Eleonora Belan, Natalia Maliuzhinskaia
239	**Patterns of atopy and allergic-respiratory outcomes in older adults** Dinh Bui (Melbourne (VIC), Australia), Caroline Lodge, Jenny Perret, Adrian Lowe, Michael Abramson, Garun Hamilton, Bircan Erbas, Haydn Walters, Shyamali Dharmage
240	**Clinico-radiological and serological features in Allergic bronchopulmonary aspergillosis.** Prasanth P (Amritsar (Punjab), India)

241	**Allergy in patients with lymphangioleiomyomatosis** Elżbieta Radzikowska (Warszawa, Poland), Joanna Nowacka-Ejsmont, Joanna Miłkowska-Dymanowska, Elzbieta Wiatr, Katarzyna Błasinska, Adriana Rozy, Miquel Angel Pujana
242	**Allergy testing in asthmatics and severe asthmatics: habits among respiratory physicians in Belgium** Bram Flahou (Waasmunster, Belgium), Jan Van Schoor, Stefaan Vancayzeele, Sandra Gurdain
243	**Impact of subcutaneous allergoid AIT on patients with allergic rhinitis and/or asthma: A retrospective real-life, long-term cohort analysis** Christian Vogelberg (Dresden, Germany), Bernd Brueggenjuergen, Hartmut Richter, Marek Jutel
244	**The impact of obesity in patients with severe asthma in the Wessex Severe Asthma Cohort (WSAC)** Lauren Fox (Southampton, United Kingdom), Thomas Brown, Laura Wiffen, Thomas Jones, Kerry Gove, Clair Barber, Scott Elliott, Hitasha Rupani, Anoop Chauhan, Peter Howarth
245	**Allergy and respiratory infections in Nigerian university athletes: a cross-sectional study** Olayemi Fehintola Awopeju (Ile-Ife (Osun State), Nigeria), Adenike Arawomo, Gregory Efosa Erhabor
246	**Features of apoptosis, formation of membrane-released microparticles in case of lymphocyte damage in young patients with bronchial asthma, depending on body mass index** Irina Soloveva (Krasnoyarsk (Krasnoyarsk), Russian Federation), Irina Demko, Elena Sobko, Angelina Kraposhina, Natalia Gordeeva, Dmitriy Anikin
247	**Latent classes of adults with persistent asthma: data from the multicentre INSPIRERS studies** Rita Amaral (Porto, Portugal), Cristina Jácome, Rute Almeida, Ana Pereira, Cláudia Chaves Loureiro, Cristina Lopes, Ana Mendes, José Carlos Cidrais-Rodrigues, Joana Carvalho, Ana Arrobas, Ana Todo Bom, Carmelita Ribeiro, João Azevedo, Paula Leiria Pinto, Nuno Neuparth, Filipa Todo-Bom, Alberto Costa, Carlos Lozoya, Natacha Santos, Diana Silva, Luís Taborda-Barata, Rodrigo Rodrigues-Alves, Ana Sofia Moreira, Cláudia Sofia Pinto, Pedro Morais Silva, Carlos Alves, Raquel Câmara, Diana Bordalo, Ricardo Fernandes, Rosário Ferreira, José Ferraz De Oliveira, Fernando Menezes, Ricardo Gomes, Maria José Cálix, João Cardoso, Carlos Nunes, Rita Câmara, José Alberto Ferreira, Manuel Ferreira-Magalhães, Carmen Vidal, Sara López Freire, Paula Méndez Brea, Darío Antolín-Amérigo, Belén De La Hoz Caballer, Alicia Barra Castro, David Gonzalez-De-Olano, João A. Fonseca
248	**Effects of MACVIA-ARIA Sentinel Network for Allergic Rhinitis (MASK-Air) Mobile Phone Application on Asthma Control in Patients with Asthma** Muge Gencer (Manisa, Turkey), Muge Gencer, Yavuz Havlucu, Deniz Kızılırmak, Arzu Yorgancıoğlu, Bilun Gemicioğlu, Jean Bousquet

Pre-congress content — Session 44 — 00:00 - 23:59

E-poster session: Physical activity and chronic lung disease

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

Method(s) : Pulmonary rehabilitation | General respiratory patient care | Pulmonary function testing | Physiology | Cell and molecular biology | Surgery | Transplantation

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

249	**"Can do" versus "do do" in patients with asthma** Steffi Lemmens-Janssen (Leiden, Netherlands), Martijn Spruit, Jeanine Antons, Remco Djamin, Jannie Abbink, Hanneke Van Helvoort, Alex Van 'T Hul
250	**Clinical control, quality of life, physical activity levels, and psychosocial factors according to illness perception in subjects with asthma: a cluster analysis** Fabiana Kim (São Paulo, Brazil), Simone Silva, Patricia Freitas, Natália Passos, Rafaella Xavier, Rafael Stelmach, Regina Pinto, Celso Carvalho
251	**Perceptions of a six-week behaviour change intervention to reduce sedentary behaviour in people with chronic obstructive pulmonary disease: a qualitative study** Sonia Cheng (Sydney (NSW), Australia), Catherine Guan, Sarah Dennis, Jennifer Alison, Emmanuel Stamatakis, Zoe Mckeough
252	**Can a six-week behaviour change intervention reduce sedentary behaviour in people with chronic obstructive pulmonary disease? A randomised controlled trial** Sonia Cheng (Sydney (NSW), Australia), Jennifer Alison, Sarah Dennis, Emmanuel Stamatakis, Renae Mcnamara, Lissa Spencer, Zoe Mckeough
253	**Reliability and validity of the international physical activity questionnaire short-form (IPAQ-sf) in COPD** Sofia Flora (Leiria, Portugal), Nádia Hipólito, Liliana Santos, Filipa Januário, Sónia Silva, Carla Valente, Lília Andrade, Fátima Rodrigues, Alda Marques, Joana Cruz

254	**Association between physical activity in daily life and exercise capacity in COPD: do total volume and/or isolated intensities play a role?** Felipe Machado (Horn, Netherlands), Lorena Schneider, Antenor Rodrigues, Raquel P. Hirata, Leandro C. Mantoani, Carlos A. Camillo, Igor L. Brito, Ana Carolina Andrello, Lais Santin, Jéssica Fonseca, Letícia F. Belo, Mariana P. Bertoche, Daniele C. Dala Pola, Jade M. B. Bellançon, Marcos Ribeiro, Andrea A. Morita, Karina C. Furlanetto, Nidia A. Hernandes, Fabio Pitta
255	**The importance of dynamic submaximal endurance capacity of the quadriceps muscle to objectively measured physical activity in people with COPD** Erik Frykholm (Umeå, Sweden)
256	**Association among daily physical activity level and ABCD groups of COPD** Katerina Neumannova (Olomouc, Czech Republic), Tamara Michalcikova, Vladimir Koblizek, Eva Volakova, Jaromir Zatloukal, Marek Plutinsky, Michal Svoboda, Zuzana Liptakova, Jana Kocianova, Libor Fila, Gustav Ondrejka, Tomas Dvorak, Pavlina Musilova, Patricie Popelkova
257	**Physical activity levels in women with lymphangioleiomyomatosis** Douglas Silva Queiroz (São Paulo , Brazil), Martina R Oliveira, Alexandre F Amaral, Cibele C B Marques Da Silva, Bruno G Baldi, João M Salge, Carlos R R Carvalho, Celso R F Carvalho
258	**Physical activity, functional capacity, and anaerobic power in cystic fibrosis with and without impaired glucose tolerance** Cemile Bozdemir Ozel (Eskisehir, Turkey), Elif Kocaaga, Deniz Inal-Ince, Dilber Ademhan-Tural, Ebru Calik-Kutukcu, Naciye Vardar-Yagli, Melda Saglam, Deniz Dogru, Ayfer Alikasifoglu, Nagehan Emiralioglu
259	**Association between physical activity and risk of hospitalisation in bronchiectasis** Victoria Alcaraz Serrano (Barcelona, Spain), Elena Gimeno-Santos, Giulia Scioscia, Albert Gabarrús, Adrià Navarro, Beatriz Herrero-Cortina, Rosanel Amaro, Laia Fernández, Patricia Oscanoa, Antoni Torres
260	**Functional impairment in lung cancer survivors is related to physical activity** Alejandro Heredia Ciuró (Granada, Spain), Andrés Calvache Mateo, Esther Prados Román, Janet Rodríguez Torres, Florencio Quero Valenzuela, Marie Carmen Valenza
261	**Device-based assessment of physical activity after lung cancer surgery** Samantha Harrison (Middlesbrough (Stockton-on-Tees), United Kingdom), Alan Batterham, Sasha Stamenkovic, Joel Dunning
262	**Comparison of the effects of video-assisted thoracoscopic surgery or thoracotomy on pulmonary functions physical activity and exercise capacity in lung cancer patients** Ece Baytok (Ankara, Turkey), Zeliha Çelik, Merve Şatır Türk, Ali Çelik, Ismail Cüneyt Kurul, Meral Boşnak Güçlü
263	**Compliance to accelerometry before treatment for inoperable lung cancer** Vinicius Cavalheri (Perth (WA), Australia), Chelsea Milner, Joanne Mcveigh, Carolyn Peddle-Mcintyre, David Manners, Rajesh Thomas, Jeanie Leong, Samantha Bowyer, Kirsten Mooney, Siobhan Dormer, Leon Straker, Daniel Galvão
264	**Relationship among physical activity, pulmonary functions and physical functions in candidates of allogeneic hematopoietic stem cell transplantation.** Gülşah Bargı (İZMİR, Turkey), Meral Boşnak Güçlü
265	**Physically active lifestyle in elderly improves upper airways mucosal immune response** Juliana Santos (Salvador (BA), Brazil), Telma Cordeiro, Ewin Barbosa, Vitória Paixão, Jonatas Amaral, Roberta Foster, Adriane Sperandio, Tamaris Roseira, Marcelo Rossi, Fernanda Monteiro, Gislene Amirato, Carlos Santos, Mauro Vaisberg, Rodolfo Vieira, André Bachi
266	**Comparison of two walking strategies to promote physical activity in sedentary adults.** Nicolás Sepúlveda Cáceres (Santiago, Chile), Matías Otto-Yáñez, Rodrigo Torres-Castro, Nelson Romero, Carola Jara Fuentes, Francisca Gonzalez Bossi, Sebastián Miranda, Luis Vasconcello
267	**Identifying heart rate threshold for moderate to vigorous physical activity in children and young people wearing activity trackers** Helen Douglas (London, United Kingdom), Emma Raywood, Kunal Kapoor, Nicky Murray, Rachel O'Connor, Olga Liakhovich, Tempest Van Schaik, Bianca Furtuna, Nicole Filipow, Eleanor Main
268	**Validity and usability of physical activity devices to self-monitor daily steps** Catherine Granger (Parkville (VIC), Australia), Nina Leggett, Melanie Tomkins, Selina Parry

Pre-congress content Session 45 00:00 - 23:59

E-poster session: Exercise tolerance and functional status across respiratory diseases

Disease(s) : Airway diseases | Interstitial lung diseases | Sleep and breathing disorders | Thoracic oncology | Respiratory critical care

Method(s) : Transplantation | Pulmonary rehabilitation | Physiology | Epidemiology | General respiratory patient care | Respiratory intensive care | Public health

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

269	**Deoxygenation recruitment patterns of abdominal and neck muscles during four bed exercises** Wendy Darlene Reid (Toronto (ON), Canada), Arjun Patel, Zacherie Bergeron, Andrew Ho, Tongyu Shi, Marcelle Campos, Ewan Goligher, Laurent Brochard
270	**Incremental shuttle walking test evaluates the maximal exercise capacity of patients with lymphangioleiomyomatosis** Douglas Silva Queiroz (São Paulo , Brazil), Martina Rodrigues Oliveira, Alexandre Franco Amaral, Cibele Cristine Berto Marques Da Silva, Bruno Baldi, João Marcos Salge, Carlos Roberto Ribeiro Carvalho, Celso Ricardo Fernades Carvalho
271	**Comparison of different field tests for functional capacity assessment in individuals with fibrosing interstitial lung disease.** Luciana Malosa Sampaio (São Paulo (SP), Brazil), Tatiana Abade Ferreira De Araújo, Patrícia Lira Dos Santos, Carina Silveira Mariano Nunes, Frederico De Melo Cruz, Mariana Lima, Roberto Stirbulov, Ivan Peres Costa
272	**Relationship between body composition, exercise capacity and health related quality of life in Idiopathic Pulmonary Fibrosis** Felipe Machado (Horn, Netherlands), Ada Bloem, Tessa Schneeberger, Inga Jarosch, Rainer Gloeckl, Sandra Winterkamp, Frits Franssen, Rembert Koczulla, Fabio Pitta, Martijn Spruit, Klaus Kenn
273	**Lower limb function in pediatric interstitial lung disease** Kübra Kılıç (Konya, Turkey), Naciye Vardar-Yagli, Melda Saglam, Deniz Inal-Ince, Nagehan Emiralioglu, Beste Ozsezen, Deniz Dogru, Nural Kiper
274	**Predictors of Exercise Capacity in Patients with OSAS** Nurel Ertürk (Trabzon, Turkey), Ebru Calik-Kutukcu, Hulya Arikan, Sema Savci, Deniz Inal-Ince, Hakan Caliskan, Melda Saglam, Naciye Vardar-Yagli, Hikmet Firat, Melike Yuce-Ege, Sadik Ardic
275	**The Validity and Reliability of the 6 Minute Pegboard and Ring Test in Patients With Controlled and Partially Controlled Asthma** Ebru Çalık Kütükcü (Ankara, Turkey), Beyza Nur Karaduz, Aslihan Cakmak, Deniz Inal-Ince, Naciye Vardar-Yagli, Melda Saglam, Haluk Tekerlek, Cemile Bozdemir-Ozel, Hazal Sonbahar-Ulu, Merve Firat, Hulya Arikan, Gul Karakaya
276	**Functional tests for adults with asthma: validity, reliability, minimal detectable change and feasibility.** Joice Oliveira (Londrina, Brazil), Thamyres Spositon, Diery Rugila, Natielly Beatriz Soares Correa, Denner Ildemar Feitosa De Melo, Jéssica Priscila Da Conceição Silva, Alcindo Cerci Neto, Fatima Mitsie Chibana Soares, Fabio Pitta, Karina Couto Furlanetto
277	**Changes in functional exercise capacity, dyspnea, quadriceps muscle endurance, physical activity levels and risk of falling in elderly patients with asthma** Elif Develi (istanbul, Turkey), Batuhan Kayahan, Asli Yeral, Deniz Aslan, Rasmi Muammer, Yasar Kucukardali
278	**Evaluation of functional exercise capacity using two-field test in lung cancer patients** Naciye Vardar Yağlı (Ankara, Turkey), Kübra Kılıç, Melda Saglam, Ebru Calık Kütükcü, Deniz Inal Ince, Saadettin Kılıckap
279	**Comparison of Exercise Capacity Respiratory Muscle Strength and Depression in Non-Small Cell Lung Cancer Patients and Healthy Controls** Zeynep Pelin Dündar (Konya, Turkey), Meral Boşnak Güçlü, Aydın Çiltaş, Mustafa Benekli
280	**Relationship between BODE index score, respiratory and peripheral muscle strength in chronic obstructive pulmonary disease** Naciye Vardar Yağlı (Ankara, Turkey), Merve Fırat, Melda Saglam, Ebru Calik-Kutukcu, Deniz Inal-Ince, Lutfi Coplu
281	**Development of an endurance step test for use in patients with COPD** Simone Dal Corso (São Paulo (SP), Brazil), José Rodrigues-Junior, Adriano Luppo, Daniel Amaral, Geórgia Calasans, Jessyca Selman
282	**Characteristics of peripheral muscle strength in patients with interstitial lung disease** Leandro Mantoani (Londrina, Brazil), Thatielle Garcia, Humberto Silva, Camile Ludovico Zambotti, Aline Ferreira Lima Gonçalves, Marcos Ribeiro, Ercy Mara Cipulo Ramos, Fabio Pitta, Carlos Augusto Camillo
283	**Which equations to estimate peak work rate from six minute walk test in patients with cystic fibrosis post lung transplantation?** Veronica Rossi (Milan, Italy), Martina Santambrogio, Enzo Sapienza, Emilia Privitera, Gianluca Bonitta, Letizia Corinna Morlacchi, Alessandro Palleschi

284	**Energy Expenditure and Muscle oxygenation at Glittre Activities of Daily Living Test in Cystic Fibrosis with and without Airway Obstruction** Cemile Bozdemir Ozel (Eskisehir, Turkey), Haluk Tekerlek, Hulya Arikan, Melda Saglam, Naciye Vardar-Yagli, Ebru Calık-Kutukcu, Ebru Gunes Yalcin, Deniz Inal Ince
285	**Evaluation of functional capacity and pulmonary functions during acute pulmonary exacerbation in children with cystic fibrosis** Kübra Kılıç (Konya, Turkey), Naciye Vardar-Yagli, Melda Saglam, Deniz Inal-Ince, Ebru Yalcin, Dilber Ademhan-Tural, Deniz Dogru
286	**The effect of bronchodilators in the exercise capacity and thoracoabdominal mechanics of subjects with bronchiectasis: a randomized crossover, double-blinded, placebo-controlled trial** Douglas Silva Queiroz (São Paulo , Brazil), Cibele C B Marques Da Silva, Rodrigo A Athanazio, Simone Dal Corso, Samia Rached, Adriana C Lunardi, Renato Vitorasso, Henrique T Moriya, Alfredo Fonseca, Celso R F Carvalho

Pre-congress content — Session 46 — 00:00 - 23:59

E-poster session: Pulmonary hypertension in lung diseases

Disease(s) : Interstitial lung diseases | Pulmonary vascular diseases | Airway diseases

Method(s) : Respiratory intensive care | Imaging | Epidemiology | Transplantation | Pulmonary function testing | General respiratory patient care | Physiology | Pulmonary rehabilitation

Chairs : Vincent Cottin (Lyon, France), Sheila Ramjug (Altrincham, United Kingdom)

287	**Lung vessel morphology changes with airway obstruction** Michael Pienn (Graz, Austria), Tamas Fero, Gabor Kovacs, Horst Olschewski, Jürgen Biederer, Bertram Jobst
288	**LSC - 2020 - GCN2 signalling is dysregulated in pulmonary fibrosis** Diana Santos Ribeiro (Auderghem, Belgium)
289	**Risk assessment in severe pulmonary hypertension due to interstitial lung disease** Athiththan Yogeswaran (Giessen, Germany), Marlene Faber, Khodr Tello, Natascha Sommer, Hossein Ardeschir Ghofrani, Werner Seeger, Manuel Jonas Richter, Henning Gall
290	**Mild parenchymal lung disease and/or low diffusion capacity impacts survival and treatment response in patients diagnosed with idiopathic pulmonary arterial hypertension** Robert A. Lewis (Sheffield (South Yorkshire), United Kingdom), A A Roger Thompson, Catherine G Billings, Athanasios Charalampopoulos, Charlie Elliot, Neil Hamilton, Catherine Hill, Judith Hurdman, Smitha Rajaram, Ian Sabroe, Andy J Swift, David G Kiely, Robin Condliffe
291	**Pulmoanry hypertension is a negative prognostic factot of long term survival in patients with idiopathic pulmonary fibrosis after lung transplantation** Adir Yochai (Haifa, Israel), Moshe Shay Amor, Sonia Schneer, Dror Rosengarten, Yael Shostak, Mordechai Reuven Kramer
292	**Treatment of severe pulmonary hypertension secondary to chronic lung disease: A multicentre study.** Vania Cecilia Prudencio Ribera (Madrid, Spain), Agueda Aurtenetxe Pérez, María Lorena Coronel, Virginia Luz Pérez González, Francisco Javier Mazo Etxaniz , María Teresa Velázquez Martín, Carlos Andrés Quezada Loaiza, Pilar Escribano Subías
293	**Impact of borderline (BL) pulmonary hypertension (PH) in chronic lung diseases (CLD).** Lucilla Piccari (Barcelona, Spain), Patrizio Vitulo, Stephen John Wort, Federica Meloni, Alessandro Bertani, Isabel Blanco, Laura Claire Price, Elena Salvaterra, Marta Beretta, Virginia Luz Pérez Rodríguez, Colm Mc Cabe, Elena Cattaneo, Adriana Callari, Manuel López Meseguer, Laura Scelsi, Diego A Rodríguez, Joan Albert Barberà, Lavinia Martino, Fabio Tuzzolino
294	**Exercise hemodynamics in patients with COPD** Teresa Sassmann (Graz, Austria), Philipp Douschan, Vasile Foris, Alexander Avian, Piet-Lennart Rosenstock, Katarina Zeder, Gerhard Bachmaier, Horst Olschewski, Gabor Kovacs
295	**Resistive and dynamic exercise stress testing in COPD and IPF candidates to lung transplantation: role of the pulmonary arterial stiffness** Enric Domingo (, Spain), Juan Grignola, Carlos Bravo, Manuel López Meseguer, Pedro Suasnavar, Antonio Roman
296	**Different response to pulmonay vasoactive therapy in pulmonary hypertension due to lung diseases (group III PH) Report from a pneumology based PH center** Frank Reichenberger (Munich, Germany), Katharina Heinig-Menhard, Cosmina Stoleriu, Margot Neiswirth, Jürgen Behr, Ralf Göres, Wolfgang Gesierich, Edith Silbernagel

297	**Identifying pulmonary hypertension in newly recognized interstitial lung diseases – a role of new scoring system** Małgorzata Sobiecka (Warszawa, Poland), Katarzyna Lewandowska, Jarosław Kober, Monika Franczuk, Agnieszka Skoczylas, Witold Tomkowski, Jan Kus, Monika Szturmowicz
298	**Different definitions of pulmonary hypertension in interstitial lung disease: a prognostic evaluation.** Tomonori Sato (Seto, Japan), Taiki Furukawa, Ryo Teramachi, Yasuhiko Yamano, Toshiki Yokoyama, Toshiaki Matsuda, Kensuke Kataoka, Tomoki Kimura, Yasuhiro Kondoh
299	**Pulmonary hypertension associated with definitive and probable usual interstitial pneumonia** Galina Nekludova (Moscow, Russian Federation), Alexander Cherniak, Zamira Merhoeva, Natalia Tsareva, Zhanna Naumenko, Sergey Avdeev
300	**Phenotype of patients with severe pulmonary hypertension secondary to chronic obstructive pulmonary disease: A multicentre study.** Vania Cecilia Prudencio Ribera (Madrid, Spain), Agueda Aurtenetxe Pérez , María Lorena Coronel, Carmen Pérez-Olivares Delgado, María José Cristo Ropero, Virginia Luz Pérez González, Francisco Javier Mazo Etxaniz , Carlos Andrés Quezada Loaiza, Pilar Escribano Subías
301	**The association of diuretics treatment with hospitalization rates of patients with chronic obstructive pulmonary disease and pulmonary hypertension: a population-based study** Elena Jureviciene (Vilnius, Lithuania), Roma Puronaite, Vaida Sudmantaite, Edvardas Danila
302	**Association of FVC/DLCO with pulmonary hypertension risk and interstitial disease in systemic sclerosis patients** Eva Ailín Vallejos (Ciudad Autónoma Buenos Aires, Argentina), John Martinez, Florencia Cabrera, Noelia Mastandrea, Milerna Pertuz, Zullie Marengo, M. José López Meiller, Veronica Volberg, Ricardo Gómez Tejada
303	**Response to PAH specific therapy in systemic sclerosis patients with extensive parenchymal changes and pulmonary hypertension** Serhat Erol (Ankara, Turkey), Asli Bostanoglu, Ozlem Isik, Kubra Turkel, Zeynep Pinar Oner, Ozlem Ozdemir Kumbasar, Cansin Tulunay Kaya, Tamer Sayin
304	**Sarcoidosis-associated Pulmonary Hypertension: A London Cohort** Laura C Price (, United Kingdom), Vasilis Kouranos, Kostantinos Dimopoulos, Colm Mccabe, Aleksander Kempny, Laura Price, Giulia Costola, Carl Harries, Elizabeth Renzoni, Philip Molyneaux, Maria Kokosi, Toby Maher, Felix Chua, Peter George, Athol U Wells, S John Wort
305	**Effect of Pulmonary Hypertension in exercise tolerance in patients with Chronic Obstructive Pulmonary Disease: A systematic review and meta-analysis** Rodrigo Torres-Castro (Santiago, Chile), Elena Gimeno-Santos, Jordi Vilaró, Marta Roqué I Figuls, Jorge Moisés, Joan Albert Barberà, Isabel Blanco

Pre-congress content — Session 47 — 00:00 - 23:59

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

Disease(s) : Airway diseases

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

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

306	**Late Breaking Abstract - The Role of the chemokine receptor CCR3 in House Dust Mite (HDM) induced experimental asthma** Susanne Krammer (Erlangen, Germany), Nina Li, Zuqin Yang, Julia Koelle, Carol Immanuel Geppert, Ralf J. Rieker, Gerard Graham, Susetta Finotto
307	**Late Breaking Abstract - Link between IL-22 and IL-10, IL-13, and severity of symptoms in patients with allergic airway diseases caused by house dust mite** Laura Tamasauskiene (Kauno raj., Lithuania), Vilte Marija Gintauskiene, Edita Gasiuniene, Brigita Sitkauskiene
308	**The role of innate lymphoid cells (ILCs) in a murine model of irritant-induced asthma.** Utako Fujii (Montreal, Canada), Yumiko Ishii, Emily Nakada, Niusha Khazaei, Soroor Farahnak, Toby Mcgovern, James Martin
309	**Less eosinophilic inflammation and goblet cell metaplasia in IL-33-treated, diet-induced obese mice** Atsushi Kurokawa (Tokyo, Japan), Mitsuko Kondo, Sigeru Ashino, Mayoko Tsuji, Mami Orimo, Tomohiro Akaba, Ken Arimura, Kiyoshi Takeyama, Etsuko Tagaya

310	**Deficiency of CARS2, a principal cysteine persulfide synthase, aggravated house dust mite-induced allergic inflammation in a mouse model of asthma.** Yusaku Sasaki (Sendai, Japan), Mituhiro Yamada, Tadahisa Numakura, Tomoaki Ida, Masanobu Morita, Naoya Fujino, Tomohiro Ichikawa, Hirohito Sano, Syun Yamanaka, Yuko Okuyama, Naoto Ishii, Takaaki Akaike, Hisatoshi Sugiura, Masakazu Ichinose
311	**The effects of Rosae Multiflorae fructus extract on allergic rhinitis: animal experiments and clinical trials** Hee Soon Shin
312	**Gut microbial modulation attenuates emphysema development by suppressing inflammation and apoptosis** Se Hee Lee (Seoul, Republic of Korea), Yoon Ok Jang, Jong Jin Choi, Yeon-Mok Oh, Sei Won Lee
313	**BMI is reduced in COPD.** Xin Yao (Nanjing (Jiangsu), China), Wu, Ian Adock
314	**Immunotherapeutic strategy with mesenchymal stem cells modulating inflammation in an experimental model of COPD.** Cristiano Rodrigo De Alvarenga Nascimento (Juiz De Fora (MG), Brazil), Auriléia Aparecida De Brito Léia, Tawany Gonçalves Santos, Karine Zanela Herculano, Stephanie Soares, Leticia Lopes Guimarães, Kristianne Porta Santos Fernandes, Renata Kelly Da Palma, Ana Paula Ligeiro-Oliveira
315	**1,25-dihydroxyvitamin D3 effect on corticosteroid sensitivity in obese asthmatic patients before and after bariatric surgery** Marina Bantulà Fonts (Vilassar de Dalt, Spain), Jordi Roca-Ferrer, César Picado Vallés, Valeria Tubita, Irina Bobolea, Antonio Valero, Joaquim Mullol, Joan Bartra, Ebymar Arismendi
316	**Lipids regulate the dynamics of early allergic inflammation towards grass pollen** Nestor Gonzalez Roldan (Borstel, Germany), Sylvia Düpow, Regina Engel, Katarzyna Duda
317	**Effects of dehydrodieugenol on neuroinflammation and behavior changes in mice with mixed granulocytic chronic airway inflammation** Carla Prado (Santos, Brazil), Pamela Maria Araujo Morera, Jose Ivo Araujo Beserra-Filho, Beatriz Soares, Vitor Ponci, Maria Aparecida Oliveira, Rafael Herling Lambertucci, Nathalia Montouro Pinheiro, Wothan Tavares-De-Lima, João Henrique G Lago, Alessandra Mussi Ribeiro
318	**Rhinovirus-induced cytokine production of circulating leukocytes is reduced in severe asthma** Kaschin Jamal Jameel (Bochum, Germany), Sarah Yanik, Eike Bülthoff, Faisal Yusuf, Birte Struck, Simon Rohde, Kai Pfeifer, Juliane Kronsbein, Andrea Koch, Matthias Tenbusch, Jürgen Knobloch
319	**Comparison of blood ILC2 cell numbers, phenotypes and proliferation between atopic severe asthma participants, healthy controls with atopy and non-atopic healthy controls** Bilal Malik (Newcastle, Australia), Nathan Bartlett, Rebecca Mckerrow, John Harrington, John.W Upham, Peter A.B Wark
320	**CD6 is highly expressed in fatal asthma patients and may modulate bronchomotor tone** Cynthia Koziol-White (New Brunswick, United States of America), Gaoyuan Cao, Vishal Parikh, Brian Deeney, Joshua Vieth, Cherie Ng, Jeanette Ampudia, Stephen Connelly, Jana Badrani, Taylor Doherty, Reynold Panettieri
321	**Local lung house dust mite (HDM) challenges induce cell necrosis in mouse experimental asthma** Juan-José Nieto-Fontarigo (Santiago De Compostela, Spain), Samuel Cerps, Sangeetha Ramu, Hamid Akbarshahi , Asger Sverrild, Celeste Porsbjerg, Uller Lena

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

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

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

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

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

322	**Late Breaking Abstract - Early exploratory use of omic approaches to assess metabolite changes in COPD** Tina Kramarić (Aberystwyth, United Kingdom), Sarah Thomas, Katie Love, Ian Bond, David Rooke, Luis Mur, Keir Lewis
323	**Late Breaking Abstract - Proteomic changes in respiratory tract lining fluid associated with smoking** Spela Kokelj (Göteborg, Sweden), Jörgen Östling, Benjamin Georgi, Henric K. Olsson, Anna-Carin Olin
324	**Sputum proteomics identifies distinct endotypes of exacerbations in bronchiectasis** Jeffrey T.-J. Huang (Dundee (Angus), United Kingdom), Yonghua Gao, Alun Barton, Hollian Richardson, Hani Leyah, Heather Barclay, Elena Kuzmanova, Holly Keir, Alison Dicker, James Chalmers

325	**How insignificant are genetic variants of unknown significance in Primary Ciliary Dyskinesia?** Reena Bhatt (London, United Kingdom), Siobhan B Carr, Claire Hogg
326	**Quantification of circulating alpha-1-antitrypsin polymers in dried blood spots** Ilaria Ferrarotti (Pavia (PV), Italy), Stefania Ottaviani, Mattia Laffranchi, Valentina Barzon, Alice Maria Balderacchi, Guido Levi, Angelo Guido Corsico, Luciano Corda, Federica Benini, Anna Maria Fra
327	**Human epididymis protein 4 (HE4): a potential biomarker for IPF** Sung Jo (Waltham, United States of America), Julia Winkler, Andrew Sullivan, Lia Luus, Erica Herzog, Adrian Ray
328	**LSC - 2020 - Mitochondrial dysfunction induce immunoproteasome and MHC class I responses in lung aging** Xinyuan Wang (Munich, Germany)
329	**An expanding protocol to validate nasospheroids as a functional assay to study airway CFTR-fluid transport** Maite Calucho (Barcelona, Spain), Silvia Gartner, Raquel García-Pérez, Llorenç Badiella, Sandra Cobo, Sandra Rovira, Laura Garriga, Paula Fernández, Eduardo Tizzano
330	**Targeting STAT3 pathway signalling in EGFR TKI resistant NSCLC** Kathy Gately (Dublin, Ireland), Michelle Simone Clement, Boe Sandahl Sorensen, Sinead Cuffe, Stephen Finn
331	**Co-expression modules construction by WGCNA and identification of susceptible genes of chronic obstructive pulmonary disease with lung adenocarcinomas** Lei Chen (Chengdu (Sichuan), China), Ping Li, Mei Yang, Fangying Chen, Lin Liu

Pre-congress content Session 49 00:00 - 23:59

E-poster session: Novel findings in intensive care unit medicine: part 2

Disease(s) : Respiratory critical care | Interstitial lung diseases | Airway diseases | Thoracic oncology | Sleep and breathing disorders

Method(s) : Imaging | Respiratory intensive care | General respiratory patient care | Pulmonary rehabilitation | Physiology | Pulmonary function testing

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

332	**Late Breaking Abstract - Lung involvement is clue for recognizing severe dengue-A retrospective study** Yunfeng Shi (GuangZhou, China), Yunfeng Shi, Xiaohan Shi, Jinmei Luo, Junhui Ba, Weiqiang Gan, Yuefei Guo, Benquan Wu
333	**Late Breaking Abstract - Multidisciplinary medical team in severe COVID-19 treatment** jianrong liu (guangdong, China), Haijin Lyu, Xiaofeng Yuan, Yuling An, Xiaomeng Yi, Xuxia Wei, Huimin Yi, Yang Yang
334	**Late Breaking Abstract - Early ICU physiotherapy on SARS-CoV-2 patients: A Spanish experience case series** Camilo Corbellini (Rivoli (TO), Italy), Inmaculada Vinuesa, Eleuterio A. Sánchez Romero, Gonzalo Ballesteros Reviriego, Pascual Bernal-Planas, Jorge Hugo Villafañe
335	**Late Breaking Abstract - Monitoring inspiratory effort with a bioimpedance based wireless chest patch** Alessandro C. Rossi (Maastricht, Netherlands), Jantina C. De Vries, Sofia Mayer, Hartmut Schneider
336	**Late Breaking Abstract - Aerodynamic SARS-CoV-2 transport in non-invasive ventilatory support methods: a passive tracer study** Rutger Hebbink (Enschede, Netherlands), Judith Elshof, Steven Wanrooij, Walter Lette, Kees Venner, Marieke Duiverman, Rob Hagmeijer
337	**Evaluation of aerosol delivery in a simulated spontaneously breathing tracheostomy mask patient** Elena Fernandez Fernandez (Galway, Ireland), Grant Olsson, Mary Joyce, Gavin Bennett, Ronan Macloughlin
338	**Regional heterogeneity of lung volumes in response to mechanical ventilation** Melissa Preissner (Clayton, Australia), Seiha Yen, Ellen Bennett, Andreas Fouras, Peter Dargaville, Graeme Zosky, Stephen Dubsky
339	**Flow-controlled ventilation (FCV) improves regional ventilation in obese patients with diabetis type 1 and 2** Kostiantyn Dmytriiev (Vinnitsya, Ukraine), Dmytro Dmytriiev, Kateryna Dmytriieva
340	**Gabapentin as add-on to fentanyl and midazolam in patients receiving mechanical ventilation: a randomized, blinded study** Bahador Bagheri (Tehran, Islamic Republic of Iran), Sara Salarian, Bahar Taherkhanchi
341	**Prognostic value of Nutric score in critically ill patients with lung cancer** Andriani Charpidou (Athens, Greece), Effrosyni Filiou, Nikoletta Rovina, Dimitrios Vassos, Matthaios Katsaras, Stamatios Tsipilis, Dimitra Grapsa, Petros Bakakos, Konstantinos Syrigos

342	**Diagnostic yield of bronchioalveolar lavage in adult Intensive Care patients, and influence on management** Claire Pickering (Headington, United Kingdom), Ipsita Sinha, Elaine Armstrong, Lucinda Barrett
343	**Implementing an evidence based protocol in ICU: Physiotherapists' perceptions** Susan Hanekom (Stellenbosch, South Africa), Jacques Maritz, Farhana Karachi
344	**What HFNC indication are we doing in RICU?** Antoni Marín Muñiz (Badalona (Barcelona), Spain), Irene Aldás Criado, Blanca Urrutia Royo, Carlos Folgado, Maria Sol Prats Bradaji, Antoni Rosell Gratacós, Jorge Abad Capa
345	**Transcranial direct current stimulation and cough effectiveness in SCI patients: case report** Priscila Carvalho (São Paulo, Brazil), Adriana Sayuri Hirota, Guadalupe Nery Sant'Anna, Juliana Barbosa Goulardins, Lucas Macedo Santos, Thabata Caetano, Clara Hikari Ito, Caroline Gomes Mól, Rita Pavione Rodrigues, Abrahão Fontes Baptista, Clarice Tanaka
346	**Pro-adrenomedullin is a predictive marker for all-cause mortality in stable COPD: An analysis of the COSYCONET study** Sebastian Fähndrich (Freiburg, Germany), Christian Herr, Henrik Watz, Benjamin Waschki, Johanna Classen, Julia Demandt, Franziska C Trudzinski, Albert Omlor, Frederik Seiler, Tobias Welte, Hans-Ulrich Kauczor, Rudolf A Jörres, Claus Vogelmeier, Robert Bals
347	**Effectiveness of high flow oxygen therapy (HFNC) in hypercapnic respiratory failure** Antonio Di Sorbo (Benevento, Italy), Mariano Mazza, Assunta Micco, Angelo Romano, Gaetano Beatrice, Mario Del Donno
348	**The diagnostic cut off value of Lung Ultrasound Score to differentiate Hospital Acquired/Ventilator Associated Pneumonia and Hospital Acquired/Ventilator Associated Tracheobronchitis** Ezgi Özyilmaz (Adana, Turkey), Sinem Bayrakci, Ozlem Kuscu, Nazife Balci Saygili, Aslihan Candevir, Pinar Etiz, Ozlem Goruroglu Ozturk, Emre Karakoc
349	**Acute exacerbations of interstitial lung diseases:experience of 6 years from a portuguese hospital center** Eduarda Salomé Soares Seixas (Lourosa, Portugal), Pedro Gonçalo Ferreira
350	**The effect of nutritional risk on mortality in respiratory ICU patients** Nazife Balcı Saygılı (Adana, Turkey), Havva Alnikizil, Sinem Bayrakci, Nazire Ates, Halil Capar, Ezgi Özyilmaz
351	**The effect of oxygen on the PaO2/FiO2-ratio and shunt fraction in patients on mechanical ventilation: a physiological study** Heder de Vries (Amsterdam, Netherlands), Soephie Coenen, Frouke Kingma, Leo Heunks, Angelique De Man

Pre-congress content — Session 50 — 00:00 - 23:59

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

Disease(s) : Airway diseases | Sleep and breathing disorders

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

Chairs : Mirjam Stahl (Berlin, Germany), Florian Singer (Bern, Switzerland)

352	**Electrical impedance tomography as a clinical monitoring tool in patients with cystic fibrosis** Anna Folino (Torino (TO), Italy), Sheila Beux, Laura Barrocu, Irene Esposito, Benedetta Crida, Roberta Cotti, Lorenzo Appendini, Elisabetta Bignamini
353	**Electronic nose (E-nose) analysis of exhaled volatile organic compounds (VOCs) distinguishes pediatric patients (pts) with Cystic fibrosis (CF) from healthy controls (HC) and depicts disease status** Francesca Lucca (Verona, Italy), Sonia Volpi, Laura Tenero, Michele Piazza, Marco Sandri, Marco Cipolli, Giorgio Piacentini
354	**Lung Clearance Index (LCI) derived from N2-Multiple Breath Washout (MBW) depicts worsening in airways colonization in pediatric Cystic Fibrosis (CF) patients (pts)** Francesca Lucca (Verona, Italy), Sonia Volpi, Antonella Borruso, Laura Menin, Emily Pintani, Marco Cipolli
355	**Shedding light into the black box of infant multiple-breath washout** Marc-Alexander Oestreich (Bern, Switzerland), Florian Wyler, Philipp Latzin, Kathryn Ramsey
356	**Multicenter feasibility of lung clearance index in preschool children with cystic fibrosis and other lung diseases** Mirjam Stahl (Berlin, Germany), Cornelia Joachim, Tatjana Uselmann, Yin Yu, Ines Kirsch, Christiane Berger, Cornelia Stolpe, Rebecca Minso, Isa Rudolf, Nadine Alfeis, Lena Liboschick, Dunja Tennhardt, Alena Steinmetz, Xenia Bovermann, Jobst Röhmel, Klaudia Unorji-Frank, Friederike Dörfler, Claudia Rückes-Nilges, Bianca Von Stoutz, Lutz Naehrlich, Matthias Kopp, Anna-Maria Dittrich, Olaf Sommerburg, Marcus Mall

357	**"Lung clearence index"; Can it be a guide for long-term follow up of children with cystic fibrosis who have normal spirometric values?** Beste Özsezen (Ankara, Turkey), Ebru Yalcin, Nagehan Emiralioglu, Dilber Ademhan Tural, Canan Caka, Birce Sunman, Deniz Dogru, Ugur Ozcelik, Nural Kiper
358	**Blood gas analysis to predict survival in patients with cystic fibrosis** Johanna Manuela Kurz (Bern, Switzerland), Ben Spycher, Romy Rodriguez, Reta Fischer Biner, Philipp Latzin, Florian Singer
359	**Performance of impulse oscillometry and spirometry for the diagnosis of acute exacerbations of cystic fibrosis in adults** Timothée Blin (Tours, France), Thomas Flament, Julie Mankikian, Arnaud Chambellan, Sylvain Marchand Adam, Laurent Plantier
360	**Sleep duration and activity of exacerbated and non-exacerbated cystic fibrosis patients during their hospital stay** Carolin-Maria Linker (Dortmund, Germany), Svenja Straßburg, Sarah Dietz-Terjung, Matthias Welsner, Sebastian Brato, Christian Taube, Christoph Schöbel, Jürgen Götze, Gerhard Weinreich
361	**Rescue of CFTR function impaired by mutations in exon 15** Kelly Martinovich (Perth (WA), Australia), Anthony Kicic, Sue Fletcher, Steve Wilton, Steve Stick, . On Behalf Of Arest-Cf, & Waerp
362	**A retrospective observational study: Bidirectional pharmacokinetic interactions between ivacaftor-lumacaftor in cystic fibrosis** Elena Schneider (Parkville (VIC), Australia), Patrick Hanafin, Gauri Rao
363	**Clinical response to elexacaftor/tezacaftor/ivacaftor for cystic fibrosis patients in a compassionate use setting** Regina Hofland (Zeist, Netherlands), Bente Aalbers, Inez Bronsveld, Marian Kruijswijk, Suzan Schotman, Harry Heijerman
364	**Assessment of Lumacaftor/Ivacaftor therapy on physical activity and exercise tolerance in adults with cystic fibrosis** Daniela Savi (Rome, Italy), Alessandro Porcella, Andrea Gramegna, Marcello Di Paolo, Marco Vicenzi, Irene Rota, Carlotta Biglia, Barbara Messore, Emanuela Leggieri, Francesco Blasi, Paolo Palange
365	**Nasal high-flow therapy (NHFT) during exercise in patients with cystic fibrosis (CF): a randomized crossover trial** Giulia Spoletini (Leeds (West Yorkshire), United Kingdom), Ruth Watson, Kim Pollard, Wang Yng Lim, Christine Etherington, Ian Clifton, Daniel Peckham
366	**Vitamin D status correlates with lung function in children and adolescents with cystic fibrosis.** Elena Zhekaite (Moscow, Russian Federation), Elena Kondratyeva, Anna Voronkova, Viktoria Sherman, Roman Budzinsky, Aisa Zodbinova, Yulia Melyanovskaya
367	**European Cystic Fibrosis Society Clinical Trials Network (ECFS-CTN): structure and impact since 2009** Silke Van Koningsbruggen-Rietschel (Cologne, Germany), Damian G. Downey, Lieven Dupont, Fiona Dunlevy, Veerle Bulteel, Kate Hayes, Nick Simmonds, Nadine Dufeu, Hettie M. Janssens, Dorota Sands, Paola De Carli, Isabelle Sermet-Gaudelus, Kris De Boeck, Tim Lee, Isabelle Fajac
368	**Is Pulmonary Medication Adherence affected by disease severity among adult patients with Cystic Fibrosis?** Elpis Hatziagorou (Thessaloniki, Greece), Katerina Manika, S.S. Kyrvasili, E Kouroukli, E Sourla, I Lialias, S.C. Kotoulas, M Sionidou, J Kioumis, J Tsanakas
369	**Efficacy and safety of oral sildenafil in cystic fibrosis childrenwith mild to moderate lung disease** Seyed Javad Sayedi (Mashhad, Islamic Republic of Iran), Mohsen Reisi, Mohammad Reza Modaresi, Zahra Aghaii, Seyed H. Mirlohi, Hosein Rafiemanesh, Gholamreza Azizi

Pre-congress content — Session 51 — 00:00 - 23:59

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

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

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

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

370	**ERS-Survey REstrictive disorders IN long term home non-invasive VENTilation(REINVENT)** Paola Pierucci (Bari, Italy), Claudia Crimi, Annalisa Carlucci, Antoine Cuvelier, Jean Paul Janssens, Manuel Lujan, Peter-John Ijkstra, Windish Wolfram, Giovanna Elisiana Carpagnano, Onofrio Resta, Scala Raffaele

371	**Real life effect of Home Non-Invasive Ventilation (NIV) following acute hypercapnic respiratory failure (AHRF) on healthcare resource utilisation** Richard Glover (Birmingham (West Midlands), United Kingdom), Alain Al Helou, Pearlene Antoine-Pitterson, Alice Robinson, Bethany Jones, Julie Lloyd, Iyad Ismail, Rahul Mukherjee
372	**Analysis of Pneumothorax over 10 years in Non-invasive Ventilator User with Duchenne Muscular Dystrophy** Han Eol Cho (Seoul, Republic of Korea), Seong-Woong Kang, Won Ah Choi, Jang Woo Lee, Justin Byun, Myungsang Kim
373	**Non-invasive ventilation in the very old – what to expect?** Leonor Furtado Almeida Cunha (Porto, Portugal), Maria Jacob, Mafalda Van Zeller, Tiago Pinto, Miguel Gonçalves, Marta Drummond
374	**Outcome after surgical procedures in adult home ventilated patients at Ghent University Hospital. A registry study.** Eric Derom (Ghent, Belgium), Lauren Heyman, Pieter Depuydt, Luc De Baerdemaeker, Guy F. Joos
375	**Physiologic and lung function outcomes of home mechanical ventilation in chronic hypercapnic COPD patients** Cláudia Freitas (Villa Nova de Gaia, Portugal), Mariana Serino, David Araújo, Tiago Pinto, Miguel Gonçalves, Mafalda Van Zeller, Marta Drummond
376	**The impact of PAP treatment in OHS** Daniela Dantas Barreto Rodrigues (Barcelos, Portugal), Ana Luísa Vieira, Filipa Aguiar, Maria João Araújo, Diana Pimenta, Lurdes Ferreira
377	**Exacerbations between COPD patients with and without comorbid bronchiectasis treated with noninvasive mechanical ventilation- are there differences?** Mariana Serino (Braga, Portugal), Cláudia Freitas, Mafalda Van Zeller , Tiago Pinto, Patrícia Lourenço, Miguel Gonçalves, Marta Drummond
378	**Long term mechanical ventilation at home in developing country – two decades of experience** Mihail Basa (Belgrade, Republic of Serbia), Predrag Minic, Aleksandar Sovtic, Milan Rodic
379	**Is baseline type 2 respiratory polygraphy (T2RP) useful to manage patients established on home non-invasive ventilation (NIV)?** Maxime Patout (Mont-Saint Aignan, France), Gregoire Joly, Edouard Dantoing, Gwenaelle Maclaud, Elise Godeau, Kinan El Husseini, Samuel Dolidon, Diane Gervereau, Julien Pierchon, Elodie Lhuillier, Antoine Cuvelier
380	**Relationship between renal correction with chronic respiratory acidosis and prognosis in patients with chronic respiratory failure** Tomomasa Tsuboi (Joyo, Japan), Kensuke Sumi, Atsuo Sato, Takefumi Saito, Shohei Takata, Tetsuro Ohdaira, Tetsuji Kawamura, Toru Yamanaka, Masahiro Abe
381	**The effect of non-invasive ventilation on the upper airway in Motor Neurone Disease** Danielle Worsley (Bournemouth (Dorset), United Kingdom), Denise Gibson, Zoe Sherlock
382	**Mouthpiece ventilation in stable COPD (Cases description)** Lucía Méndez González (Santa Maria da Feira, Portugal), Cristina Alves, Susana Pereira, Iolanda Mota
383	**Long term outcomes of home non-invasive ventilation (NIV) in patients with chronic hypercapnic respiratory failure (CHRF) due to kyphoscoliosis.** Marcus Sim (Singapore, Singapore), Anthony Yii, Thun How Ong, Leong Chai Leow
384	**Impact of bronchiectasis in outcomes of COPD patients with home mechanical ventilation** Eduarda M. Tinoco (Porto, Portugal), Ana Rita Gigante, Carla Nogueira, Daniela Ferreira, Sara Conde, Carla Ribeiro
385	**Morbimortality of patients treated with noninvasive mechanical ventilation** Mafalda Teixeira (Amadora, Portugal), Mónica Lopes, Frederico Batista, Ana Furtado
386	**Efficiency, acceptance and tolerance of long term non invasive ventilation (NIV) in chronic respiratory failure (CRF)** Aissa Sana (Sousse, Tunisia), Ben Aicha Ikhlas, Benzarti Wafa , Omrane Asma , Abdelghani Ahmed, Garrouche Abdelhamid , Hayouni Abdelaziz , Benzarti Mohamed , Gargouri Imen
387	**Compliance with home noninvasive ventilation: is disease a relevant factor?** Marta Sousa De Sá Marques (Vila Nova de Gaia, Portugal), Ana Fonseca, Ana Rita Gigante, Carla Nogueira, Daniela Ferreira, Sara Conde, Carla Ribeiro
388	**Prolonged home mechanical ventilation in advanced pulmonary disease: clinical impact and survival** Margarida V. Matias (Ajuda, Portugal), Tiago C. Pinto, Catarina Sousa, Miguel R. Gonçalves, Marta Drummond

389 **Home mechanical ventilation in chronic hypercapnic COPD patients: impact on acute exacerbations and survival**
Cláudia Freitas (Villa Nova de Gaia, Portugal), Mariana Serino, David Araújo, Tiago Pinto, Miguel Gonçalves, Mafalda Van Zeller, Marta Drummond

Pre-congress content Session 52 00:00 - 23:59

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

404	**Bedside evaluation of swallowing function in prolonged weaning patients. Significance of a targeted speech rehabilitation in weaning outcome.** Anna Bartolini (, Italy), Guido Vagheggini, Eugenia Panait, Tommaso Solli, Tania Pacioni, Martina Salvini, Anna Zito
405	**Prehabilitation can turn inoperable patients with NSLC to operable ones?** Kalliopi Athanassiadi (Athens, Greece), Dimitrios Magouliotis, Aikaterini Katsandri, Andreas Asimakos, Niki Gianniou, Stylianos Kokkoris, Pantelis Kourgiantakis, Eirini Batsaki, Foteini Domouchtsi, Spyridon Zakynthinos
406	**A novel mobile wearable system for providing real-time monitoring of respiratory pattern, thoracic motion, and SpO2 on a tablet PC: A feasibility study** Jun Ueki (Urayasu, Japan), Keiko Hino, Emika Sano, Megumi Ikeda, Masaya Yonezawa, Hiroshi Gyobu, Yuko Sano, Hiroo Wada
407	**Portable oxygen concentrator vesus oxygen cylinder in chronic lung disease: patient preferences and psychological implications** Mauro Maniscalco (Napoli (NA), Italy), Michele Martucci, Salvatore Fuschillo, Alberto De Felice, Pasquale Moretta, Antonio Molino, Michele Vitacca

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

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

Disease(s) : Airway diseases

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

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

408	**External validation of Asthma prediction tool in the French ELFE cohort** Sadia Khan (BORDEAUX Cedex, France), Bénédicte Leynaert , Steffi Rocchi , Jacques Deblic, Christophe Marguet , Antoine Deschildre, Emeline Scherer , Gabriel Reboux, Marie Christine Delmas, Marie-Noëlle Dufourg , Corinne Bois, Marie-Aline Charles , Amandine Divaret-Chauveau, Laurence Millon, Chantal Raherison
409	**Identifying predictors for referral to a physiotherapy service for children with difficult asthma.** Charlotte Wells (Braintree, United Kingdom), Martin Cartwright, Shashivadan Hirani, Gemma Marsh, Pippa Hall, Angela Jamalzadeh, Samatha Sonnappa, Andy Bush, Louise Fleming, Segal Saglani
410	**Risk factors in early school age children predict asthma in adulthood** Laura Healy (Manchester, United Kingdom), Angela Simpson, Clare S Murray, Gina Kerry, Lesley Lowe
411	**Prevalence of and factors related to tobacco smoking in children with asthma** Hasan Yuksel (Manisa, Turkey), Adem Yaşar, Ahmet Türkeli, Canan Sule Kalkiner, Ozge Yilmaz
412	**Cardiopulmonary exercise testing in children with mild-moderate controlled asthma** Olga Lagiou (Patras, Greece), Dimosthenis Lykouras, Kiriakos Karkoulias, Sotirios Fouzas, Gabriel Dimitriou, Michael Anthracopoulos
413	**Electronic monitoring of adherence to inhaled corticosteroids in preschool children with wheeze** Yvonne Bingham (London, United Kingdom), Louise Fleming, Nina Sanghani, James Cook, Pippa Hall, Angela Jamalzadeh, Rachael Moore-Crouch, Andrew Bush, Sejal Saglani
414	**Empowering children with asthma: a framework for clinical practice based on a qualitative literature review** Lucy Gait (Liverpool, United Kingdom), Mel Longworth, Lynsey Brown, Victoria Worrall, Claire Hepworth, Neil Mingaud, Andrew Lilley, Philip Lawerence, Christopher Grime, Rebecca Thursfield, Calum Semple, Justus Simba, Ian Sinha
415	**Feasibility of an exercise challenge test in a low-resource community settings to diagnose exercise-induced airway hyperresponsiveness in children** Mohammad Shahidul Islam (Edinburgh, United Kingdom), Steve Cunningham, Salahuddin Ahmed, Samin Huq, Lima Aktar, Ashraful Islam, Abdullah H Baqui, Aziz Sheikh, Samir K Saha, Harish Nair
416	**Early prediction of childhood asthma exacerbations through a combination of statistical and machine learning approaches.** Aditya Nagori (New Delhi, India), Tavpritesh Sethi, Sushil Kumar Kabra, Rakesh Lodha, Anurag Agrawal
417	**Remote monitoring of medication and lung function of asthmatic children** Chris Landon (Ventura, United States of America), Rajoshi Biswas, Emilie Paronyan, Kaitlyn Wallace, Hannah Wicklund
418	**Prevalence trends of asthma, rhinoconjunctivitis and eczema in schoolchildren of Patras, Greece: six consecutive surveys between 1991 and 2018** Alexandros Ntzounas (, Greece), Ioannis Giannakopoulos, Panagiotis Lambropoulos, Stella Malliori, Michael Anthracopoulos, Sotirios Fouzas

419	**The impact of socio-economic deprivation on airway obstruction and inflammation in children with severe asthma: analysis of a tertiary regional clinic in the UK** Philip Lawrence (Liverpool (Merseyside), United Kingdom), Claire Hepworth, Neil Mingaud, Justus Simba, Ian Sinha
420	**The burden of severe asthma in children and youths in Europe** Susanne Harner (Regensburg, Germany), Olaia Sardón, Susanne Brandstetter, Paula Corcuera , Jose Korta, Mahmoud I. Abdel-Aziz , Paul Brinkman, Susanne J. H. Vijverberg, Anne H. Neerincx , Simone Hashimoto, Aletta D. Kraneveld, Maria Pino-Yanes, Natalia Hernandez-Pacheco, Esther Herrera-Luis, Javier Perez-Garcia, Fabian Lorenzo-Diaz, Uroš Potočnik, Mario Gorenjak, Katja Repnik, Vojko Berce, Heike Buntrock-Döpke, Christine Wolff, Elisa Valletta, Antoaneta Toncheva, Joris C. Verster, Nikki Kerssemakers, Anke H. Maitland-Van Der Zee , Michael Kabesch
421	**Why are children with asthma bullied? A quantitative analysis of bullying risk factors in the Room to Breathe cohort.** Rebecca Charles (, United Kingdom), Paul Brand, Francis Gilchrist, Johannes Wildhaber, Will Carroll

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

E-poster session: Determinants of chronic respiratory diseases

Disease(s) : Airway diseases Sleep and breathing disorders

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

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

422	**Respiratory conditions are underreported on death certificates among deceased with chronic airway obstruction** Anne Lindberg (Boden, Sweden), Lina Lindberg, Sami Sawalha, Helena Backman, Ulf Nilsson, Caroline Stridsman, Bo Lundbäck, Eva Rönmark
423	**Predictors of permanent detachment from the workforce after acute exacerbation of chronic obstructive pulmonary disease (COPD).** Peter Ascanius Jacobsen (Aalborg, Denmark), Kristian Kragholm, Christain Torp-Pedersen, Ulla Møller Weinreich
424	**The effect of sleep-disordered breathing (SDB) on adverse consequences associated with opioid use: A population study** Tetyana Kendzerska (Ottawa (ON), Canada), Tara Gomes, Atul Malhotra, Andrea Gershon, Marcus Povitz, Daniel Mcisaac, Shawn Aaron, Frances Chung, Gregory Bryson, Robert Talarico, Tahmid Ahmed, Michael Godbout, Peter Tanuseputro
425	**Risk factor pattern for asthma in 1996, 2006 and 2016 in Sweden – the OLIN and Nordic EpiLung studies** Anne Lindberg (Boden, Sweden), Christian Schyllert, Linnea Hedman, Caroline Stridsman, Laxmi Bhatta, Hannu Kankaanranta, Päivi Piirila, Bo Lundback, Eva Ronmark, Helena Backman
426	**Growing up on a farm and multi-symptom asthma in adults >50 years by age of asthma onset** Bright Nwaru, Mona Palmqvist, Monica Arvidsson, Jan Lötvall
427	**No increase in incidence of asthma among adults** Petri Räisänen (Luleå, Sweden), Helena Backman, Linnea Hedman, Martin Andersson, Caroline Stridsman, Anne Lindberg, Bo Lundbäck, Eva Rönmark
428	**Who are the patients who die of COPD with no evidence of prior diagnosis? A UK primary care database analysis.** Alicia Gayle (London, United Kingdom), Alexandra Lenoir, Cosetta Minelli, Jennifer Quint
429	**Long-term exposure to air pollution, road traffic noise and asthma incidence: the Danish Nurse Cohort** Shuo Liu (Copenhagen, Denmark), Shuo Liu, Jeanette Therming Jørgensen, Youn-Hee Lim, Heresh Amini, Amar Jayant Mehta, Laust Hvas Mortensen, Rudi Gj Westendorp, Marie Pedersen, Steffen Loft, Elvira Vaclavik Bräuner, Matthias Ketzel, Ole Hertel, Jørgen Brandt, Steen Solvang Jensen, Torben Sigsgaard, Claus Backalarz, Mette Kildevæld Simonsen, Zorana Jovanovic Andersen
430	**Impact of Particulate Matter on Emergency Department admissions and hospitalizations for COPD Exacerbation** Laura Pini (Brescia (BS), Italy), Jordan Franz Giordani, Carlo Concoreggi, Giulia Gardini, Elena Cadone Ughi, Alessandro Pini, Roberto Magri, Guido Levi, Leonardo Pedroni, Manuela Ciarfaglia, Claudio Tantucci
431	**Perennial allergy is a modifiable risk factor for exacerbations and respiratory infections in asthma patients** Christian Woehlk (København, Denmark), Muzhda Ghanizada, Anna Von Bülow, Celeste Porsbjerg
432	**Assessment of chronic bronchitis in young adults - results from the BAMSE cohort** Gang Wang (Chengdu (Sichuan), China), Jenny Hallberg, Petra Um Bergström, Christer Janson, Göran Pershagen, Antonios Georgelis, Anna Bergström, Inger Kull, Anders Lindén, Erik Melén
433	**Age of onset of rhinitis as a determinant of different rhinitis phenotypes** Marine Savouré (Villejuif, France), Jean Bousquet, Marie Zins, Marcel Goldberg, Bénédicte Jacquemin, Rachel Nadif

434	**The Czechia COPD mortality rate declining,but total deaths increasing** Vladimir Koblizek (Hradec Králové, Czech Republic), Jiri Jarkovsky, Ladislav Dusek, Klara Benesova, Michal Svoboda, Kristian Brat
435	**Pet ownership and allergic sensitisation and asthma in childhood: findings from the EU Child Cohort Network** Angela Pinot de Moira, Katrine Strandberg-Larsen, Evelien Van Meel, Rosalie Mensink-Bout, Maja Popovic, Tim Cadman, Tiffany Yang, Johanna Thorbjørnsrud Nader, Rachel Foong, Agnieszka Jankowska, Theodosia Salika, Costanza Pizzi, Demetris Avraam, Ahmed Elhakeem, Aitana Lertxundi, Maribel Casas, Ana Esplugues, Marisa Estarlich, Jordi Sunyer, Debbie Lawlor, Jennifer Harris, Kinga Polańska, Barbara Heude, Rae-Chi Huang, Hazel Inskip, Vincent Jaddoe, Anne-Marie Nybo Andersen, Liesbeth Duijts
436	**Influence of agricultural and grey spaces proximity on biomarkers of exposure and effect: a population-based study** Sara Maio (Pisa (PI), Italy), Sandra Baldacci, Anna Angino, Eija Parmes, Juha Pärkkä, Giancarlo Pesce, Cara Nichole Maesano, Isabella Annesi-Maesano, Giovanni Viegi
437	**Life-course socioeconomic disadvantage and respiratory-related functioning lost in older adults: a multi-cohort study of 53 788 individuals** Vânia Patrícia Martins Rocha (Aveiro, Portugal), Sílvia Fraga, Carla Moreira, Cristian Carmeli, Alexandra Lenoir, Andrew Steptoe, Graham Giles, Marcel Goldberg, Marie Zins, Mika Kivimaki, Paolo Vineis, Peter Vollenweider, Henrique Barros, Silvia Stringhini
438	**COPD Awareness in the Urban Slums and Rural Communities of Pune City, India** Deesha Ghorpade (pune, India), Deesha Ghorpade, Jyoti Londhe, Sapna Madas, Nisha Kale, Arvinder Narula Pal Singh, Reshma Patil, Monica Barne, Prakash Doke, Sundeep Salvi
439	**Acute effects of air pollution on urgent hospitalizations on a general population sample: a case-cross over study** Salvatore Fasola (Palermo (PA), Italy), Sara Maio, Sandra Baldacci, Claudio Gariazzo, Francesco Forastiere, Stefania La Grutta, Massimo Stafoggia, Giovanni Viegi, Beep Collaborative Group

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

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

Disease(s) : Interstitial lung diseases Airway diseases

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

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

440	**A cohort of patients with a progressive fibrosing phenotype of interstitial lung disease (PF-ILD) other than idiopathic pulmonary fibrosis (IPF): the PROGRESS study** Mouhamad Nasser (Bron, France), Sophie Larrieu, Salim Si-Mohamed, Kais Ahmad, Loïc Boussel, Marie Brevet, Lara Chalabreysse, Céline Fabre, Sébastien Marque, Didier Revel, Francoise Thivolet-Bejui, Julie Traclet, Sabrina Zeghmar, Delphine Maucort-Boulch, Vincent Cottin
441	**Progressive fibrosing interstitial lung diseases (PF-ILDs): prevalence and characterization in two Italian referral centers** Paola Faverio (Limbiate (MI), Italy), Roberto Cassandro, Martina Piluso, Federica De Giacomi, Matteo Della Zoppa, Sergio Alfonso Harari, Fabrizio Luppi, Alberto Pesci
442	**The incidence of Progressive Fibrotic Interstitial Lung Diseases (PFILD) treatable with oral-antifibrotic therapy in a UK Specialist Interstitial Lung Disease clinic.** Thomas Simpson (Richmond, United Kingdom), Alex West
443	**Baseline CT thorax fibrosis using a cutoff of 10% alone does not portend a poorer prognosis in non-IPF ILD** Michelle Kam (Singapore, Singapore), Yi Hern Tan, Su Ying Low
444	**Epidemiology and mortality of non-idiopathic pulmonary fibrosis (IPF) progressive fibrosing interstitial lung disease (PF-ILD) using the French national health insurance system (SNDS) database in France: the PROGRESS study** Mouhamad Nasser (Bron, France), Sophie Larrieu, Loïc Boussel, Salim Si-Mohamed, Fabienne Diaz, Sébastien Marque, Jacques Massol, Didier Revel, Francoise Thivolet-Bejui, Lara Chalabreysse, Delphine Maucort-Boulch, Vincent Cottin
445	**Serum KL-6 identifies ILD patients with a progressive fibrosing phenotype** Maria Kokosi (London, United Kingdom), Athina Trachalaki, Carmel Stock, Jackie Donovan, Elisa Tsitoura, Vasileios Kouranos, Peter M George, Phil L Molyneaux, Felix Chua, Toby M Maher, Elisabetta A Renzoni, Nikolaos Tzanakis, Athol U Wells, Katerina Antoniou

446	**Telomere-Related Gene mutations in a Greek cohort of suspected monogenic pulmonary fibrosis patients** Effrosyni D. Manali (Athens, Greece), Caroline Kannengiesser, Raphael Borie, Ibrahima Ba, Demosthenes Bouros, Vasilios Tzilas, Argyrios Tzouvelekis , Evangelos Bouros, Aikaterini Markopoulou, Katerina Antoniou, Athina Trachalaki, Lykourgos Kolilekas, Zoe Daniil , Evangelia Fouka, Despoina Papakosta, Areti Xyfteri, Ioanna Korbila, Andriana I Papaioannou , Ioannis P. Tomos, Anna Karakatsani, Stylianos Loukides, Konstantinos Kagouridis , Athina Gogali , Athanasios Konstantinidis, Paschalis Steiropoulos, Ilias C. Papanikolaou , Chrysa Bazaka, Aggeliki Haritou , Maria Maniati, Theodoros Vassilakopoulos, Evangelos Markozannes, Panagiotis Lyberopoulos, Nikolaos Malamadakis , Sofia Spyropoulou , Patrick Revy , Elodie Lainey , Philippe Dieudé, Nadia Nathan , Marie Legendre , Khedidja Rebah, Christelle Ménard, Claire Oudin, Catherine Boileau , Bruno Crestani , Spyros Papiris
447	**Study of IPF relatives as a method of early diagnosis of ILD disease** OLAIA Bronte Moreno (GALDAKAO, Spain), Myriam Aburto, Amaia Urrutia, Carmen Jaca, Maria Iciar Arrizubieta, Miren Begoñe Salinas, Laura Tomás, Iñaki Salegui
448	**A family history of ILD is a significant risk factor for worse transplant-free survival in IPF patients** Tinne Goos (Leuven, Belgium), Laurens De Sadeleer, Eric Verbeken, Geert Verleden, Johny Verschakelen, Jonas Yserbyt, Stijn Verleden, Wim Wuyts
449	**The study of telomere associated genes and telomere measurement in Idiopathic Pulmonary Fibrosis** Halime Yıldırım (İstanbul, Turkey), Birsen Pınar Yıldız, Ender Mehmet Coşkunpınar
450	**Clinical characteristics and prognosis of fibrotic nonspecific interstitial pneumonia** Hyun Kyu Cho (Seoul, Republic of Korea), Hongseok Yoo, Seungbum Wi, Kyung Soo Lee, Myung Jin Chung, Joungho Han, Man Pyo Chung
451	**Extracellular HSP90a promotes cellular senescence in pulmonary fibrosis through TGFß signaling** zhong wenshan (Guangzhou, China), Hangming Dong, Jinming Zhang, Yuanyuan Liu, Weimou Chen, Cuiping Ye, Xuan Wan, Shaoxi Cai
452	**Extracellular HSP90a promotes pulmonary fibrosis by impairing autophagic flux in lung fibroblasts** jinming zhang (Guangzhou, China), Hangming Dong, Wenshan Zhong, Weimou Chen, Yuanyuan Liu, Xuan Wan, Cuiping Ye, Shaoxi Cai
453	**Identification of profibrotic cells in the Idiopathic Pulmonary Fibrosis (IPF) lung** Panagiotis Benos (Pittsburgh, United States of America), Minxue Jia, Maria Kapetanaki, Tamara Cruz, Tracy Tabib, Ana Mora, Robert Lafyatis, Mauricio Rojas
454	**Effects of a TRPV4 antagonist and pirfenidone on idiopathic pulmonary fibrosis** Koji Kuronuma (Sapporo, Japan), Masato Wakabayashi, Takeshi Yoshioka, Tomofumi Kobayashi, Masami Kameda, Mitsuo Otsuka, Hirofumi Chiba, Hiroki Takahashi
455	**Cigarette-decreased NAD/SIRT1 aggravates pulmonary fibrosis by promoting senescence of alveolar type 2 cells through autophagy inhibition and mitochondrial oxidative stress induction** Yue Zhang (, China), Ying Meng
456	**LSC - 2020 - Characterizing lung resident mesenchymal stem cells in idiopathic pulmonary fibrosis patients** Aina Martin (Palma, Spain)
457	**Characterizing lung resident mesenchymal stem cells in idiopathic pulmonary fibrosis** Aina Martin (Palma, Spain), Andreas Jahn, Carlos Rio, Amanda Iglesias, Josep Mercader, Ana Montes, Catalina Crespi, Jaume Pons, Julio Velasco, Cristina Villena, Angel F. Carvajal, Orlando Gigirey, Linda Elowson, Gunilla Westergren-Thorsson, Maria Molina, Ernest Sala-Llinas

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

E-poster session: Multidrug-resistant tuberculosis

Disease(s) : Airway diseases

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

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

458	**Diagnostic utility of Primary Line Probe Assay in Extrapulmonary Tuberculosis** Deepak Muthreja (Nagpur (Maharashtra), India), Rajesh Swarnakar, Anil Sontakke
459	**Bioresorbable polymer structures - promising carriers for prolonged forms of anti-tuberculosis drugs** Tatiana Smirnova (Moscow, Russian Federation), Evgeny Antonov, Sofya Andreevskaya, Sergei Bogorodski, Larisa Chernousova, Vladimir Popov
460	**Trends in tuberculosis notification and treatment in Georgia** Nana Kiria (Tbilisi, Georgia), Zaza Avaliani, Mamuka Chincharauli, Lali Mikiashvili

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

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

E-poster session: Tuberculosis and comorbidities

Disease(s) : Airway diseases

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

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

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

495	**Efficacy of intravenous isoniazid, rifampin and ethambutol administration in patients with failed treatment of tuberculosis and malabsorption syndrome** Tatiana Butova (Kharkiv, Ukraine), Mykhailo Kuzhko, Mykola Gumeniuk, Dmytro Butov
496	**Primary drug resistance in women with lung tuberculosis diagnosed during pregnancy, after delivery and within following 3 years.** Svetlana Goponiako (Gomel, Belarus), Irina Buynevich, Dmitriy Ruzanov
497	**Social determinants and co-morbidities of patients with extensively drug resistant tuberculosis** Liubov Parolina (Moscow, Russian Federation), Olga Otpuschennykova, Natalia Kazimirova, Natalia Doktorova

Pre-congress content Session 58 00:00 - 23:59

E-poster session: Tuberculosis and adverse events in different populations

Disease(s) : Respiratory critical care

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

Chairs : Dennis Falzon (Genève, Switzerland), Onno Akkerman (Groningen, Netherlands)

498	**Hyperuricemia in patients with newly detected MDR tuberculosis.** Rizvan Abdullaev (Moscow, Russian Federation), Elena Chumakova , Oksana Komissarova
499	**Predisposition to the development of depressive states in patients with M/XDR TB** Tatiana Butova (Kharkiv, Ukraine), Oleksiy Denysov, Tetiana Sprynsian, Dmytro Butov
500	**Side effects of tuberculosis chemotherapy: intestinal dysbiosis** Svetlana Kayukova (Moscow, Russian Federation), Zhanna Luluyeva , Tatevik Bagdasaryan, Atadzhan Ergeshov
501	**Psychiatric Complications in Patients Receiving Treatment for Multi-Drug Resistant Tuberculosis** Poulomi Chatterjee (Gurgaon (Haryana), India), Sameer Kotalwar, Vipin Goyal, Kapil Sharma
502	**Methods of bronchopleural fistulas prevention in MDR-, XDR TB patients after pneumonectomies** Alexander Bazhenov (Ekaterinburg, Russian Federation), Igor Motus, Petr Kholniy, Nataliya Raevskaya, Igor Medvinskiy, Dmiriy Kuznetsov
503	**Long-term effectiveness of surgery treatment of TB patients** Evgeny Belilovskiy (Moscow, Russian Federation), Michael Sinitsyn, Sergey Borisov, Marina Matveeva, Sergey Rostovtsev
504	**Characteristics and risk factors for missed pulmonary tuberculosis** Sehyun Kwak (Seoul, Republic of Korea), Joon Chang, Young Sam Kim, Moo Suk Park, Ji Ye Jung, Kyung Soo Chung, Song Yee Kim, Sang Hoon Lee, Su Hwan Lee, Ah Young Leem, Young Ae Kang
505	**Prevalence and characteristic of drug-resistant tuberculosis patients in South Halmahera District, eastern Indonesia** Atit Puspitasari Dewi (Jakarta, Indonesia)
507	**Do PLHIV know and adhere to Isoniazid preventive therapy in health facilities in Southeast Nigeria?** Ijeoma Nkem Nina Okedo (Abakaliki, Nigeria), Ifeyinwa Akamike, Lawrence Ogbonnaya
508	**Barriers and facilitators of a latent tuberculosis screening and treatment programme of recent migrants** Kathryn O'Brien (New YOrk, United States of America), Sabina Ikram, Matthew Burman, Heinke Kunst
509	**Barriers in accessing the specialised healthcare providers in homeless patients with tuberculosis** Andrei Ungurean (Chisinau, Republic of Moldova), Alina Malic, Evelina Lesnic
510	**Pulmonary Tuberculosis seasonality in Tunisia** Abir Hedhli Ep Cherni (tunis, Tunisia), Safa Marzouki, Meriem Mjid, Yacine Ouahchi, Sana Cheikhrouhou, Jouda Cherif, Sonia Toujani, Samira Merai
511	**A study on prevalence of latent tuberculosis in prison inmates of a single outdoor prison in central Sri Lanka** Sachini Seneviratne (Kandy (CP), Sri Lanka), Dushantha Madegedara, Ruwantha Edirisinghe, Birendra Perera, Lihini Basnayake, Sajani Dharmadasa, Ishelda Nawarathne, Prasanna Wijerathne, Anushika Luckmy
512	**Delay in tuberculosis diagnosis and treatment in Bissau, Guinea-Bissau** Joelma Clotilde Costa Da Silva (Vila Nova de Gaia, Portugal), Emília Marcelina Dos Santos, Dionisio Mendes, Raquel Duarte

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

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

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

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

517 **Characteristics of younger versus elderly patients with pulmonary tuberculosis diagnosed at respiratory department**
Ho Lam Nguyen (Hồ Chí Minh, Vietnam)

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

E-poster session: Diagnostic challenges in tuberculosis

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

Chairs : Daniela Maria Cirillo (Milano (MI), Italy), Lorenzo Guglielmetti (Paris, France)

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

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

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

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

522 **Challenges of diagnosing tuberculous pleural effusion in children: a study of 135 cases**
Elena Lupu (Chisinau, Republic of Moldova), Stela Kulcitkaia, Evelina Lesnic

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

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

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

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

527 **Genetic risk score constituted by Toll-like receptor and matrix metalloproteinase single nucleotide polymorphisms helps predict tuberculosis status progression**
Lun-Che Chen (New Taipei City, Taiwan), Han-Ching Yang, Meng-Rui Lee, Jann-Yuan Wang, Jen-Chung Ko

528	**Identification of cultures consisting of two species of mycobacteria from patients in the Russian Federation** Tatiana Smirnova (Moscow, Russian Federation), Atadzhan Ergeshov, Sofya Andreevskaya, Elena Larionova, Irina Andrievskaya, Ekaterina Kiseleva, Larisa Chernousova
529	**Accuracy of the XPert MTB/ RIF® in Broncoalveolar Lavage and Induced Sputum at Tertiary Care Hospital in Rio de Janeiro, Brazil** Ana Paula Santos (Rio De Janeiro (RJ), Brazil), Luana Souza Andrade, Fernanda C. Q. Mello
530	**Role of bronchial aspirate samples for the diagnosis of pulmonary tuberculosis in patients with negative smear and negative Xpert MTB/Rif in sputum** Dumitru Chesov (Chisinau, Republic of Moldova), Jan Heyckendrof, Doina Rusu, Oxana Munteanu, Elena Chesov, Victor Cozlovschi, Valeriu Crudu, Christoph Lange, Victor Botnaru
531	**Rapid and Sensitive Diagnosis of Tuberculosis with a Gene-based Microfluidic Platform** Sei Won Lee (Seoul, Republic of Korea), Young Ae Kang, Choong Eun Jin, Yong Shin, Sung-Han Kim
532	**Analysis of circular RNAs expression profile in tuberculous pleurisy** Qiang Xiao, Xi Li, Fu Rong
533	**Comparison of the results HRCT and SPECT with 99mTc-technethril in detection the tuberculosis process in children** Stanislav Mikhaylov (Moscow, Russian Federation), Stanislav Mikhaylov, Natalya Yukhimenko, Natalya Karpina, Rasul Amansakhedov, Andrey Perfiliev
534	**The yield of bronchoscopy in sputum Xpert MTB/Rif negative tuberculosis in the Xpert era.** Rajagopal T. V. (Neyveli (Tamil Nadu), India), Barney Isaac, Devasahayam J Christopher, Balamugesh Thangakunam, Richa Gupta, Prince James
535	**The assessment of Detection Acid Fast Bacilli in specimens of radial EBUS and conventional bronchoscopy and concordance in the diagnosis of pulmonary TB.** Irina Shabalina (Moscow, Russian Federation), Ilya Sivokozov, Dmitry Dedushkin, Tatyana Smirnova, Svetlana Shishova, Natalya Karpina
536	**A set of microRNA markers of active tuberculosis.** Galina Shepelkova (Moscow, Russian Federation), Vladimir Evstifeev, Anush Ergeshova, Alexander Guskov, Mamed Bagirov, Vladimir Yeremeev

Pre-congress content — Session 60 — 00:00 - 23:59

E-poster session: Clinical and functional evaluation of COPD

Disease(s) : Airway diseases | Sleep and breathing disorders | Interstitial lung diseases

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

Chairs : Zsófia Lázár (Budapest, Hungary), Anirban Sinha (Amsterdam, Netherlands)

537	**Impact of systemic inflammation on frequency and severityof mental disorders in COPD patients (pts)** Lyudmyla Konopkina (Dniepropetrovsk, Ukraine), Yuliia Huba, Tetyana Pertseva, Daria Koval
538	**Monitoring physical activity in COPD patients – a monocentric, prospective cohort study** Maximilian Bösch (St.Gallen, Switzerland), Frank Rassouli, Verica Filipin-Horvath, Sandra Widmer, Florent Baty, Martin H. Brutsche
539	**The underestimated subjectivity of the COPD assessment test** Rebeca Martins Natal (Guarda, Portugal), Ana Pais, Jorge M. R. Gama, Fátima Rodrigues, Luís Vaz Rodrigues
540	**Applying reference equations for 6-minute walking test in COPD and ILD patients** Daniel Oliveira Reis (Ovar, Portugal), Pedro Oliveira, Joana Gomes, Ricardo Lima, Miguel Guimarães, Inês Ladeira
541	**Significance of brain network on physical activity among obstructive lung disease** Tsunahiko Hirano (Ube, Japan), Tomohiro Donishi, Syun Takahashi, Kazuyoshi Suga, Keiko Doi, Taiga Tsukamoto, Keita Murakawa, Ayumi Chikumoto, Yuichi Ohteru, Kazuki Matsuda, Kazuki Hamada, Ryo Suetake, Yoriyuki Murata, Keiji Oishi, Yoshikazu Yamaji, Maki Asami-Noyama, Nobutaka Edakuni, Tomoyuki Kakugawa, Kazuto Matsunaga
542	**Clinical prognostic tools and their use in COPD.** Nicholas Lane (Newcastle Upon Tyne, United Kingdom), Sarah Gillespie, Tom Hartley , Carlos Echevarria , John Steer, Stephen Bourke
543	**Assessment of thyroid function tests in COPD phenotypes** AYCAN YUKSEL (Ankara, Turkey), Evrim Eylem Akpinar, Esen Sayin Gulensoy, Nalan Ogan, Aslihan Alkan

544	**Comparative Efficacy of Long-Acting Muscarinic Antagonists in COPD: Real Life Study** Edin Jusufovic (Tuzla, Bosnia and Herzegovina), Vladimir Zugic, Mitja Kosnik, Mirjana Jovancevic Drvenica, Sanja Hromis, Jasmina Nurkic , Mona Al-Ahmad, Ljiljana Bulat Kardum, Rifat Sejdinovic, Besim Prnjavorac, Azra Jusufovic
545	**The association between airway hyperresponsiveness to mannitol and T2 inflammatory markers in asthma versus COPD** Celeste Michala Porsbjerg (Copenhagen, Denmark), Ditte Klein, Therese Sophie Lapperre, Morten Hvidtfeldt, Asger Sverrild, Uffe Bødtger, Kerstin Romberg, Leif Bjermer, Jonas Erjefält, Karsten Kristiansen
546	**Non-contact Doppler radar screening system for the detection of COPD** Hiroki Nishine (Kawasaki (Kanagawa), Japan), Hiroki Takamoto, Guanghao Sun, Shohei Sato, Takeo Inoue, Takemi Matsui, Masamichi Mineshita
547	**Useful malnutrition diagnostic criteria for stable COPD in Japanese patients** Hiroyuki Nakamura (kagawa, Japan), Nobuyuki Kita, Chiaki Kunikata, Kiyotaka Tanimoto, Teruhisa Taoka
548	**Feasibility of daily vital signs monitoring (VSM) in COPD** Grace France (Leicester, United Kingdom), Neil J Greening, Dale Esliger, Michael C Steiner, Sally J Singh, Mark W Orme
549	**Heart remodeling in patients after St-segment elevation myocardial infarction with and without concomitant COPD.** Alexandra Balitskya (Barnaul, Russian Federation), Elena Klester, Karolina Klester, Valentina Yarkova, Victor Nikitin
550	**Screening for COPD with a portable spirometer among hospitalised smokers** Katarzyna Mycroft (Warszawa, Poland), Piotr Jankowski, Olga Żelazna, Marcin Zagaja, Kornelia Woźniczko, Urszula Szafrańska, Mikolaj Kutka, Piotr Korczyński, Lukasz Koltowski, Grzegorz Opolski, Rafal Krenke, Katarzyna Gorska
551	**Decaf score for predicting treatment escalation in exacerbations of COPD** Caroline de Boer (Apeldoorn, Netherlands), Margot Van Den Berg-Ter Veer, Roy Sprooten, Frits Franssen, Sami O. Simons
552	**Alveolar nitric oxide in a COPD cohort in Sweden over 2-year follow-up** Marieann Högman (Uppsala, Sweden), Alexandra Thornadtsson, Björn Ställberg, Karin Lisspers, Kristina Bröms, Christer Janson, Andrei Malinovschi
553	**Metronome-paced incremental hyperventilation can be used to predict dynamic lung hyperinflation and exercise tolerance during exercise** Shohei Kawachi (Matsumoto, Japan), Fujimoto Keisaku
554	**History of pulmonary tuberculosis was associated with lung microbiome change in patients with chronic obstructive pulmonary disease** Yen-Fu Chen (Yun-Lin County, Taiwan), Hsin-Han Hou, Jung-Yien Chien, Chin-Chung Shu, Shih-Lung Cheng, Hao-Chien Wang , Chong-Jen Yu
555	**How can we improve availability of quality assured spirometry for patients admitted with an exacerbation of COPD?** Ciaran Mooney (London, United Kingdom), Luke Hone, Oscar Atkins

Pre-congress content Session 61 00:00 - 23:59

E-poster session: Mechanistic insight into lung injury and repair

Disease(s) : Airway diseases | Respiratory critical care | Thoracic oncology | Interstitial lung diseases | Pulmonary vascular diseases

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

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

556	**Feeder-free organoid-based expansion of primary alveolar cells: application of Organs-on-Chips technology to investigate the effect of long-term cyclic stretch** Anne M. van der Does (Leiden, Netherlands), Sander Van Riet, Annemarie Van Schadewijk, Padmini P.S.J. Khedoe, Jan Stolk, Geraldine A. Hamilton, Pieter S. Hiemstra
557	**Overexpression of ISCU can extenuate mitochondrial damage, reduce EMT and bleomycin-induced pulmonary fibrosis** Lian Liu (Chengdu (Sichuan), China), Zhicheng Yuan, Wang Tao, Fuqiang Wen
558	**Resolvin E3 reduces profibrotic factor production from macrophages leading to tissue homeostasis** Masakiyo Yatomi (Maebashi, Japan), Yasuhiko Koga, Haruka Saito, Makiko Sato, Hiroaki Tsurumaki, Kenichiro Hara, Noriaki Sunaga, Toshitaka Maeno, Hiroyuki Ikeda, Hayato Fukuda, Shouta Arai, Koichi Fujiwara, Satoshi Shuto, Takeshi Hisada

559	**Overexpression of fatty acid synthase attenuate bleomycin induced lung injury/fibrosis via restoring mitochondrial dysfunction** Sung Woo Park (Bucheon, Republic of Korea), Soo Taek Uh, Do Jin Kim, An Soo Jang, Aee Rin Baek, June Hyuk Lee
560	**ECM-alginate microcarriers for alveolar regeneration in COPD** Deniz Ali Bölükbas (Lund, Sweden), Zaid Rahman, Sinem Tas, Sandra Lindstedt, Han Gardeniers, Arturo Susarrey Arce, Darcy Wagner
561	**Low-level laser boosts extracellular matrix cues and enhances acellular lung scaffold recellularization** Leticia Lopes Guimarães (São Paulo, Brazil), Leticia Lopes Guimarães, Aurileia Aparecida De Brito, Tawany Gonçalves Santos, Andressa Daronco Cereta, Luis Vicente De Oliveira, Ana Paula Ligeiro De Oliveira, Renata Kelly Da Palma
562	**Endoplasmic Reticulum Stress in Respiratory Muscle Dysfunction of Congenital Generalized Lipodystrophy Subjects** Julliane Tamara Araújo de Melo Campos (Natal, Brazil), Aquiles Sales Craveiro Sarmento , Jorge Luiz Dantas De Medeiros , Bruno Carneiro Bezerra , Lucien Peroni Gualdi , Josivan Gomes Lima , Lucymara Fassarella Agnez-Lima
563	**Utility of decellularization in the reconstruction of large length tracheal defects. Experimental study.** Jose Alfredo Santibanez-Salgado (México D.F, Mexico), Jaime Villalba-Caloca, Avelina Sotres-Vega, David Mauricio Giraldo-Gómez, Sergio Martínez-Fonseca, Miguel Octavio Gaxiola-Gaxiola, Cristina Piña-Barba, Jazmín García-Montes, Marcelino Alonso-Gómez
564	**Determinants of Airflow Limitation in Chronic Obstructive Pulmonary Disease** Vasiliy Polosukhin (Nashville, United States of America), Sergey Gutor, Bradley Richmond, Timothy Blackwell
565	**Investigation of possible role of serum fibulin as biomarker of COPD.** Tanya Tacheva (Stara Zagora, Bulgaria), Dimo Dimov, Yanitsa Zhelyazkova , Muhammad Zafar , Tatyana Tatyana
566	**Potential biomarkers in patients with chronic obstructive pulmonary disease (COPD)** George Samanidis, Konstantinos Perreas, Christos Verikokos , Konstantinosos Kontzoglou, Despina Perrea, Panagiotis Demertzis, Georgia Hardavella
567	**Protective effect of inhaled glucocorticosteroids on COPD model.** Olga Titova (St. Petersburg, Russian Federation), Natalya Kuzubova, Elena Lebedeva
568	**Adenosine-related mechanisms in the COPD pathogenesis in pulmonary tuberculosis (PT) patients** Larisa Kiryukhina (St. Petersburg, Russian Federation), Marina Dyakova, Nataliia Serebryanaya, Diljara Esmedlyaeva, Piotr Yablonskii
569	**The role of pendrin in acute lung injury caused by ventilator-induced lung injury** Ji Soo Choi (Seoul, Republic of Korea), Mi Hwa Shin, Eun Hye Lee, Ju Hye Sin, Jae Young Choi, Moo Suk Park
570	**The activity of the inflammatory process and markers of an extracellular matrix destruction in pulmonary tuberculoma** Larisa Kiryukhina (St. Petersburg, Russian Federation), Diljara Esmedlyaeva, Nina Alexeeva, Tatiana Novitskaya , Marina Dyakova , Eugene Sokolovich
571	**Moderate and severe hyperoxia in preterm rabbits: airway reactivity, forced expiration and forced oscillation outcomes** Yannick Regin (Brussels, Belgium), André Gie, Arianna Mersanne, Jeroen Vanoirbeek, Jaan Toelen
572	**Duration of home oxygen therapy and postnatal catch-up growth in bronchopulmonary dysplasia** Manisha Ramphul (Leicester (Leicestershire), United Kingdom), Anna Poghosyan, Dushyant Batra, Andrew Prayle, Jayesh M Bhatt
573	**Gene expression and cellular profiling in a rat bleomycin model of drug-induced interstitial lung disease (DIILD)** Irma Mahmutovic Persson (Lund, Sweden), Nina Fransén Pettersson, Jian Liu, Hanna Falk-Håkansson, Lars E. Olsson, Karin Von Wachenfeldt
574	**Delivery and efficacy of synthetic oligonucleotide vectors to an ARDS model by vibrating mesh nebulisation** Sean McCarthy (Galway, Ireland), Matthew Angel, Christopher Rohde, Ronan Macloughlin, Claire Masterson, John Laffey, Daniel O'Toole

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

E-poster session: Challenges and updates in nursing care around the world

Disease(s) : Sleep and breathing disorders | Airway diseases | Thoracic oncology | Respiratory critical care | Interstitial lung diseases

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

Chairs : Miguel Padilha (Porto, Portugal), Andreja Sajnic (Zagreb, Croatia)

575	**Anxiety and depression in Dutch patients with Primary Ciliary Dyskinesia:Associations with health-related quality of life** Marieke Verkleij (Amsterdam, Netherlands), Eric Haarman, Iris Appelman, Irma Bon, Josje Altenburg, Alexandra L. Quittner
576	**Nurse-provided education improves adherence and quality of life in adult patients with cystic fibrosis** Tihana Odobasic Palkovic (Zagreb, Croatia), Duska Tjesic-Drinkovic, Dorijan Tjesic-Drinkovic, Irena Godic, Ivana Lalic, Andreja Sajnic, Sandra Karabatic, Andrea Vukic Dugac
577	**Self-cope cards: a pilot study with children affected by cystic fibrosis** Annamaria Bagnasco (Genova (GE), Italy), Gianluca Catania, Nicoletta Dasso, Ornella Corsi, Chiara Benzan, Veronica Pisano, Martina Zerbinati, Milko Zanini, Loredana Sasso
578	**Efficacy of an individualized discharge planning program in rib fracture patients with and without lung injury after six months follow up.** Maria Granados Santiago (Alcaudete, Spain), Janet Rodríguez Torres, Esther Prados Román, Laura López López , Georgina Jiménez Lozano, Marie Carmen Valenza
579	**Impact of nursing intervention on the measurement of sleepiness** Juan Lozano Lozano (Mijas (Málaga), Spain), Luis Fernandez De Rota Garcia, Dolores Garnica Báez
580	**Inspiratory muscle training may improve extubation outcome in critically ill patients in the intensive care units.** Qiao Qiao (Changchun, China)
581	**A pilot study to establish if the use of target saturation wristbands for community respiratory patients improves patient safety.** Sheilagh McCrossan (Canterbury (Kent), United Kingdom), Clair Gough, Jo Hobbs
582	**Improving patient communication and nursing training in bronchoscopy** Cielito Caneja (Croydon (Surrey), United Kingdom), Ines Meireles, Robin J Hardie, Stefan D Garner, Andrew Sykes, Maria Pashouros, Samuel V Kemp, Pallav L Shah, Justin L Garner
583	**Switching to maintenance and reliever inhaled corticosteroid/long acting beta agonist: a real-world pilot evaluation in a regional paediatric difficult asthma clinic.** May Al-moasseb (CLEETHORPES, United Kingdom), Victoria Worrall, Philip Lawrence, Ian Sinha
584	**Use of relievers in patients with severe asthma on biologic therapy –a multidisciplinary approach** Mariana Rezelj (Stahovica, Slovenia), Peter Kopač, Irena Počvavšek, Jana Tršan, Tina Morgan, Sabina Škrgat
585	**Alpha 1 antitrypsin deficiency prevalence measured by genetic testing with salivary swab in patients with chronic airway obstruction** Walther Ivan Giron Matute (Madrid, Spain), Margarita Hernandez Yañez, Rosa Maria Rojas Moreno-Tomé, María Gallardo Bermejo, Angela Gómez Sacristán, Barbará Escalonilla Bautista, Maria Del Carmen Suarez Rubio, Jose Javier García López , Luis Puente Maestu
586	**MAINTAINING PULMONARY REHABILITATION EFFECTS IN COPD PATIENTS AT HOME – A PROTOCOL STUDY** Duarte Pinto (Porto, Portugal), Miguel Padilha, Paulino Sousa, Paulo Puga Machado
587	**What respiratory teaching is currently being delivered to pre-registration nurses in the United Kingdom?** Nicola J. Roberts (Glasgow (Glasgow), United Kingdom), Kate Lippiett, Carol Kelly
588	**Role of the pleural clinical nurse specialist in improving the patient pathway** Laura Mcnaughton (Glasgow, United Kingdom), Selina Tsim, Carolyn Macrae, Katie Ferguson, Jenny Ferguson, Kevin Blyth
589	**The cost of the clinic visit - a short research project exploring the cost of clinic appointments, financial and otherwise, to families visiting Alder Hey Children's Hospital** Bethan Chadwick (LIVERPOOL, United Kingdom), Polly Hayden , Ian Sinha
590	**What influences patient choice of antifibrotic treatment in IPF?** Geraldine Burge (Solihull (West Midlands), United Kingdom), Emma Briggs, Helen Alldrick, Mary Bellamy, Sherwood Burge, Gareth Walters
591	**Hospital at home for hypoxaemic patients: extending the remit of community respiratory care** Emma Rickards (St Helens (Merseyside), United Kingdom), Cenk Alhan, Mark Ambrose, Nikki Glover, Dennis Wat, Sarah Sibley, Rob Peat

592	**Overnight nasogastric tube (NGT) feeding in children on non-invasive ventilation (NIV): Prevalence, feeding strategies and aspiration risk.** Garry Rendle (Hitchin, United Kingdom), Katie O'Brien, Elaine Chan

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

E-poster session: Cellular stress in respiratory diseases

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

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

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

593	**Late Breaking Abstract - Hypoxia-induced responses to mimic ongoing remodelling processes in chronic lung diseases** Anna Löfdahl (Lund, Sweden), Anas Rabata, Olivia Berggren, Rabeea Mirza Tahir, Martin Ryde, Leif Bjermer, Gunilla Westergren-Thorsson, Ellen Tufvesson, Anna-Karin Larsson Callerfelt
594	**Late Breaking Abstract - Contribution of STIM-activated TRPC-ORAI channels to the intermittent hypoxia-induced pulmonary hypertension** Sebastian Castillo (Santiago, Chile), German Arenas, Bernardo Krause, Rodrigo Iturriaga
595	**Late Breaking Abstract - Impact of cyclic stretch on lung mesenchymal stem cells cultured on lung-extracellular matrix hydrogels** Alvaro Villarino (Barcelona, Spain), Esther Marhuenda, Bryan Falcones, Hector Sanz, Daniel Navajas, Ramon Farre, Jorge Otero, Isaac Almendros
596	**Hedgehog signalling crosstalks orchestrate human lung development** Randa Belgacemi (bezannes, France), Soula Danopoulos, Gaëtan Deslée, Valerian Dormoy, Denise Al Alam
597	**NLRP3 inflammasome conjugates with mitochondria in LPS-induced acute lung injury** So Ri Kim (Jeonju, Republic of Korea), Hee Jung Kim, Yong Chul Lee, Soon Ha Kim
598	**Flagellin induces mucus hyperproduction in 3D bronchospheres** Richard Sprott, Felix Ritzmann, Frank Langer, Yvonne Kohl, Thomas Tschernig, Robert Bals, Christoph Beisswenger
599	**Newly isolated bacteriophage multidrug-resistant Acinetobacter baumannii inhibition in ex vivo precision cut lung slices** Rita Costa (Oberschleißheim, Germany), Mohammadali Khan Mirzaei, Jinling Xue, Li Deng
600	**Association of extracellular Hsp70 with the severity of chronic obstructive pulmonary disease** Iva Hlapčić (Zagreb, Croatia), Andrea Hulina-Tomašković, Marija Grdić Rajković, Sanja Popović-Grle, Andrea Vukić Dugac, Lada Rumora
601	**Role of Extracellular HSP27 in pulmonary fibrosis** Lenny Pommerolle (Dijon , France), Olivier Burgy, Lucile Dondaine, Pierre-Marie Boutanquoi, Guillaume Beltramo, Julie Tanguy, Sabrina Loriod, Carmen Garrido, Philippe Bonniaud, Françoise Goirand
602	**Hypercapnia-induced calcium dysregulation in the endoplasmic reticulum impairs Na,K-ATPase maturation in precision-cut lung slices and alveolar epithelial cells** Vitalii Kryvenko (Zaporizhia, Ukraine), Miriam Wessendorf, Olga Vagin, Laura A. Dada, Werner Seeger, Jacob I. Sznajder, István Vadász
603	**Levels of oxidised mitochondria in BAL macrophages in fibrotic ILDs.** Eirini Vasarmidi (Heraklion (Crete), Greece), Eliza Tsitoura, Semeli Mastrodemou, Athina Trachalaki, Nikolaos Tzanakis, Katerina Antoniou
604	**Modelling IPF-associated chronic cough: role for oxidative stress?** Jonathan H. A. Miles (London, United Kingdom), James W Pinkerton, Sara J Bonvini, Eric Dubuis, Michael A Wortley, Silvia Pontis, Marcello Trevisani, Gino Villetti, Riccardo Patacchini, Philip L Molyneaux, Toby M Maher, Mark A Birrell, Maria G Belvisi
605	**Towards personalized medicine in idiopathic pulmonary fibrosis by screening exhaled volatiles in patients' primary bronchial epithelial cells** Agnes W. Boots (Maastricht, Netherlands), Carmen Veith, Michael Kreuter, Marc Schneider, Michael Meister, Agnieszka Smolinska, Frederik-Jan Van Schooten, Nicolas Kahn
606	**The study of the activity of antioxidant enzymes in exhaled breath condensate (EBC) in patients with COPD** Svetlana K. Soodaeva (Moscow, Russian Federation), I.A. Klimanov, E.A. Zaprudnova, Manas Saed, L.Yu. Nikitina, V.I. Novoselov

607	**Repeated exposure to hydrogen peroxide enhances TGF-ß and LPS dependent inflammatory responses in BEAS-2B cells** Fawziye Tarhini (Glasgow, United Kingdom), Lynette Dunning, Ann Crilly, Joanna Brzeszczynska, Lorcan Mcgarvey, Keith Thornbury, Carl S.Goodyear, John C.Lockhart, Gary J.Litherland
608	**Nrf2-regulated chaperon-mediated autophagy is involved in apoptosis modulation in COPD pathogenesis.** Yusuke Hosaka (Tokyo, Japan), Jun Araya, Yu Fujita, Kazuya Tsubouchi, Tsukasa Kadota, Masahiro Yoshida, Shunsuke Minagawa, Hiromichi Hara, Hironori Kawamoto, Naoaki Watanabe, Akihiko Ito, Akihiro Ichikawa, Nayuta Saito, Takanori Numata, Kazuyoshi Kuwano
609	**Lipocalin-2: a biomarker potentially associated with predisposition to COPD** Natalia El-Merhie (Borstel, Germany), Martin Wolff, Clemens Ruppert, Andreas Günther, Philip Hansbro, Torsten Goldmann, Susanne Krauss-Etschmann

Pre-congress content Session 64 00:00 - 23:59

E-poster session: Novel molecular markers and targets for asthma phenotypes

Disease(s) : Airway diseases

Method(s) : Cell and molecular biology Physiology

Chairs : Alen Faiz (Ultimo (NSW), Australia), Janette K. Burgess (Groningen, Netherlands)

610	**Effect of BPIFA1 replacement on allergen-induced airway hyperresponsiveness** Stephen Tilley (Durham, United States of America), Stephen Tilley, Jada Frisbee, Corey Jania, Camryn Kellogg, Austin Hoke, Jennifer Adouli, Hong Dang, Robert Tarran, Matthew Redinbo, Julianne Huang
611	**Airway gene expression identifies subtypes of Type 2 inflammation in severe asthma** Laurits Frøssing (Copenhagen V, Denmark), Alexander Silberbrandt, Anna Von Bülow, Ditte Kjærsgaard Klein, Marcus Ross Christensen, Vibeke Backer, Kathrine Baines
612	**Heat induced HSP-70 and -90 secretion by bronchial epithelium reduces airway wall remodeling in severe asthma** Lei Fang (Basel, Switzerland), Lei Fang, Junling Li, Eleni Papakonstantinou, Desiree Schumann, Michael Tamm, Daiana Stolz, Michael Roth
613	**CD6 is expressed on human airway and blood innate lymphoid cells (ILCs) and is upregulated by epithelial alarmins IL-33 and TSLP** Taylor Doherty (La Jolla, United States of America), Jana Badrani, Kellen Cavagnero , Cherie Ng, Jeanette Ampudia, Stephen Connelly , Pragnya Desai , Cindy Koziol-White, Reynold Panettieri, Davide Broide , Richard Kurten
614	**Airway hyperresponsiveness in offspring from mothers with allergic airway inflammation during pregnancy is muscarinic receptor and ADAM33 dependent.** Hans Michael Haitchi (Southampton (Hampshire), United Kingdom), Marieke Wandel, Elizabeth R Davies, Joanne F C Kelly, Stephen T Holgate, Donna E Davies
615	**BPIFA1 expression in asthmatics** Camryn Kellogg (Wilmington, United States of America), Julianne Huang, Jada Frisbee, Corey Jania, Joel Parker, Yi-Hsuan Tsai, Samir Kelada, Andrew Ghio, Stephen Tilley
616	**Circadian rhythmicity of sphingolipids in allergic asthma** Ran Wang (Manchester (Greater Manchester), United Kingdom), Ran Wang, Robert Maidstone, David Ray, Anna Nicolaou, Alexandra Kendall, Hannah Durrington
617	**Investigating the effects of interleukin-33 on rhinovirus A induced changes in asthmatic bronchial epithelial cells** Rebecca M Cooper (Nottingham, United Kingdom), Michael A Portelli, Marco Londei, Christopher E Brightling, Dominick Shaw, Simon R Johnson, David J Cousins, Ian Sayers
618	**Role of microRNAs in regulation of T17-driven airway epithelial barrier dysfunction** Elisabeth Ax (Gothenburg, Sweden), Henric Olsson, Cecilia Lässer, Zala Jevnikar, Madeleine Rådinger
619	**MicroRNA profiling in bronchial biopsies of asthma patients** Mirjam P. Roffel, Ilse M. Boudewijn, Jos Van Nijnatten, Corneel J. Vermeulen, Antoon J.M. Van Oosterhout, Karen Affleck, Ken R. Bracke, Tania Maes, Irene H. Heijink, Corry-Anke Brandsma, Maarten Van Den Berge
620	**THE ACTIVITY OF FATTY ACIDS DESATURASES IN MILD AND MODERATE ASTHMA** Yulia Denisenko (Vladivostok, Russian Federation), Tatyana Novgorodtseva, Marina Antonyuk
621	**Periostin and TSLP-a potential crosstalk in obstructive airway diseases** Patrycja Nejman-Gryz (Warszawa, Poland), Katarzyna Górska, Magdalena Paplińska-Goryca, Małgorzata Proboszcz, Rafał Krenke

622	**The downstream effects of the 17q12-21 asthma region. Is functional splicing of GSDMB the explanation?** Tessa Kole (Groningen, Netherlands), C.J. Vermeulen, M.E. Ketelaar, R Bults, G.H. Koppelman, W. Timens, V. Gurvey, H.A.M. Kerstjens, M.C. Nawijn, M. Van Den Berge
623	**Extracellular DNA traps in sputum from severe asthma patients** Yanaika Shari Sabogal Piñeros (Amsterdam, Netherlands), Barbara Dierdorp, Tamara Dekker, Els J. M. Weersink, Rene Lutter
624	**SPHINGOSINE-1-PHOSPHATE AS A KEY INDUCER OF EPITHELIAL MESENCHYMAL TRANSITION IN ASTHMATIC AIRWAYS** Fiorentina Roviezzo (Neaples (NA), Italy), Rosalinda Sorrentino, Giuseppe Spaziano, Bruno D'Agostino, Giuseppe Cirino
625	**Bronchial challenge with D. pteronyssinus changes the ratio of blood eosinophil subtypes and their biological properties in allergic asthma patients** Andrius Januskevicius (Kaunas, Lithuania), Egle Jurkeviciute, Ieva Janulaityte, Airidas Rimkunas, Beatrice Tamasauskaite, Virginija Kalinauskaite Zukauske, Jolita Palacionyte, Kestutis Malakauskas
626	**Cell type and disease specific expression of GPR68 in the human lung** Sabrina Blumer (Basel, Switzerland), Lei Fang, Michael Tamm, Daiana Stolz, Michael Roth
627	**COX-1 driven biosynthesis of PGD2 during activation of human mast cells prevents formation of other prostanoids** AnnaKarin Johnsson (Stockholm, Sweden), Jeong-Hee Choi, Elin Rönnberg, David Fuchs, Johan Kolmert, Mats Hamberg, Barbro Dahlén, Craig E Wheelock, Sven-Erik Dahlén, Gunnar Nilsson

Pre-congress content Session 65 00:00 - 23:59

E-poster session: Inhaler devices in COPD: technical advances, adherence studies and more

Disease(s) : Airway diseases

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

Chairs : Richard E. K. Russell (Lymington (Hampshire), United Kingdom), Claudio Sorino (Fino Mornasco (CO), Italy)

628	**Late Breaking Abstract - Nationwide asthma management and disease control in primary versus secondary care – a real-world evidence study** Kjell Erik Julius Håkansson (København N, Denmark), Vibeke Backer, Charlotte Suppli Ulrik
629	**Numerical simulation of the effect of inhalation parameters and disease severity on the deposition of dry powder aerosol drugs in COPD patients** Arpad Farkas (Pomáz, Hungary), Alpár Horváth, Gábor Tomisa, Gabriella Gálffy, János Varga
630	**Developing evidence-based recommendations regarding inhalation technique in patients with COPD** Lotte Hasling Kodbøl Jørgensen (Viby J, Denmark), Karoline Litrup King, Niels Lyhne , Anders Loekke
631	**How can time to COPD exacerbation be delayed? A real-world study comparing two oscillating positive expiratory pressure (OPEP) devices in patients with chronic obstructive pulmonary disease (COPD) or chronic bronchitis** Jason Suggett (London (ON), Canada), Vlad Kushnarev, Dominic Coppolo, Jenny Tse, Keiko Wada
632	**Effectiveness of an educational intervention in order to improve adherence in COPD and asthma ambulatory patients.** Juan Alcantara Fructuoso (Murcia, Spain), Juan Miguel Sánchez Nieto, Irene Fernández Muñoz, Mercedes Garci-Valera Orea, Juan Carlos Vera Olmos, Javier Fernández Álvarez
633	**COPD exacerbations and adherence to treatment improvement:what goal can be achieved?** Andrii Sidorov (Vinnitsa, Ukraine), Yuriy Mostovoy, Nataliia Slepchenko, Nataliia Tsymbaliuk, Kostiantyn Dmytriiev
634	**Spirometry parameters and adherence to COPD treatment: is there association?** Andrii Sidorov (Vinnitsa, Ukraine), Yuriy Mostovoy, Nataliia Slepchenko, Nataliia Tsymbaliuk, Kostiantyn Dmytriiev
635	**Disease awareness in COPD: Analyses of clinical parameters and patient-reported outcome from the SAT study** Fulvio Braido (Genova (GE), Italy), Ilaria Baiardini, Paola Rogliani, Pierachille Santus, Marco Contoli, Carla Scognamillo, Angelo Corsico, Nicola Scichilone, Fabio Ferri, Fabiano Di Marco
636	**Investigating the percentage of patients with COPD who could benefit from a change in inhaler** Karoline Litrup King (Århus N, Denmark), Lotte Jørgensen, Niels Lyhne, Anders Løkke
637	**Lung deposition of two bronchodilators in subjects with (COPD) when administered via standard jet nebulizer or Handihaler® using functional respiratory imaging (FRI).** Edmund Moran (South San Francisco, United States of America), Glenn Crater, Jonathan Ward, Dennis Belmans, Cedric Van Holsbeke

638	**Exercise capacity and dyspnea challenge of adult chronic obstructive lung disease (COPD) patients when using a novel mesh nebulizer compared to traditional jet nebulizer (TJN)** Cheryl Nickerson (Hartstown, United States of America), Dirk Von Hollen, Sara Garbin, Ketah Doty, Jeff Jasko, Chuck Cain
639	**Lung function evaluation and patients' satisfaction with Elpenhaler® device in Greek COPD patients with =1 comorbidity versus patients without comorbidities-AEOLOS study.** Ioanna-Laoutselnta Markou (Pikermi, Greece), Stavros Tryfon, Evaggelia Tsikrika, Georgios Krommidas, Dimitrios Lekkos, Aikaterini Athanassiou
640	**Preference and quality of life of adult chronic obstructive lung disease (COPD) patients when using a novel mesh nebulizer compared to traditional jet nebulizer (TJN)** Cheryl Nickerson (Hartstown, United States of America), Dirk Von Hollen, Sara Garbin, Ketah Doty, Jeff Jasko, Chuck Cain
641	**NEBULIZER AEROSOL DRUG DELIVERY THROUGH HIGH FLOW NASAL CANNULA IN ADULT PATIENTS** Pasquale Imitazione (Crispano, Italy), Maurizia Lanza, Raffaele Cobuccio, Salvatore Musella, Rosa Cauteruccio, Anna Annunziata, Giuseppe Fiorentino
642	**Four years of targeted education are fundametally changing the inhalation technique** Vladimir Koblizek (Hradec Králové, Czech Republic), Michal Kopecky, Libor Nevoranek, Tereza Hendrychova, Jiri Vlcek
643	**Cost Effectiveness Comparison of a Dry Powder Inhaler to a Metered Dose Inhaler plus Valved Holding Chamber based on an In-Vitro Drug Delivery Model** Mark Nagel (London (ON), Canada), Jason Suggett, Alison Ellery
644	**Computerized measurements of inhalation ability with a dry powder inhaler in patients with severe COPD** Evelina Björk (Stockholm, Sweden), Priya Thind, Mikaela Qvarfordt, Magnus Svartengren , Martin Anderson
645	**Feasibility, compliance and effects of a Mindfulness program on COPD patients** Saida Bensliman (Brussel , Belgium), Vincent Ninane, Christian Mélot
646	**Compliance of pharmacotherapy with GOLD-guidelines: a longitudinal study in patients with COPD** Matteo Bradicich (Basel, Switzerland), Fabian Alexander Grewe, Noriane Andrina Sievi, Maurice Roeder, Thomas Brack, Martin H Brutsche, Martin Frey, Sarosh Irani, Jörg Daniel Leuppi, Robert Turnheer, Christian Friedrich Clarenbach , Malcolm Kohler

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

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

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

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

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

647	**Monocyte subpopulations, airway inflammation and lung function in patients with occupational chronic obstructive pulmonary disease from exposure to industrial aerosols containing nanoparticles** Lyubov Shpagina (Novosibirsk, Russian Federation), Marina Zenkova, Anatoliy Saprykin, Ilya Shpagin, Olga Kotova, Evgeniya Logashenko, Alfiya Tsygankova, Galina Kuznetsova, Natalya Kamneva, Ekaterina Anikina, Dmitriy Gerasimenko
648	**The role of cell-derived inflammation in metal fume fever – blood count changes after exposure with zinc- and copper-containing welding fumes** Julia Krabbe (Aachen, Germany), Mara Reisgen, Katharina Thomas, Viktor Beilmann, Agnieszka Markert, Benjamin Gerhards, Thomas Krichel, Kathrin Schmidt, Thomas Kraus, Christian Martin, Peter Brand
649	**Inhalation poisoning due to Arsenic and Lead: A case series** Shubham Sharma (Jaipur (Rajasthan), India), Tarang Kulkarni, Sourav Chakraborty, Bhavin Jhankaria, Raja Dhar
650	**Comparison of socioeconomic outcomes and asthma control in patients with work-exacerbated and occupational asthma in São Paulo, Brazil** Lavinia Clara Del Roio (São Paulo (SP), Brazil), Mario Terra-Filho, Clovis Eduardo Santos Galvão, Ana Clara Pereira De Vasconcelos, Flavia Souza E Silva De Almeida, Ubiratan De Paula Santos
651	**Validation process of a questionnaire assessing knowledge level concerning occupational asthma in asthmatic patients** Nidhal Belloumi (la manouba, Tunisia), Meriem Mersni, Imene Bachouch, Mejda Bani, Fatma Chermiti Ben Abdallah, Habib Nouaigui, Soraya Fenniche

652	**Breathing pattern disorder masquerading as occupational asthma** Johanna Feary (London, United Kingdom), Julie Cannon, Paul Cullinan
653	**Around the world usage of the Oasys serial PEF plotter for the diagnosis of occupational asthma** Vicky Moore (Birmingham (West Midlands), United Kingdom), Cedd Burge, Gareth Walters, Alastair Robertson, Sherwood Burge
654	**An evaluation of peak expiratory flow measured on the smart peak flow meter** Shirley Coelho (Viana do Castelo, Portugal), Vicky Moore, Gareth Walters, Sherwood Burge
655	**Specific inhalation challenges with chloramines; an updated method** Vicky Moore (Birmingham (West Midlands), United Kingdom), Gareth Walters, Alastair Robertson, Maximillian Thomas, Sherwood Burge
656	**Farming and respiratory health: a cross-sectional study in Thailand** Jate Ratanachina (Nonthaburi, Thailand), Andre Amaral, Sara De Matteis, Paul Cullinan, Peter Burney
657	**Altered airway and tissue mechanics in patients with byssinosis** Álmos István Schranc (Szeged, Hungary), Gergely H. Fodor, Adam L. Balogh, Roberta Südy, Robin Forgacs, Zsofia Csorba, Ferenc Petak, Barna Babik
658	**Chronic obstructive pulmonary disease in workers from different sectors.** Jordan Minov (Skopje, North Macedonia), Sasho Stoleski, Dragan Mijakoski, Aneta Atanasovska, Dragana Bislimovska, Jovanka Karadzinska Bislimovska
659	**COPD Exacerbation and Occupation History in Agriculture** Da Hye Moon (Chuncheon (Gangwon-do), Republic of Korea), Tae Wan Kim, Woo Jin Kim, Yoon Ki Hong, Myoung Nam Lim
660	**Frequency of chronic respiratory symptoms, lung function impairment, and airway responsiveness - differences between cow breeders and crop farmers** Sasho Stoleski (Skopje, North Macedonia), Jordan Minov, Dragan Mijakoski, Aneta Atanasovska, Dragana Bislimovska, Jovanka Karadzinska-Bislimovska
661	**Employment, treatment and lung function outcomes at 1-year following diagnosis of occupational hypersensitivity pneumonitis** Gareth Walters (Birmingham (West Midlands), United Kingdom), Ngamjit Kongsupon, Geraldine Burge, Alastair Robertson, Vicky Moore, Steven Sadhra, Sherwood Burge
662	**Peculiarities of pulmonary alveolar proteinosis (PAP) due to exogenous factors** Galina P. Orlova (St. Petersburg, Russian Federation), Aleksandra A. Speranskaya, Ivetta V. Dvorakovskaya
663	**Bilateral pneumothorax in silicosis patients, report of 14 cases** Tarek Djenfi (Batna, Algeria), Hamoud Souad, Djebbar Abdelmadjid
664	**Progressive fibrotic phenotype in exogenous toxic alveolitis (ETA)** Galina P. Orlova (St. Petersburg, Russian Federation), Eleonora V. Shapovalova, Natalya S. Yakovleva

Pre-congress content — Session 67 — 00:00 - 23:59

E-poster session: Paediatric asthma

Disease(s) : Airway diseases | Sleep and breathing disorders

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

Chairs : Nicola Ullmann (Roma (RM), Italy), Christiane Lex (Goettingen, Germany)

665	**Features of anti-inflammatory therapy of bronchial asthma in children with overweight andobesity** Nela Paramonava (Grodno, Belarus)
666	**Early use of nebulised beta2 agonist in the management of acute wheeze in preschool children** Olivia Impey (Edinburgh, United Kingdom), Kenneth A Macleod
667	**Use of a novel Bayesian borrowing statistical method to assess efficacy of mepolizumab in adolescents** Oliver Keene (Uxbridge, United Kingdom), Oliver Keene, Nicky Best, Robert Price, Isabelle Pouliquen
668	**Exercise-induced bronchospasm in asthmatic Children. FENO and Body Mass Index relationship** Maria Cristina Gimena Donth Leger (ciudad Autonoma de Buenos Aires, Argentina), Maria Cristina Gimena Donth Leger, Magdalena Vocos, Carlos Velasco Suarez, Marcela Roque, Doris Primrose, Anahí Kruger, Gabriela Andrada, Juan Manuel Figueroa

669	**Endothelial dysfunction in children and adults with asthma – combined diagnostic approach** Marcela Kreslová (Plzeň, Czech Republic), Marcela Kreslova, Aneta Sýkorová, Olga Kirchnerová, Petr Jehlička, Ladislav Trefil, Josef Sýkora
670	**Relationship between allergic rhinitis and asthma in the elementary school children in Bandar Lampung, Indonesia.** Retno Ariza Soemarwoto (Bandar Lampung, Indonesia), Syazili Mustofa, Hetty Rusmini, Arti Febriani, Nelly Muslimah
671	**Clinical and Functional State of Asthmatic Children: Impact of Overweight-Obesity and Sleep Disordered Breathing** Maria Cristina Gimena Donth Leger (ciudad Autonoma de Buenos Aires, Argentina), Maria Cristina Gimena Donth Leger, Gabriela Andrada, Anahí Kruger, Doris Primrose, Magdalena Vocos, Carlos Velasco Suarez, Marcela Roque, Juan Manuel Figueroa
672	**Prevalence of vitamin D deficiency in children with asthma. Multicenter study.** Elena Kondratyeva (Moscow, Russian Federation), Yuri Mizernitsky, Natalya Ilyenkova, Anna Bogorad, Elena Zhekaite, Svetlana Dyakova, Leonid Klimov, Svetlana Dolbnya, Viktoria Kuryaninova, Yulia Melyanovskaya, Aisa Zodbinova
673	**Asthma symptom control, biomarkers of airway inflammation and spirometry in a cohort of Sri Lankan children** Ridma Jayarathna (Kent, United Kingdom), W A D Lakmali Amarasiri, Kumudu Weerasekara
674	**Microcirculatory changes in children with bronchial asthma depending on the allergological history.** Pavel Berezhanskiy (Uspenskoe, Russian Federation), Natalia Tataurshchikova
675	**Influence of family education style in children with severe asthma.** Olga Murtazaeva (Moscow, Russian Federation), Olga Zaytseva, Evelina Lokshina, Svetlana Zaytseva
676	**Bronchial hyperresponsiveness in schoolchildren suffer from early and late onset severe asthma** Mykola Garas (Cherivtsi, Ukraine)
677	**The relationship of bronchoconstriction and the parameters of the atrial component of the electrocardiogram in children with bronchial asthma.** L.Yu. Nikitina (, Russian Federation), Nataliia POPOVA, A.V. Gordina, K.A. Egoshina, T.I. Eliseeva, E.V. Tush, A.V. Prahov, O.V. Vinogradova, O.V. Khaletskaya, S.K. Soodaeva, I.A. Klimanov
678	**Relationship between nasal respiratory function and external respiratory function in children with asthma** Mariya Gluhova (Moscow, Russian Federation), L.Yu Nikitina, S.V. Krasilnikova, A.A. Khramov, T.I. Eliseeva, N.A. Popova, I.A. Klimanov, S.K. Soodaeva, R.N. Khramova, I. I. Balabolkin, A.A. Novozhilov
679	**Validation of Hindi version of the childhood asthma control test (C-ACT) in Indian children** Prawin Kumar (Jodhpur (Rajasthan), India), Chirag Thakur, Jagdish Goyal
680	**Changes in the microcirculatory system of children with bronchial asthma** Anita Denisova (Moscow, Russian Federation), Veronika Denisova, Natalia Geppe, Natalia Kolosova, Irina Grebeneva
681	**Assessment of validity and efficacy of a PROM in preschool wheeze (Wheeze and me assessment tool)** Heidi Makrinioti (Athens, Greece), Alice E.M. White, Nour El-Hadi, Polly Robinson, Niamh Mclaughlin, Mando Watson, Andrew Bush, Dougal Hargreaves
682	**Who are the children with increased faractional exhaled nitric oxide?** Kamil Barański (Katowice, Poland), Grzegorz Brożek, Jan Zejda
683	**Clinically meaningful medium-term variability of fractional exhaled nitric oxide in a UK paediatric cohort** Ran Wang (Manchester (Greater Manchester), United Kingdom), Ran Wang, Lesley Lowe, Angela Simpson, Clare Murray, Stephen Fowler

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

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

Disease(s) : Airway diseases

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

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

684	**Lymphocyte responses to Mycobacterium tuberculosis and Mycobacterium bovis are similar between BCG-vaccinated patients with cystic fibrosis and healthy controls** Renan Mauch (Campinas (SP), Brazil), Paulo Cesar Alves, Carlos Emilio Levy, José Dirceu Ribeiro, Antonio Fernando Ribeiro, Niels Høiby, Marcos Tadeu Nolasco Da Silva

685	**Targeted exhaled breath analysis for detection of Pseudomonas aeruginosa in cystic fibrosis patients** Renate Kos (Soest, Netherlands), Paul Brinkman, Anne H Neerincx, Tamara Paff, Marije G Gerritsen, Ariane Lammers, Aletta D Kraneveld, Harry G M Heijerman, Jane C Davies, Hettie M Janssens, Christof J Majoor, Els J Weersink, Peter J Sterk, Eric G Haarman, Lieuwe Bos, Anke H Maitland-Van Der Zee
686	**Comparative in vitro activity of fluoroquinolones against P. aeruginosa isolated from Greek CF patients** Despoina Ioannidou (Thessaloniki, Greece), Areti Tychala, Eleni Faniadou, Chrisi Michailidou, Katerina Manika, Elpis Hatziagorou, Ioannis Kioumis
687	**Clinics of Cystic Fibrosis Patients with Unusual Bacteria Isolated fromRespiratory Cultures** Dilber Ademhan Tural (Ankara, Turkey), Beste Ozsezen, Birce Sunman, Gulsen Hazırolan, Nagehan Emiralioglu, Ebru Yalcin, Deniz Dogru, Ugur Ozcelik, Nural Kiper
688	**Myroides odorarus another one from the new emerging pathogens in cystic fibrosis – case report** Guergana Petrova (Sofia, Bulgaria), Dimitrinka Miteva, Tanya Strateva
689	**Changes in local and systemic inflammatory markers in cystic fibrosis patients chronically infected with Burkholderia cepacia complex** Vassiliy Shmarin (Moscow, Russian Federation), Daria Pukhalskaya, Sergey Semykin, Lucine Avakian, Nataliya Kashirskaya, Galina Shmarina, Vladimir Alioshkin
690	**A review of treatment regimens at first isolation of PA in a single cystic fibrosis center** Yasemin Gökdemir (Istanbul, Turkey), Huseyin Hakan Mursaloglu, Can Akin, Cansu Yilmaz, Pinar Ergenekon, Yasemin Gokdemir, Ela Erdem Eralp, Fazilet Karakoc, Aysegul Karahasan, Bulent Karadag
691	**Usefulness of measurement of tobramycin levels in the era of once daily iv-treatment** Folke Brinkmann (Bochum, Germany), Anne Schlegtendal, Stefanie Dillenhoefer, Cordula Koerner-Rettberg
692	**Predictors of eradication failure at first isolation of MRSA in cystic fibrosis patients** Yasemin Gökdemir (Istanbul, Turkey), Huseyin Hakan Mursaloglu, Can Akin, Cansu Yilmaz, Pinar Ergenekon, Yasemin Gokdemir, Ela Erdem Eralp, Fazilet Karakoc, Aysegul Karahasan, Bulent Karadag
693	**Altered composition of Innate lymphoid cells in BAL and blood of adult patients with cystic fibrosis towards ILC1** Hendrik Beckert (Essen, Germany), Sarah Plicht, Sivagurunathan Sutharsan, Jean De Dieu Harelimana, Marc Jacobsen, Christian Taube, Norman Nausch
694	**Use of BIOFIRE® Pneumonia Panel Plus on sputum from patients with Cystic fibrosis or PCD** Philip Koliopoulos (Mainz, Germany), Julius Jurak, Sebastian Schlotter, Oliver Nitsche, Kristin Bohn, Daniel Schreiner, Stephan Gehring, Krystyna Poplawska
695	**The efficacy and tolerability of inhaled hypertonic saline in children with cystic fibrosis** Kateryna Skriabina (Dnipro, Ukraine), Svitlana Ilchenko, Anastasiia Fialkovska
696	**Clinical surveys with nebulised hypertonic saline (HS) in CF children** Veronika Bernek (Starnberg, Germany), Veronika Bernek, Rosina Ledermüller
697	**The Effects of Nebulizer Cleaning and Disinfection Training On The Knowledge Levels and Practises of the Caregivers of Patients with Cystic Fibrosis** Cansu Yilmaz Yegit (Istanbul, Turkey), Pinar Ergenekon, Hakan Mursaloglu, Gamze Tastan, Burcu Suzer Uzunoglu, Yasemin Gokdemir, Ela Erdem Eralp, Nurcan Duman, Aysegul Karahasan, Fazilet Karakoc, Bulent Karadag
698	**Immunohistochemical evidence of increased neutrophil swarms in Cystic Fibrosis lung removed at transplantation** Kasim Jiwa (Newcastle-upon-Tyne, United Kingdom), Chris Ward, Gareth Parry , Malcolm Brodlie, Jim Lordan, Andrew Fisher, James Garnett
699	**Clinical efficacy data for new diagnostic tool for the selection of the most effective antibiotics for patients with cystic fibrosis** Maria Vecherkovskaya (Saint Petersburg, Russian Federation), George Tetz, Kristina Kardava, Tatyana Gembitskaya, Victor Tetz

Pre-congress content Session 69 00:00 - 23:59

E-poster session: The multiple facets of pulmonary rehabilitation and chronic respiratory care

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

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

Chairs : Daniel Langer (Leuven, Belgium), Beatriz Abascal Bolado (Santander, Spain)

700	**Impact of comorbidities on the deterioration of skeletal muscle dysfunction among COPD patients** Vitalii Poberezhets (Vinnytsia, Ukraine), Szymon Skoczyński, Anna Demchuk, Aleksandra Oraczewska, Ewelina Tobiczyk, Yuriy Mostovoy, Adam Barczyk
701	**Evaluation of quadriceps muscle function in patients with moderate to severe COPD** Maria Dolores Domingez Lopez (Sevilla, Spain), Maria Del Pilar Cejudo Ramos, David Dr. David Naranjo-Hernández, Gerardo Barvarob-Rostán, Rosa Vázquez, Francisco Ortega Ruiz, Laura M Roa, Eduardo Márquez Martín, Javier Reina-Tosina
702	**Barriers towards physical activity in COPD: a quantitative cross-sectional, questionnaire-based study** Sajitha Sophia Sritharan (Aarhus V, Denmark), Elisabeth Bomholt Østergaard, Maria Elkjær, Louise Sand, Ole Hilberg, Søren Helbo, Anders Løkke
703	**Exploring beliefs of Pulmonary Rehabilitation modes of delivery** Amy Barradell (Leicester (Leicestershire), United Kingdom), Michael Larkin, Sally Singh
704	**Effort tolerance and effectiveness of pulmonary rehabilitation in COPD patients with varying degrees of dyspnea during ADL** Mara Paneroni (Mazzano (BS), Italy), Laura Bertacchini, Carla Simonelli, Alberto Malovini, Bruno Balbi, Maria Aliani, Piero Ceriana, Antonio Spanevello, Claudio Fracchia, Mauro Maniscalco, Giacomo Corica, Nicolino Ambrosino, Michele Vitacca
705	**Walking assessments as the predictor of acute respiratory failure in the interstitial lung disease patients.** Ryosuke Hirabayashi (Kobe, Japan), Yusuke Takahashi, Kazuma Nagata, Kyosuke Wakata, Yusuke Shima, Yuri Shimada, Megumu Osaki, Atsushi Matsunashi, Kazutaka Hosoya, Yuki Sato, Atsushi Nakagawa, Ryo Tachikawa, Keisuke Tomii
706	**Effect of pulmonary rehabilitation on exercise tolerance and functional class in patients with COPD and heart failure** Manuel Abraham Gómez Martínez (Mexico City, Mexico), Leslie Verdeja Vendrell, Dulce Gonzalez Islas, Arturo Orea Tejeda, Martha Elena Quintero Ramírez, Rocío Nayeli Sanchez Santillan, Susana Galicia Amor, Juan Carlos García Hernández, Esperanza Trejo Mellado, Itzel Ameyalli Sandoval Sánchez, Oscar Ubaldo Martínez Reyna, Yael Ramiro Gastelum Ayala, Nathalie Martínez Luna, Ilse Pérez García, Valeria Ariadna Martinez Vazquez
707	**Are the gains due to pulmonary rehabilitation in idiopathic pulmonary fibrosis and other interstitial lung diseases the same?** Ipek Ozmen (süreyyapaşa ghh, Turkey), Elif Yıldırım, Meral Karakış, Murat Öztürk, Rüya Aydın, Emre Sahal
708	**Three-year observation on pedometer intervention to improve daily physical activity and QOL in patients with stable COPD.** Yuko Sano (Tokyo, Japan), Rokuro Matsuoka, Yoko Sato, Shinobu Kimura, Shyoji Mihara, Hajime Kurosawa
709	**Personality traits, physical activity and sedentary behaviors in patients with chronic pulmonary diseases** Pauline Caille (LODEVE, France), Yannick Stephan, Nelly Héraud
710	**Effects of a respiratory rehabilitation program over pulmonary hypertension (PH) and other right ventricular function measurements in a chronic obstructive pulmonary disease (COPD) population** Cristian Tiano (Donostia-San Sebastian, Spain), Itxaso Sayago Reza, Jaime Navarro, Luis Sollet
711	**Home-based fall prevention for older adults with COPD: a feasibility study** Marla Beauchamp (Hamilton, Canada), Marla Beauchamp, Cindy Ellerton, Dina Brooks, Roger Goldstein, Stuart Pugsley, Julie Richardson, Diana Hatzoglou
712	**Predicting daily physical activity with using 6MWT in patients with chronic interstitial lung diseases.** Chieko Yoshida (Kumamoto, Japan), Aiko Masunaga, Sho Saeki, Yusuke Tomita, Hidenori Ichiyasu, Takuro Sakagami
713	**Facilitators and barriers of adherence to exacerbation action plans in patients with COPD and comorbidities: a qualitative study** Jade Schrijver (Enschede, Netherlands), Suzanne Hoftijzer, Tanja Effing, Marjolein Brusse-Keizer, Job Van Der Palen, Paul Van Der Valk, Anke Lenferink
714	**Addition of neuromuscular electrical stimulation to conventional pulmonary rehabilitation treatment in patients with COPD** Vicente Andrés Benavides Córdoba (Cali, Colombia), Lina Marcela Orozco, Ricardo Mosquera, Diana Guerrero Jaramillo, Vanessa Vidal, Esteban Portuguez, Paola Tejada, Julian Andrés Rivera Motta
715	**Non-responders to outpatient pulmonary rehabilitation: a retrospective, controlled cohort study** Kristina Gugg (Krems an der Donau, Austria), R. H. Zwick
716	**Estimating the effectiveness of pulmonary rehabilitation for different severity of COPD, ILD and IPF** Blanka Tóth (Pilisvörösvár, Hungary), Mária Kerti, János Tamás Varga

717	**50% of the physiological benefit of training during Pulmonary Rehabilitation is achieved after only a few sessions.** Martine Favre (, France), Bernard Aguilaniu, Jonathan Levesque, Frederic Herenght, Christophe Brosson, Jean Marie Grosbois, Alain Bernady, Antony Bender, Pascale Surpas, Antoine Guerder, Pei Zhi Li, Anestis Antoniadis, Thomas Similowski
718	**HEART VARIABILITY IN THE PRESENCE OF PSYCHOLOGICAL STRESS AND QUALITY OF LIFE IN PATIENTS WITH CHRONIC OBSTRUCTIVE PULMONARY DISEASE** Manuel Abraham Gómez Martínez (Mexico City, Mexico), Karla Leticia Rosales Castillo, Viridiana Peláez-Hernández , Laura Arely Martínez-Bautista , Karen Aide Santillán-Reyes , Guadalupe Lizzbett Luna-Rodríguez , Dulce González-Islas, Arturo Orea Tejeda
719	**The effectiveness of pulmonary rehabilitation in patients diagnosed with interstitial pulmonary fibrosis** Elif Özarı Yıldırım (Istanbul, Turkey), Ipek Ozmen, Meral Karakıs, Murat Özturk, Emre Sahal, Ruya Aydın, Reyhan Yıldız, Huriye Berk Takır, Tulın Sevım

Pre-congress content Session 70 00:00 - 23:59

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

Disease(s) : Interstitial lung diseases

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

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

720	**Increased monocyte count and red cell distribution width represent negative prognostic markers in patients with Idiopathic Pulmonary Fibrosis.** Theodoros Karampitsakos (Athens, Greece), Sebastiano Torrisi, Katerina Antoniou, Evangelos Bouros, Ioanna Korbila, Effrosyni Manali, Eirini Vasarmidi, Despoina Papakosta, Kelly Domvri, Zoe Daniil, Ilias Dimeas, Paraskevi Kirgou, Ilias Papanikolaou, Eleni Bibaki, Katerina Markopoulou, Georgia Kounti, Eirini Tsapakidou, Efthymia Papadopoulou, Spyridon Papiris, Demosthenes Bouros, Michael Kreuter, Argyrios Tzouvelekis
721	**Monocyte count and decline in forced vital capacity (FVC) in patients with IPF** Argyris Tzouvelekis (Athens, Greece), Toby M Maher, Nicole Goh, Michael Kreuter, Vincent Cottin, Birgit Schinzel, Leticia Orsatti, Tamera J Corte
722	**The role of monocyte count on monitoring patients with Idiopatic Pulmonary Fibrosis under antifibrotic treatment** David Jorge Araújo Barros Coelho (Braga, Portugal), Catarina Sousa, Maria Jacob, Helder Novais-Bastos, Natalia Melo, Patricia Caetano Mota, Antonio Morais
723	**Distinctive polarization of circulating classical monocytes between idiopathic pulmonary fibrosis and idiopathic nonspecific interstitial pneumonia.** Masahiro Yamashita (Morioka (Iwate Prefecture), Japan), Yu Utsumi, Hiromi Nagashima, Hiroo Nitanai, Kohei Yamauchi
724	**Macrophage-derived exosomes attenuate fibrosis in airway epithelial cells through delivery of anti-fibrotic miR-142-3p** Julien Guiot (Liège, Belgium), Monique Henket, Fanny Gester, Edouard Louis, Michel Malaise, Renaud Louis, Ingrid Struman, Sebastien-Makon Njock
725	**Inflammasome activation in airway macrophages and the lung microbiome in IPF** Athina Trachalaki (London, United Kingdom), Eliza Tsitoura, Rachele Invernizzi, Semeli Mastrodimou, Eirini Vasarmidi, Adam Byrne, Toby M. Maher, Katerina Antoniou, Philip L. Molyneaux
726	**Collagen1a1 mRNA expression in BAL cells is associated with disease progression and poor survival in ILDs** Eliza Tsitoura (Heraklion (Crete), Greece), Athina Trachalaki, Eirini Vasarmidi, Semeli Mastrodimou, Maria Kokosi, Konstantinos Karagiannis, George Margaritopoulos, Nikolaos Tzanakis, Athol U. Wells, Katerina M. Antoniou
727	**Exhaled volatile organic compounds in idiopathic pulmonary fibrosis and disease progression** Conal Hayton (Manchester (Greater Manchester), United Kingdom), Dayle Terrington, Waqar Ahmed, Iain White, Max Wilkinson, Kirti Vekaria, Nazia Chaudhuri, Andrew Wilson, Colm Leonard, Stephen Fowler
728	**Essential trace element levels in IPF patients: a case control study** Gülden Bakıcı Sarı (Ankara, Turkey), Cebrail Şimşek, Bilge Akgündüz, Vugar Ali Türksoy, Yetkin Ağaçkıran, Nevriye Tezer, Doğuş Özdemir
729	**IgG4 as a potential biomarker of acute exacerbations in ILD** Sebastiano Emanuele Torrisi (Acireale (CT), Italy), Nicolas Kahn, Vivien Somogyi, Markus Polke, Lars Kehler, Jack Gauldie, Michael Kreuter

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

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

732 **Temporal subtraction of serial CT scans for visualisation and quantification of disease progression in Idiopathic Pulmonary Fibrosis**
Hoen-oh Shin (Hannover, Germany), Manuel Minkler, Lion Jaeger, Jens Vogel-Claussen, Rose-Marie Apel, Tobias Welte, Frank Wacker, Sabine Dettmer, Antje Prasse

733 **Integrative clustering analysis to discover novel IPF disease subtypes in the IPF-PRO Registry**
Yi Liu (Danbury, United States of America), Yi Liu, Huang Lin, Julia F Soellner, Janine Roy, Richard Vinisko, Ramona Schmid, Benjamin Strobel, John A Belperio, Joao De Andrade, Kevin R Flaherty, Joseph A Lasky, Tracy Luckhardt, Megan L Neely, Christian Hesslinger, Scott M Palmer, Thomas B Leonard, Jamie L Todd, Margaret L Salisbury

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

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

736 **MUC2MUC5B and TOLLIP variants: no association with disease progression and survival in an IPF cohort**
Carmel Stock (London, United Kingdom), Philip Molyneaux, Peter Saunders, Maria Kokosi, Peter George, Vasilis Kouranos, Felix Chua, Athol Wells, Toby Maher, Elisabetta Renzoni

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

E-poster session: Non-idiopathic pulmonary fibrosis interstitial lung diseases: mechanisms, diagnosis and treatment

Disease(s) : Interstitial lung diseases Airway diseases

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

Chairs : Phil Molyneaux (London, United Kingdom), Martina Bonifazi (Ancona (AN), Italy)

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

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

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

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

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

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

743	**Many-faced histological patterns of hypersensitivity pneumonia: the insights to diagnostics** Maria Samsonova (Moscow, Russian Federation), Natalia Trushenko, Andrey Cherniaev, Kirill Mikhailicheko, Janna Omarova, Sergey Avdeev
744	**Concordance of pre transplant radiological diagnosis with posttransplant explant histology of interstitial lung disease (ILD): A single centre study from India.** Sandeepa H. S. (Bangalore (Karnataka), India), Vijil Rahulan, Apar Jindal, Vishwanath Bellad, Bhaskar B V, Shivaprakash S, Prabhat Dutta, Pavan Yadav, Sandeep Attawar
745	**Usefulness and safety of transbronchial lung cryobiopsy for reassessment of treatment in the clinical course of diffuse lung disease** Yozo Sato (Yokohama, Japan), Tomohisa Baba, Katsuyuki Higa, Ryota Ootoshi, Ryota Shintani, Tsuneyuki Oda, Hideya Kitamura, Yasushi Okudela, Tae Iwasawa, Tamiko Takemura, Takashi Ogura
746	**CAR T cells-associated delayed lung toxicity – a case series** Louise Bondeelle (Paris, France), Roberta Di Blasi, Laila Samy, Lorea Aguinaga, Gwenael Lorillon, Sophie Bernard, Catherine Thieblemont, Anne Bergeron Lafaurie
747	**Effect of tocilizumab on interstitial lung disease (ILD) in patients with rheumatoid arthritis (RA)** Naotatsu Otsuji (soka, Japan), Kumiya Sugiyama, Hajime Arifuku, Kentaro Nakano, Hiroyoshi Watanabe, Tomoshige Wakayama, Kenya Koyama, Hirokuni Hirata, Yasutsugu Fukushima
748	**Impulse oscillometry (IOS) in Interstitial Lung Diseases: clinical- functional- radiological correlations.** Sara Soave (Rimini, Italy), Federico Bellini, Ottavia Nori, Aldo Carnevale, Marco Contoli, Alberto Papi, Gian Luca Casoni
749	**Experimental modeling of lung involvement due to systemic sclerosis.** Bohdana Doskaliuk (Ivano-Frankivsk, Ukraine), Liubomyr Zaiats, Roman Yatsyshyn
750	**Seventeen cases of "IgG4-positive interstitial pneumonia" characterized by elevated serum IgG4 levels and IgG4-positive plasma cell infiltrations in the lungs** Masamichi Komatsu (Matsumoto, Japan), Hiroshi Yamamoto, Shoko Matsui, Tomohisa Baba, Atsushi Miyamoto, Tomohiro Handa, Keisuke Tomii, Yuko Waseda, Masashi Bando, Haruyuki Ishii, Yasunari Miyazaki, Tae Iwasawa, Takeshi Johkoh, Akihiko Yoshizawa, Yasuhiro Terasaki, Akira Hebisawa, Tamiko Takemura, Yoshinori Kawabata, Masayuki Hanaoka, Takeshi Ogura
751	**Bioelectrical impedance analysis (BIA) and physical fitness in patients with idiopathic pulmonary fibrosis (IPF)** Marialuisa Bocchino (Napoli (NA), Italy), Lorena Gallotti, Anna Agnese Stanziola, Ada Di Gregorio, ludovica capitelli, Francesco De Blasio, Paola Alicante, Luca Scalfi, Alessandro Sanduzzi Zamparelli
752	**The predictors of diffuse alveolar damage in autopsy cases with acute respiratory distress syndrome** Ryosuke Imai (Tokyo, Japan), Ro Shosei, Manabu Murakami, Kohei Okafuji, Atsushi Kitamura, Yutaka Tomishima, Torahiko Jinta, Naoki Nishimura, Tomohide Tamura
753	**Diagnostic accuracy and safety of inhalation challenge tests for bird fancier's lung** Zhuan Jin (Kamogawa, Japan), Akihiro Shiroshita, Yu Tanaka, Kei Nakashima, Yuki Kataoka
754	**INTERSTITIAL LUNG DISEASE ASSOCIATED WITH CONNECTIVE TISSUE DISEASE (CTD-ILD): RETROSPECTIVE MULTICENTRIC STUDY** Marta Garcia Moyano (Barakaldo, Spain), Florencia Vivero Acosta, Daniel Martin Iglesias, Juan Enghelmayer, Diana Lancellotti, Adrián Gaser, Federico Campins, Javier Sebastiani, Pablo Malfante, Guillermo Ruiz Irastorza

Pre-congress content — Session 72 — 00:00 - 23:59

E-poster session: Clinical aspects of idiopathic pulmonary fibrosis

Disease(s) : Interstitial lung diseases

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

Chairs : Marcel Veltkamp (De Meern, Netherlands), Julie Morisset (Montréal (QC), Canada)

755	**Clusters of comorbidities in idiopathic pulmonary fibrosis** Thomas Skovhus Prior (Egå, Denmark), Nils Hoyer, Ole Hilberg, Saher Shaker, Jesper Rømhild Davidsen, Finn Rasmussen, Elisabeth Bendstrup
756	**TORVAN VERSUS GAP: WHICH PERFORMS BETTER?** Filomena Simone (, Italy), M L. Bocchino, L Capitelli, K Del Vecchio, A Laricchiuta, G Scioscia, M P. Foschino Barbaro, D Lacedonia
757	**2-Year survival of patients with IPF with or without GERD: a study using VA national database** fei tang (Hefei, China), Carol Ramos, Mehdi Mirsaeidi, Robert M. Jackson

758	**Unraveling unclassifiable interstitial lung disease – a multicenter approach** Sebastiano Emanuele Torrisi (Acireale (CT), Italy), Charlotte Hyldgaard, Sissel Kronborg-White, Claudia Ganter, Michael Kreuter, Elisabeth Bendstrup
759	**Diagnosis and treatment of new idiopathic interstitial pneumonias cases: Analysis using the Japanese Registry.** Takashi Ogura (Yokohama, Japan), Ryo Okuda, Yasuhiro Kondoh, Hiroyuki Taniguchi, Takeshi Johkoh, Junya Fukuoka, Atsushi Miyamoto, Ryoko Egashira, Akira Hebisawa, Fumikazu Sakai, Tamiko Takemura, Keisuke Tomii, Kiminori Fujimoto, Tomonori Tanaka, Toru Arai, Hiromitsu Sumikawa, Takahiko Kasai, Yutaro Nakamura, Tae Iwasawa, Yasuhiro Terasaki, Takafumi Suda, Tomoyuki Fujisawa, Nobuhisa Ishikawa, Naoki Arai, Takahisa Takihara, Megumi Hamaguchi, Mikio Toyoshima, Mitsuhiro Abe, Motoyasu Kato, Hiroaki Miyata, Naoaki Ichihara, Satoshi Morita, Naohiko Inase, Hiromi Tomioka, Masashi Bandoh, Kunihiko Kobayashi, Toshihiro Nukiwa
760	**A review of patients following a diagnosis of unclassified interstitial lung disease (ILD) at a tertiary centre** Fiona Thompson (Portsmouth (Hampshire), United Kingdom), Tim Wallis, Katarina Pontoppidan, Chris Brereton, Eleanor Reid, Benjamin Welham, Mark Jones, Sophie Fletcher
761	**Interstitial pneumonia with autoimmune features (IPAF): the relationship between radiological and clinical features** Michael Brovko (Moscow, Russian Federation), Victoria Sholomova, Larisa Akulkina, Alisa Yanakaeva, Denis Konovalov, Sergey Moiseev
762	**Health resource utilisation due to IPF exacerbations in Spain: prospective, observational, multicentric study (OASIS study)** Ana Dolores Romero Ortiz (Granada, Spain), Ana Villar, Esteban Cano-Jiménez, María Jesús Rodríguez-Nieto, Sílvia Armengol, Alba Ramon, Marta Morros
763	**Idiopathic Pulmonary Fibrosis behavior in the aged population- is it different?** Omar Hakrush (Nazareth-Illit, Israel), Sonia Schneer, Yochai Adir
764	**Gender differences in idiopathic pulmonary fibrosis: are men and women equal or not?** Lucile Sese (Paris, France), Hilario Nunes, Vincent Cottin, Dominique Israel-Biet, Bruno Crestani, Stéphanie Guillot Dudoret, Jacques Cadranel, Benoit Wallaert, Abdellatif Tazi, Bernard Maître, Grégoire Prévot, Sylvain Marchand-Adam, Sandrine Hirschi, Sandra Dury, Violaine Giraud, Anne Gondouin, Philippe Bonniaud, Julie Traclet, Karine Juvin, Raphael Borie, Zohra Carton, Julien Caliez, Olivia Freynet, Thomas Gille, Carole Planes, Dominique Valeyre, Yurdagül Uzunhan
765	**PRESERVED FORCED VITAL CAPACITY IS NOT ALWAYS REPRESENTING EARLY IPF** Guadalupe Bermudo Peloche (Barcelona, Spain), Guillermo Suárez-Cuartin, Pilar Rivera Ortega, Jose Antonio Rodriguez-Portal, Jaume Sauleda , Belén Nuñez, Diego Castillo , Myriam Aburto, Karina Portillo, Eva Balcells, Claudia Valenzuela, Estrella Fernandez-Fabrellas, Maria Teresa González-Budiño, Esteban Cano-Jiménez, Orlando Acosta Fernández, Virginia Leiro, Ana Romero, Lurdes Planas-Cerezales, Ana Villar, Amalia Moreno, Rosario Laporta, Vanesa Vicens-Zygmunt , Maria Molina-Molina
766	**Anxiety and depression in ILD and IPF patients. Is there a difference?** Katerina Markopoulou (Thessaloniki, Greece), Georgia Kounti, Christos Tsantiridis, Eirini Tsapakidou, Christos Karachristos, Georgios Babalis, Adamantios Chloros
767	**The burden of Idiopathic Pulmonary Fibrosis (IPF): a multimodal study of prevalence, healthcare utilization and survival** Wei Ling Chia (Leeds, United Kingdom), Frances Harrison, Thomas Hartley, David Szapiro, Devesh Dhasmana
768	**Idiopathic pulmonary fibrosis (IPF): the patient journey** Vincent Cottin (Lyon, France), Francesco Bonella, Mark Small, James Siddall, Jonathan Langley, Yoshikazu Inoue, Lisa Lancaster
769	**PSYCHOLOGICAL FACTORS PREDICTIVE OF QUALITY OF LIFE IN PATIENTS WITH INTERSTITIAL PULMONARY DISEASE** Viridiana Peláez-Hernández (Mexico City, Mexico), Viridiana Peláez-Hernández, Laura Arely Martínez Bautista, Karen Aide Santillán Reyes, Guadalupe Lizzbett Luna Rodríguez, Karla Leticia Rosales Castillo, Arturo Orea Tejeda, Nathalie Martínez Luna
770	**Clinical burden of idiopathic pulmonary fibrosis (IPF): physician and patient perception** Francesco Bonella (Düsseldorf, Germany), Yoshikazu Inoue, Mark Small, James Siddall, Jonathan Langley, Vincent Cottin, Lisa Lancaster
771	**Responsiveness and minimal clinically important difference of K-BILD and SGRQ-I** Thomas Skovhus Prior (Egå, Denmark), Nils Hoyer, Ole Hilberg, Saher Shaker, Jesper Rømhild Davidsen, Elisabeth Bendstrup
772	**Burden of idiopathic pulmonary fibrosis (IPF) on quality of life (QoL), work productivity, and healthcare use** Yoshikazu Inoue (Osaka, Japan), Vincent Cottin, Mark Small, James Siddall, Jonathan Langley, Francesco Bonella, Lisa Lancaster

Pre-congress content Session 73 00:00 - 23:59

E-poster session: News on diagnosis and therapy of idiopathic pulmonary fibrosis

Disease(s) : Interstitial lung diseases Airway diseases

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

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

773	**Yoga in patients with fibrosing interstitial lung diseases – a feasibility trial** Michael Kreuter (Heidelberg, Germany), Linda Wasmuth, Mareike Kotzerke, Simone Hummler, Rembert Koczulla, Nikola Stenzel, Claudia Ganter
774	**Is Pulmonary Rehabilitation A Savior In Idiopathic Pulmonary Fibrosis?** Seher Satar (Ankara, Turkey), Ipek Candemir, Pinar Ergun, Harun Karamanlı
775	**Feasibility of a cardiopulmonary exercise test (CPET) derived high-intensity interval training programme (HIIT) in idiopathic pulmonary fibrosis (IPF)** Tim Wallis (Romsey (Hampshire), United Kingdom), Katarina Pontoppidan, Kerry Gove, David Hill, James Cullinane, Fiona Thompson, Christopher Brereton, Anna Freeman, Sophie Fletcher, Michael Grocott, Mark Jones, Sandy Jack
776	**Measuring patient activation in an interstitial lung disease (ILD) population: an exploratory study** Anne-Marie Russell (London, United Kingdom), Raminder Aul, Arnab Datta, Melissa Wickremasinghe
777	**Association between influenza vaccination and the occurrence of acute exacerbation in idiopathic pulmonary fibrosis** Lucile Sese (Paris, France), Julien Caliez, Vincent Cottin, Dominique Israel-Biet, Bruno Crestani, Stephanie Guillot-Dudoret, Jacques Cadranel, Benoit Wallaert, Abdellatif Tazi, Bernard Maître, Gregoire Prévot, Sylvain Marchan-Adam, Sandrine Hirschi, Sandra Dury, Violaine Giraud, Anne Gondouin, Philippe Bonniaud, Julie Traclet, Karine Juvin, Raphael Borie, Thomas Gille, Zohra Carton, Dominique Valeyre, Hilario Nunes
778	**Outcomes at Week 12 from three RCTs of sildenafil with and without antifibrotics in advanced IPF** Juergen Behr (München, Germany), Steven D. Nathan, Sergio Harari , Wim A. Wuyts, Klaus-Uwe Kirchgaessler, Monica Bengus, Frank Gilberg, Athol U. Wells
779	**Treatment efficacy of idiopathic pulmonary fibrosis depending on the dose difference of pirfenidone** yuneyoung shin (Seoul, Republic of Korea), Choon-Taek Lee, Jae Ho Lee, Ho Il Yoon, Young-Jae Cho, Jong Sun Park, Yeon Joo Lee, Sung Yoon Lim, Yung Hee Lee, Sung Young Choi, Yeon Wook Kim, Byoung Soo Kwon
780	**Pirfenidone side-effect risk stratification: targeting nursing support at a single UK prescribing centre** Carmine Ruggiero (Oxford, United Kingdom), Sarah J Poole, Rachel K Hoyles
781	**Plasma MFGE8 concentrations rapidly respond to single doses of the antifibrotic integrin antagonist IDL-2965 in healthy volunteers (HVs)** Williamson Bradford (Brisbane, United States of America), Ari Gershman, Chris Rubino, Jim Bush, Scott Seiwert, Tonya Marmon, Sharleen Lim, Karl Kossen, Toby Maher
782	**INTEGRIS-IPF: a 12-week, Phase 2a study evaluating the safety, tolerability and pharmacokinetics of PLN-74809 in participants with IPF** Eric Lefebvre (San Francisco, United States of America), Bernard Coulie, Marzena Jurek, Jonathan Bellini, Fiona Cilli, Simon Wong, Martin Decaris, Scott Turner, Erica Park
783	**Impact of bisphosphonate (BP) use on lung function decline and treatment response in patients (pts) with idiopathic pulmonary fibrosis (IPF)** Francis Mccormack (Cincinnati, United States of America), Ming Yang, Elizabeth A. Morgenthien, Cindy Burg, Judit Axmann, John L. Stauffer
784	**Idiopathic pulmonary fibrosis (IPF): observations from a Phase 2 trial of GLPG1205 (PINTA)** Irina Ruxandra Strambu (Bucuresti (Sector 5), Romania), Liesbeth Fagard, Paul Ford, Tom Van Der Aa, Angela De Haas-Amatsaleh, Eva Santermans, Christian Seemayer
785	**Computed Tomography Findings as Determinants of Pulmonary Function Tests in Fibrotic Interstitial Lung Diseases** David Lang (Cleveland, United States of America), Kaveh Akbari, Andreas Horner, Magdalena Hepp, Bernhard Kaiser, Herwig Pieringer, Michael Studnicka, Bernd Lamprecht
786	**Evolution of the 'Indeterminate UIP' HRCT pattern; a cohort snapshot** Andrew Achaiah (Oxford, United Kingdom), Andrea Pereira, Harriet Bothwell, Amila Rathnapala, Kritika Dwivedi, Rosie Barker, Rachel Hoyles, Ling-Pei Ho
787	**Single-arm observational study of a mobile app + home spirometry in idiopathic pulmonary fibrosis** Lynn Fox (Dublin 7, Ireland), Lavinia Mcleod, Anne-Marie Russell, Colin Edwards, Katherine O'Reilly

788	**eHealth in pulmonary fibrosis: an international survey among healthcare providers and patients** Gizal Nakshbandi (Rotterdam (ZH), Netherlands), Catharina Moor, Joachim Aerts, Marlies Wijsenbeek
789	**Diagnostic value of cryobiopsy in patients with interstitial lung diseases integrating bronchoalveolar lavage, radiologic and clinical data** Katrin Esther Hostettler (Basel, Switzerland), Spasenija Savic, Lukas Bubendorf, Peter Grendelmeier, Kathleen Jahn, Daiana Stolz, Jens Bremerich, Michael Tamm
790	**Concurrent validity among three field tests and the cardiopulmonary exercise testing in patients with idiopathic pulmonary fibrosis.** Deborah Dos Reis Estrella (Belo Horizonte (MG), Brazil), Hugo Pereira, Eliane Viana Mancuzo, Giane Samora, Bruna Silveira, Anna Pataro, Verônica Parreira

Pre-congress content Session 74 00:00 - 23:59

E-poster session: Predictive markers of progression in connective tissue disease-associated interstitial lung disease and hypersensitivity pneumonitis

Disease(s) : Interstitial lung diseases Pulmonary vascular diseases

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

Chairs : Elena Bargagli (Siena, Italy), John Mackintosh (Brisbane (QLD), Australia)

791	**Progressive Phenotype in Chronic Hypersensitivity Pneumonitis** Filipa Lemos e Aguiar (Paredes, Portugal), Hélder Novais Bastos, Natália Melo, Patrícia Mota, António Morais
792	**Pleuroparenchymal fibroelastosis in systemic sclerosis: prevalence and prognostic impact** Martina Bonifazi (Ancona (AN), Italy), Nicola Sverzellati, Eva Negri, Joseph Jacob , Ryoko Egashira , Sara Piciucchi , Federico Mei, Angelo De Lauretis, Dina Visca, Nicole Goh , Matteo Bonini, Carlo La Vecchia, Felix Chua, Vasileios Kouranos, George Margaritopoulos, Maria Kokosi, Toby M Maher, Stefano Gasparini, Armando Gabrielli, Athol U Wells, Elisabetta Renzoni
793	**Destructive bronchiolitis: a characteristic pathological feature of interstitial lung disease preceding the onset of rheumatoid arthritis** Midori Sato (Meguro-ku, Tokyo, Japan), Erina Tabata, Tamiko Takemura, Takafumi Yamaya, Masato Asaoka, Takuma Katano, Katsuyuki Higa, Yozo Sato, Kensuke Uchida, Ryota Otoshi, Ryota Shintani, Hiroko Okabayashi, Satoshi Ikeda, Takashi Niwa, Tsuneyuki Oda, Ryo Okuda, Akimasa Sekine, Hideya Kitamura, Tomohisa Baba, Shigeru Komatsu, Eri Hagiwara, Tae Iwasawa, Takashi Ogura
794	**Silicosis in workers with artificial conglomerates: a current problem** Marta Plana Pes (Cardedeu, Spain), Saioa Eizaguirre Anton, Mª Teresa Campà Font, Anna Torrente Nieto, Gladis Sabater Talaverano, Eric Rojas Calvera, Lidia Perendreu Busquets, Ramon Orriols Martinez
795	**Home environment exposure assessment in hypersensitivity pneumonitis** Jos M. Rooijackers (Beuningen, Netherlands), Vanessa Zaat, Marcel Veltkamp, Martin Meijer, Jos Houbraken, Emeline Scherer, Gabriel Reboux, Jan Grutters
796	**Are smoking and COPD associated with ILD onset in rheumatoid arthritis?** Boyang Zheng (Laval, Canada), Cristiano Moura, Marina Machado, Christian Pineau, Evelyne Vinet, Sasha Bernatsky
797	**Diagnosis of fibrotic hypersensitivity pneumonitis: Can an algorithm replace multidisciplinary team discussion?** Manuela Funke-Chambour (Bern, Switzerland), Eva Wohlfarth, Lukas Ebner, Thomas K. Geiser, Sabina A. Guler
798	**Levels of IGFBP-1, MMP-9 and circulating nucleosomes: a new model to diagnose SSc-ILD** Julien Guiot (Liège, Belgium), Monique Henket, Béatrice André, Nathalie Hardat, Marielle Herzog, Makon-Sebastien Njock, Michel Malaise, Renaud Louis
799	**Clinical and functional characteristics of patients with unclassifiable interstitial lung diseases (uILD) from eurIPFreg.** Ekaterina Krauss (Giessen, Germany), Mustapha El-Guelai, Joern Pons, Ruth C. Dartsch, Silke Tello, Martina Korfei, Poornima Mahavadi, Raphael Majeed, Werner Seeger, Bruno Crestani, Andreas Guenther
800	**Fibrosis score predicts mortality in patients with chronic hypersensitivity pneumonitis** Jieun Kang (Seoul, Republic of Korea), Jin Woo Song
801	**The Gender-Age-Physiology (GAP) Index enhanced with KL-6 serum level for predicting disease progression in interstitial lung diseases (ILD).** Francesco Bonella (Düsseldorf, Germany), Hegedüs Balasz, Eva Gottstein, Dirk Theegarten, Ulrich Costabel, Christian Taube

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

814	**Body composition and prolonged hypoxia in interstitial lung disease patients** Martha Elena Quintero Martinez (Ciudad De México , Mexico), Dulce Gonzalez Islas , Arturo Orea Tejeda, Valeria Ariadna Martínez Vázquez, Ilse Pérez García, Nathalie Martínez Luna, Oscar Martínez Reyna , Leslie Verdeja Vendrell , Yael Gastelum Ayala, Ameyalli Sandoval Sánchez, Manuel Gomez Martinez, Rocio Sanchez Santillan, Ivette Buendía Roldan, Robinson Robles Hernandez , Mayra Mejia Avila
815	**Biomarkers for possible early detection and progression of idiopathic pulmonary fibrosis** Francesco Cavalli, Ermanno Puxeddu, Elisa Teodori, Maurizia Sforza, Patrizia De Marco, Paola Rogliani
816	**Serum CC16 is a potential predictor for IPF diagnosis and prognosis** Yaqiong Tian (Nanjing, China), Xianhua Gui, Hui Li, Jingjing Ding, Yin Liu, Yongsheng Wang, Jinghong Dai, Hourong Cai
817	**Potential new biomarkers for idiopathic pulmonary fibrosis** Marina Roksandić Milenković (Beograd, Republic of Serbia), Jelena Kotur Stevuljević, Vesna Ćeriman, Vladislav Milenković, Dragana Jovanović
818	**IL-18 binding protein as a noble biomarker for idiopathic pulmonary fibrosis** Yu Nakanisihi (Hiroshima, Japan), Yasushi Horimasu, Kakuhiro Yamaguchi, Shinjiro Sakamoto, Takeshi Masuda, Taku Nakashima, Shintaro Miyamoto, Hiroshi Iwamoto, Kazunori Fujitaka, Hironobu Hamada, Noboru Hattori
819	**Immunologically 'supercharged' monocytes as drivers of chronic fibrosis in idiopathic pulmonary fibrosis** Ling-Pei Ho (Oxford (Oxfordshire), United Kingdom), Emily Fraser, Laura Denney, Chaitanya Vuppusetty, Agne Antanaviciute, Victoria St.Noble, Rachel Benamore, Rachel Hoyles
820	**KL-6 as a potential therapeutic biomarker in fibrosing interstitial lung diseases** Vivien Somogyi (Heidelberg, Germany), Katharina Mayer, Katharina Kriegsmann, Mark Kriegsmann, Peter Findeisen, Michael Kreuter
821	**Endotrophin is related to disease progression in idiopathic pulmonary fibrosis** Henrik Jessen (Herlev, Denmark), Nils Hoyer, Sarah Rønnow, Morten Karsdal, Diana Leeming, Jannie Sand, Saher Shaker
822	**Serum ST2 in Idiopathic Pulmonary Fibrosis (IPF): a possible new biomarker of disease?** Ermanno Puxeddu (Roma (RM), Italy), Francesco Cavalli, Giuseppe Cillis, Elisa Teodori, Marco Perrone, Paola Rogliani
823	**Neutrophil-to-lymphocyte ratio in IPF patients: a novel prognostic biomarker?** Miriana d'Alessandro (Siena, Italy), Laura Bergantini, Paolo Cameli, Alfonso Carleo, Piersante Sestini, Elena Bargagli
824	**Impact of BAL lymphocytosis > 15% on the prognosis of chronic idiopathic interstitial pneumonias other than idiopathic pulmonary fibrosis: a retrospective nationwide study based on multidisciplinary discussion** Akira Yamagata (Kyoto, Japan), Machiko Arita, Fumiaki Tokioka, Chikatoshi Sugimoto, Hiromitsu Sumikawa, Tomonori Tanaka, Hideki Yasui, Tomoyuki Fujisawa, Yutaro Nakamura, Takafumi Suda, Tadashi Ishida
825	**Cytokines, chemokines and growth factors concentration in BAL fluid from patients with Idiopathic pulmonary fibrosis (IPF) and nonspecific interstitial pneumonia (NSIP)** Marc Kaestle (Biberach an der Riß, Germany), Kerstin Geillinger-Kästle, David Lamb, Ulrich Costabel, Dirk Theegarten, Sorif Uddin, Matthew Thomas, Lutz Wollin, Francesco Bonella
826	**Difference between pathogenic and inhibitory bacterial florae is associated with acute exacerbation of idiopathic pulmonary fibrosis** Shinichiro Ohshimo (Hiroshima, Japan), Hiromi Nishi, Kakuhiro Yamaguchi, Yasushi Horimasu, Takeshi Masuda, Shintaro Miyamoto, Hiroshi Iwamoto, Kazunori Fujitaka, Hironobu Hamada, Hiroyuki Kawaguchi, Francesco Bonella, Josune Guzman, Ulrich Costabel, Noboru Hattori, Nobuaki Shime
827	**Analysis of the ratio of the main pulmonary artery to that of the aorta on chest CT in patients with combined pulmonary fibrosis and emphysema.** Takatomo Hirouchi (Tokyo, Japan), Shinichiro Ota, Masashi Nishimura, Kanako Shinada, Miwa Morikawa, Sumitaka Yamanaka, Masahiro Shinoda, Osamu Sasaki, Masaharu Shinkai
828	**Angiogenesis in idiopathic pulmonary fibrosis** Cristina Sabater Abad (Valencia, Spain), Gustavo Juan Samper, Susana Torres Martinez, Estrella Fernández-Fabrellas, Vanessa Jaimes Diaz, Esther Verdejo Mengual, Silvia Calabuig Fariñas

Pre-congress content Session 76 00:00 - 23:59

E-poster session: Pulmonary rehabilitation across the globe

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

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

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

829	**Late Breaking Abstract - Effect of asthma gymnastic on blood nitric oxide, mood, energy expenditure and sex quality** Yusup Subagio Sutanto (surakarta, Indonesia), Ita Juliastuti, Debree Septiawan, Dewi Nurul Makhabah, Suradi Suradi
830	**Late Breaking Abstract - Usefullness of diaphragmatic ultrasound to evaluate the efficacy of EzPAP during the respiratory rehabilitation in post extubated COVID-19 patients** Anna Filomena Ferravante (Roma (RM), Italy), Francesca Plazzi, Ilaria Valentini, Susanna Mascetti, Alessia Fabiano, Stefania Pezzi, Andrea Mussoni, Eva Bernardi, Luigi Arcangelo Lazzari Agli
831	**Barriers to pulmonary rehabilitation in a private hospital in Brazil: a physician survey study** Fernanda Gushken (São Paulo, Brazil), Thaiz C. Colognese, Maira T. Rodrigues, Mayra Zanetti, José Luiz Bonamigo-Filho, Luciana D. N. J. De Matos, Luiza Helena Degani-Costa
832	**Impact of a pulmonary rehabilitation service on functional capacity and quality of life in resource-scarce settings** Rahma Altaf (Karachi, Pakistan), Farah Naz, Farrukh Siddique, Arman Majidulla, Saima Saeed
833	**A Breath of Fresh Air** Samantha Pilsworth (Liverpool (Merseyside), United Kingdom), Samantha Pilsworth, Andrew Levy, David Barber, Dennis Wat, Sarah Sibley
834	**Impact of six week hospital based Pulmonary Rehabilitation programme in patients with post Pulmonary Tuberculosis sequelae: Initial results from a hospital based longitudinal study** Aqeel Hussain (Baramulla, India), Alkesh Khurana, Rajkrishnan Soman, Abhishek Goyal, Brijendra Singh
835	**Chest pains among chronic lung disease patients before and after a pulmonary rehabilitation programme; implementation in four countries on three continents.** Sanne van Kampen, Rupert Jones, Winceslaus Katagira, Bruce Kirenga, An Le Pham, Nguyen Ngoc Minh, Marilena Anastasaki, Ioanna Tsiligianni, Christos Lionis, Talant M. Sooronbaev, Niels Chavannes, Sally Singh
836	**Assessing the knowledge and enthusiasm for Pulmonary Rehabilitation in Uganda: Global RECHARGE** Winceslaus Katagira (Kampala, Uganda), Bruce Kirenga, Mark Orme, Amy Jones, Ruhme Miah, Michael Steiner, Rupert Jones, Andy Barton, Sally Singh
837	**What should Pulmonary Rehabilitation (PR) look like for people with post-tuberculosis lung disease (PTBLD) in Kyrgyzstan?** Maamed Mademilov (Bishkek, Kyrgyzstan), Gulzada Mirzalieva, Claire Bourne, Mark Orme, Amy Jones, Ruhme Miah, Azamat Akylbekov, Alena Oleinik, Aidai Rysbek Kyzy, Rupert Jones, Andy Barton, Dominic Malcolm, Talant Sooronbaev, Sally Singh
838	**Can a COPD pharmacist reduce out-patient clinic non-attendance rates?** Maeve Savage (London, United Kingdom), Maeve Savage, Alicia Piwko, Amy Dewar , Gráinne D'Ancona
839	**Implementation evaluation of the „Living well with COPD" self-management program in Switzerland** Anja Frei (Zürich, Switzerland), Alexandra Strassmann, Mathias Guler, Tania Carron, Claudia Steurer-Stey, Kaba Dalla Lana, Philippe Giroud, Isabelle Peytremann-Bridevaux, Milo Puhan
840	**Non Cystic Fibrosis Bronchiectasis: Results of Bronchiectasis Severity Index and Quality of Life in an Indian population** Shubham Sharma (Jaipur (Rajasthan), India), Shyam Krishnan, Tarang Kulkarni, Raja Dhar
841	**Physical function and health related quality of life following critical illness in the private health care sector in South Africa.** Alison Lupton-Smith (Cape Town (Cape), South Africa), Helanie Pool, Susan Hanekom
842	**Respiratory rehabilitation in patients with stable COPD** Cristina Pou Alvarez (A Guarda, Spain), María Elena Toubes Navarro, Pablo Mascareñas Pazos, José Manuel García Pazos, José Manuel Álvarez Dobaño, Jorge Ricoy Gabaldón, Ana Casal Mouriño, Luis Sanz Anchelergues, Luis Valdés Cuadrado
843	**Acute exacerbations of chronic obstructive pulmonary disease (AE-COPD): A qualitative exploratory study of patients' needs following discharge** Bedor Alkhathlan (Leicester, United Kingdom), Neil Greening, Theresa Harvey-Dunstan, Sally Singh
844	**5-year follow-up of a respiratory rehabilitation program** Filipa Lemos e Aguiar (Paredes, Portugal), Paula Simão, Paula Almeida
845	**Evidence for pulmonary rehabilitation in chronic respiratory diseases in sub-Saharan Africa: a systematic review** Fanuel Bickton (Blantyre, Malawi), Cashon Fombe, Enock Chisati, Jamie Rylance

846 **The opinions of people living with chronic respiratory disease (CRD) and healthcare professionals (HCPs) about Pulmonary Rehabilitation (PR) in Kyrgyzstan.**
Azamat Akylbekov (Bishkek, Kyrgyzstan), Maamed Mademilov, Aidai Rysbek Kyzy, Mark Orme, Amy Jones, Michael Steiner, Rupert Jones, Andy Barton, Talant Sooronbaev, Sally Singh

847 **Opinion and practice of pulmonary rehabilitation amongst health care providers in selected areas of Sri Lanka**
Chamilya Perera (Kelaniya, Sri Lanka), Akila Randika Jayamaha, Mark W Orme, Amy V Jones, A. A. T. D. Amarasekara, Andy Barton, Michael C Steiner, Rupert Jones, S. W. Wimalasekera, S. J. Singh

848 **ARE THERE CLINICALLY RELEVANT BENEFITS IN A STRUCTURED PROGRAM OF PHYSICAL ACTIVITY IN COPD? ACTIVEPOC STUDY.**
Gianna Vargas Centanaro (Madrid, Spain), Juan Rodriguez Hermosa , Jose Alvarez- Sala , Alfonso Montero , Eva Escobar, Walther Giron , Irene Dominguez, Luis Puente Maestu, Myriam Calle

Pre-congress content Session 77 00:00 - 23:59

E-poster session: New imaging techniques applied to old problems

Disease(s) : Airway diseases | Thoracic oncology | Pulmonary vascular diseases | Sleep and breathing disorders

Method(s) : Imaging | Pulmonary function testing | Physiology | Public health | Cell and molecular biology

849 **Relationship of the size of MPA (main pulmonary artery) and MPA/Ascending aorta ratio with severity of bronchiectasis in children with PCD**
Adnan Zafar (Rawalpindi, Pakistan), Muhammad Qureshi, Mohammad Alzaid, Wadha Alotaibi

850 **Performance of the First Dark-Field Chest X-ray System on Patients**
Gregor S. Zimmermann (München, Germany), Konstantin Willer, Wolfgang Noichl, Theresa Urban, Manuela Frank, Fabio De Marco, Rafael Schick, Bernhard Renger, Alexander Fingerle, Hubert Hautmann, Bernhard Haller, Pascal Meyer, Thomas Koehler, Roland Proksa, Hanns-Ingo Maack, Andre Yaroshenko, Jens Von Berg, Karsten Rindt, Daniela Pfeiffer, Ernst Rummeny, Julia Herzen, Franz Pfeiffer

851 **Possibilities of neural networks in the X-ray detection of lung pathology and diagnosis of pneumonia**
Elena Filatova (Ekaterinburg (Sverdlovsk Oblast), Russian Federation), Elena Filatova, Vecheslav Shibaev, Igor Medvinskiy, Anna Berdnikova, Alexy Savelyev, Nikolay Khlebnikov

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

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

854 **Detailed annotation of airway mucus plugs to inform deep learning-based methods for automated mucus scoring.**
Franklin Heng (San Francisco , United States of America), Travis Henry, Brendan Huang, Eleanor Dunican, Brett Elicker, John Fahy

855 **A preliminary set of growth adjusted reference equations for Structured light plethysmography (SLP)**
Shayan Motamedi Fakhr (Ely (Cambridgeshire), United Kingdom), Nicki Barker, John Alexander, Richard Iles, Brendan G Cooper

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

857 **The comparison of the several machine learning systems and the analysis of digital X-ray images with a syndrome nodule and mass in the lungs**
Uliana Smolnikova (Saint Petersburg, Russian Federation), Pavel Gavrilov, Alexey Ushkov

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

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

860 **The A-aDO2 rather than the Fick principle can be used to estimate the right-to-left shunt fraction in pulmonary arteriovenous malformation**
Jun Nagata (Chiba, Japan), Toshihiko Sugiura, Shun Imai, Ayumi Sekine, Takayuki Jujo, Seiichiro Sakao, Yasunori Kasahara, Nobuhiro Tanabe, Koichiro Tatsumi

861 **Assessing bronchodilator response in patients with asthma and COPD using 19F-MRI**
Benjamin Pippard (Newcastle upon Tyne (Tyne and Wear), United Kingdom), Mary Neal, Ian Forrest, Ian Sabroe, Rod Lawson, A John Simpson, Jim Wild, Pete Thelwall

862 **The frequency of the errors in the interpretation of digital radiographs of the chest by radiologists when detecting nodule and mass in the lungs.**
Uliana Smolnikova (Saint Petersburg, Russian Federation), Alexey Ushkov, Pavel Gavrilov

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

864 **Quantitative assessments for lung hyperinflation and chest wall geometry change by dynamic breathing MRI in patients with COPD**
Ayako Shimada (Chiba, Japan), Naoko Kawata, Hirotaka Sato, Jun Ikari, Eiko Suzuki, Rie Anazawa, Masaki Suzuki, Yoshitada Masuda, Hideaki Haneishi, Koichiro Tatsumi

Pre-congress content Session 78 00:00 - 23:59

E-poster session: Interventional pulmonology: the pleura and bronchoscopic treatment of emphysema

Disease(s) : Airway diseases Thoracic oncology

Method(s) : Pulmonary function testing Endoscopy and interventional pulmonology Imaging General respiratory patient care Surgery Palliative care

Chairs : Pratibha Singhal (Mumbai (Maharashtra), India), Mehrnaz Asadi Gharabaghi (Tehran, Islamic Republic of Iran)

865 **A single centre's real world experience with Rocket® Pleural Vent™ for treating pneumothorax**
Michael Ball (Salisbury, United Kingdom), Suresh Babu, Adam Wallis, Louise Newman

866 **Indwelling pleural catheters for refractory transudative effusions: a tertiary centre experience**
Vineeth George (Oxford, United Kingdom), Robert Hallifax, Rachel Mercer, Eihab Bedawi, Radhika Banka, Bavidra Kulendrarajah, Najib Rahman

867 **Efficacy And Safety Of Thoracoscopic Cryobiopsy In Patients With Undiagnosed Exudative Pleural Effusion**
Tamer Ali El-Hadidy (Mansoura, Egypt), Ahmed Mansour, Raed Ali, Tamer El Sayed

868 **Oncodrivers in malignant pleural effusions associated with non-small cell lung cancer**
Katrine Fjællegaard (Farum, Denmark), Jesper Petersen, Asbjorn Hoegholm, Paul Frost Clementsen, Uffe Bodtger

869 **Utility of ultrasound-guided pleural biopsy in guiding treatment for malignant pleural disease**
Vineeth George (Oxford, United Kingdom), Robert Hallifax, Rachel Mercer, Eihab Bedawi, Radhika Banka, Bavidra Kulendrarajah, Najib Rahman

870 **IPFT (Streptokinase) in septated/loculated pleural effusion with failed tube drainage is still relevant in developing countries: A Case-control study**
Rajat Kumar Agarwal (Bareilly (Uttar Pradesh), India), Rajesh Agrawal, Aseem Rajpal

871 **Blind pleural biopsy in the study of undiagnosed pleural effusion: results and complications**
Mariana Barreira Calheiros Barbosa Cabral (Porto, Portugal), Dionísio Maia, Ana Magalhães, Bruno Mendes, Carlos Figueiredo, Sofia Santos, Nicole Murinello, Rita Gerardo, Alexandra Mineiro, João Cardoso

872 **Medical thoracoscopy in patient with the absence or a small amount of pleural effusionMedical thoracoscopy in patient with the absence or a small amount of pleural effusion**
Kaige Wang (, China), Fengming Luo, Panwen Liu, Dan Liu, Peng Sun, Yanlin Zhang, Haiyan Lu

873 **Ambulatory pneumothorax with 8FG Rocket® Pleural Vent™ : setting up a service and probable safety in secondary pneumothoraces**
Avinash Aujayeb (newcastle, Mauritius), Karl Jackson

874 **Chest drain insertion documentation: if it wasn't written it didn't happen**
Mphatso Wirima (Norwich, United Kingdom), Asif Mahmood, Faraz Sonde, Luaie Idris

875 **Endobronchial valves for emphysema are effective in patients with moderate hyperinflation in the presence of a clear target lobe**
Karin Klooster (Groningen, Netherlands), Jorine E. Hartman, Dirk-Jan Slebos

876 **Impact of endobronchial valves treatment on gas exchange in emphysema**
Marlies van Dijk (Groningen, Netherlands), David Koster, Karin Klooster, Jorine Hartman, Dirk-Jan Slebos

877	**Lung volume reduction surgery after endobronchial valve treatment** Marlies van Dijk (Groningen, Netherlands), Karin Klooster, Jorine E. Hartman, T. David Koster, Caroline Van De Wauwer, Dirk-Jan Slebos
878	**Lung functional predictors of improvement in exercise capacity and quality of life after lung volume reduction by endobronchial valves** Stephanie Everaerts (Leuven, Belgium), Astrid Blondeel, Christophe Dooms, Laurens Ceulemans, Heleen Demeyer, Johan Coolen, Dirk Van Raemdonck, Geert Verleden, Thierry Troosters, Wim Janssens
879	**Human infection with zoonotic agent and COPD exacerbation in late course of endoscopic lung-volume reduction** Aurélien Gonze (, Belgium), Richard Frognier, Afshin Rezazadeh, Adeline Rosoux
880	**Quantitative CT analysis of fissure integrity and emphysema heterogeneity for one-way valve treatment; Analysis in Japanese COPD patients** Masamichi Mineshita, Hiroki Nishine, Hiroshi Handa, Hirotaka Kida, Naoki Furuya, Kei Morikawa
881	**Arterial blood gases changes after endoscopic lung volume reduction** Mostafa Bakeer (Mansoura, Egypt), Marina Duller, Kelly Groß, Georg-Christian Funk, Arschang Valipour

Pre-congress content Session 79 00:00 - 23:59

E-poster session: Optimising the benefits of pulmonary rehabilitation

Disease(s) : Airway diseases Interstitial lung diseases

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

Chairs : Jennifer Alison (Killara (NSW), Australia), Janos Tamas Varga (Budapest, Hungary)

882	**Late Breaking Abstract - Exercise rehabilitation in telemedicine for COVID-19 patients.** Eva Bernardi (Vazzola (TV), Italy), Francesca Plazzi, Anna Ferravante, Ilaria Valentini, Andrea Mussoni, Sussanna Mascetti, Luigi Arcangelo Lazzari Agli
883	**Late Breaking Abstract - 'Shielding': Patient experience of measures to reduce risk of COVID-19 in those with pre -existing respiratory conditions** Andrew Cumella (London, United Kingdom), Keir Philip, Erika Kennington
884	**Barriers to access to pulmonary rehabilitation in developing countries: a systematic review** Rebecca Farah (Bruxelles, Belgium), Wim Groot, Milena Pavlova
885	**Effects of a comprehensive pulmonary rehabilitation (PR)-program on frailty in lung transplantation candidates – a prospective observational study** Tessa Schneeberger (Schönau am Königssee, Germany), Inga Jarosch, Daniela Leitl, Rainer Gloeckl, Jian Wiederhold, Sophia Leidinger, Klaus Kenn, Andreas Rembert Koczulla
886	**Long-term effectiveness of home-based pulmonary rehabilitation in elderly people with severe COPD and chronic respiratory failure.** Sarah Gephine (Québec (QC), Canada), Olivier Le Rouzic, François Machuron, Benoit Wallaert, Cécile Chenivesse, Didier Saey, François Maltais, Patrick Mucci, Jean-Marie Grosbois
887	**Sarcopenia in idiopathic pulmonary fibrosis (IPF): Prevalence and response to pulmonary rehabilitation (PR)** Claire M. Nolan (Richmond, United Kingdom), Matthew Maddocks, Toby M. Maher, Suhani Patel, Ruth E. Barker, Jessica Walsh, Oliver Polgar, Peter M. George, William D.C Man
888	**Effects of home-based pulmonary rehabilitation on physical frailty in people with COPD and chronic respiratory failure.** Sarah Gephine (Québec (QC), Canada), Jean-Marie Grosbois, Didier Saey, François Maltais, Patrick Mucci
889	**An increase in steps per day 6 weeks after pulmonary rehabilitation of COPD patients correlates with an improvement in quality of life** Konrad Schultz (Bad Reichenhall, Germany), Matthias-Peter Limbach, Michael Schuler, Johannes Carl, Klaus Pfeifer, Wolfgang Geidl
890	**Freestyle diving training in pulmonary rehabilitation in COPD.** Janos Tamas Varga (Budapest, Hungary), Zoltan Csizmadia, Blanka Toth, Maria Kerti
891	**Do you know if your patient can cross the traffic light during the green period? – a prospective observational study** Inga Jarosch (Schönau am Königssee, Germany), Sophia Leidinger, Tessa Schneeberger, Jian Wiederhold, Rainer Glöckl, Daniela Leitl, Andreas Rembert Koczulla, Klaus Kenn

892 **Incorporating patients with chronic heart failure (CHF) into pulmonary rehabilitation (PR): a propensity matched analysis**
Oliver Polgar (Harrow, United Kingdom), Claire M Nolan, Ruth E Barker, Suhani Patel, Jessica A Walsh, William D-C. Man

893 **The effect of aerobic and breathing exercises on clinical control and psychosocial status in patients with moderate and severe asthma: a RCT**
Fabiana Kim (São Paulo, Brazil), Jaqueline Rocha, Denielli Da Silva Gonçalves Bos, Cibele Berto, Adriana Lunardi, Andrey Wirgues, Patrícia Duarte Freitas, Rafael Stelmach, Alberto Cukier, Celso Carvalho

894 **Survey of an online pulmonary wellness & rehabilitation program in people with chronic respiratory disease**
Noah Greenspan (New York, United States of America), Marcella Debidda, Aastha Joshi, Marion Mackles, Donna Frownfelter, Donna Wilson, Mark Mangus, Greg Sweeney, Akua Adu-Labi, Wai Chin, Patricia Rocco, Mackenzie Doerstling, Brian Tzaskos, Meredith Liss, Roberta Mittman, Cynthia Revesz, Jenny Campbell, Ryan Diesem, Amy Price

895 **Improving pulmonary rehabilitation completion with personalised exercise and education modules: the PuReMod trial**
Renae McNamara (Sydney (NSW), Australia), Lingling Tsai, Mary Santos, Jennifer Alison

896 **Feasibility of digital long term follow up after pulmonary rehabilitation in patients with COPD: a pilot study**
Nils Henrik Holmedahl (Jessheim, Norway), Ingrid Sundfør, Cesilie M Stenbakken, Siri H Solberg, Anne Edvardsen

897 **L-glutamine supplementation improves upper airways immune response in sedentary and physically active elderly**
Juliana Santos (Salvador (BA), Brazil), Vitória Paixão, Ewin Almeida, Telma Cordeiro, Jonatas Amaral, Roberta Foster, Adriane Perandio, Tamaris Roseira, Marcelo Rossi, Fernanda Monteiro, Gislene Amirato, Carlos Santos, Mauro Vaisberg, Rodolfo Vieira, André Bachi

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

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

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

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

Pre-congress content — Session 80 — 00:00 - 23:59

E-poster session: Inflammatory pathways in chronic airway diseases

Disease(s) : Airway diseases, Thoracic oncology

Method(s) : Cell and molecular biology

Chairs : Eva Garrido (Madrid, Spain), Jonathan R. Baker (London, United Kingdom)

902 **Late Breaking Abstract - The airway sensory nerve transcriptome: evidence for neuropathic injury following lipopolysaccharide induced lung inflammation.**
Ana Isabel Caceres (Durham, United States of America), Melanie Maya Kaelberer, Sven-Eric Jordt

903 **Uncovering regulatory function of single nucleotide polymorphisms associated with severe COPD exacerbations**
Fabienne Gally (Denver, United States of America), Sarah Sasse, Joshua Carey, Anthony Gerber

904 **Sirt3-MnSOD signaling pathway attenuates airway epithelial mitochondrial oxidative stress in chronic obstructive pulmonary disease**
Ming Zhang, Yeli Zhang, Jingjing Tang, Rong Shi, Jie Zhang, Yali Li, Lei Fang, Michael Roth

905 **Gene expression and methylation are altered by smoke cessationin the airway wall**
Alen Faiz (Ultimo (NSW), Australia), Senani N.H. Rathnayake, Corneel Vermeulen, Nick Ten Hacken, Wim Timens, Wierd Kooistra, Irene H. Heijink, Corry-Anke Brandsma, Brian G. G. Oliver, Maarten Van Den Berge

906 **MiRNA-mRNA-protein network integration reveals dysregulation of oxidative stress and apoptosis in smoking-induced COPD in women**
Åsa Wheelock (Stockholm, Sweden), Chuan-Xing Li, Jing Gao, C. Magnus Skold

907	**Involvement of Parkin-mediated mitophagy in COPD-related sarcopenia pathogenesis** Akihiko Ito (Mintato-Ku, Tokyo, Japan), Mitsuo Hashimoto, Jun Tanihata, Hironori Kawamoto, Yusuke Hosaka, Akihiro Ichikawa, Tsukasa Kadota, Yu Fujita, Shunsuke Minagawa, Takanori Numata, Hiromichi Hara, Jun Araya, Kazuyoshi Kuwano
908	**Bronchial airway expression of mucin-related, ENaC and chloride channel genes in COPD and non-COPD smokers compared to former and never smokers** Benedikt Ditz (9713 GZ , Netherlands), Senani Rathnayake Mudiyanselage, Jos Van Nijnatten, Corry-Anke Brandsma, Pieter Hiemstra, Wim Timens, Huib Kerstjens, Maarten Van Den Berge, Alen Faiz
909	**LSC - 2020 - The role of the COPD susceptibility gene FAM13A in barrier function and pro-inflammatory response s of human airway epithelial cells** Qing Chen (Groningen, Netherlands)
910	**MiR-320d has a regulatory effect in airway inflammation in COPD** Mirjam P. Roffel, Corry-Anke Brandsma, Alen Faiz, Maarten Van Den Berge, Tania Maes, Ken R. Bracke, Irene H. Heijink
911	**Changes in the induced sputum proteome during COPD exacerbations** Ingvild Haaland (Bergen, Norway), Marit E. Aardal, Frode S. Berven, Marc Vaudel, Rune Nielsen, Marianne Aanerud, Jon A. Hardie, Per S. Bakke, Tomas M. Eagan
912	**Metabolomics identifies biomarkers of exacerbations in smokers with and without COPD** Carolina Gotera (Madrid, Spain), Antonio Pereira Vega, Tamara García Barrera, José María Marín Trigo, Ciro Casanova Macario, Borja García-Cosío, Isabel Mir Viladrich, Ingrid Solanes García, José Luis Gómez Ariza, José Luis López Campos, Luis Seijo Maceiras, Nuria Feu Collado, Carlos Cabrera López, Carlos Amado Diago, Amparo Romero Plaza, Juan Pablo De Torres Tajes, Luis Alejandro Padrón Fraysse, Belén Callejón Leblic, Eduardo Márquez Martín, Margarita Marín Royo, Eva Balcells Vilarnau, Antonia Llunell Casanovas, Cristina Martínez González, Juan Bautista Galdiz Iturri, Celia Lacárcel Bautista, Sandra García Garrido, Germán Peces-Barba
913	**Chromatin dynamics via HMGN5 regulates COPD susceptibility** Thomas Conlon (Neuherberg, Germany), Julian Dorer, Rim Sarker, Gerald Burgstaller, Lisa Merthan, Valerie Gailus-Durner, Helmut Fuchs, Martin Hrabě De Angelis, Takashi Furusawa, Michael Bustin, Ali Önder Yildirim
914	**Regulation of airways smooth muscle contraction through RG-1 in asthma: a proteomic approach** Marisol Alvarez-Gonzalez (, Mexico), Mayra Alvarez-Santos, Blanca Margarita Bazan-Perkins
915	**An investigation of miR-21 and the TLR4/PDCD4 axis in CF bronchial epithelium** Arlene Glasgow (Dublin, Ireland), Sebastian Vencken, Chiara De Santi, Rana Raoof, David Henshall, Barry Linnane, Paul Mcnally, Catherine Greene
916	**Comparative transcriptional analysis of differentiation in murine mucociliary epithelia** Md. Miraj Kobad Chowdhury (Dhaka, Bangladesh), Priyanka Anujan, Apoorva Mulay, Lynne Bingle, Colin Bingle
917	**CARD9S12N allele expression imbalance favors development of allergic bronchopulmonary aspergillosis** Xia Xu (, China), Xinming Jia, Jinfu Xu
918	**Mapping of KRAS mutations during chemical carcinogenesis** Sabine Behrend (München, Germany), Magda Spella, Mario A. A. Pepe, Marina Lianou, Ioanna Giopanou, Georgios T. Stathopoulos

Pre-congress content Session 81 00:00 - 23:59

E-poster session: Exploring exercise responses in respiratory diseases

Disease(s) : Airway diseases | Pulmonary vascular diseases | Interstitial lung diseases | Sleep and breathing disorders

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

Chairs : Mayron Oliveira (São Paulo (SP), Brazil), Christina M. Spengler (Zürich, Switzerland)

919	**Cardio-pulmonary-exercise testing, stress-induced right ventricular diastolic dysfunction and exercise capacity in non-severe chronic obstructive pulmonary disease** Radostina Cherneva (Sofia, Bulgaria), Dimitur Kostadinov, Zheyna Cherneva
920	**Energy cost of walking : Idiopathic Pulmonary Fibrosis vs COPD** Khadija Ayed (Nabeul, Tunisia), Salma Moakaddem, Soumaya Khaldi, Asma Chaker, Saloua Benkhamsa Jameleddine
921	**Alterations in cardiovascular function in COPD and heart failure patients with sarcopenia** Manuel Abraham Gómez Martínez (Mexico City, Mexico), Óscar Martínez Reyna, Arturo Orea Tejeda, Dulce Gonzalez Islas, Rocio Sanchez Santillan, Nathalie Martinez Luna, Yael Ramiro Gastelum Ayala, Ilse Perez Garcia, Valeria Ariadna Martinez Vazquez, Itzel Ameyali Sandoval Sanchez, Martha Elena Quintero Martinez, Leslie Verdeja Vendrell, Teresa Suarez Landa, Juan Jose Orozco Gutierrez, Javier Mancilla Galindo

922	**Mechanisms of exertional dyspnea in patients with mild COPD and low resting lung diffusing capacity for carbon monoxide (DLCO)** Matthew James (Kingston (ON), Canada), Kathryn Milne, J Alberto Neder, Denis O'Donnell
923	**An exploratory comparison between the ratio of 1:2 legged cycling peak workload and other physical performance measures** Tom Ward (Market Harborough (Leicestershire), United Kingdom), Tom Ward, Michael Steiner, Charlotte Bolton, Martin Lindley, Rachael Evans
924	**Optimizing baseline constant work rate exercise test duration for COPD bronchodilator studies** Richard Casaburi (Rancho Palos Verdes, United States of America), Gale Harding, Danielle Rodriguez, Debora Merrill, Nichloas Locantore, Ren Yu, Harry Rossiter, Alan Hamilton
925	**New approach for submaximal cardiopulmonary exercise testing in COPD aiming to reduce variability in endurance time** Georgia Papapostolou (Lund, Sweden), Finn Radner, Jaro Ankerst, Leif Bjermer, Linnea Jarenbäck, Stefan Petersson, Ellen Tufvesson, Göran Eriksson
926	**Hemodynamic effects of high intensity interval training in COPD with hypoxemia.** Lars Aakerøy (Trondheim, Norway), Ester Nørstebø, Karen Thomas, Knut Hegbom, Espen Holte, Eivind Brønstad, Sigurd Steinshamn
927	**Analysis of changes in clinical characteristics of patients with COPD or interstitial pneumonia during a 6-minute walk test** Atsushi Ogi (Osaka, Japan), Taisuke Enoki, Tetsuya Matsumoto, Kenichi Ito, Gaku Shimizu, Miyuki Okuda, Nobuya Tanaka, Koji Fukuda, Ryuji Nohara
928	**The link between dynamic hyperinflation, autonomic dysfunction and exercise testing parameters with masked heart failure in patients with non-severe obstructive pulmonary disease** Radostina Cherneva (Sofia, Bulgaria), Dimitur Kostadinov, Zheyna Cherneva
929	**COPD attenuates NK and TReg cell mobilization following high-intensity interval exercise** Asghar Abbasi (Torrance, United States of America), Valentina Sanghez, Michelina Iacovino, Robert Calmelat, Nicholas B. Tiller, Janos Porszasz, William W. Stringer, Richard Casaburi, Harry B. Rossiter
930	**Relationships among muscle oxidative capacity, coronary artery calcium, and hepatic steatosis in COPD: A pilot study** Nicholas Tiller (Torrance, United States of America), Harry Rossiter, Asghar Abbasi, April Kinninger, Matthew Budoff, Richard Casaburi, Alessandra Adami
931	**For once, it's not the heart! Exercise limitation in children from breathing pattern disorders post cardiac-surgery.** Thomas Goddard (Adelaide (SA), Australia), Zdenek Slavik, Samatha Sonnappa
932	**Paroxysmal nocturnal hemoglobinuria and cardio-respiratory system: new pathophysiological evidences** Marco Brunori (Roma (RM), Italy), Pasquale Pignatelli, Francesco Violi, Lorenzo Loffredo, Daniele Pastori, Anna Paola Iori, Luisa Quattrocchi, Matteo Salvini, Alessandra Napoli, Daniel Piamonti, Paolo Palange
933	**Cardiopulmonary response to stair climbing in patients with dysfunctional breathing** Karina Siewers (Copenhagen, Denmark), Emil Schwarz Walsted, Bishman Manivannan, Christopher Warren, Colm Mccabe, James H Hull
934	**Objective criteria to characterize an erratic breathing pattern in dyspnoeic patients undergoing cardiopulmonary exercise testing** Nathalia Mendes (Porto Alegre, Brazil), Talmir Nolasco, Franciele Plachi, Ricardo Gass, Marcelo Nogueira, Marcelo B. Gazzana, J Alberto Neder, Danilo C Berton
935	**Relationship between body mass index and exercise hyperpnea response (VE/VCO2) in unfit patients with unexplained dyspnea** Behdad Boroofeh (Tehran, Islamic Republic of Iran), Mehrnaz Asadi Gharabaghi, Masoumeh Azadi, Shahideh Amini
936	**Predictors of exercise-induced airways obstruction in patients with mild asthma.** Maroon Salameh (, Italy), Laura Pini, Federico Quadri, Fabio Spreafico, Damiano Bottone, Jordan Franz Giordani, Claudio Tantucci
937	**Six minute test in children and adults with cystic fibrosis** Tatjana Jakovska-Maretti (Skopje, North Macedonia), Angelco Andonovski, Filip Doksimovski

Pre-congress content Session 82 00:00 - 23:59

E-poster session: New insights into determinants of patient-reported outcomes in chronic respiratory diseases

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

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

Chairs : Sally J. Singh (Leicester (Leicestershire), United Kingdom), Rainer Gloeckl (Schoenau am Koenigssee, Germany)

938	**Late Breaking Abstract - The weekly recovery of physical capacities in COVID-19 patients during post-extubation pulmonary rehabilitation** Yara Al Chikhanie (Dieulefit, France), Samuel Vergès, Frédéric Hérengt , Daniel Veale
939	**Association between patient-reported outcomes and exercise test outcomes in patients with COPD.** Roy Meys (Horn, Netherlands), Anouk Stoffels, Sarah Houben-Wilke, Daisy Janssen, Chris Burtin, Hieronymus Van Hees, Frits Franssen, Bram Van Den Borst, Emiel Wouters, Martijn Spruit
940	**A newly developed ultra-small portable oxygen concentrator with equivalent efficacy to the conventional device** Shohei Kawachi (Matsumoto, Japan), Keisaku Fujimoto, Mahoko Sano
941	**Prevalence of non-pharmacological treatable traits in patients with asthma** Steffi Lemmens-Janssen (Leiden, Netherlands), Martijn Spruit, Jeanine Antons, Remco Djamin, Tjitske Tjalma, Hans In 'T Veen, Sami Simons, Hanneke Van Helvoort, Alex Van 'T Hul
942	**Barriers to Exercise in Difficult Asthma in the WATCH Cohort** Anna Freeman (Southampton, United Kingdom), Adnan Azim, Colin Newell, David Hill, Deborah Knight, Laura Presland, Matthew Harvey, Helen Moyses, Karl J Staples, Ramesh Kurukulaaratchy, Tom M A Wilkinson
943	**Effects of a NEMS program in muscle-wasted AECOPD patients** Laura Lopez Lopez (Granada, Spain), Andrés Calvache Mateo, Irene Torres Sánchez, María Granados Santiago, Jesús Gonzalez Dueñas, Marie Carmen Valenza
944	**The correlation between quadriceps muscle strength and endurance and exercise performance in patients with COPD** Anouk Vaes (Horn, Netherlands), Maurice Sillen, Yvonne Goërtz, Maarten Van Herck, Frits Franssen, Chris Burtin, Alex Van 'T Hul, Martijn Spruit
945	**The effects of mechanical insufflation-exsufflation on lung function and complications in post-cardiac surgery patients** PI HUNG TUNG (Taoyuan, Taiwan), Men-Fang Wu, Tsai-Yu Wang, Da-Shen Chen, Han-Chuang Hu, Shu-Min Lin
946	**Determinants of ESWT time variability in patients with COPD** Anouk Stoffels (Nijmegen (GE), Netherlands), Jeannette Peters, Mariska Klaassen, Hanneke Van Helvoort, Roy Meys, Peter Klijn, Chris Burtin, Wim Derave, Frits Franssen, Martijn Spruit, Bram Van Den Borst, Hieronymus Van Hees
947	**Effect of portable non-invasive ventilation on exercise tolerance in COPD: one size does not fit all** Nikolaos Chynkiamis (Newcastle Upon Tyne, United Kingdom), Matthew Armstrong, Emily Hume, Charikleia Alexiou, Lauren Snow, Nicholas D. Lane, Tom Hartley, Stephen C. Bourke, Ioannis Vogiatzis
948	**Resting Energy Expenditure in COPD: development of a new predictive equation** Panaiotis Finamore (Roma (RM), Italy), Greta Lattanzi, Claudio Pedone, Simone Scarlata, Antonio Alma, Raffaele Antonelli Incalzi
949	**Clinical evaluation of portable oxygen concentrators: impact of pulse oxygen delivery on exercise** Maxime Patout (Mont-Saint Aignan, France), Julien Maris, Boris Melloni, Claudio Rabec, Jacqueline Delrieu, Tristan Bonnevie, Francis-Edouard Gravier, Frederic Herengt, Yara Al Chikahanie, Didier Foret, Arnaud Chambellan, Jesus Gonzalez-Bermerjo, Antoine Cuvelier, Jean-Francois Muir
950	**Factors that affect the severity of fatigue in patients with COPD** Ridvan Aktan (balcova (izmir), Turkey), Aylin Ozgen Alpaydin , Elvan Keles , Sevgi Ozalevli
951	**Health status in COPD according to short physical performance battery summary score** Anouk Stoffels (Nijmegen (GE), Netherlands), Jana De Brandt, Roy Meys, Hieronymus Van Hees, Anouk Vaes, Peter Klijn, Chris Burtin, Frits Franssen, Bram Van Den Borst, Maurice Sillen, Emiel Wouters, Daisy Janssen, Martijn Spruit
952	**Feasibility and benefits of an innovative airway clearance device in COPD patients hospitalized for acute exacerbation** Ivan Solovic (Vysne Hagy, Slovakia), Alena Bodnarova , Laurent Morin

953 **The impact of walking behind the patient on six-minute walk test distance in chronic obstructive pulmonary disease: a randomized cross-over study**
Thomas Riegler (Heiligenschwendi, Switzerland), Anja Frei, Sarah R. Haile, Thomas Radtke

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

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

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

Pre-congress content Session 83 00:00 - 23:59

E-poster session: Prediction of outcomes in obstructive diseases

Disease(s) : Airway diseases Respiratory critical care

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

Chairs : Renaud Louis (Liège, Belgium), Gert-Jan Braunstahl (Rotterdam, Netherlands)

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

958 **Late Breaking Abstract - Overestimation of asthma control and misperception of short-acting ß2-agonists (SABA) use among physicians in Poland**
Radosław Gawlik (, Poland), Grażyna Bochenek, Dorota Brzostek, Wojciech Barg, Grzegorz Brożek, Piotr Dąbrowiecki, Andrzej Dąbrowski, Rafał Dobek, Aleksandra Kucharczyk, Maciej Kupczyk, Izabela Kupryś-Lipińska, Agnieszka Mastalerz-Migas, Marek L Kowalski

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

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

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

962 **Sputum Vitamin D binding protein (VDBP) GC1S/1S genotype predicts airway obstruction: a prospective study in smokers with COPD**
Jing Gao (Stockholm, Sweden), Tanja Törölä, Chuan-Xing Li, Steffen Ohlmeier, Tuula Toljamo, Pentti Nieminen, Noboru Hattori, Ville Pulkkinen, Hiroshi Iwamoto, Witold Mazur

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

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

965 **Z-alpha1-antitrypsin polymers and small airways disease: a new paradigm in COPD development?**
Laura Pini (Brescia (BS), Italy), Luciano Corda, Guido Levi, Laura Tiberio, Chiara Rocchetti, Marianna Arici, Jordan Franz Giordani, Claudio Tantucci

966	**Mortality prediction in chronic obstructive pulmonary disease comparing the GOLD 2015 and GOLD 2019 staging systems: a pooled analysis of individual patient data** Elena Garcia Castillo (Madrid, Spain), Tamara Alonso Pérez, Julio Ancochea Bermúdez, Maria Teresa Pastor Sanz, Juan Pablo De Torres, Bernd Lamprecht, Pere Almagro, Pablo Martínez Camblor, Marc Miratvilles, Mónica Rodríguez Carballeira, Inmaculada Alfageme, Ana Sofía Ramirez Garcia-Luna,, Berhand Kaiser, Ciro Casanova, Cristobal Esteban, Juan José Soler Cataluña, Bartolomé Celi, Jose María Marín, Patricia Sobradillo, Peter Lange, Judith Garcia Aymerich,, Josep Anto, Alice Turner, Han Meilan, Arnulf Laghammer, Sigrid Vikjord, Alice Stenberg, Linda Leivseth, Ane Johannessen, Oga Toru, Borja Cosío, Andrés Echazarreta, Nicolás Roche, Pierre Regis Burgel, Don Sin, Milo Puhan, Jose Luis López Campos, Annie Navarro, Laura Carrasco, Per Bakke, Joan B Soriano
967	**Hyaluronic acid in COPD exacerbations of different etiology** Eleni Papakonstantinou (Thessaloniki, Greece), Leticia Grize, Hans Hirsch, Michael Tamm, Daiana Stolz
968	**Neutrophil-to-lymphocyte ratio and COPD exacerbations in the TIE-study** Jens Ellingsen (Uppsala, Sweden), Christer Janson, Kristina Bröms, Hans Hedenström, Marieann Högman, Karin Lisspers, Björn Ställberg, Andrei Malinovschi
969	**Exacerbation burden in mild asthma: Evidence from the NOVELTY study** Sarowar Muhammad Golam (Göteborg, Sweden), Mohsen Sadatsafavi, Marianna Alacqua, Richard Beasley, J Mark Fitzgerald, Tim Harrison, Rod Hughes, Hana Müllerová, Jose Maria Olaguibel, Eleni Rapsomaniki, Helen K Reddel, Christer Janson
970	**Increased plasma fibrinogen could predict frequent exacerbations in asthma** Vitina Carriero (Orbassano, Italy), Francesca Bertolini, Andrea Sprio, Fabio Luigi Massimo Ricciardolo
971	**Iron deficiency and lung function decline in stable COPD – a prospective cohort study** Benjamin Waschki (Hamburg, Germany), Tanja Zeller, Niels Thomsen, Christina Magnussen, Stefan Blankenberg, Klaus Rabe, Mahir Karakas, Henrik Watz
972	**Risk factors for early readmission after acute exacerbation of chronic obstructive pulmonary disease** Yong Suk Jo (Seoul, Republic of Korea), Chin Kook Rhee, Kwang Ha Yoo, Yong-Bum Park
973	**Phenotypic factors as predictors of thrombotic conditionsin patients with chronic obstructive disease** Elnorahon Abduganieva (Москва, Russian Federation), Liverko Irina
974	**Efficiency of different multidimensional indexes for the assessment of the risk of exacerbations in patients with COPD** Alexandru Corlateanu (Chisihau, Republic of Moldova), Eugenia Scutaru, Doina Rusu, Olga Corlateanu, Serghei Covantev, Victor Botnaru
975	**A novel alert system for impending acute exacerbation of COPD based on cough monitoring.** Michael Crooks (York (North Yorkshire), United Kingdom), Albertus Den Brinker, Ralph Van Dinther, Susannah Thackray-Nocera, Caroline Wright, Alyn Morice

Pre-congress content — Session 84 — 00:00 - 23:59

E-poster session: Clinical studies of COPD: combination inhalers and much more

Disease(s) : Airway diseases

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

Chairs : Nicolas Roche (Paris, France), Alexander Mathioudakis (Manchester, United Kingdom)

976	**The TRIFLOW study; A randomised, cross-over study evaluating the effects of inhaled beclometasone/formoterol/glycopyrronium (BDP/F/G) on hyperinflation in COPD** Dave Singh (Manchester, United Kingdom), Catalina Panainte, Naimat Khan, James Dean
977	**COPD exacerbation rates by month in the ETHOS trial with budesonide/glycopyrronium/formoterol metered dose inhaler (BGF MDI) at two ICS dose levels** Fernando J. Martinez (New York, United States of America), Klaus F. Rabe, Gary T. Ferguson, Chen Wang, Dave Singh, Jadwiga A. Wedzicha, Roopa Trivedi, Earl St Rose, Shaila Ballal, Julie Mclaren, Patrick Darken, Magnus Aurivillius, Colin Reisner, Paul Dorinsky
978	**TriOptimize VII: Improvement of health-related quality of life after 3 months treatmentwith extrafine single inhaler triple therapy in COPD patients in a real-world setting.** Christian Gessner (Leipzig, Germany), Sanaz Bahari Javan, Raimund Hövelmann, George Georges, Kai Melchior, Carl-Peter Criée

979 **Effect of triple therapy with extra-fine BDP/FF/GB pMDI vs non-triple maintenance therapies on severe COPD exacerbations. A pooled analysis of the TRILOGY, TRINITY and TRIBUTE studies.**
Dave Singh (Manchester, United Kingdom), Enrico Clini, Alberto Papi, Alessio Piraino, Elena Nudo, Alessandro Guasconi, George Georges, Jorgen Vestbo

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

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

982 **Characterising patients with COPD by baseline short-acting ß2-agonist (SABA) use: a post hoc analysis of the EMAX trial**
Edward M. Kerwin (Medford, United States of America), Isabelle H. Boucot, Leif Bjermer, François Maltais, Paul W. Jones, Lee Tombs, David A. Lipson, Chris Compton, Claus F. Vogelmeier

983 **Efficacy and safety of adding erdosteine in acute exacerbations of COPD (AECOPD): a comparative analysis with the standard treatment**
Maurizio Moretti (Modena (MO), Italy), Edoardo Pozzi

984 **Exacerbation benefit by blood eosinophil counts with budesonide/glycopyrronium/formoterol metered dose inhaler (BGF MDI) at two ICS dose levels in the ETHOS trial: a subgroup analysis**
Klaus F. Rabe (Kiel, Germany), Fernando J. Martinez, Gary T. Ferguson, Chen Wang, Dave Singh, Jadwiga A. Wedzicha, Roopa Trivedi, Earl St Rose, Shaila Ballal, Julie Mclaren, Patrick Darken, Magnus Aurivillius, Colin Reisner, Paul Dorinsky

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

986 **TREATMENT-RELATED DETERMINANTS OF THE RESPIRATORY MICROBIOME IN COPD**
Eduard Monsó (La Garriga, Spain), Kristopher Opron, Oriol Sibila, Rosa Faner, Toni Gabaldon, Lidia Perea, Sara Quero, Alicia Marin, Marisol Dominguez Alvarez, Marian Garcia Núñez, Yvonne J Huang

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

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

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

Pre-congress content Session 85 00:00 - 23:59

E-poster session: Clinical data and COPD management

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

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

Chairs : Sara Cuevas Ocaña (Nottingham, United Kingdom), Chair to be confirmed

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

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

992 **Exploring respiratory rate as a novel health marker in COPD**
Grace France (Leicester, United Kingdom), Neil J Greening, Dale Eslinger, Michael C Steiner, Sally J Singh, Mark W Orme

993 **Prediction of exacerbation in one-year follow-up of patients with chronic obstructive pulmonary disease**
Kristina Tot Vereš (Zrenjanin, Republic of Serbia), Miroslav Ilić, Biljana Zvezdin, Nevena Savić, Ana Milenković Jakić

994	**Features of differences in clinical anamnestic, functional indicators, and alpha-1-antitripsin, in teenagers with chronic bronchitis, in the gender-age aspect** Natalya Alexandrovna Mokina (Samara (Samara Oblast), Russian Federation), Vasiliy Feodorovich Pyatin, Egor Dmitrievich Mokin
995	**Different clinical suspect that brings to the diagnosis of alpha1-antitrypsin deficiency** Stefania Ottaviani (Pavia (PV), Italy), Bruno Balbi, Valentina Barzon, Alice Maria Balderacchi, Alessandra Corino, Davide Piloni, Francesca Mariani, Angelo Guido Corsico, Ilaria Ferrarotti
996	**Comparison between tools for measuring breathlessness: cross-sectional observation and predictive properties** Masaaki Kusunose (Obu, Aichi, Japan), Ryo Sanda, Ayumi Narita, Koichi Nishimura
997	**Opioid prescription for severe chronic breathlessness to hospitalised patients with COPD - a clinical audit** Xinye Chen (Melbourne, Australia), Natasha Smallwood
998	**Using pharmacy sales data to estimate treated COPD prevalence in Portugal** António T. Rodrigues (, Portugal), Mariana Romão, Rúben Pereira, Heudtlass Peter, Agostinho Marques, Luís Rocha, João Cardoso, José Alves
999	**Differences in health related quality of life among caregivers of COPD patients according to the level of perceived burden** Manuel Abraham Gómez Martínez (Mexico City, Mexico), Arely Martínez , Viridiana Peláez Hernández, Dulce Gonzales Islas, Arturo Orea Tejeda, Karen Santillán Reyes, Karla Rosales Castillo , Guadalupe Lizzbett Luna Rodríguez, Valeria Martínez Vázquez
1000	**Sex differences in chronic respiratory failure patients users of long-term oxygen therapy** Nouha Guediri (Tunis, Tunisia), Jihene Ben Amar, Haifa Zaibi, Besma Dhahri, Hichem Aouina
1001	**Association of Metabolic Syndrome with the severity of Chronic Obstructive Pulmonary Disease** Javeria Shaikh (Karachi, Pakistan), Nisar Ahmed Rao
1002	**PROMS and FEV1 as predictors of AECOPD** George Drivas (Athens, Greece), Georgios Hillas, Anastasia Papaporfyriou, Maria Kaponi, Katerina Dimakou
1003	**Does smoking affect nutritional status and renal function in patients with COPD?** Olha Boiko (Dnipro, Ukraine), Viktoriia Rodionova
1004	**Stratifying COPD patients by cluster analysis using clinical and behavioral variables** Cathelijne van Zelst (Rotterdam, Netherlands), Lucas Goossens, Maureen Rutten- Van Molken, Johannes In 'T Veen
1005	**Atherosclerosis of the bracheocephalic arteries in healthy smokers and patients with COPD** Vera Nevzorova (Vladivostok (Primorsky Krai), Russian Federation), Elena Kondrashova, Dmitriy Bogdanov, Tatyana Khairzamanova
1006	**Is anemia associated with readmission risk in severe acute exacerbation of COPD: Preliminary results from a naturalistic cohort** Saliha Selin Ozuygur (izmir, Turkey), Aylin Ozgen Alpaydın, Selin Ercan, Ceyda Sahan, Kemal Can Tertemiz
1007	**Comparison of prognostic significance of the quality of life questionnaires in patients with COPD combined with hypertension** Anastasiia Melenevych (Kharkiv, Ukraine)
1008	**Lung function differences between men and women with COPD** Raquel Barros (Lisboa, Portugal), Carolina Santos, Tiago Pereira, Ana Sofia Oliveira, Cristina Bárbara
1009	**Prevalence,determinants and impact of nocturnal hypoxemia in COPD patients not candidates for domiciliary oxygen therapy** trina sarkar (mumbai, India), Lancelot Pinto, Ashok Mahashur

Pre-congress content Session 86 00:00 - 23:59

E-poster session: Prognosis and integrated management of COPD

Disease(s) : Sleep and breathing disorders | Airway diseases | Respiratory critical care | Pulmonary vascular diseases

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

Chairs : Wassim Labaki (Ann Arbor, United States of America), Marija Vukoja (Sremska Kamenica, Republic of Serbia)

1010	**Do doctors really use COPD Guidelines? A short adherence to guidelines survey** Radu Adrian Crisan-Dabija (Iasi (Iasi), Romania), Raluca Arcana, Cristina-Elena Mitrofan, Oana Rohozneanu, Andrei Cernomaz
1011	**Floppy eyelid syndrome in Obstructive Sleep Apnea: Diagnosis and Post- CPAP changes** Maria João Silva (Torres Novas, Portugal), Maria João Vieira, Cláudia Santos, Nádia Lopes, Fausto Carvalheira, João Paulo Sousa, Salvato Feijó
1012	**Identifying patient suitability for lung volume reduction – estimation of gas trapping from spirometry.** Amany Fathy Elbehairy (Alexandria, Egypt), Jennifer Quint, Simon Jordan, Michael I. Polkey, Nicholas S. Hopkinson
1013	**Clinical problems of comorbidity from a position of COPD and carbohydrate metabolism disorders** Vyacheslav Kobylyansky (Moscow, Russian Federation), L. Morgunov, O. Povarova
1014	**Chronic obstructive pulmonary disease (COPD) and myocardial ischemia (MI) comorbidity** Valentin Calancea (Chisinau, Codru, Republic of Moldova), Constantin Martiniuc, Ion Sirbu, Svetlana Nichita, Ecaterina Luca, Irina Cosciug, Nelea Ghicavii, Nicolae Bodrug, Sergiu Matcovschi
1015	**Sleep quality assessment in chronic obstructive pulmonary disease** SONYA JRAD (tunis, Tunisia), Imen Bachouch, Nidhal Belloumi, Racha Smaoui, Mariem Hamdi, Donia Belkhir, Fatma Chermiti, Soraya Fenniche
1016	**Impact of steroid therapy on exacerbation of chronic obstructive pulmonary disease with community-onset pneumonia: a multicenter retrospective cohort study** Hiroshi Shiba (Kamogawa City, Japan), Akihiro Shiroshita, Yu Tanaka, Akihiro Nishi, Chigusa Shirakawa, Kei Nakashima, Yuki Kataoka
1017	**“CHAOS THEORY” IN HEART RATE VARIABILITY TO A FUNCTIONAL TEST IN PATIENTS WITH COPD** Cássia Goulart (São Carlos, Brazil), Camila Brinques, Sabrina Souza, Kamila Mansour, Guilherme Back, Douglas Martins, Audrey Borghi-Silva, Renata Trimer, Andréa Da Silva
1018	**Defining the role of neutrophil-to-lymphocyte ratio in COPD patients** Biljana Lazovic (Beograd, Republic of Serbia), Sanja Sarac, Rade Milic, Vladimir Zugic
1019	**Ascending pain pathway function in COPD patients versus healthy controls.** Maria Granados Santiago (Alcaudete, Spain), Janet Rodríguez Torres, Esther Prados Román, Laura López López , María Montes Ruiz-Cabello, Marie Carmen Valenza
1020	**Prevalence and clinical predictors of inhaler discordance in COPD: an observational study** Hadeer S. Harb (Beni-Suef, Egypt), Nabila Ibrahim Laz, Hoda Rabea, Mohamed E.A. Abdelrahim
1021	**Very limited impact of chest CT-scan on the management of chronic cough.** Laurent Guilleminault (Toulouse Cedex, France), Mathilde Descazeaux, Danièle Brouquières, Alain Didier, Marianne Lescouzères, Roger Escamilla
1022	**Hospital Stay and Economic Burden in Patients with Chronic Obstructive Pulmonary Disease between 2015 and 2019** Fen Dong (Beijing, China), Xiaoxia Ren, Ke Huang, Yanyan Wang, Jianjun Jiao, Ting Yang
1023	**COPD and respiratory viral infections as risk factors for the development of cardiovascular events** Maria De Los Angeles Zambrano Chacon (MADRID, Spain), Laura Esteban-Lucía, Ainhoa Izquierdo Pérez, Luis Nieto Roca, Ana María Venegas Rosríguez, Camila Sofía García-Talavera, Ana María Pello Lázaro, Álvaro Aceña Navarro, Felipe Villar Álvarez
1024	**Role of aerosolized therapy in the incidence of cardiac rythm disturbances in patients hospitalized with a COPD exacerbation** Francesca Frassanito (, Italy), Dejan Radovanovic, Luca Perotto, Silvia Vanni, Davide Raiteri, Maurizio Rizzi, Pierachille Santus
1025	**Role of diaphragm dysfunction and nutritional status on dyspnea pathogenesis in patients with COPD.** Massimo Comune (Torino (TO), Italy), Francesca de Blasio, Alessandro Oliva, Ludwig Garello, Caterina Bucca, Roberto Prota
1026	**PSYCHOLOGICAL FACTORS PREDICTIVE OF QUALITY OF LIFE IN PATIENTS WITH CHRONIC OBSTRUCTIVE PULMONARY DISEASE** Karen Aide Santillan Reyes (CDMX, Mexico), Karen Aide Santillan Reyes , Viridiana Peláez Hernández, Laura Arely Martínez Bautista, Karla Leticia Rosales Castillo, Lizzbett Luna Rodríguez, Arturo Orea Tejeda, Casandra Pineda Sánchez, Martha Elena Quintero Martínez , Nathalie Martínez Luna

1027 **Relationship between health-related quality of life and cognitive function in patientswith cardiorespiratory failure**
Manuel Abraham Gómez Martínez (Mexico City, Mexico), Arely Martínez , Viridiana Peláez Hernández, Karen Santillán Reyes, Arturo Orea Tejeda, Karla Rosales Castillo, Guadalupe Lizzbett Luna Rodríguez , Rocío Sánchez Santillán, Valeria Martínez Vázquez, Óscar Martínez Reyna

1028 **Evaluation of pain pressure threshold in patients with moderate to severe symptomatic COPD and healthy controls**
Maria Granados Santiago (Alcaudete, Spain), Janet Rodríguez Torres, Esther Prados Román, Laura López López, María Montes Ruiz-Cabello, Marie Carmen Valenza

Pre-congress content Session 87 00:00 - 23:59

E-poster session: Evaluation of knowledge transfer into clinical practice

Disease(s) : Airway diseases | Pulmonary vascular diseases | Sleep and breathing disorders | Thoracic oncology

Method(s) : General respiratory patient care | Public health | Endoscopy and interventional pulmonology

1029 **Evaluating the use of the Australian and New Zealand COPD guidelines (The COPD-X Plan) in clinical practice: a user survey**
Ian A. Yang (Brisbane (QLD), Australia), Juliet Brown, Eli Dabscheck, Johnson George, Kelcie Herrmann, Susan C. Jenkins, Christine F. Mcdonald, Vanessa M. Mcdonald, Brian J. Smith, Nicholas Zwar, Ian A. Yang

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

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

1032 **Confidence of thrombolysis and follow up of acute pulmonary embolus in the UK. A survey of UK respiratory trainees.**
Michael Bridgett (Hassocks, United Kingdom), Brendan Madden

1033 **Obstructive sleep apnea knowledge and attitude among pulmonology training fellows in the Philippines**
Krislyn Panugayan (Manila, Philippines), Rodolfo. Dizon, Jr.

1034 **Knowledge and attitude about Obstructive Sleep Apnea among Resident doctors in South-East Nigeria**
Ijeoma Nkem Nina Okedo (Abakaliki, Nigeria), Chihurumnanya Alo

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

E-poster session: Monitoring of patients with COPD

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

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

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

1035 **Relationship between emphysema extent and pulmonary function test in chronic obstructive pulmonary disease**
Mariana Barreira Calheiros Barbosa Cabral (Porto, Portugal), José Veiga, Dionísio Maia, Inês Gonçalves, Alexandra Mineiro, Salvador Coelho, Paula Cravo, Luisa Figueiredo, Joao Cardoso

1036 **Chronic obstructive pulmonary disease with preserved lung function, severe hypoxemia and emphysema**
Vivien Danielo (Strasbourg, France), Benjamin Coiffard, Marianne Riou, Benjamin Renaud Picard, Matthieu Canuet, Romain Kessler

1037 **Variation of maximal respiratory static pressures in different COPD severity group**
Ferdaous Yangui (La Marsa, Tunisia), Khouloud Chaabi, Hela Cherif, Soumaya Debbiche, Mariem Triki, Ihsen Ktif, Mohamed Ridha Charfi

1038 **ASSOCIATION BETWEEN NEUTROPHIL AND PLATELET TO LYMPHOCYTE RATIO AND DISEASE SEVERITY IN STABLE COPD**
Fabio Perrotta (San Nicola La Strada (CE), Italy), Vito D'Agnano, Mariano Mollica , Adriano Costigliola, Francesco Saverio Cerqua, Andrea Bianco, Bruno Moncharmont

1039 **Spirometry and cardiopulmonary exercise test in lung resection surgery**
Nozha Ben Salah (Tunis, Tunisia), Hana Mrassi, Hana Blibech, Houda Snen, Line Kaabi, Donia Belkhir, Asma Zaafouri, Nadia Mehiri , Bechir Louzir

1040 **The change of the activity of the blood-salivary barrier (BSB) in patients with COPD**
Svetlana K. Soodaeva (Moscow, Russian Federation), N.I. Kubysheva , I.A. Klimanov, L.Yu. Nikitina, N.A. Popova, T.V. Li , V.I. Novoselov

1041	**Can reversibility determine clinical course in patients with COPD?** Kostiantyn Dmytriiev (Vinnitsya, Ukraine), Yuriy Mostovoy, Nataliia Slepchenko, Nataliia Tsymbaliuk, Andrii Sidorov, Dmytro Dmytriiev, Mariia Shostatska
1042	**Study over chronic obstructive pulmonary disease patients with hypercapnic respiratory failure** Gabriela Jimborean (Targu Mures (Mures), Romania), Edith Simona Ianosi, Lehel Mathe, Mioara Szatmary
1043	**“Smoking” vs “non-smoking” COPD: how dramatic is the difference?** Kostiantyn Dmytriiev (Vinnitsya, Ukraine), Yuriy Mostovoy, Nataliia Slepchenko, Nataliia Tsymbaliuk, Andrii Sidorov, Dmytro Dmytriiev, Mariia Shostatska
1044	**Telemonitoring in outpatients with COPD: a retrospective analysis of the effect on exacerbation rate, hospital admission and overall healthcare consumption using myCOPDcoach** Marlise de Roos (Amsterdam, Netherlands), Nynke Dijkstra, Paul Bresser, Herre Reesink
1045	**Evaluation of neutrophil lymphocyte ratio and C-reactive protein values in the treatment of acute chronic obstructive pulmonary disease exacerbation according to endotype** Emine Aksoy (Istanbul, Turkey), Sercan Dadaş, Barış Yılmaz, Hasibe Erten, Merve Hörmet, Güzide Tomas, Eylem Tuncay, Sinem Güngör, Özlem Moçin, Nalan Adıgüzel , Gökay Güngör, Zuhal Karakurt
1046	**COPD mortality after severe exacerbations** Irene Bocigas Huescar (Valencia, Spain), Lucía Fernández Presa, Carolina Lahosa, Cruz Gonzalez, Juan Antonio Carbonell, Jaime Signes-Costa
1047	**Comparison of FEV1 and BODE INDEX in the assessment of health-related quality of life in patients with COPD** Nesrin Kallel (Sfax, Tunisia), Hajeur Ayedi, Wajdi Ketata, Khouloud Abdelmouleh, Samy Kamoun
1048	**Which one is superior in predicting 30 and 90 days mortality after COPD exacerbation: DECAF, CURB-65, PSI, DOSE, BAP-65** Gülistan Karadeniz (Izmir, Turkey), Mine Gayaf, Filiz Güldaval, Gülru Polat, Merve Türk
1049	**Relationship between peak inspiratory flow and handgrip strength measurement in men with mild COPD** Yuko Komase (Yokohama, Japan), Takahiro Tsuburai, Satoshi Tanaka, Baku Ohyama, Hiromi Muraoka, Naoya Hida, Takayuki Kobayashi, Masaya Matsushima
1050	**Study of heart rate variability in patients with chronic obstructive pulmonary disease** Umida Kamilova (Tashkent, Uzbekistan), Sobir Toshev, dilnoza tagaeva
1051	**Evaluation Of Vitamin B12 and D, Folic Acid and Homocystein Levels In Stable COPD Patients** Muzaffer Onur Turan (Izmir, Turkey), Nurhan Sarıoğlu, Pakize Ayse Turan, Özer Özdemir, Nevin Fazlıoğlu, Mehmet Köseoğlu, Hayat Ozkanay, Özgür Güney, Arzu Mirici
1052	**Answering questions and challenges in the management of health smoking and COPD patients** Loli Uribe Echevarria (Córdoba, Argentina), Samanta Vergara, Ruth Alvarez, Ayelen Nigra, Amado Qintar, Maldonado Cristina
1053	**Evaluation of 30 and 90 Day Hospital Readmission Rates in Severe COPD Exacerbations: Turkish Thoracic Society COPD Assembly** Nurdan Köktürk (Ankara, Turkey), Mehmet Polatli, Ayşe Baha, Dilek Yapar, Secil Ozkan, Elif Sen, Fatma Ciftci, Burcu Ozturk, Sumeyye Kodalak, Gaye Ulubay, Irem Serifoglu, Yelda Varol, Aydan Mertoglu, Ali Kadri Cirak, Onur Turan, Nese Dursunoglu, Nilufer Savurmus, Alev Gurgun, Funda Elmas, Lutfi Coplu, Umran Sertcelik, Reyhan Yildiz, Ipek Ozmen, Aylin Alpaydin, Ebru Karacay Yesiloglu, Deniz Celik
1054	**Description of the COPD patients free of suffering severe exacerbations. Ten-year follow up of a cohort** Cristobal Esteban Gonzalez (Bilbao (Bizkaia), Spain), Amaia Aramburu, Ane Antón-Ladislao, Leyre Chasco, Francisco Javier Moraza, Susana Aizpiri, María Gorordo, Inmaculada Arostegui

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

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

Disease(s) : Airway diseases Respiratory critical care

Method(s) : Cell and molecular biology Physiology

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

1055	**Late Breaking Abstract - The innate immune collectin surfactant protein SP-D binds to SARS-CoV-2 spike-protein** Raquel Arroyo (Cincinnati, United States of America), Shawn N Grant, Paul S Kingma

1056	**LSC - 2020 - Streptococcus pneumoniae induces broad alterations in mitochondrial functions in human airwa y epithelial cells** Mahyar Aghapour (Magdeburg, Germany)
1057	**COPD bronchial brush microbiome association with lung function and bronchial gene expression** Mohammadali Yavari Ramsheh (Leicester (Leicestershire), United Kingdom), Koirobi Haldar, Michael Barer, Loem Ziegler-Heitbrock , Ivo Gut, Dave Singh, Christopher Brightling
1058	**Analysis of defective phagocytosis in COPD using super-resolution microscopy and automated bacterial quantification** Riccardo Wysoczanski (Cambridge, United Kingdom), Jonathan R Baker, Peter Fenwick, Edwin Garcia, Sunil Kumar, Mark A A Neil, Christopher Dunsby, Paul M W French, Peter J Barnes, Louise E Donnelly
1059	**Immunosuppression by cyclosporine A facilitates higher parainfluenza 3 virus replication in lower respiratory tract tissue ex vivo** Olga Danov (Hannover, Germany), Leonie Hose, Patrick Zardo, Peter Braubach, Danny Jonigk, Hans-Gerd Fieguth, Gregor Warnecke, Sabine Wronski, Armin Braun, Katherina Sewald
1060	**Mesenchymal Stromal Cells Modulate the Systemic and Pulmonary Immune Cell Profile in Klebsiella Pneumoniae Induced Sepsis** Jack Brady (Galway, Ireland), Shahd Horie, Claire Masterson, Declan Byrnes, Hector Gonzalez, Daniel O'Toole, John Laffey
1061	**Tiotropium and fluticasone inhibit rhinovirus-induced mucin production via multiple mechanisms in differentiated airway epithelial cells** Ying Wang (Leiden, Netherlands), Ying Wang, Dennis K. Ninaber, Annemarie Van Schadewijk, Pieter S. Hiemstra
1062	**Relationship of the secretory immunoglobulin A (sIgA) and cortisol in pregnant women with chronic simple bronchitis associated with cytomegalovirus infection (CMVI)** Igor N. Gorikov (Blagoveshchensk (Amur Oblast), Russian Federation), Irina A. Andrievskaya, Victor P. Kolosov, Leonid G. Nakhamchen, Natalia A. Ishutina, Inna V. Dovzhikova
1063	**Human rhinovirus 16 infection of human macrophages disrupts Arpin expression impairing macrophage internalization: a potential link to exacerbation in chronic obstructive pulmonary disease?** Jamil Jubrail (Edinburgh, United Kingdom), Kshanti Africano Gomez, Floriane Herit, Anna Mularski, Pierre Bourdoncle, Lisa Oberg, Elisabeth Israelsson, Pierre Regis-Burgel, Gaell Mayer, Danen Cunoosamy, Nisha Kurian, Florence Niedergang
1064	**Assessment of innate immunity mediators in the lung of COPD patients: relation with disease manifestations** Simonetta Baraldo (Padova (PD), Italy), Paolo Casolari, Matteo Bonato, Nicol Bernardinello, Luca Morandi, Marina Saetta, Alberto Papi, Marco Contoli
1065	**Macrophages in lung and innervating ganglia express TLR7 and release nitric oxide** Becky Proskocil (Portland, United States of America), Allison Fryer, David Jacoby, Matthew Drake
1066	**Using mouse tracheal epithelial cells (mTECs) to uncover an antiviral role for BPIFB1.** Abdulaziz Alkhoshaiban (Sheffield, United Kingdom), Priyanka Anujan, Lynne Bingle, Colin Bingle
1067	**Analysis of adaptive CD8+ T cell responses to Influenza A Virus in COPD patients** Sophia Haines (Munich, Germany), Ilona Kammerl, Thomas Meul, Andreas Moosmann, Thomas Hofer , Elfriede Nössner, Marion Frankenberger, Jürgen Behr, Katrin Milger-Kneidinger, Silke Meiners
1068	**Interferon responses are dysfunctional in the epithelium of COPD Patients** Rassin Lababidi (Oxford, United Kingdom), Jennifer Cane, Mona Bafadhel
1069	**Acute exacerbations of COPD induce a prothrombotic state through platelet-monocyte complexes, endothelial activation and increased thrombin generation** Lisa van der Vorm, Li Li, Dana Huskens, Janine Hulstein, Mark Roest, Philip De Groot, Hugo Ten Cate, Bas De Laat, Jasper Remijn, Sami Simons
1070	**Sputum macrophages in chronic bronchitis are activated, steroid resistant and drive epithelial MUC5B** Melker Göransson (Mölndal, Sweden), Kristina Andelid, Anders Andersson, Karolina Öst, Zala Rojnik, Lowie Vanfleteren, Stephen Delaney
1071	**A high probability of short-range interactions between fibrocytes and CD8+ T cells potentiates the inflammatory response in chronic obstructive pulmonary disease (COPD) lungs** Isabelle Dupin (Bordeaux, France), Edmée Eyraud, Elise Maurat, Pierre Vallois, Cécile Contin-Bordes, Pierre-Olivier Girodet, Matthieu Thumerel, Patrick Berger
1072	**Improving automated cell recognition of sputum and BAL cells for Chipcytometry analysis** Saskia Carstensen (Hannover, Germany), Olaf Holz, Jens M. Hohlfeld, Bodo Rosenhahn, Meike Mueller

Pre-congress content Session 90 00:00 - 23:59

E-poster session: Genetics and biomarkers for diagnosis and prognosis of granulomatous lung diseases

Disease(s) : Interstitial lung diseases Airway diseases

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

Chairs : Jacobo Sellares Torres (Barcelona, Spain), Antje Prasse (Hannover, Germany)

1073	**Whole exome sequencing (WES) of a Chinese Han family with familial pulmonary sarcoidosis** QIAN ZHANG (BEIJING, China), QIAN ZHANG, Hui Huang, Zuojun Xu
1074	**Whole Exome Sequencing study in a subgroup of sarcoidosis patients presenting an opportunistic infection with Cryptococcus neoformans.** Alain Calender (Lyon, France), Thomas El Jammal, Florence Jeny, Pascal Seve, Hilario Nunes, Dominique Valeyre, Yves Pacheco
1075	**Homozygous mutations of ARFGAP1 gene in severe sarcoidosis** Thomas EL JAMMAL (Strasbourg, France), Alain Calender, Pascal Sève, Yves Pachéco
1076	**Association of HLA variants with sarcoidosis in Korean population: pilot study** Martin Petřek (Olomouc, Czech Republic), Kateřina Sikorová, Miae Kim, Veronika Žižková, Su-Jin Moon, Jin Woo Song
1077	**Increased monocyte count and red cell distribution width represent negative prognostic markers in patients with Hypersensitivity Pneumonitis** Theodoros Karampitsakos (Athens, Greece), Evangelos Bouros, Ourania Papaioannou, Stamatios Tsipilis, Chrysoula Antonou, Maria Ntassiou, Serafeim Chrysikos, Aris Anagnostopoulos, Kuriaki Cholidou, Evangelia Koukaki, Matthaios Katsaras, Vassilios Tzilas, Katerina Dimakou, Demosthenes Bouros, Argyrios Tzouvelekis
1078	**Increased fraction of small round lymphocyte in BALF is a diagnostic indicator for sarcoidosis** Yasushi Horimasu (Hiroshima, Japan), Kakuhiro Yamaguchi, Shinjiro Sakamoto, Takeshi Masuda, Shintaro Miyamoto, Taku Nakashima, Hiroshi Iwamoto, Shinichiro Ohshimo, Kazunori Fujitaka, Hironobu Hamada, Noboru Hattori
1079	**The role of TREM-1 and TREM-2 receptors in immunopathogenesis of pulmonary sarcoidosis and hypersensitivity pneumonitis** Eva Tedlova (Bratislava, Slovakia), Magda Suchankova, Jan Urban, Martina Ganovska, Elena Tibenska, Kinga Szaboova, Ivan Majer, Marian Bobovcak, Imrich Jonner, Maria Bucova
1080	**The clinical significance of plasma and urine lysophospholipids-producing enzymes in patients with sarcoidosis** Koji Murakami (Sendai, Japan), Tsutomu Tamada, Daisuke Saigusa, Masayuki Nara, Eisaku Miyauchi, Hidemi Aritake, Shunichi Gamo, Hisatoshi Sugiura, Yutaka Yatomi, Masakazu Ichinose
1081	**Comparison among BAL biomarkers in ILD discrimination and course prediction** Gregorino Paone (Roma (RM), Italy), Giulia De Rose, Daniela Pellegrino, Gabriele Lucantoni, Ilaria Cuccaro, Ilaria Menichini, Giorgia Leodori, Chiara Pellicano, Alfredo Sebastiani, Edoardo Rosato, Paolo Palange
1082	**MicroRNAs in serum of Interstitial lung diseases patients.** Vladimir Yeremeev (Moscow, Russian Federation), Galina Shepelkova, Vladimir Evstifeev, Anna Zaytseva, Evgenia Adamovskaya, Alexander Guskov, Igor Stepanyan, Evgeniy Shmelev
1083	**Differential expression of miRNAs in Exhaled Breath Condensate (EBC) and EBUS-TBNA of patients with Mediastinal Tuberculosis and Pulmonary Sarcoidosis** Bijay Pattnaik (New Delhi, India), Sryma Pb, Saurabh Mittal, Anant Mohan, Anurag Agrawal, Randeep Guleria, Karan Madan
1084	**Morphological features in different course of sarcoidosis, forecast opportunity.** Olga Denisova (Tomsk, Russian Federation), Inna Palchikova, Galina Chernjavskaya, Igor Purlik, Tatyana Kalacheva, Georgy Chernogoryuk, Nikolaj Shefer
1085	**Flow cytometric analysis of T cells maturation markers in mediastinal lymph nodes in sarcoidosis.** Elżbieta Rutkowska (Józefosław, Poland), Iwona Kwiecień, Joanna Bednarek, Rafał Sokołowski, Karina Jahnz-Różyk, Piotr Rzepecki
1086	**Analysis of CD4 lymphocyte profiles in sarcoidosis and idiopathic pulmonary fibrosis** Dingyuan Jiang (Beijing, China), Hui Zhang, Huaping Dai, Guowu Zhou, Yanhong Ren, Jing Geng, Bingbing Xie
1087	**Activity and phenotypes of angiotensin-converting enzyme (ACE) in sarcoidosis with various organ involvement** Laine Francuzevica (Moscow, Russian Federation), Alexander Bobkov, Larisa Akulkina, Michael Brovko, Victoria Sholomova, Denis Konovalov, Alisa Yanakaewa, Larisa Samokhodskaya, Tatyana Krasnova

1088 **Markers of resistance to corticosteroids therapy in patients with pulmonary sarcoidosis**
Kostiantyn Shvets (Ivano-Frankivsk, Ukraine), Mykola Ostrovskyy, Iryna Savelikhina, Oleksandr Varunkiv, Galyna Korzh, Kseniia Ostrovska

1089 **The value of urinary calcium as biomarker in chronic sarcoidosis**
Paolo Cameli (Siena (SI), Italy), Stefano Gonnelli, Elena Bargagli, Miriana D'Alessandro, Laura Bergantini, Dea Tomai Pitinca, Rosa Metella Refini, Maria Pieroni, Piersante Sestini, Carla Caffarelli

1090 **An association between sarcoidosis and serum immunoglobulin levels**
Michael Brovko (Moscow, Russian Federation), Victoria Sholomova, Larisa Akulkina, Denis Konovalov, Eugene Stambolsky, Laine Francuzeviča, Marina Lebedeva, Leonid Strigakov, Larisa Samohodskaya, Tatyana Krasnova, Sergey Moiseev

1091 **Serum markers of acute sarcoidosis.**
Evgeniya Adamovskaya (Moscow, Russian Federation), Vladimir Evstifeev, Evgenia Adamovskaya, Galina Shepelkova, Anna Zaytseva, Evgeniy Shmelev, Vladimir Yeremeev

1092 **The importance of cortisol level in differential diagnostic between lung tuberculosis and sarcoidosis**
Mariya Banyonis (Smolensk, Russian Federation), Mariya Listopadova, Marina Karuk

Pre-congress content Session 91 00:00 - 23:59

E-poster session: Asthma management: role of biomarkers and comorbidities

Disease(s) : Airway diseases

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

Chairs : Daniel Doberer (Wien, Austria), Chair to be confirmed

1093 **Evaluation of IL-17 and FEF25-75 in patients with uncontrolled moderate asthma**
Elena Jovanovska Janeva (Skopje, North Macedonia), Dejan Dokic, Gorica Breskovska, Biserka Kaeva, Zlatica Goseva, Zoran Arsovski, Dejan Trajkov, Olgica Sibinovska, Magdalena Genadieva Dimitrova

1094 **Exploring the association between Socioeconomic status and asthma exacerbations: a real-world prospective cohort study in Chinese adults**
Gang Wang (Chengdu (Sichuan), China), Xin Zhang, Li Zhang, Erik Melén, Lei Wang

1095 **Associations between inflammatory endotypes and phenotypes of obesity at young patients with bronchial asthma**
Irina Soloveva (Krasnoyarsk (Krasnoyarsk), Russian Federation), Irina Demko, Elena Sobko, Angelina Kraposhina, Nataliya Gordeeva, Marina Mamaeva, Dmitriy Anikin

1096 **Effect of mepolizumab on chronic rhinosinusitis symptoms and nasal hypersensitivity in patients with or without nasal polyps**
Nikoletta Rovina (Athens, Greece), Mairi Tsami, Marios Panagiotou, Ekaterini Syrigou, Nikolaos Koulouris

1097 **Predictive factors of uncontrolled allergic asthma in developing countries**
Imen Bachouch (Ariana, Tunisia), Smaoui Hbaieb Racha, Jarraya D, Mousli Amina, Belloumi Nidhal, Chermiti Fatma, Fenniche Soraya

1098 **Allergy Testing in Asthmatics and Severe Asthmatics in Belgium : Role of Comorbidities**
Sandra Gurdain (Kraainem, Belgium), Jan Vanschoor, Stefaan Vancayzeele, Bram Flahou

1099 **Asthma control status and lung function in relation to vitamin D level in children with bronchial asthma.**
Lali Bugadze (Sachkhere, Georgia)

Pre-congress content Session 92 00:00 - 23:59

E-poster session: Phenotypes of asthma and COPD

Disease(s) : Airway diseases

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

Chairs : Apostolos Bossios (Stockholm, Sweden), Vibeke Backer (Copenhagen, Denmark)

1100 **Frequencies of Regulatory CD8TIGIT T Cells Reflect Disease Status in COPD**
Jia Hou (Yinchuan, China), Hui Li, Zhigang Tian, Xiwei Zheng

1101 **Serum G-CSF is a non-invasive biomarker classifying bacterial/neutrophilic COPD exacerbations**
Arindam Chakrabarti (San Ramon, United States of America), David Choy, Xiaoying Yang, Yi Cao, Wei Tew, Jordan Mar , Nisha Rathore , Olga Li , Michele Grimbaldeston , Christopher Brightling, Mona Bafadhel, Carrie Rosenberger

1102	**Characterisation of patients hospitalised for asthma exacerbations in Hong Kong** Ka Pang Chan (Hong Kong, Hong Kong), Fanny Wai San Ko, Kwun Cheung Ling, Lee Veronica Chan, Yue Hong Chan, Yi Tat Lo, Chun Kong Ng, Mei Sze Macy Lui, Kwok Sang Wilson Yee, Cee Zhung Steven Tseng, Pak Yiu Tse, Mo Lin Maureen Wong, Kah Lin Choo, Wai Kei Lam, Chun Man Wong, Sheng Sheng Alice Ho, Chun Tat Lun, Christopher Kei Wai Lai
1103	**Associations between eosinophil mediators and asthma characteristics in adults: the EGEA study** vanessa Granger (Paris, France), Farid Zerimech, Jinan Arab, Valérie Siroux, Patricia De-Nadai, Anne Tsicopoulos, Regis Matran, Zeina Akiki, Rachel Nadif
1104	**Obese asthmatics with impaired FRC show increased eosinophilic inflammation** Anna James (Stockholm, Sweden), Lars Andersson, Sven-Erik Dahlén , Apostolos Bossios, . On Behalf Of Bioair Study Group
1105	**The German Severe Asthma Registry: Obesity is associated with asthma parameters** Christina Bal (Wien, Austria), Sabina Skrgat, Andrea Koch, Katrin Milger, Christian Schulz, Eckard Hamelmann, Roland Buhl, Stephanie Korn, Marco Idzko
1106	**Neutrophilic asthma: a distinct phenotype?** Tessa Kole (Groningen, Netherlands), N.J. Ten Hacken, W. Timens, H.A.M. Kerstjens, M.C. Nawijn, M. Van Den Berge
1107	**Sputum IL-26 Is Overexpressed in Severe Asthma and Induces Proinflammatory Cytokine Production and Th17 Cell Generation: A Case–Control Study of Women** Besma Hamdi (Tunis, Tunisia), Sabrine Louhaichy, Mouna Mlika, Ikbel Khalfallah, Jammel Ammar, Kamel Hamzaoui, Agnes Hamzaoui
1108	**Cytokine plasma levels in moderate-to-severe asthmatic children with different asthma control** Svetlana Smirnova (Krasnoyarsk, Russian Federation), Nina Gorbacheva, Vasiliy Belenyuk , Svetlana Zobova, Marina Smolnikova
1109	**Neutrophilic asthma features increased airway classical monocytes** Michael Fricker (New Lambton Heights (NSW), Australia), Natalie Niessen, Katherine Baines, Jodie Simpson, Hayley Scott, Peter Gibson
1110	**Sputum mast cells associate with clinical and inflammatory features of asthma** Michael Fricker (New Lambton Heights (NSW), Australia), Ling Qin, Natalie Niessen, Katherine Baines, Hayley Scott, Jodie Simpson, Peter Gibson
1111	**Mechanisms of FeNO Non-Suppression in Severe Asthma: Analysis of Sputum Type 2 Cytokines and Chemokines** Simon Couillard (Oxford, United Kingdom), Rahul Shrimanker, Gareth Hynes, Catherine Borg, Clare Connolly, Anna Hayman, Sarah Poole, Angela Moran, Timothy Powell, Ian Pavord, Timothy Hinks
1112	**Assessing permeability biomarkers of dual responders in allergic asthmatics** Nicole van der Burg (Lund, Sweden), Henning Stenberg, Zuzana Diamant, Leif Bjermer, Ellen Tufvesson
1113	**Chronic Cough is associated with higher levels of Systemic Immune Inflammation Index** Johnmary T. Arinze (Rotterdam, Netherlands), Leila Karimi, Emmely W. De Roos, Jesse Fest, Katia M. C. Verhamme, Bruno H. Stricker, Guy G. Brusselle
1114	**Chronic oral corticosteroids use and persistent eosinophilia in severe asthma. The Belgian Severe Asthma Registry.** Sophie Graff (Liège, Belgium), Sybren Vanwynsberghe, Guy Brusselle, Shane Hanon, Carine Sohy, Lieven Dupont, Rudi Peche, Alain Michils, Charles Pilette, Guy Joos, Renaud Louis, Florence Schleich
1115	**An improved assay for detection of sputum periostin in patients with asthma** Anna James (Stockholm, Sweden), Junya Ono, Kenji Izuhara, Sven-Erik Dahlén, . On Behalf Of Bioair Study Group
1116	**Is CCL18 a potential biomarker of type-2 asthma?** Helen Fouquet (Prey, France), Jonathan Giovannelli, Patricia De Nadaï, Joanne Balsamelli, Patrick Berger, Arnaud Bourdin, Pascal Chanez, Stéphanie Fry, Thierry Perez, Antoine Magnan, Marina Pretolani, Camille Taillé, Anne Tsicopoulos, Cécile Chenivesse
1117	**Dupilumab reduces blood and nasal biomarkers of type 2 inflammation in patients with chronic rhinosinusitis with nasal polyps with and without comorbid asthma: SINUS-52 trial** Claus Bachert (Ghent, Belgium), Joaquim Mullol, Nadia Daizadeh, Kelley Wolfe, Benjamin Ortiz, Robert Johnson, Yamo Deniz, Paul Rowe, Leda Mannent, Nikhil Amin, Sivan Harel, Alexandre Jagerschmidt

Pre-congress content — Session 93 — 00:00 - 23:59

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

Disease(s) : Pulmonary vascular diseases Airway diseases

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

Chairs : Ian P. Hall (Nottingham (Nottinghamshire), United Kingdom), Catherine John (Leicester, United Kingdom)

1118	**Associations between allergen-specific IgE sensitization and HLA class II alleles in the EGEA cohort** Valerie Siroux (La Tronche, France), Hubert Gheerbrant, Alicia Guillien, Christian Lupinek, Jean Bousquet, Florence Demenais, Fréderic Gormand, Rachel Nadif, Isabelle Pin, Christophe Pison, Rudolf Valenta, Emmanuelle Bouzigon
1119	**Rhinovirus & IL33 driven HBEC gene signatures are disease & IL1RL1 polymorphism dependent** Michael Portelli (Loughborough, United Kingdom), Marco Londei, Dominick Shaw, Simon Johnson, Christopher Brightling, Ian Sayers
1120	**Association of candidate genes with FeNO in asthma: preliminary results from the Gene Environment Interactions in Respiratory Diseases (GEIRD) study.** Simone Accordini (Verona (VR), Italy), Valentina Lando, Lucia Calciano, Cristina Bombieri, Giovanni Malerba, Giuseppe Verlato, Mario Olivieri
1121	**Genetic vulnerability to air pollution-related decrease in lung function in elderly women** Sara Kress (Düsseldorf, Germany), Qi Zhao, Anke Hüls, Holger Schwender, Klaus Unfried, Tamara Schikowski
1122	**Effect of systemic glucocorticoids on TRPM8 expression in asthma patients** Denis Naumov (Blagoveshchensk (Amur Oblast), Russian Federation), Dina Gassan, Olesya Kotova, Elizaveta Sheludko, Evgeniya Afanaseva, Juliy Perelman, Yana Gorchakova, Qi Li, Xiangdong Zhou
1123	**Influence of particles from atmospheric pollution in female hormonal receptors in bronchi cells.>** Juliana Smelan (São Paulo, Brazil), Juliane Almeida, Daniela Frias, Mitzi Brentani, Mariangela Macchione
1124	**Risk of cancer in individuals with severe alpha-1-antitrypsin deficiency (PiZZ) compared with the Swedish general population** Adriana-Maria Hiller (Staffanstorp, Sweden), Magnus Ekström, Eeva Piitulainen, Anne Lindberg, Eva Rönmark, Hanan Tanash
1125	**Oral commensals in the lower airways of COPD leads to an altered host immune tone** Imran Sulaiman (Dublin 8, Ireland), Benjamin Wu, Yonghua Li, Jun-Chieh Tsay, Adrienne Scott, Jose Clemente, Leopoldo Segal
1126	**Human exome analysis of candidate genetic variants for susceptibility to high-altitude pulmonary edema in Japanese** Nobumitsu Kobayashi (Matsumoto (Nagano), Japan), Yunden Droma, Masao Ota, Masayuki Hanaoka
1127	**Genetic polymorphisms of IL6, IL10, TNF-a and IL4R and associations with the risk of chronic obstructive pulmonary disease in a sample of Belarusian population.** Catherine Khotko (Minsk, Belarus), Aliaksei Kadushkin, Anatoli Tahanovich
1128	**Role of TRPM8 polymorphisms in predisposition to COPD development in smokers** Denis Naumov (Blagoveshchensk (Amur Oblast), Russian Federation), Olesya Kotova, Dina Gassan, Elizaveta Sheludko, Evgeniya Afanaseva, Tatyana Maltseva, Ivana Sugaylo
1129	**Effect of TRPA1 and TRPM8 polymorphisms on lung function in COPD** Denis Naumov (Blagoveshchensk (Amur Oblast), Russian Federation), Dina Gassan, Olesya Kotova, Evgeniya Afanaseva, Elizaveta Sheludko, Ivana Sugaylo, Juliy Perelman
1130	**Diagnosing alpha-1 antitrypsin deficiency in Romania - first 1000 cases tested** Ana-Maria Zaharie (Bucuresti (Sector 2), Romania), Valentin Caius Cosei, Alina Croitoru, Lavinia Davidescu, Joanna Chorostowska-Wynimko, Ruxandra Ulmeanu

Pre-congress content Session 94 00:00 - 23:59

E-poster session: Novel directions in pleural disease: bench to bedside

Disease(s) : Thoracic oncology Airway diseases

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

Chairs : Kevin Blyth (Glasgow (Glasgow), United Kingdom), Duneesha De Fonseka (Sheffield, United Kingdom)

1131	**Analysis of circular RNAs expression profile in pleural metastases from lung adenocarcinoma** Qiang Xiao, Xi Li, Fu Rong
1132	**Utility of LDH-A in the differentiation between lymphocytic pleural effusions of malignantand non-malignant etiology** Nevenka Piskač Živković (Zagreb, Croatia), Linda Malnar, Ivona Kovačević

1133	**The smellprint of mesothelioma cells: intrinsic biomarkers for diagnosis and subtyping** Eline Janssens (Edegem, Belgium), Elly Marcq, Lore Vandermeersch, Christophe Walgraeve, Jan Van Meerbeeck, Kevin Lamote
1134	**The role of fibrocyte-like cells in combination treatment of immune checkpoint inhibitor with antiangiogenic agents** Atsushi Mitsuhashi (Tokushima, Japan), Tania Afroj, Atsuro Saijo, Kenji Otsuka, Hiroto Yoneda, Kazuya Koyama, Masamichi Sugimoto, Osamu Kondoh, Hiroshi Nokihara, Yasuhiko Nishioka
1135	**Effect of primary cilium-associated genes expression on the survival of mesothelioma patients: In silico investigation of TCGA data.** Erasmia Rouka (Larissa, Greece), Chrissi Hatzoglou, Konstantinos Gourgoulianis, Sotirios Zarogiannis
1136	**Potential role of ADAM (A Disintegrin And Metalloprotease) in malignant pleural mesothelioma resistance to chemotherapy.** Marine Bellefroid (, Belgium), Christelle Sépult, Celine Vanwinge, Alison Gillard, Bernard Duysinx, Christophe Poulet, Ahmed Debit, Agnes Noel, Didier Cataldo
1137	**Measurement of Natural antibodies (NAbs) against actin, DNA and trinitrophenol in the fluid of pleural effusion patients with various etiologies** Sotirios Zarogiannis (Larisa, Greece), Ioannis Sarrigeorgiou, Ourania Kotsiou, Erasmia Rouka, Garyfallia Perlepe, Konstantinos Gourgoulianis, Peggy Lymberi
1138	**The UK timed diagnostic lung cancer pathway: a pleural disaster** Avinash Aujayeb (newcastle, Mauritius), Karl Jackson
1139	**MULTIDISCIPLINARY APPROACH IN THE EVALUATION AND MANAGEMENT OF PATIENTS WITH MALIGNANT PLEURAL MESOTHELIOMA. A SINGLE CENTER EXPERIENCE.** Giulia Maria Stella (Pavia (PV), Italy), Claudio Valizia, Laura Saracino, Francesco Agustoni, Emma Pozzi, Pietro Rinaldi, Cristiano Primiceri, Matteo Bosio, Patrizia Morbini, Chandra Bortolotto, Angelo Corsico
1140	**Influence of psychological distress on symptom burden of patients admitted by malignant pleural effusion** Janet Rodriguez Torres (Granada, Spain), María Granados Santiago, Alejandro Heredia Ciuró, Esther Prados Román, Ascensión Rodríguez Rodríguez, Marie Carmen Valenza
1141	**In patients with treatment-sensitive cancers, does systemic anti-cancer therapy increase the chance of malignant pleural effusion control?** Nina Holling (Bristol, United Kingdom), Sonia Patole, Andrew Medford, Nick Maskell, Anna Bibby
1142	**Moving forward from Chest Radiography to bedside Ultrasonography for the detection of Pneumothorax. Time to Re-think?** Dimitris Lioumpas (Athens, Greece), Thrasyvoulos Michos, Athanasios Kleontas, Efstathios Metaxas, Stylianos Zaragkas, Ionnis Stamatatos, Nandia Fili, Ilias Samiotis, Kostantinos Bouboulis, Nikolaos Tzatzadakis
1143	**Pleural pointillism and early contrast enhancement as imaging biomarkers of pleural malignancy** Selina Tsim (Glasgow (Glasgow), United Kingdom), Gordon W. Cowell, Geoffrey Martin, Laura Alexander, Caroline Kelly, Rosemary Woodward, John E. Foster, Kevin G. Blyth
1144	**Isolated pleural thickening referred to pulmonologists - challenges and diagnosis** Philip Evans (Carmarthen, United Kingdom), Emma Shiels, Alina Ionescu
1145	**Computed tomography evidence of lymphangitis associated to malignant pleural effusion: its prevalence and impact on survival** Olalla Castro Añón (Lugo, Spain), Alexandra Dudina, Rachel Mercer, Eihab Bedawi, Vinneth George, David Mccracken, Rachelle Asciak, Maged Hassan, Rob Hallifax, Nicole Russel, Francisco Rodríguez-Panadero, Najib M Rahman
1146	**Clinical long-term outcome of non-specific pleuritis (NSP) after surgical or medical thoracoscopy** Valentine Mismetti (Saint Etienne, France), Georgia Karpathiou, Stavros Anevlavis, Olivier Tiffet, Francois Casteillo, Paschalis Ntolios, Tiffany Trouillon, Michel Peoc`h, Marios E. Froudarakis
1147	**Mesothelioma is associated with ipsilateral thoracic muscle loss** Andrew C Kidd (Glasgow (Glasgow), United Kingdom), Alan Winter, Laura Miller, William Baird, Craig Dick, Dominic Pearce, William Sloan, Gordon W Cowell, Colin Noble, Audrey Smith, Paul Westwood, Tracey Hopkins, Nicola Williams, Harriet Walter, Amy King, Dean Fennell, Kevin G Blyth
1148	**Efficacy of Pleurodesis and EGFR TKI in the Treatment of Lung Cancer-mediated Pleural Effusion with EGFR Mutation** Kunlin Li (Chongqing (Chongqing), China), Qian Zhao, Peng Zhang
1149	**Sensitivity of PD-L1 analysis from pleural effusion in non-small cell lung cancer** Simon Dominik Herkenrath (Köln, Germany), Lars Hagmeyer, Marcel Treml, Sandhya Matthes, Kerstin Richter, Khosro Hekmat, Matthias Heldwein, Stephan Schäfer, Reinhard Büttner, Marianne Engels, Winfried Randerath

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

E-poster session: Different aspects of paediatric viral and bacterial lung infections

Disease(s) : Airway diseases

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

Chairs : Refiloe Masekela (Pretoria, South Africa), Chair to be confirmed

1150	**Lymphocyte count as an early marker for severe bronchiolitis** Luigi Matera (Frasso Telesino Bn, Italy), Raffaella Nenna, Antonella Frassanito, Ambra Nicolai, Laura Petrarca, Enrica Mancino, Greta Di Mattia, Domenico P. La Regina, Elio Iovine, Annita Apicella, Vincenzo Ferraro, Fabio Midulla
1151	**The roles of human bocavirus and human metapneumovirus in lower respiratory tract infections in children** Dilber Ademhan Tural (Ankara, Turkey), Ebru Yalcin, Nagehan Emralioglu, Alparslan Alp, Onur Gozmen, Beste Ozsezen, Birce Sunman, Deniz Dogru, Ugur Ozcelik, Nural Kiper
1152	**Discovering the molecular determinant in rhinoviruses by virus-genotype to disease-phenotype association in paediatrics patients in Hong Kong** Chun Sang PUN (Hong Kong, Hong Kong), Hai Chao Wang, Kin Pong Tao, Gar Shun Tsun, Wai Yin Yu, Xia Yuan Chen, Maggie Haitian Wang, Paul Kay-Sheung Chan, Ting Fan Leung, Wan Yi Renee Chan
1153	**Risk for asthma following pneumonia in infancy – a nationwide register-based cohort study with family design** Samuel Rhedin (Stockholm, Sweden), Cecilia Lundholm, Emma Caffrey Oswald, Catarina Almqvist
1154	**Ultrasound pneumonia dimensions in children and inflammation** Ioana Mihaiela Ciuca (Timisoara (Timis), Romania), Monica Marc, Flavian Nicolae Mircov, Mihaela Dediu, Liviu Pop
1155	**Effect of point-of-care lung ultrasound on treatment outcomes in children: A systematic review** Justus Simba (Thika, Kenya), Ian Sinha, Patrick Mburugu, Musa Kaleem, Caren Emadau, Krishina Harave, Helen Nabwera
1156	**To document pneumonia case management practices in selected communities in Pakistan; a qualitative study.** Hana Mahmood (, Pakistan), Hira Kiani, Yahya Sheraz, Tabish Hazir
1157	**Paediatric necrotizing pneumonia: single tertiary center experience** Salma Gamal Abdelhady (Cairo, Egypt), Eman Fouda, Amira Moharram
1158	**Evaluation of noncystic fibrosis bronchiectasis: six-year single center experience** Fazilcan Zirek (Ankara, Turkey), Gizem Özcan, Nazan Çobanoğlu
1159	**The clinical and microbiological features of PBB in children and the risk factors for chronic bronchitis development** Svetlana Ilchenko (Dnepr, Ukraine), Anastasiia Fialkovska, Svitlana Ivanus
1160	**Growth faltering predicts protracted bacterial bronchitis in children with chronic cough** Ishani Ghosh (Blackpool, United Kingdom), Caroline Beardsmore, Helen Beckett, Manjith Narayanan
1161	**Heterogeneity of children with protracted wet cough according to results of cluster analysis** Evgenii Furman (Perm (Perm Krai), Russian Federation), Elena Mazunina, Tatyana Evseenkova, Valerii Sheludko
1162	**ADAPTATION TO DISEASE AND ANXIETY-DEPRESSIVE CLINIC IN THE PAEDIATRIC PATIENT WITH PRIMARY CILIARY DYSKINESIA** Silvia Castillo Corullón (Torrent (Valencia), Spain), Selene Valero-Moreno, Marián Pérez-Marin, Inmaculada Montoya-Castilla
1163	**Assessment of risk factors for the formation of polyorgan tuberculosis in children infected with MBT** Anna Mordyk (Omsk, Russian Federation), Nadejda Porculevich
1164	**DTX3L mediated regulation of TBK1 positively regulates type I IFN signalingpathway and cellular antiviral response** Chuangli Hao (Suzhou (Jiangsu), China), Jiaqi Huang, Yu Ma
1165	**Neutrophil Extracellular Traps (NETs) increase mucus viscoelasticity** Rosalie S.N. Linssen (Amsterdam, Netherlands), Guihong Chai, Jonathan Ma, Apparao Kummarapurugu , Job B.M. Van Woensel, Reinout A. Bem, Logan Kaler, Gregg Duncan, Lei Zhou, Bruce K. Rubin, Qingguo Xu
1166	**Dynamics of serotypic composition of nasopharyngeal pneumococcal isolates in children pneumococcal nasopharyngeal colonization after the introduction of the vaccination program in Moscow** Anna Lazareva (Moscow, Russian Federation), Natalja Alyabyeva , Ekaterina Brzhozovskaya, Olga Shamina

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

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

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

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

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

1167	**Long term follow up of antenatally detected congenital lung malformation suggests lung health is not dependent on early surgery.** Kenneth A Macleod (Edinburgh, United Kingdom), Paul Burns, Mahmoud M Marei, Louise Thomson
1168	**Patterns of changes of the flow-volume curve in Duchenne Muscular Dystrophy (DMD)** Antonella LoMauro (Milano (MI), Italy), Erardo Marchi, Grazia D'Angelo, Andrea Aliverti
1169	**Spirometry improvement is similar for Australian children treated at outreach clinics and tertiary hospitals.** Andrew Collaro (South Brisbane, Australia), Anne B Chang, Julie Marchant, Ian Brent Masters, Leanne Rodwell, Mark Chatfield, Margaret McElrea
1170	**Early childhood outcomes of Robin sequence in United Kingdom & Ireland according to nature and management of upper airway obstruction** Marie Wright (Vancouver (BC), Canada), Felicity Mehendale, Edile Murdoch, Patricia Jackson, Sheila Javadpour, Don Urquhart
1171	**Outcome differences in multiple-breath washout devices are explained primarily by sensor characteristics** Florian Wyler (Bern, Switzerland), Marc-Alexander Oestreich, Kathryn Ramsey, Philipp Latzin
1172	**FIREFISH Part 2: Efficacy and safety of risdiplam (RG7916) in infants with Type 1 spinal muscular atrophy (SMA)** Giovanni Baranello (London, United Kingdom), Giovanni Baranello, Laurent Servais, Riccardo Masson, Maria Mazurkiewicz-Bełdzińska, Kristy Rose, Dmitry Vlodavets, Hui Xiong, Edmar Zanoteli, Muna El-Khairi, Sabine Fuerst-Recktenwald, Marianne Gerber, Ksenija Gorni, Heidemarie Kletzl, Renata Scalco, Basil T. Darras
1173	**Ventilation inhomogeneity and exercise capacity in children with BPD and CF** Elpis Hatziagorou (Thessaloniki, Greece), Eleana Kouroukli, Kosmas Sarafidis, John Tsanakas
1174	**Reference range for oscillometry in healthy South African preschool children** Shaakira Chaya (Mokopane, South Africa), Rae Macginty , Carvern Jacobs , Zoltán Hantos , Shannon Simpson, Heather Zar , Diane Gray
1175	**Investigation of Cardiovascular System Findings and Affecting Factors Before and After Adenotonsillectomy Operation in Children with Obstructive Sleep Apnea Accompained by Adenotonsillar Hypertrophy** Tugce Özbilgic (Ankara, Turkey), Ahmet Emre Suslu, H. Hakan Aykan, Bilge Pehlivanoglu, Deniz Önal, Merve Kasikci, Ali Duzova, Nagehan Emiralioglu, E. Ebru Yalcin , Deniz Dogru Ersoz, E. Nural Kiper, H. Ugur Ozcelik
1176	**Comparison of Impulse Oscillometry With Spirometry in Patients With Non Cystic Fibrosis Bronchiectasis** Cansu Yilmaz Yegit (Istanbul, Turkey), Pakize Cennetoglu, Pinar Ergenekon, Ela Erdem Eralp, Yasemin Gökdemir, Bulent Karadag
1177	**Blood capillary volume as a determinant of high DLCO in subjects living at moderate altitude.** Ada Nelly De los Santos (10902, Dominican Republic), Ada Nelly De los Santos , Edgar Alejandro Reyes, Laura Gochicoa , Luis Torre-Bouscolet, Rogelio Pérez
1178	**Long-term course of lung clearance index among patients with cystic fibrosis** Elpis Hatziagorou (Thessaloniki, Greece), C Mantsiou, I Lialias, E Kouroukli, P Talimtzi, L Nousia, S Kirvassili, J Tsanakas
1179	**VALIDITY OF A HOME RESPIRATORY POLYGRAPHY (HRP) FOR DIAGNOSIS OF OBSTRUCTIVE SLEEP APNEA (OSA) IN CHILDREN** Paula Rodriguez (Vitoria Gasteiz (Álava), Spain), Esther Oceja, Sandra Inglés , Jose Cordero, Mari Luz Alonso, Ana Isabel Navazo, Jaime Corral, Juan Fernando Masa, Mónica González, Maria Ángeles Martinez, Maria Jose Jurado, Felix Pumarola, Milagros Merino, Carmen Martinez, Carmen Luna, Álvaro Gimeno, Santiago Juarros, Milagros Del Olmo, Genoveva Del Rio, Teresa Gómez, Maria Ángeles Villar, Silvina Mónica Terceros , David Gozal, Leyla Gozal, Joaquín Durán
1180	**Sleep related hypoventilation: should the paediatric definition be revised?** Rosário Ferreira (Lisbon, Portugal), Ana Lemos, Lia Oliveira, Ângela Drago, Andreia Descalço
1181	**Intra-breath and spectral oscillometry in preterm-born children** Rhea Urs (Perth (WA), Australia), Denby Evans, Graham Hall, Shannon Simpson

1182	**Relevance of nasal nitric oxide measurements using tidal breathing method for screening primary ciliary dyskinesia in young children** Nicole Beydon (Paris, France), Aline Tamalet, Estelle Escudier, Gregory Jouvion, Marie Legendre, Guillaume Thouvenin
1183	**Overnight gas exchange and ventilatory support in spinal muscular atrophy type 2 patients after 12 months of nusinersen treatment** Uros Krivec (Ljubljana, Slovenia), Aleksandra Zver, Dusanka Lepej, Ana Kotnik Pirs, Marina Praprotnik, Sasa Setina Smit, Tita Butenko, Damjan Osredkar
1184	**Sleep, work of breathing and effect of continuous positive airway pressure in children with chronic heart failure** Alessandro Amaddeo, Diala Kraiche, Sonia Khirani, Mathilde Meot, Damien Bonnet, Brigitte Fauroux

Pre-congress content Session 97 00:00 - 23:59

E-poster session: Interventional pulmonology: diagnostic and therapeutic approaches

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

Method(s) : Endoscopy and interventional pulmonology | Respiratory intensive care | Surgery | General respiratory patient care | Imaging

Chairs : Daniela Gompelmann (Heidelberg, Germany), Sahajal Dhooria (Chandigarh (Uttar Pradesh), India)

1185	**Late Breaking Abstract - Complication rates for bronchoscopy procedures performed at a large UK tertiary teaching hospital.** Elinor Crisp (Nottingham, United Kingdom), Yu Kwong Wong, Abhilash Nair
1186	**Late Breaking Abstract - Radial endobronchial ultrasound guided transbronchial cryobiopsy with fluoroscopy in the diagnosis of peripheral pulmonary nodule: first experience in the Hospital of LUHS Kauno klinikos** Vytautas Ankudavicius (Kaunas, Lithuania), Marius Zemaitis, Skaidrius Miliauskas
1187	**Late Breaking Abstract - New centre experience in virtual bronchoscopic navigation in combination with fused fluoroscopy to target solitary pulmonary nodules** Faustina Funke (Essen, Germany), Jane Winantea, Kaid Darwiche
1188	**Transbronchial lung cryobiopsy may be of value for nonresolving acute respiratory distress syndrome: case series and systematic literature review** Guowu Zhou (, China), Shiyao Wang, Yingying Feng, Qingyuan Zhan, Jing Geng
1189	**Transbronchial cryobiopsies in a real-life setting: Results from a Dutch, non-academic hospital** Roos Joosten (NIJMEGEN, Netherlands), Michiel Spanbroek, Julius Janssen, Willem Vreuls, Anneke Van Veen, Rob Janssen, Jürgen Hölters
1190	**Transbronchial lung cryobiopsy in interstitial lung disease: safety & learning curve** Johannes M.A. Daniels (Amsterdam, Netherlands), Suzan F.M. Nijman, Gerrina Ruiter, Esther J. Nossent
1191	**Complications - based learning curve of transbronchial lung cryobiopsy in diffuse parenchymal lung diseases** Edita Strumiliene (Vilnius, Lithuania), Vygantas Gruslys
1192	**Endoscopic treatment of tracheo-oesophageal fistulae: an innovative procedure** Giovanni Galluccio (Roma, Italy), Gabriele Lucantoni, Sofia Romani, Raffaele Dello Iacono, Sandro Batzella
1193	**Bacterial Colonization of Airway Stents and The Effect of Colonization on Stent Course** Binnaz Zeynep Yildirim (Istanbul, Turkey), Elif Tanriverdi, Demet Turan, Efsun Gonca Chousein, Mehmet Akif Ozgul, Erdogan Cetinkaya
1194	**Y-stent for tracheal tear under extracorporeal membrane oxygenation (ECMO): A success story** Nurul Yaqeen (Batu Caves (Selangor), Malaysia), Mona Zaria Nasarudin, Jamalul Azizi Abdul Rahaman
1195	**Bronchoscopic Valve Implantation for Major Hemoptysis** Kathleen Jahn (Basel, Switzerland), Daiana Stolz, Michael Tamm
1196	**Usefulness of topical Mitomycin C application via rigid bronchoscopy in the management of tracheal stenosis** Asad Anwar (London, United Kingdom), Nordita Ramos Bascon, Natalie Barnes, Brendan Patrick Madden
1197	**Flexible bronchoscopy as the first-line strategy for extraction of tracheobronchial foreign bodies>** João Nunes Caldeira Marinho Matos (Ponta Delgada, Portugal), Sofia Rodrigues Sousa, Ligia Fernandes, Yvette Martins, Fernando Barata
1198	**Safety of therapeutic bronchoscopy in interventional pulmonology suit** Blanca De Vega Sanchez (Valladolid, Spain), Carlos Disdier Vicente, Sofia Jaurrieta Largo, Marta Belver Blanco, Maria Jose Chourio Estaba, Santiago Juarros Martinez, Vicente Roig Figueroa

1199	**Transient interventional bronchus occlusion as a new treatment approach for persistent bronchopleural fistula complicating necrotizing pneumonia in four children** Katharina Schütz (Hannover, Germany), Christoph Happel, Julia Carlens, Carsten Müller, Martin Wetzke, Alexander Backendorf, Gesine Hansen, Philipp Beerbaum, Harald Bertram, Nicolaus Schwerk
1200	**Outpatient lobar lavage: a novel approach to managing pulmonary alveolar proteinosis** Chanel Kwok (Ottawa (ON), Canada), Kayvan Amjadi
1201	**Airway foreign body removal using flexible bronchoscopy in children** Sabrine Louhaichi (Ariana, Tunisia), Ikbel Khalfallah, Besma Hamdi, Asma Allouche, Alaa Radhouani, Jalel Ammar, Taher Mestiri, Agnès Hamzaoui
1202	**Is it Time for Endobronchial Therapy to Replace Surgery in the Treatment of Typical Endobronchial Carcinoid?** Alma Teferici (Tirana, Albania), Eritjan Tashi, Ilir Peposhi, Daniela Xhemalaj, Fahri Kokici, Perlat Kapisyzi
1203	**Endobronchial autologous blood patch for treatment of persistent air leak. A simple and accessible technique to treat peripheral broncho-pleural fistula.** Hasan Allah Sadeghi (Tehran, Islamic Republic of Iran)
1204	**Feasibility and safety of endoscopic microwave ablation for malignant central airway obstruction; a case series.** Michal Senitko (Flowood, United States of America), George Abraham

Pre-congress content Session 98 00:00 - 23:59

E-poster session: Novel mechanisms and management of paediatric asthma

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

Chairs : Sejal Saglani (London, United Kingdom), Michael Kabesch (Regensburg, Germany)

1205	**Biologicals in the treatment of severe asthma in children: A PERMEABLE assessment of the current practice in Europe** Michael Kabesch (Regensburg, Germany), Heike Buntrock-Döpcke, Jakob Niggel, Korneliusz Golebski, Cornelis Van Drunen, Susanne Reinarts, Uroš Potočnik, Erik Melén, Anke-Hilse Maitland-Van Der Zee, Susanne Vijverberg
1206	**Respiratory modulation of the pulse oximeter plethysmogram amplitude as a marker of severity in acutely wheezy young children** Paul Seddon (West Sussex, United Kingdom), David Wertheim, Oana Anton, Catherine Olden, Paul Seddon
1207	**Identifying T-lymphocytes in the sputum of children with acute asthma** Megan Philpot (Leicester, United Kingdom), David Cousins, Erol Gaillard
1208	**Effect of nasal polivalent bacterial lysate on the clinical course of seasonal allergic rhinitis in children - preliminary study.** Magdalena Kowalska (Lublin, Poland), Andrzej Emeryk, Kamil Janeczek, Iwona Czerwińska Pawluk
1209	**Elevated type I collagen degradation predicts persistent asthma in children** Sarah Rønnow (Herlev, Denmark), Benjamin Hoffmann-Petersen, Jannie Marie Bülow Sand, Morten Karsdal, Helene Marlies Rasmussen, Lone Agertoft, Diana Julie Leeming , Grith Lykke Sørensen
1210	**Metabolomics applied to exhaled breath condensate in asthmatic children treated with inhaled steroids** Valentina Agnese Ferraro (Rosa' (VI), Italy), Silvia Carraro, Paola Pirillo, Gabriele Poloniato, Matteo Stocchero, Giuseppe Giordano, Stefania Zanconato, Eugenio Baraldi
1211	**Prescribing patterns of antiasthma medication in children and adolescents in primary care in France.** Véronique Houdouin (Paris, France), Isabelle Naiim, Aya Ajrouche, Florence Tubach, Sylvie Guillo, Yann De Rycke, Florentia Kaguelidou
1212	**Accuracy of blood eosinophil count in predicting sputum eosinophils in children with problematic severe asthma (PSA)** Benjamin Davies (Derby (Derbyshire), United Kingdom), Sue Frost, Satish Rao, David Thickett, Sejal Saglani, Prasad Nagakumar
1213	**Identification of disease-specific molecular breath profiles in patients with allergic asthma** Ronja Weber (Männedorf, Switzerland), Srdjan Micic, Bettina Streckenbach, Lara Welti, Tobias Bruderer, Nathan Perkins, Demet Inci, Jakob Usemann, Alexander Möller
1214	**Familial co-aggregation of asthma and type 1 diabetes mellitus in children– a Swedish population-based cohort study** Awad I. Smew (Stockholm, Sweden), Cecilia Lundholm, Lars Sävendahl, Paul Lichtenstein, Catarina Almqvist

1215	**Cord blood Interleukin-13 and IFN-Gamma levels As Biomarkers of Ever-Wheezing in the First Year of Life** Ozge Yilmaz (Manisa, Turkey), Adem Yaşar, Pınar Ay, Arzu Çalışkan Polat, Ferhan Odabaşı Cingöz, Tunç Alkın, Fatma Taneli, Solmaz Hasdemir, Yurda Şimşek Başbay, Hasan Yüksel
1216	**Elevated Serum KL-6 in Pediatric Asthma Exacerbation: a Proof of Alveolar Injury** Iman H. Draz (Cairo, Egypt), Iman A. Shaheen, Eman Youssef
1217	**Functional status of ciliated epithelium in children with mild, moderate, and severe asthma** Irina Ozerskaia (Moscow, Russian Federation), Natalia Geppe, Ulyana Malyavina
1218	**Associations of serum cytokine levels with asthma, wheeze and allergic rhinitis symptoms in 5-years old children: a population-based study** Isabella Annesi Maesano (Paris, France), Giancarlo Pesce, Nicola Glaichenhaus
1219	**Changes in nitric oxide (NO) cycle metabolites in children with mild asthma (BA) receiving STEP-2 therapy** Mary Glukhova (Moscow, Russian Federation), Natalia Geppe, Svetlana Soodaeva, Igor Klimanov, Natalia Kolosova
1220	**The pro-resoliving lipid mediator lipoxin A4 inversely correlates with proinflammatory chemokines and identifies a subgroup of asthma patients with disease progression** Isabell Ricklefs (Lübeck, Germany), Louisa Schäfer , Nadine Weissheimer, Markus Weckmann, Dominik Thiele, Inke König, Erika Von Mutius , Gesine Hansen , Klaus Rabe , Matthias V. Kopp

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

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

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

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

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

1221	**Spirometry and air-trapping quantified by chest computed tomography in children with bronchiolitis obliterans syndrome following allogeneic hematopoietic stem cell transplantation** Athanasios G. Kaditis (Athens, Greece), Dimitrios Moutafidis, Maria Gavra, Sotiris Golfinopoulos, Christina Oikonomopoulou, Vasiliki Kitra
1222	**Breathlessness on exercise: paediatric cardiopulmonary exercise test results** Ridma Jayarathna (Kent, United Kingdom), Thomas Goddard, Charlotte Wells, Samatha Sonnappa
1223	**Daytime predictors of nocturnal hypercapnic hypoventilation in children with neuromuscular disorders: a threshold for FVC z-score** Megan Frohlich (Narara (NSW), Australia), John Widger, Ganesh Thambipillay, Arthur Teng, Michelle Farrar, Sandra Chuang
1224	**End of test (EOT) criteria for spirometry in preschool children** Luciano Enrique Busi (Trelew (Chubut), Argentina), Peter David Sly, Sabrina Gisel Fernández
1225	**Evaluation of paediatric home oxycapnography for patients with respiratory and complex multisystem disorders** Joe Madge (Leicester, United Kingdom), Molla Imaduddin Ahmed, Prakash Patel, Ben Elkington, Helen Hickey, Louise Mogford, Kay Calvert, Kamini Jain
1226	**Description of central apnea and periodic breathing in children** Sergio Ghirardo (Trieste, Italy), Alessandro Amaddeo, Sonia Khirani, Lucie Griffon, Brigitte Fauroux
1227	**Pattern of upper airway obstruction in overweight/obese children with obstructive sleep apnoea and without prior upper airway surgery.>** An Boudewyns (Edegem (Antwerp), Belgium), Eli Van De Perck, Kim Van Hoorenbeeck, Stijn Verhulst, Vera Saldien, Olivier Vanderveken
1228	**The impact of treatment with steroids on lung function of children with Duchenne muscular dystrophy: experience from a single centre** Maria Gogou (Katerini, Greece), Evangelos Pavlou, Andreas Giannopoulos, Katerina Haidopoulou
1229	**Sleep-disordered breathing in children with chronic kidney disease: a pilot study.** Mara Lelii (Milano (MI), Italy), Laura Senatore, William Morello, Sara Testa, Francesca Taroni, Barbara Madini, Maria Carola Pensabene, Marinella Lavelli, Maria Francesca Patria
1230	**Night-to-night variability of polygraphy in children with obstructive sleep apnea** Ela Erdem Eralp (Istanbul, Turkey), Cansu Yilmaz Yegit, Yasemin Gokdemir, Pinar Ergenekon, Meltem Yilmaz, Pinar Ay, Baran Balcan, Bulent Karadag, Refika Ersu

1231	**Pulmonary function test results in young athletes and sedentary children** Oleksandr Onikiienko (Kharkiv, Ukraine), Valentyn Polyakov, Ganna Senatorova, Margaryta Gonchar
1232	**Drug-induced sleep-endoscopy in OSA children: What do we see?** Silke Anna Theresa Weber (Botucatu (SP), Brazil), Antonio Carlos Marão, Jefferson Luis De Barros, Camila Castro Correa
1233	**Intestinal Microbiota in children with obstructive sleep apnea syndrome** Melania Evangelisti (Roma (RM), Italy), Marta Arpinelli, Manuela Cecili, Marilisa Montesano, Mario Barreto, Marina Borro, Maria Pia Villa
1234	**Nusinersen stabilises respiratory function in paediatric spinal muscular atrophy** Archana Chacko (Brisbane, Australia), Sean Deegan, Leanne Gauld, Peter Sly
1235	**Central and obstructive apnoea-hypopnea indices pre and post growth hormone commencement in children with Prader-Willis syndrome following introduction of a screening programme** Damilola Modupe Oladele (Southampton, United Kingdom), Hasitha Gajaweera, Johanna Gavlak, Justin Davies, Gary Connett, Hazel Evans
1236	**Cut-offs for snoring index in children suspected of obstructive sleep apnea** Nicole Beydon (Paris, France), Claire Le Thai, Fatma Lacin
1237	**Sleep disordered breathing in children with Down Syndrome: impact on motor development** Silke Anna Theresa Weber (Botucatu (SP), Brazil), Camila Castro Correa, Karine Silveira Machado, Deuzilene Costa Sousa, Leticia Campos
1238	**Pulmonary hypertension and obstructive sleep apnea syndrome -Marmara Universitypediatric sleep laboratory experience** Cansu Yilmaz Yegit (Istanbul, Turkey), Pinar Ergenekon, Ela Erdem Eralp, Yasemin Gokdemir, Figen Akalin, Ayse Yildirim, Meltem Sabanci, Bulent Karadag
1239	**Assessing global and regional pulmonary function with electrical impedance tomography in pediatric patients: the EIT-derived flow-volume loops** Chuong Ngo (Aachen, Germany), Sylvia Lehmann, Eva Verjans, Klaus Tenbrock, Steffen Leonhardt
1240	**Polysomnography findings in children with Mucopolysaccharidoses** Dilber Ademhan Tural (Ankara, Turkey), Beste Ozsezen, Birce Sunman, Omer Faruk Ipek, Kubra Kılıc, Nagehan Emiralioglu, Ebru Yalcin, Deniz Dogru, Nural Kiper, Serap Sivri, Ugur Ozcelik

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

E-poster session: Phenotypes of obstructive diseases

Disease(s) : Airway diseases

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

Chairs : Andriana Papaioannou (Vrilissia (Athens), Greece)

1241	**Is the strength of the type-2 (T2) inflammatory biomarker signal important in determining the burden of disease in severe asthma (SA)?** Lauren Fox (Southampton, United Kingdom), Thomas Brown, Laura Wiffen, Thomas Jones, Kerry Gove, Clair Barber, Scott Elliott, Hitasha Rupani, Peter Howarth, Anoop Chauhan
1242	**Characterisation of the neutrophilic asthma phenotype over time.** Claudia Blouin (Québec, Canada), Krystelle Godbout, Marie-Eve Boulay, Anurag Bhalla, Parameswaran Nair, Louis-Philippe Boulet, Andréanne Côté
1243	**Sex differences in COPD outcome in 5,355 women with COPD: A new analysis of the 3CIA study** Tamara Alonso Perez (Madrid, Spain), Elena García Castillo, Julio Ancochea, María Teresa Pastor Sanz, Pere Almagro, Pablo Martínez Camblor, Marc Miravitlles, Mónica Rodríguez-Carballeira, Annie Navarro, Bernd Lamprecht, Ana S Ramírez-García Luna, Bernhard Kaiser, Inmaculada Alfageme, Ciro Casanova, Cristóbal Esteban, Juan J Soler-Cataluña, Juan P De-Torres, Bartolome R Celli, Jose M Marin, Jose L Lopez-Campos, Gerben Ter Riet, Patricia Sobradillo, Peter Lange, Judith Garcia-Aymerich, Josep M Anto, Alice M Turner, Meilan K Han, Arnulf Langhammer, Alice Sternberg, Linda Leivseth, Per Bakke, Ane Johannessen, Toru Oga, Borja Cosío, Andres Echazarreta, Nicolas Roche, Pierre-Régis Burgel, Don D Sin, Milo A Puhan, Joan B Soriano
1244	**Bronchiectasis and airway eosinophilia in severe asthma—is there an association?** Anna von Bülow (Vedbæk, Denmark), Vibeke Backer, Celeste Porsbjerg
1245	**The rate of re-exacerbation in patients hospitalized with eosinophil and non-eosinophilic COPD relapses** Balázs Csoma (Budapest, Hungary), András Bikov, Gergő Szűcs, Veronika Müller, Zsófia Lázár

1246	**Urinary metabolomics-profiling of the U-BIOPRED asthma study identified biochemical clusters associated with asthma severity** Craig Wheelock (Stockholm, Sweden), Stacey Reinke, Johan Kolmert, Shama Naz, Romanas Chaleckis, Peter Sterk, Fan Chung, Ian Adcock, Ratko Djukanovic, Sven-Erik Dahlen, . The Ubiopred Study Group
1247	**Pathology of small airways in non-COPD smokers with low diffusion capacity and patients with COPD** Makoto Shindo (Kyoto, Japan), Naoya Tanabe, Atsuyasu Sato, Kiyoshi Uemasu, Hiroshi Shima, Tatsushi Mizutani, Emiko Ogawa, Shigeo Muro, Susumu Sato, Toyohiro Hirai
1248	**Regional ventilation distribution in emphysema and non-emphysema regions affects diffusion capacity in COPD** Hiroshi Shima (Kyoto, Japan), Naoya Tanabe, Tsuyoshi Oguma, Satoshi Kozawa, Takeshi Kubo, Kaori Togashi, Atsuyasu Sato, Susumu Sato, Toyohiro Hirai
1249	**Long-term prognosis of new adult-onset obese asthma** Pinja Ilmarinen (Seinäjoki, Finland), Adrienn Pardo, Leena E. Tuomisto, Iida Vähätalo, Onni Niemelä, Pentti Nieminen, Hannu Kankaanranta
1250	**The SAQ is a valid quality of life measure in severe asthma: the mini-AQLQ and ACQ both measure symptoms** Matthew Masoli (Plymouth (Devon), United Kingdom), Joseph Lanario, Michael Hyland, Andrew Menzies-Gow, Adel Mansur, James Dodd, Stephen Fowler, Mitesh Patel, Gemma Hayes, Rupert Jones
1251	**COPD phenotypes by computed tomography and ventilatory response to exercise** Sofia Rodrigues Sousa (Braga, Portugal), Margarida Pimenta Valério, João Nunes Caldeira, Cidália Rodrigues, Ana Figueiredo, Fernando Barata
1252	**The frequent exacerbator phenotype in asthma: a clinical characterization** Vitina Carriero (Orbassano, Italy), Andrea Sprio, Stefano Levra, Carlotta Botto, Francesca Bertolini, Fabio Luigi Massimo Ricciardolo
1253	**Relationship between quality of life and disordered physiology and cytology in asthma: a retrospective study from a secondary care center** Gilles Louis (Liège, Belgium), Benoit Pétré , Florence Schleich, Monique Henket , Virginie Paulus , Françoise Guissard , Renaud Louis, Michèle Guillaume
1254	**The role of enterotoxins in severe asthma** Pinelopi Schoini (Cholargos, Greece), Zervas Eleftherios, Ntontsi Polyxeni, Apollonatou Vasiliki, Sfika Maria, Mplizou Myrto, Tyligada Ekaterini, Kakolyri Maria, Foukas Periklis, Pouliakis Avraam, Koufopoulos Nektarios, Tsoukalas Georgios, Gaga Mina, Papiris Spyridon, Koulouris Nikolaos, Bakakos Petros, Loukides Stylianos
1255	**Comparison of two published definitions of sputum neutrophilia show clinical measures of disease are more severe in neutrophilic asthma (NA) than non-neutrophilic asthma (NNA) using >40% sputum neutrophils as the definition of disease.** Clair Barber (Southampton (Hampshire), United Kingdom), Jon Ward, Scott Elliott, Laurie Lau, Adnan Azim, Kerry Gove, Hitasha Rupani, Thomas Brown, Anoop Chauhan, Karl J Staples, Peter H Howarth
1256	**Data-driven questionnaire based cluster analysis of asthma in Swedish adults.** Marta Alina Kisiel (Uppsala, Sweden), Xingwu Zhou, Josefin Sundh, Björn Ställberg, Karin Lisspers, Andrei Malinovschi, Hanna Sandelowsky, Scott Montgomery, Anna Nager, Christer Janson
1257	**Using characteristics of asthma phenotypes to determine exacerbation severity** Erik Duijvelaar (Amsterdam, Netherlands), Marijke Amelink, Cristina Longo, Anirban Sinha, Anke-Hilse Maitland-Van Der Zee, Els Weersink
1258	**Bioelectrical impedance vector analysis in COPD patients with right heart failure** Raúl Hernández Centeno (, Mexico), Ilse Pérez García, Dulce González Islas, Arturo Orea Tejeda, Rocío Sánchez Santillan, Leslie Verdeja Vendrell, Martha Elena Quintero Martínez, Yael Ramiro Gastelum Ayala, Nathalie Martínez Luna, Óscar Ubaldo Martínez Reyna, Valeria Martínez Vázquez, Ameyalli Sandoval Sánchez, Fernando Flores Trujillo, Silvia Sid Juárez, Manuel Gómez Martínez

Pre-congress content — Session 101 — 00:00 - 23:59

E-poster session: New insights into respiratory physiotherapy

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

Method(s) : Imaging | Physiology | Pulmonary rehabilitation | General respiratory patient care | Pulmonary function testing | Respiratory intensive care | Endoscopy and interventional pulmonology | Palliative care

Chairs : Miguel R. Gonçalves (Porto, Portugal), Stephanie K. Mansell (Guildford (Surrey), United Kingdom)

1259	**Effects of continuous chest wall vibration on dyspnoea and exercise tolerance in patients with chronic obstructive pulmonary disease: a randomized controlled trial.** Simone Pancera (Manerbio, Italy), Riccardo Buraschi, Chiara Arienti, Stefano Moschin, Stefano Negrini, Luca Bianchi
1260	**The use of a shortened Multiple Breath Washout in the assessment of airway clearance in patients with COPD.** Enya Daynes (Leicester, United Kingdom), Neil Greening, John Owers-Bradley, Sally Singh, Salman Siddiqui
1261	**Short-term Impact of Lung Flute and Inspiratory Muscle Trainer on Pulmonary Functions and Functional Capacity in COPD from a Low Middle Income Country : A Pilot Randomized Control Trial.** Cherishma Dsilva (Mangalore , India), Sudeep Mario Joseph Pais, Don Gregory Mascarenhas
1262	**A randomised controlled trial of lung volume recruitment in people with neuromuscular disease** Nicole Sheers (NORTHCOTE, Australia), Mark Howard, Linda Rautela, Caroline Chao, Peter Rochford, David Berlowitz
1263	**Airway clearance techniques in patients with bronchiectasis. Data from the EMBARC Registry.** Arietta Spinou (London, United Kingdom), Stefano Aliberti, Rosario Menendez, Francesco Blasi, Pierre Regis-Burgel, Felix Ringshausen, Anthony De Soyza, Michal Shteinberg, Amelia Shoemark, Montserrat Vendrell, Eva Polverino, Charles Haworth, Katerina Dimakou, Michael R Loebinger, Antoni Torres, Tobias Welte, Stuart J Elborn, Pieter C Goeminne, James D Chalmers, Beatriz Herrero-Cortina
1264	**Patient and public involvement (PPI) to inform a survey on airways clearance treatments in bronchiectasis.** Katherine O'Neill (Belfast (Belfast), United Kingdom), Rebecca Mcgrath, Brenda O'Neill, Jeanette Boyd, Chloe Gilfillan, James D. Chalmers, Judy M. Bradley
1265	**Respiratory physiotherapy: Process mapping to target quality improvement and scope areas for future research** Katherine O'Neill (Belfast (Belfast), United Kingdom), Rebecca Mcgrath, Oonagh Hewitt, Ruth Redfern, Judy M. Bradley
1266	**The effect of Simeox airway clearance technology on resting hyperinflation in Cystic fibrosis patients** Mathilde Proffit (, France), Marie Magni, Gilles Desbois, Laurent Morin
1267	**Inhaled mannitol in cystic fibrosis: clinical experience in Verona CF centre** Priscilla Flavia Bogoni (verona, Italy), Riccardo Guarise, Anna Meschi, Sara Tomezzoli, Giuseppe Daniele Zambito, Anna Malvezzi, Milva Sanguanini, Alessandra Zanini, Antonella Borruso, Marco Cipolli
1268	**Physiotherapy to prevent hospital-acquired pneumonia in patients undergoing hip fracture surgery** Elisabeth Westerdahl (Örebro, Sweden), Anna Ståhl
1269	**Electrical impedance tomography in the evaluation of effectiveness of chest physiotherapy** Anna Folino (Torino (TO), Italy), Sheila Beux, Laura Barrocu, Irene Esposito, Elvira Rizza, Manuela Goia, Lorenzo Appendini, Elisabetta Bignamini
1270	**Mechanical insufflation-exsufflation for the prevention and treatment of respiratory complications in acute cervical spinal cord injury: a retrospective analysis** Debbie Hubbard (Bristol, United Kingdom), Claire Fitzgerald , Ema Swingwood
1271	**Laryngeal responses and airflow geometry in ALS during mechanically assisted cough** Tiina Andersen (Bergen, Norway), Brit Hov, Ove Fondenes, Hege Clemm, Thomas Halvorsen, Ola Drange Røksund, Maria Vollsæter
1272	**UK survey of current cough augmentation management in patients with motor neurone disease** Rachel Szczepanski (Herries Rd, Sheffield, United Kingdom), Matthew Cox, Molly Hashmi-Greenwood
1273	**The implementation of CPAP adherence follow-up in OSAS patients: the physiotherapist's role in an Italian hospital** Carla Simonelli (Lumezzane (BS), Italy), Mara Paneroni, Enrica Bertella, Manuela Saleri, Aubin Georges Fokom, Francesca Garofali, Laura Bertacchini, Michele Vitacca
1274	**Physiological effects of Simeox Airway Clearance Device in healthy adults** Laurent Morin (Aix-en-Provence, France), Damien Marino, Adrien Mithalal
1275	**A pilot study investigating the PlayPhysio device and associated app** Laura Lowndes (Cambridge, United Kingdom), Colin Hamilton, Donna Mcshane
1276	**Forced Oscillation Technique calculates optimum EPAP as sleep stage and body position change** Sidney Cannon-Bailey (Monroeville, United States of America), Chuck Cain, Jim Mckenzie, Michael Kissel, Bill Hardy, Parul Nisha

Pre-congress content — Session 102 — 00:00 - 23:59

E-poster session: News on clinical evaluation of bronchiectasis, cough and inflammatory disease

Disease(s) : Airway diseases

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

Chairs : Pieter Goeminne (Bornem, Belgium), Alessandro Sanduzzi Zamparelli (Napoli (NA), Italy)

1277	**Association between cardiorespiratory fitness and bronchiectasis: A longitudinal study** Alejandro A Diaz (Arlington, United States of America), Laura Colangelo, Yuka Okajima, Andrew Yen, Marc Sala, Mark Dransfield, James Ross, Raul San Jose Estepar, George Washko, Ravi Kalhan
1278	**Validation of the Korean version of the Bronchiectasis Health Questionnaire** Hyunkuk Kim (Busan, Republic of Korea), Hyun Lee, Ha Young Choi, Yeon-Mok Oh
1279	**Impacts of bronchiectasis in asthma patients with airflow limitation** natsuko nomura (Kyoto, Japan), Hisako Matsumoto, Chie Morimoto, Tsuyoshi Oguma, Susumu Sato, Naoya Tanabe, Mariko Kogo, Noriyuki Tashima, Hironobu Sunadome, Toyohiro Hirai
1280	**Prescription of Inhaled corticosteroid in non-cystic fibrosis bronchiectasis:a solution or a problem** Soumaya Bouchareb (Ksar Hellal, Tunisia), Imen Touil, Nadia Keskes, Chaima Ben Rhouma, Ella Nemsi, Raja Romdhane, Jalel Knani, Leila Boussoffara
1281	**Analysis of microbiological colonization in COPD patients with or without bronchiectasis** Besim Prnjavorac (Tešanj, Bosnia and Herzegovina), Lejla Prnjavorac, Edin Jusufović, Aida Mujaković, Lejla Šaranović, Edin Begić , Enes Hodžić Hodžić, Tamer Bego
1282	**Winter is coming – Developing a local weather score to predict chronic respiratory activity** David Barber (Warrington , United Kingdom)
1283	**Chronic cough in patients presenting to a tertiary cough clinic** Claire Slinger (Clitheroe (Lancashire), United Kingdom), Richard Slinger, Paul Marsden, Cristina Avram
1284	**Comparison of Cough Assessment by Visual and Airflow Changes in the Guinea Pig Model of Citric Acid-Induced Cough.** Mary Mcelroy (Edinburgh (Edinburgh), United Kingdom), Laurence Tilley, Kirsten Maclellan, Kirsten Cormack, Louise Cowan, Angela Marsden, James Punton, Aileen Milne
1285	**The anatomy of asthma-related nocturnal cough – a potential new digital biomarker** Frank Rassouli (Speicher, Switzerland), Peter Tinschert, Filipe Barata, Claudia Steurer-Stey, Elgar Fleisch, Milo Puhan, Tobias Kowatsch, Martin H Brutsche
1286	**Prevalence of urinary incontinence in women seeking evaluation for chronic cough** Peter Dicpinigaitis (New York, United States of America)
1287	**The effect of Octreotide in patients with refractory Chronic Cough** Alyn Hugh Morice (Cottingham, United Kingdom), Asmaa Loonat, Caroline Wright
1288	**Pulmonary abnormalities in newly diagnosed rheumatoid arthritis** Charlotte Hyldgaard (Åbyhøj, Denmark), Jesper Blegvad, Mette Herly, Dzenan Masic, Brian Løgstrup, Bjørk Khaliqi, Grazina Urbonaviciene, Frank Andersen, Christin Isaksen, Behrouz Almasi, Torkell Ellingsen
1289	**Plethysmographic profile of patients with rheumatoid arthritis (RA): a comparative study between ACPA positive and negative patients** Ketfi Abdelbassat (Alger, Algeria), Djouadi Cherifa, Gharnaout Merzak, Ben Saad Helmi
1290	**Is the unclassifiable obstructive airway more similar to asthma than COPD?** Debkanya Dey (Kolkata (West Bengal), India), Sayoni Sengupta, Dipanjan Saha, Sikta Mukherjee, Mintu Paul, Parthasarathi Bhattacharyya
1291	**Inflammatory bowel diseases in COPD patients.** Antonina Berdyugina (Barnaul, Russian Federation), Elena Klester, Karolina Klester, Valery Elykomov, Irina Belova
1292	**A study of hematologic disorders in patients with chronic obstructive pulmonary disease** Warritha Limsirisawat (Samutprakarn, Thailand), Pichaya Petborom, Sirapat Tulatamakit, Manaphol Kulpraneet, Suthat Rungruanghiranya, Kanokwann Preedapornpakorn
1293	**Markers of T2-inflammation in patients with severe asthma and concomitant COPD** Galina Sergeeva (St. Petersburg, Russian Federation), Alexander Emelyanov, Eugenia Leshenkova, Antonina Znakhurenko
1294	**Predictors of exacerbations in chronic obstructive pulmonary disease - a first single-centre experience in Croatia** Davorka Mursic (Zagreb, Croatia), Fran Stjepan Naranda, Ivana Milosevic, Ivona Markelic, Mateja Jankovic Makek, Ana Hecimovic, Visnja Dukic, Miroslav Samarzija, Andrea Vukic Dugac

1295 **Definition of COPD phenotype depending on eosinophil count**
Markus Polke (Heidelberg, Germany), Nilab Polke, Matthias Rötting, Vasiliki Gerovasili, Ralf Eberhardt, Felix J F Herth, Daniela Gompelmann

Pre-congress content Session 103 00:00 - 23:59

E-poster session: Air pollution as a cause of respiratory disease

Disease(s) : Airway diseases Respiratory critical care

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

Chairs : Mulubirhan Assefa Alemayohu (Verona, Italy), Rafael E. de la Hoz (New York, United States of America)

1296 **Alteration in the balance between type 1 and type 2 immune responses among lead exposed population**
Yehia Yasseen Zakaria (Cairo, Egypt)

1297 **Quality of life features in patients with asthma in urban and rural areas**
Natalia L. Perelman (Blagoveshchensk (Amur Oblast), Russian Federation), Juliy M. Perelman

1298 **Responses in human bronchial mucosa after short-term exposure to wood smoke.**
Alva Hansson (Umeå, Sweden), Jamshid Pourazar, Maria Sehlstedt, Gregory Rankin, Robert Lindgren, Christoffer Boman, Anders Blomberg, Annelie F Behndig, Thomas Sandström, Ala Muala

1299 **Indoor air pollutants and respiratory outcomes among adult Pakistani papulation: A cross sectional survey**
Unaib Rabbani (Buraidah, Saudi Arabia), Shama Razzak, Peter Burney, Asaad Ahmed Nafees

1300 **Link between fine particulate matter in ambient air and health-related contacts in Sofia's ambulance, outpatient and hospital emergency services.**
Alexander Simidchiev (Sofia, Bulgaria), Carolina Ljubomirova, Alexandra Vodenicharova, Todor Kundurzhiev, Nevena Tzacheva

1301 **Exposure to PM2.5 and PM2.5-bound PAHs and its influence on respiratory tract function and cytokines concentrations changes in healthy adults.**
Artur Badyda (Warszawa, Poland), Andrzej Chciałowski, Piotr Dąbrowiecki, Adam Stańczyk, Piotr Oskar Czechowski

1302 **Pulmonary effects of volcanic air pollution**
Melissa Silva-Medina Weil (Cali, Colombia), Mauricio Palacios, Vicente Benavides

1303 **Upper respiratory symptoms in children (3-12 years old) exposed on different levels of ambient particulate matter.**
Artur Badyda (Warszawa, Poland), Wojciech Feleszko, Aleksandra Ratajczak, Piotr Oskar Czechowski, Adam Czarnecki, Michał Dubrawski, Anna Dąbrowska

1304 **The infiltration of inflammatory cells in the apparently normal bronchial mucosa in anthracotic patients after discontinuation of exposure to fossil fuel: a prospective study**
Mohammad Samet (Yazd, Islamic Republic of Iran), Fariba Binesh, Sanaz Zand

1305 **Association between air pollution levels and the number of Emergency Department visits for asthma exacerbations**
Ana Gómez García (Valladolid, Spain), Tomás Ruiz Albi, Raul López Izquierdo, Ana Cerezo Hernández, Daniel Álvarez González, Fernando Moreno Torrero, Andrea Crespo Sedano, Jose Ignacio Santos Plaza, Félix Del Campo Matías

1306 **Image registration based QCT characterization of the lungs of biomass cooks**
Abhilash Kizhakke Puliyakote (Santee, United States of America), E. M. Stapleton, M. Bilas, N. Metwali, M. Jeronimo, I.M. Thornell, R. B. Manges, S. Suresh, K. Durairaj, K. Karuppusamy, K. Geetha, A. Sirajunnisa, K. Shanmugam, P. S. Thorne, T. M. Peters, A. P. Comellas, Eric A. Hoffman

1307 **COPD exacerbations are related to poor air quality in Innsbruck**
Anna Boehm (Innsbruck, Austria), Alex Pizzini, Thomas Sonnweber, Magdalena Aichner, Sabina Sahanic, Ivan Tancevski, Michael Joannidis, Guenter Weiss, Judith Loeffler-Ragg

1308 **Exposure biomarkers in a pig model of chlorine inhalation injury**
Sven-Eric Jordt (Durham, NC, United States of America), Carolyn J. Albert, Kevin A. Schultz, David A. Ford, Rakesh Patel, Satyanarayana Achanta

1309 **Annoyance from winter atmospheric pollution created from wood burning for heating**
Efthimios Zervas (Patra, Greece), Efi Drimili, Zoe Gareiou

1310 **RURAL AND URBAN ASTHMA: ARE THEY DIFFERENT?**
Christian Eduardo Romero Mesones (Barcelona, Spain), Galo David Granados Rosales, María Jesús Cruz Carmona, Iñigo Ojanguren Arranz, Miquel De Homdedeu Cortes, Silvia Sánchez Díez, Donghai Ma, Xavier Muñoz Gall

1311 **Association between long standing heavy traffic exposure and respiratory symptoms and airway inflammation in older adults and elderly**
Regiani Carvalho Oliveira (São Paulo (SP), Brazil), Luís Fernando Amato-Lourenço, Pamela Souza Almeida, Bianca B.M. Garcia, Willian K.M. Vieira, Martha Cristina Motta Godinho-Netto, Maria E. Carretero, Thais Mauad, Paulo H. Nascimento Saldiva

Pre-congress content Session 104 00:00 - 23:59

E-poster session: Smoking disease landscape: from inflammation to lung function and comorbidities

Disease(s) : Sleep and breathing disorders Airway diseases

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

Chairs : Athanasia Pataka (Thessaloniki, Greece), Mateusz Jankowski (Warsaw, Poland)

1312 **Effects of smoking cessation on spirometry in mild to moderate COPD**
Sourav Datta (Hooghly, India), Susmita Kundu, Falguni Mandi

1313 **Does Smoking Cessation affect symptoms and FEV1 in smokers with mild COPD?**
Anna Khomenya (Omsk, Russian Federation), Maria Vershinina, Olga Foronosova

1314 **The impact of smoking habits and secondhand smoke exposure on smoking biomarkers**
Raquel Barros (Lisboa, Portugal), Ana Sofia Oliveira, Cristina Bárbara

1315 **Load characteristics and inhalation risk assessment of benzene series (BTEX) pollutant in indoor air of Water pipe and cigarette compared to smoke free cafés**
Gholamreza Heydari (Tehran, Islamic Republic of Iran)

1316 **Gender characteristics of smokers with COPD.**
Elizaveta Volchkova (St. Petersburg, Russian Federation), Olga Sukhovskaya , Olga Titova, Valery Kulikov , Marya Smirnova

1317 **The prevalence of respiratory symptoms and smoking among young people in Moscow**
Maryana Tubekova (Moscow, Russian Federation), Tatiana Bilichenko, Maryana Tubekova

1318 **Clinical, Functional and Radiological Findings in Smokers with Mild COPD: what lies behind FEV1/FVC Ratio less than 70%**
Maria Vershinina (Omsk, Russian Federation), Anna Khomenya, Olga Foronosova

1319 **ß-Escin and chokeberry extract diet supplementation in healthy smokers as potential anti- inflammatory and antioxidant protection – a pilot study.**
Malwina Sołtysiak (Warszawa, Poland), Magdalena Paplińska-Goryca, Katarzyna Koziak, Rafał Krenke

1320 **Are there any changes in the lung age after the end of the tobacco habit?**
Maria Betran Orduna (Zaragoza, Spain), Maria Fernando Moreno, Marta Miranda Hernandez, Teresa Lanzuela Benedicto, Marta Martin Lana, Guillermo Samuel Loscertales Vacas, Virginia Moya Alvarez, Jesus Guzman Aguilar

1321 **The impact of tobacco smoking on increased body weight in the residents of the Yamal Nenets Autonomous Okrug, Russia**
Sergey Andronov (Nadym (Yamal-Nenets), Russian Federation), Elena Bogdanova, Andrei Lobanov, Andrei Popov, Ruslan Kochkin

1322 **Relation Between Respiratory Function, Tobacco Consumption, Exercise Habits, and Sleep Quality in Healthy Young Adult Men**
Merve Dinç (Istanbul, Turkey), Kübra Nur Menengiç

1323 **Smoking habits in high cardiovascular risk patients**
Stefan A. Mihaicuta (Timisoara (Timis), Romania), Roxana Maria Pleava, Stefan Frent, Carmen Ardelean, Svetlana Mosteoru, Dan Gaita

1324 **Smoking and oxidative stress markers useful for improving anxiety and depression disease outcomes**
Letitia Trofor (Iasi (Iasi), Romania), Ioana Buculei, Ionela-Alina Grosu-Creanga, Mona Elisabeta Cioroiu, Antigona Trofor

1325 **Systemic inflammation in COPD in relation to smoking status**
Touil Imen (Mahdia, Tunisia), Touil Imen, Keskes Boudawara Nadia, Baccari Mohamed Amine, Nemsi Elaa, Romdhani Raja, Ben Rhouma Chaima, Knani Jalel, Boussoffara Leila

1326	**Exposure of Drosophila melanogaster to cigarette smoke extract changes its sexual behavior.** Sotirios Zarogiannis (Larisa, Greece), Athanasios-Stefanos Giannopoulos, Lydia Giannakou, Natalia Gourgouliani, Stefan Lüpold, Erasmia Rouka, Rajesh Jagirdar, Eleanna Pitaraki, Chrissi Hatzoglou, Konstantinos Gourgoulianis, Wolf Blanckenhorn
1327	**Epidemiology, risk factors, and clinical parameters of non-smoker COPD patients.** ANUJ KUMAR PANDEY (Lucknow, India), Ajay Kumar Verma, Surya Kant, Rakesh Kumar Dixit, Arpita Singh, Umesh Pratap Singh, Ved Prakash, Shyam Chand Chaudhary
1328	**Sleep disturbances as a predictor of smoking cessation** Shadi Amid Hägg (Uppsala, Sweden), Mirjam Ljunggren, Christer Janson, Eva Lindberg
1329	**Smoking in Obstructive Sleep Apnea Syndrome: gender differences** Athanasia Pataka (Thessaloniki, Greece), George Kalamaras, Seraphim Kotoulas, Evaggelos Chatzopoulos, Ioanna Grigoriou, Nikolaos Chavouzis, Despoina Ioannidou, Katalin Fekete, Paraskevi Argyropoulou
1330	**Smoking and alcohol consumption during pregnancy. The situation in Greece** Paraskevi Katsaounou (Athens, Greece), Athina Diamanti, Katerina Lykeridou, Vasilios Raftopoulos

Pre-congress content Session 105 00:00 - 23:59

E-poster session: Pathophysiology and treatment of obstructive sleep apnoea

Disease(s) : Sleep and breathing disorders

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

Chairs : Manuel Sanchez De La Torre (Lleida, Spain), Oana Claudia Deleanu (Bucharest, Romania)

1331	**Inhibition of miR-34a protects human umbilical vein endothelial cells against intermittent hypoxia-induced endothelial injury by targeting ATG7** Qingshi Chen (Quanzhou, China), Guofu Lin, Hai Lin, Qichang Lin
1332	**Inhibition of LncRNA MALAT1 Protects H9c2 Cells against Intermittent Hypoxia-Induced Injury by Targeting MiRNA-193a-3p** Qingshi Chen (Quanzhou, China), Guofu Lin, Hai Lin, Qichang Lin
1333	**The role of complement factor H and clusterin in obstructive sleep apnoea** Andras Bikov (Budapest, Hungary), Martina Meszaros, Peter Horvath, Zsofia Lazar, David Tarnoki, Adam Tarnoki, Adrian Kis, Laszlo Kunos
1334	**The role of hyaluronan metabolism in obstructive sleep apnoea** Martina Meszaros (Budapest, Hungary), Zsofia Lazar, Adam Domonkos Tarnoki, David Laszlo Tarnoki, Adrian Kis, Laszlo Kunos, Andras Bikov
1335	**Peculiarities of GABA levels in plasma and urine of asthma patients with obstructive sleep apnea** Elizaveta Sheludko (Blagoveshchensk (Amur Oblast), Russian Federation), Denis Naumov, Dina Gassan, Olesya Kotova, Juliy Perelman
1336	**IFN? involvement in adipogenesis of OSA patients** Yan Wang (, China), Xiaolei Zhang
1337	**Association of obstructive sleep apnea hypopnea syndrome with cardiovascular disease: a candidate gene association study** Dimitrios Raptis (Larissa, Greece), Foteini Malli, Georgia Rapti, Dimitra Siachpazidou, Chrysoula Marogianni, Zoe Daniil, Ilias Dimeas, Gregory Giamouzis, Chaido Pastaka, Georgia Xiromerisiou, Konstantinos I. Gourgoulianis
1338	**Socioeconomic factors and adherence to Continuous Positive Airway Pressure - a population-based cohort study** Andreas Palm (Gavle, Sweden), Ludger Grote, Mirjam Ljunggren, Josefin Sundh, Jenny Theorell_haglöw, Magnus Ekström
1339	**CPAP and me: what's wrong?** Paolo Righini (Torino (TO), Italy), Valter Gallo, Giovanni Maria Ferrari, Diletta Favero, Alessandro Oliva, Sonia Bassini, Roberto Prota
1340	**CPAP usage patterns in OSA patients with suboptimal adherence** Matteo Bradicich (Basel, Switzerland), Fabian Alexander Grewe, Thomas Gaisl, Maurice Roeder, Sira Thiel, Noriane Andrina Sievi, Malcolm Kohler
1341	**Adherence predictors to positive airway pressure (PAP) treatment in patients with obstructive sleep apnea (OSA).** Ana Daniela Lopes (Porto (Porto), Portugal), Nuno Cortesão, Iola Pinto, Margarida Dias, Isabel Teixeira

1342	**Abandon of the arousal index for continuous positive airway pressure prescription and refund decreases short-term adherence to the treatment** Giuseppe Liistro (Bruxelles, Belgium), Augustin Dermine
1343	**Adherence to Continuous Positive Airways Pressure (CPAP) in mild obstructive sleep apnoea (OSA)** Shirley Coelho (Viana do Castelo, Portugal), Richard Glover, Maximilian Thomas, Yasmin Khan, Deyashini Mukherjee, Alain Al Helou, Mindi Daniels, Simon Wharton, Rahul Mukherjee
1344	**Tele-monitoring system implementation in continuous positive airway pressure therapy in Asian obstructive sleep apnea** Worawat Chumpangern (Bangkok, Thailand), Naricha Chirakalwasan
1345	**Impact in adherence to CPAP treatment of a specific consultation for patients with severo obstructive sleep apnoea** Jesus Lancha Dominguez (Huelva, Spain), Maria Morón Ortiz, Roberto Del Pozo Rivas, Byron Enrique Urizar Catalán, Jessica Ivana Hilares Vera
1346	**FOLLOW-UP OF OBSTRUCTIVE SLEEP APNEA TREATMENT: DIFFICULTIES FACED BY PRIMARY CARE UNITS** Alexandre Manuel Carvalho da Silva Almendra (Braga, Portugal), Cátia Pereira, João Carvalho, Paula Pinto, Cristina Bárbara
1347	**COMPLIANCE OF A NEW VIBRATIL DEVICE IN PATIENTS WITH POSTURAL SLEEP APNEA. Data not show.** Laura Hidalgo Armas (Santurdejo, Spain), José Cordero-Guevara, Joaquin Durán-Cantolla
1348	**Outcome of Mandibular Advancement Device (MAD) referrals following a clinician led dental assessment in patients with Obstructive Sleep Apnoea Syndrome (OSAS)** Akshay Dwarakanath (Wakefield (West Yorkshire), United Kingdom), Amanda Witton, Lesley Earnshaw, Angela Upson, Corraine Ledgway, Mohammed Khan, Anthony Johnson

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

E-poster session: Digital health interventions in respiratory medicine

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

Method(s) : General respiratory patient care | Epidemiology | Public health | Physiology | Imaging | Pulmonary rehabilitation

Chairs : Holger Woehrle (Ulm, Germany), Sara Lundell (Umeå, Sweden)

1349	**Is Virtual Autonomous Physiotherapist Tele-rehabilitation Program in Chronic Obstructive Pulmonary Disease equal to Hospital-Based Pulmonary Rehabilitation?** Jose Cerdán de las Heras (Aarhus C, Denmark), Fernanda Balbino, Ole Hilberg, Anders Løkke, Elisabeth Bendstrup
1350	**Feasibility of an asthma app to monitor medication adherence** Cristina Isabel Oliveira Jácome (Viatodos, Portugal), Rute Almeida, Rita Amaral, Ana Margarida Pereira, Carmen Vidal, Sara López Freire, Paula Méndez Brea, Darío Antolín-Amérigo, Belén De La Hoz Caballer, Alicia Barra Castro, David Gonzalez-De-Olano, Ana Todo Bom, João Azevedo, Paula Leiria Pinto, Nuno Neuparth, Filipa Todo Bom, Alberto Costa, Cláudia Chaves Loureiro, Ana Arrobas, Margarida Valério, João Cardoso, José Carlos Cidrais Rodrigues, Georgeta Oliveira, Joana Carvalho, Ana Mendes, Carlos Lozoya, Natacha Santos, Fernando Menezes, Ricardo Gomes, Rita Câmara, Rodrigo Rodrigues Alves, Ana Sofia Moreira, Diana Bordalo, Carlos Alves, Didina Coelho, José Alberto Ferreira, Cristina Lopes, Diana Silva, Maria João Vasconcelos, Maria Fernanda Teixeira, Luís Taborda-Barata, Maria José Cálix, Adelaide Alves, João Almeida Fonseca
1351	**Application of text analytics for identification of respiratory diseases in medical claims** KameshwarRao P (Pune, India), Nagesh Dhadge, Pinaki Sengupta, Uday Kelkar
1352	**What features do patients and clinicians 'want' in the future Internet-Of-Things (IoT) systems for asthma: a mixed method study** Chi Yan Hui (Edinburgh (Edinburgh), United Kingdom), Brian Mckinstry, Olivia Fulton, Mark Buchner, Hilary Pinnock
1353	**Patient engagement with an asthma app to improve inhaler adherence** Cristina Isabel Oliveira Jácome (Viatodos, Portugal), Rute Almeida, Rita Amaral, Ana Margarida Pereira, Ana Todo Bom, João Azevedo, Paula Leiria Pinto, Nuno Neuparth, Filipa Todo Bom, Alberto Costa, Cláudia Chaves Loureiro, Ana Arrobas, Margarida Valério, João Cardoso, José Carlos Cidrais Rodrigues, Georgeta Oliveira, Joana Carvalho, Ana Mendes, Carlos Lozoya, Natacha Santos, Fernando Menezes, Ricardo Gomes, Rita Câmara, Rodrigo Rodrigues Alves, Ana Sofia Moreira, Diana Bordalo, Carlos Alves, Didina Coelho, José Alberto Ferreira, Cristina Lopes, Diana Silva, Maria João Vasconcelos, Maria Fernanda Teixeira, Luís Taborda-Barata, Maria José Cálix, Adelaide Alves, João Almeida Fonseca
1354	**Self-administration of biologics for severe asthma – development of an app – a qualitative study** Kristina Kock Hansen (Vejle, Denmark), Louise Ulrich, Celeste Porsbjerg, Anders Christiansen, Ole Hilberg

1355	**Wearable electrical impedance tomography for chest monitoring** Inez Frerichs (Kiel, Germany), Barbara Vogt, Josias Wacker, Rita Paradiso, Fabian Braun, Michael Rapin, Laura Caldani, Olivier Chételat, Norbert Weiler
1356	**A Patient Feedback Driven, Stacked Machine-Learning Approach to At-Home COPD Triage** Sumanth Swaminathan (New York, United States of America), James Morrill, Klajdi Qirko, Ted Smith, Nicholas Wysham, Botros Toro
1357	**Impact of smart digital therapy feedback, motivation and assistance on CPAP adherence: a randomized-controlled trial** Anne Gruenewald (, Germany), Ulrich Brandenburg, Ruediger Alshut, Matthias Schwaibold, Regina Schaefer, Alexander Grimm, Chrisitan Franke
1358	**Clinical feasibility study utilizing multi-sensor devices with the goal of developing remote monitoring digital health solutions for patients with asthma or COPD** Pankaj Goyal (Basel, Switzerland), Francesc Calvo, Mojdeh Maboudian, Tianmeng Lyu, Mike Rinderknecht, Bjoern Holzhauer, Greg Plante, Brian Kelly, Gerald Bacher
1359	**Do technologies make a difference in adherence to treatment: instant messaging application use?** Kostiantyn Dmytriiev (Vinnitsya, Ukraine), Nataliia Slepchenko, Yuriy Mostovoy, Nataliia Tsymbaliuk, Andrii Sidorov, Mariia Shostatska
1360	**Blended care results in an improved adherence of an eHealth Platform by COPD patients** Cathelijne van Zelst (Rotterdam, Netherlands), Esther Van Noort, Niels Chavannes, Hans In 'T Veen, Marise Kasteleyn
1361	**A digital inhaler uncovering patterns of SABA use in asthma and COPD** Mark L. Levy (London, United Kingdom), Henry Chrystyn, Guilherme Safioti, Michael Depietro, Randall Brown, Tanisha Hill, Lena Granovsky, Michael Reich, Sinthia Bosnic-Anticevich
1362	**Mobile games increases knowledge, attitude and positive behaviors of the children with respiratory disorders and their families.** Kazi Raiyan Mahmud (, Bangladesh), Kazi Faisal Mahmud, Fatema Zannat, Mostafizur Rahman, Fatema Rafat, Kazi Faiyad Mahmud, Kazi Fahim Mahmud, Rumana Afroze, Nishat Jahan
1363	**Real-time monitored patient adherence to an eHealth self-management intervention in patients with COPD and heart failure** Joanne M. Sloots (Enschede, Netherlands), Job Van Der Palen, Mirthe Bakker, Michiel Eijsvogel, Gerard Linssen, Paul Van Der Valk, Clara Van Ommeren, Monique Tabak, Tanja Effing, Anke Lenferink
1364	**An electronic alert to reduce excessive prescribing of short-acting beta2-agonists for people with asthma in East London: a retrospective case-control study using routine primary care data** Shauna McKibben (London, United Kingdom), Andy Bush, Mike Thomas , Chris Griffiths
1365	**RECEIVER trial: positive early experience and sustained patient engagement with a digital service model for COPD management** Anna Taylor (Glasgow, United Kingdom), Anna Taylor, Rebecca Scott, Grace Mcdowell, Paul Mcginness, David Lowe, Chris Carlin
1366	**Use of online questionnaires, social networks and messengers for quick collecting epidemiological data among young people** Anna V Demchuk (Vinnytsia, Ukraine), Illia Glivenko, Olha Yaroslavska, Vitalii Poberezhets, Yuriy Mostovoy
1367	**COPD patient tele-monitoring using interactive questionnaires and electronic patient record** Vitaly Mishlanov (Perm, Russian Federation), Ksenia Bekker, Anastasia Katkova

Pre-congress content Session 107 00:00 - 23:59

E-poster session: Epidemiology of tobacco use and the role of health professionals in tobacco control

Disease(s) : Airway diseases

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

Chairs : Asl Görek Dilekta l (Bursa, Turkey), Constantine Vardavas (Heraklion, Greece)

1368	**Evaluation of Smoking and Other Tobacco Product Habits of Ege University Faculty of Health Sciences Students: A cross-sectional Survey Study** Alev Gürgün (Bornova - Izmir, Turkey), Funda Elmas Uysal, Hur Hassoy, Zafer Güdük, Nazmiye Cıray, Isıl Ergin, Gunay Anacak, Nurcan Buduneli, Murat Urhan, Volkan Karadağ, Batuhan Ata

1369	**Characteristics of hookah smokers according to their dual tobacco products 'cigarettes' use** Dilek Karadoğan (Rize, Turkey), Yalçın Kanbay, Özgür Önal, Deniz Say Şahin
1370	**PATTERNS OF TOBACCO USE AMONG SPANISH SECONDARY SCHOOL STUDENTS** Natalia Pascual Martinez (Cordoba, Spain), Silvia Martín Bote, María Melgar Herrero, Cristina Gómez Rebollo, Cristina Villalba Moral, Rafael Castro Jiménez
1371	**Factors and concepts associated with the start of cigarette smoking in university students** Giovanni García Castro (Pereira, Colombia), Angela María Giraldo Montoya
1372	**Use of digital technologies for evaluating prevalence of various types of nicotine usage among young people** Viktoriia Davydova (Vinnytsia, Ukraine), Tetyana Shypovych, Anna Demchuk, Vitalii Poberezhets, Yuriy Mostovoy
1373	**Prevalence of Electronic-cigarette smoking in Thai college student** Chatuthanai Savigamin (Bangkok, Thailand), Jedsadakorn Jitwimungsanon, Thanapoom Rattananupong, Chanchai Sittipunt, Thitiwat Sriprasart
1374	**Electronic cigarette (ecig) and university students. Prevalence, beliefs and use characteristics.** Santiago Antonio Juarros Martinez (Simancas, Spain), Beatriz Villaescusa González, Maria Isabel Muñoz Diez, Belen Muñoz Díaz, Eva María Rueda Dominguez, Milagros Del Olmo Chiches, María José Chourio Estaba, Lourdes Del Rio Sola
1375	**Relationship between cigarette advertising exposure, harmful tobacco knowledge and smoking status of the sixth grade elementary school students in Bandar Lampung, Indonesia.** Retno Ariza Soemarwoto (Bandar Lampung, Indonesia), Syazili Mustofa, Marisa Anggraini, Hetti Rusmini, Fransisca Sinaga, Siti Alya L.C Siti Alya L.C Mokoagow
1376	**Continuous effect of migrant crisis on smoking status among migrants** Deska T. Dimitrievska (Skopje, North Macedonia), Monika Tushevska Mitkovska, Marija Zdraveska, Nikola Chamurovski, Ana Lazarevska
1377	**Prevalence of tobacco use and its determinants among adults = 18 years in an urban slum of Lahore, Pakistan: WHO STEPS survey** Shama Razzaq (Karachi, Pakistan), Unsa Athar, Tahseen Kazmi
1378	**Evaluation of smoking habits of parents of patients with chronic lung and respiratory tract diseases** Setenay Akyuzluer Gunes (Ankara, Turkey), Gizem Ozcan, Fazilcan Zirek, Nazan Cobanoglu
1379	**Vaping: more than smoke and mirrors?** Nitika Kaushal (Bexleyheath (Kent), United Kingdom), Burhan Khan
1380	**Characteristics of prevalence and motivation for Smoking among schoolchildren of the Altai region.** Elena Klester (Barnaul (Altai Region), Russian Federation), Karolina Klester, Valeriy Elykomov
1381	**Survey on smoking among students of the medical school of medicine & pharmacy in Agadir-Morocco** Hind Serhane (Marrakech, Morocco), Fatiha Bounoua, Khadija Aitnasser, Houda Moubachir
1382	**Investigation of nicotine delivery devices usage among adults in Ukraine** Sergii Zaikov (Kyiv, Ukraine), Artemii Bogomolov, Sergii Zaikov
1383	**Smoking and use of electronic cigarettes by healthcare workers in Tunisia** Nesrine Fahem (Monastir (Gouvernorat de Monastir), Tunisia), Lobna Loued, Ahmed Ben Saad, Asma Migaou, Saoussen Cheikhmhamed, Maroua Ammar, Safa Ben Khaled, Jihen Ayeb, Rim Bouguezzi, Hiba Mosbeh, Mohamed Aouina, Samah Joobeur, Naceur Rouatbi
1384	**Frequency and attitudes towards Heated Tobacco Products among medical students – preliminary results.** Paulina Majek (Katowice, Poland), Grzegorz Brożek, Mateusz Jankowski, Bartłomiej Nowak, Maciej Nowak, Piotr Nakiela, Andrzej Swinarew, Jan Eugeniusz Zejda
1385	**Exposure to E-cigarettes advertisement and product use in Russian population: results from Russian Tobacco Control Policy evaluation survey** Marine Gambaryan (Moscow, Russian Federation), Anna Kalinina, Marina Popovich, Michail Startovoytov, Oxana Drapkina
1386	**Cigarette smoking and the female gender: What has changed in 10 years?** Ana Luisa Ramos Costa e Silva (Lisboa, Portugal), Margarida V. Matias, Ana Margarida Mestre, Joana Carvalho, Ana Filipa Santos, Cristina Matos, Fernando Nogueira

Pre-congress content Session 108 00:00 - 23:59

E-poster session: Risk factors for chronic lung diseases

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

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

Chairs : Mulubirhan Assefa Alemayohu (Verona, Italy), Chair to be confirmed

1387	**The increase of allergic sensitization in school children in Northern Sweden has leveled** Eva Rönmark (Luleå, Sweden), Joakim Bunne, Anders Bjerg, Martin Andersson, Rebecca Johansson, Bo Lundbäck, Linnea Hedman
1388	**Emphysema is associated with increased risk of desaturation in 6 min walk test in COPD patients** Marie Johanne Waatevik (Bergen, Norway), Bente Frisk, Francisco Real, Jon Hardie, Per Bakke, Tomas Eagan, Ane Johannessen
1389	**Effects of short-term exposure to Particulate Matter on Emergency Department admissions for Asthma Exacerbation** Laura Pini (Brescia (BS), Italy), Jordan Franz Giordani, Carlo Concoreggi, Elena Zanardini, Alessandro Pini, Pietro Piovanelli, Guido Levi, Leonardo Pedroni, Manuela Ciarfaglia, Claudio Tantucci
1390	**Painting, ETS and building age as related to incidence of respiratory symptoms** Juan Wang, Christer Janson, Rain Jogi, Bertil Forsberg, Thorarinn Gislason, Mathias Holm, Andrei Malinovschi, Vivi Schlünssen, Cecilie Svanes, Karl Franklin, Dan Norbäck
1391	**Exercise-induced airway symptoms in young athletes; a follow-up from first to third year in sports high school** Karin Ersson (Uppsala, Sweden), Henrik Johansson, Elisabet Mallmin, Leif Nordang, Andrei Malinovschi
1392	**Asthma with and without rhinitis and eczema in adults: prevalence, sensitization profile, and risk factors** Teet Pullerits (Göteborg, Sweden), Erik P Römark, Linda Ekerljung, Helena Backman, Hannu Kankaanranta, Madeleine Rådinger, Bo Lundbäck, Bright Nwaru
1393	**A mendelian randomization study of BMI and asthma exacerbations in children** Cristina Longo (Amsterdam, Netherlands), Susanne Vijverberg, Anke H. Maitland-Van Der Zee
1394	**Influence of agricultural and grey spaces proximity on allergic rhinitis, asthma and COPD: a population-based study** Sandra Baldacci (Pisa (PI), Italy), Sara Maio, Anna Angino, Eija Parmes , Juha Pärkkä, Giancarlo Pesce, Cara Nichole Maesano, Isabella Annesi-Maesano, Giovanni Viegi
1395	**Underdiagnosis and misclassification of COPD in Sweden** Malin Axelsson (Malmö, Sweden), Helena Backman, Lowie Vanfleteren, Caroline Stridsman, Linda Ekerljung, Berne Eriksson, Bright Nwaru, Eva Rönmark, Hannu Kankaanranta, Anne Lindberg, Bo Lundbäck
1396	**Clinical outcome of adult onset asthma in a 15 year follow-up** Linnéa Almqvist (Boden, Sweden), Helena Backman, Caroline Stridsman, Anne Lindberg, Bo Lundbäck, Eva Rönmark, Linnea Hedman
1397	**Natural history of disease burden for US patients with asthma vs asthma and COPD** Eugene R. Bleecker (Winston-Salem, United States of America), Kevin Murphy, Hitesh N. Gandhi, Ileen Gilbert, Joseph Zein, Joan Reibman, Geoffrey Chupp
1398	**Challenges in defining early COPD in the general population: Findings from the Copenhagen General Population Study** Yunus Çolak (Herlev, Denmark), Shoaib Afzal, Børge G. Nordestgaard, Peter Lange, Jørgen Vestbo
1399	**Asthma in adults: association of asthma symptoms and age at asthma diagnosis** Hanna Hisinger-Mölkänen (Tuusula, Finland), Jasmin Honkamäki, Hannu Kankaanranta, Leena E Tuomisto, Anssi Sovijärvi, Eva Rönmark, Bo Lundbäck, Helena Backman, Heidi Andersen, Ari Lindqvist, Lauri Lehtimäki, Paula Pallasaho, Pinja Ilmarinen, Päivi Piirilä
1400	**Life-years lost due to asthma and COPD** Sven-Arne Jansson (Umeå, Sweden), Linnea Hedman, Caroline Stridsman, Malin Axelsson, Anne Lindberg, Bo Lundbäck, Eva Rönmark, Helena Backman
1401	**LOW LUNG FUCTION AT EARLY ADULTHOOD DOESN´T CHANGE DURING FOLLOW-UP. Results from Lung Development Cohort- University of Granada** Pedro José Romero Palacios (PELIGROS, Spain), Oliverio Ruiz Rodriguez, Juan Antonio Holgado Terriza, Bernardino Alcazar Navarrete
1402	**Association between birth weight and lung function in middle age** Melvin Tandra (Melbourne, Australia), Michael Abramson, Adrian Lowe, Haydn Walters, Paul Thomas, Gayan Bowatte, Jenny Perret, Shyamali Dharmage, Dinh Bui

1403	**Association between airflow limitation severity and comorbidities in Japanese men** Hisamitsu Omori (Kumamoto, Japan), Ayumi Onoue, Yoshiaki Shinonome, Kazuhiko Watanabe, Kenichi Kubota, Toshinari Hayashi, Tohru Tsuda

Pre-congress content Session 109 00:00 - 23:59

E-poster session: Clinical and laboratory pharmacology in asthma

Disease(s) : Airway diseases

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

Chairs : Salman Siddiqui (Leicester, United Kingdom)

1404	**Late Breaking Abstract - Cardio-selective beta1-blockers in asthma: a search of the World Health Organization Global Database of Individual Case Safety reports (VigiBase)** Miriam Bennett (manchester, United Kingdom), Catherina Chang, Michael Tatley, Ruth Savage, Robert Hancox
1405	**Oral corticosteroid prescription in asthma: Swiss situation** Claudio Schuoler (Zug, Switzerland), Jörg D. Leuppi, Thomas Rothe, Anja Jochmann, Christian Clarenbach, Claudia Steurer-Stey, Florian Charbonnier, Hans-Werner Duchna, Pierre-Olivier Bridevaux, Vitaly Chicherov, Maria Korobeynikova, Stefan Wetzel, Caroline Leuenberger, Gunther Pendl
1406	**Icaritin inhibited ovalbumin-induced airway inflammation in murine model** Dong Yao (Guilin, China), Bo Xiao, Guiming Zhou, Biwen Mo
1407	**Reslizumab: Effectiveness one month after first dose.** Ignacio Lobato Astiarraga (Valladolid (CL), Spain), Marco López Zubizarreta, Ana Andrés Porras, Jenifer Marcos Sierra, José Andrés Tenes Mayen, Rosa Pajares Mediavilla, Jose Ángel Tapias Del Pozo, Jesús Hernández Hernández
1408	**Assessment of biological therapy in asthma-obesity phenotype** Evgeniia Makarova (Chelyabinsk, Russian Federation), Galina Ignatova
1409	**Diagnosis and therapy of asthma bronchiale in top athletes** Éva Seres (Budapest, Hungary), Nora Sydo, Gabor Horvath, Timea Kovats, Orsolya Kiss, Bela Merkely, Veronika Muller
1410	**Budesonide/formoterol efficacy in “obese” asthma.** Kostiantyn Dmytriiev (Vinnitsya, Ukraine), Nataliia Slepchenko, Yuriy Mostovoy, Nataliia Tsymbaliuk, Andrii Sidorov
1411	**Effect of combined inhaled corticosteroid-formoterol therapy on short-acting beta2-agonist use in Poland: a retrospective analysis of pharmacy reports** Rafał Dobek (Warsaw, Poland), Wojciech Barg, Grażyna Bochenek, Grzegorz Brożek, Dorota Brzostek, Piotr Dąbrowiecki, Andrzej Dąbrowski, Radosław Gawlik, Aleksandra Kucharczyk, Izabela Kuprys-Lipińska, Agnieszka Mastalerz-Migas, Edyta Zagrajek, Marek L Kowalski
1412	**Airway autoimmunity and response to a 14-day course of oral corticosteroids in patients with severe eosinophilic asthma** Alexander Silberbrandt (Hellerup, Denmark), Manali Mukherjee, Morten Hvidtfeldt, Laurits Frøssing, Parameswaran Nair, Celeste Porsbjerg
1413	**ß2-adrenoceptor (ß2-AR) dysfunction in airway smooth muscle in severe asthma: possible role of inflammatory cytokines** Jameel Hakeem (Leicester, United Kingdom), Latifa Chachi, Fahad Alhadian, Michael Biddle, Omar Tliba, Peter Bradding, Yassine Amrani
1414	**Follow-up of patients with severe eosinophilic asthma receiving mepolizumab for one year in specialized asthma clinics in Greece.** Maria Kallieri (Aspropyrgos, Greece), Eleftherios Zervas , Konstantinos Katsoulis , Evangelia Fouka , Konstantinos Porpodis , Konstantinos Samitas , Andriana Papaioannou, Maria Kipourou , Panagiotis Lyberopoulos, Eleni Gaki , Stylianos Vittorakis , Miltiadis Markatos , Katerina Dimakou , Sevasti Ampelioti , Sofia Koukidou , Michail Makris , Maria Ntakoula , Marija Hadji Mitrova, Spyridon Papiris, Nikolaos Tzanakis , Despina Papakosta, Petros Bakakos , Stylianos Loukides
1415	**High intensity interval training control inflammation in a lung allergic model.** CLARICE ROSA OLIVO (SAO PAULO, Brazil), Pietro da Rocha Trindade, Thais F.F. Castelo, Thamyres B.P. Castro, Roseane M. Laia, Luana D. Mendonça, Jessica C. Souza, Beatriz M. Saraiva-Romanholo, Carla M. Prado, Iolanda F.C.L. Tiberio
1416	**Indacaterol/mometasone furoate combination: synergism in human hyperresponsive airway smooth muscle** Luigino Calzetta (Roma (RM), Italy), Beatrice Ludovica Ritondo, Ivan Nikolaev, Mario Cazzola, Maria Gabriella Matera, Paola Rogliani

1417	**Broncho-alveolar lavage procedure extract compounds from surrounding tissue** Erica Bäckström (Mölndal, Sweden), Britt-Marie Fihn, Teodor Erngren, Walter Lindberg, Lina Odqvist, Markus Fridén, Ken Grime
1418	**The effects of PGD2 and DK-PGD2 on features of airway remodeling in human airway epithelial cells and guinea pig lung slices** Siti Farah Rahmawati (Groningen, Netherlands), Vassiliki Verschut, Manon Woest, Huib Kerstjens, David Sandham, Reinoud Gosens, Loes Kistemaker
1419	**Progesterone-induced blocking factor as a potential therapeutic target for elderly women with asthma** Hyun Jae Shim (Seoul, Republic of Korea), Ji-Hyang Lee, Min Ju Pyo, Keun-Ai Moon, Sin-Jeong Kim, Jun-Pyo Choi, Hyouk-Soo Kwon, You Sook Cho
1420	**GB001 is a potent, insurmountable DP2 antagonist with long receptor residence time and extended pharmacodynamic effects** Sunil Sahdeo (San Diego, United States of America), Kristen Taylor Meadows, Sam Hoare, Terry Kenakin, Susan Murphy, Tomas Salter-Cid, Hector Ortega, Gregory Opiteck, Luisa Salter-Cid, Laura Carter
1421	**GB001, a selective prostaglandin D2 receptor 2 antagonist, blocks signaling in the peripheral blood of healthy subjects** Gregory Opiteck (San Diego, United States of America), Kristen Taylor Meadows, Eric Butz, Scott Sugden, Richard Aranda, Hector Ortega

Pre-congress content — Session 110 — 00:00 - 23:59

E-poster session: Comorbidities/multimorbidites and mortality in patients with chronic lung diseases

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

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

Chairs : Joan B Soriano (Madrid, Spain), Maxime Patout (Mont-Saint Aignan, France)

1422	**Predictors of mortality and exacerbations across 34 years among adults with asthma– TRAIL Cohort** Oliver Djurhuus Tupper (Søborg, Denmark), Charlotte Suppli Ulrik
1423	**Respiratory symptoms as risk factors for mortality – the Nordic EpiLung Study** Helena Backman (Lulea, Sweden), Laxmi Bhatta, Linnea Hedman, Ben Brumpton, Iida Vähätalo, Paul G Lassman-Klee, Bright Nwaru, Xiao-Mei Mai, Sigrid Anna Vikjord, Anne Lindberg, Bo Lundbäck, Eva Rönmark, Arnulf Langhammer
1424	**Implications of different CT emphysema thresholds on COPD phenotypes** Christina Due Svendsen (Bergen, Norway), Kris Ostridge, Rune Nielsen, Eli Nordeide, Terje Larsen, Karel Kj Kiuper, Tomas Mikal Eagan
1425	**Risk factors for low forced vital capacity in the multinational BOLD study: An update** Andre F.S. Amaral (London, United Kingdom), Jaymini Patel, A. Sonia Buist, Peter Burney, . On Behalf Of The Bold Collaborative Research Group
1426	**Geo–economic variations in intraoperative ventilation management – insights from a worldwide prospective cohort study** Liselotte Hol (Haarlem, Netherlands), Sabrine Hemmes, Ary Serpa Neto, Marcus Schultz
1427	**Incidence of osteoporosis and fragility fractures in asthma: a population-based matched cohort study** Christos Chalitsios (Nottingham, United Kingdom), Dominick Shaw, Tricia Mckeever
1428	**Association between obstructive syndrome and mental disorder – The PneumoLaus|PsyCoLaus study** Brice Touilloux (Lausanne, Switzerland), Alexandra Lenoir, Jean-William Fitting, Peter Vollenweider, Marie-Pierre F. Strippoli, Martin Preisig, Laurent P. Nicod
1429	**Role and impact of chronic cough in obese individuals from the general population** Eskild Landt (Koege, Denmark), Yunus Çolak, Boerge G Nordestgaard, Peter Lange, Morten Dahl
1430	**Women receiving hormone replacement therapy are at high risk of developing asthma** Erik Sören Halvard Hansen (Valby, Denmark), Kristian Aasbjerg, Amalie Lykkemark Møller, Elisabeth Gade, Christian Torp-Pedersen, Vibeke Backer

1431 **Impact of abnormal body water distribution on prognostic of Chronic Obstructive Pulmonary Disease and heart failure patients.**
Manuel Abraham Gómez Martínez (Mexico City, Mexico), Arturo Orea Tejeda, Dulce González Islas, María Elena Quintero Martínez, Valeria Ariadna Martínez Vázquez, Ilse Del Carmen Pérez García, Yael Ramiro Gastelum Ayala, Oscar Martínez Reyna, Nathalie Martínez Luna, Leslie Verdeja Vendrell, Rocio Sánchez Santillan, Viridiana Peláez Hernández

1432 **Multimorbidity in Finnish and Swedish speaking Finns – association with daily habits and socioeconomic status – A Nordic EpiLung study**
Heidi Andersén (Vaasa, Finland), Hannu Kankaanranta, Leena E Tuomisto, Päivi Piirilä, Anssi Sovijärivi, Arnulf Langhammer, Helena Backman, Eva Rönmark, Bo Lundbäck, Lauri Lehtimäki, Pinja Ilmarinen

1433 **Early life origins of lung ageing: A study of lung function decline the ECRHS and NFBC1966 cohorts**
Cecilie Svanes (Bergen, Norway), Jorunn Kirkeleit, Trond Riise, Matthias Wielscher, Julia Dratva, Simone Accordini, Anne-Elie Carsin, Angelo Guido Corsico, Karl Franklin, Matthias Holm, Christer Janson, Benedicte Leynaert, Caroline Lodge, Chantal Raherison, Francisco Gomez Real, Vivi Schlunssen, Judith Garcia-Aymerich, Shyamali Dharmage, Debbie Jarvis, Marjo-Riita Jarvelin

1434 **Long-term use of inhaled corticosteroids and the risk of type 2 diabetes in COPD**
Mohamad Isam Saeed (Copenhagen C, Denmark), Josefin Eklöf, Imane Achir, Pradeesh Sivapalan, Howraman Meteran, Anders Løkke, Tor-Biering Sørensen, Filip Krag Knop, Jens-Ulrik Stæhr Jensen

1435 **COPD phenotypes and 5-years mortality risk prediction: PALOMB Cohort**
El-hassane Ouaalaya (Merignac, France), Maéva Zysman, Émilie Berteaud, Laurent Falque, Laurent Nguyen, Jean Michel Dupis, Marielle Sabatini, Alain Bernady, Annaig Ozier, Cécilia Nocent-Ejnaini, Christophe Roy, Frédéric Le Guillou, Emmanuel Monge, Mohammed Aliati, Anne Prudhomme, Laura Petrov, Marie Line Quinquenel, Mohammed Staali, Frederic Pilard, Marc Sapène, Julien Casteigt, Jean Moinard, Yannick Daoudi , Esther Iglesias, Élodie Blanchard, Julie Macey, Rémi Veillon, Xavier Demant, Claire Bon, Leo Grassion, Mathieu Molimard, Chantal Raherison-Semjen

1436 **Depressive symptoms among patients with chronic obstructive pulmonary disease before and after smoking cessation – a Danish nationwide cohort study of 21 184 patients**
Jakob Hedemark Vestergaard (København N, Denmark), Pradeesh Sivapaleen, Rikke Sørensen, Josefin Eklöf, Imane Achir Alispahic, Anna Von Bülow, Niels Seersholm, Jens-Ulrik Stæhr Jensen

1437 **Longitudinal changes in appendicular skeletal muscle mass among asthma and COPD subjects: The Rotterdam Study**
G. Elizabeth Benz (Rotterdam, Netherlands), Emmely W. De Roos, Katerina Trajanoska, Sara Wijnant, Marten Van Den Berg, Maria De Ridder, Lisa Van Der Burgh, Fjorda Koromani, Nicole S. Erler, Ross Williams, Lies Lahousse, Katia Verhamme, M. Arfan Ikram, Bruno Stricker, Fernando Rivadeneira, Guy Brusselle

1438 **The association between airflow limitation and dyspnea and comorbidity related to COPD in the Nagahama study**
Mariko Kogo (Hyogo prefecture, Japan), Susumu Sato, Shigeo Muro, Natsuko Nomura, Noriyuki Tashima, Tsuyoshi Oguma, Kimihiko Murase, Takahisa Kawaguchi, Yasuharu Tabara, Fumihiko Matsuda, Kazuo Chin, Toyohira Hirai, Hisako Matsumoto

1439 **Elevated cardiac troponin predicts 11-year mortality in COPD**
Ulf Nilsson (Umeå, Sweden), Nicholas Mills, Helena Backman, Caroline Stridsman, Linnea Hedman, Eva Rönmark, Anders Blomberg, Anne Lindberg

Pre-congress content Session 111 00:00 - 23:59

E-poster session: Tuberculosis and society

Disease(s) : Airway diseases

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

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

1440 **Non-communicable comorbidities of Tuberculosis**
Layth Al-Salihi (Baghdad, Iraq), Ahmed Mankhi

1441 **Are we ready to treat Tuberculosis in ambulatory care ?**
Ionut Stanciu (Constanta, Romania), Pohrib Ionela, Ghita Monica, Dantes Elena

1442 **Knowledge, attitudes and practices of accompanions of tuberculosis patients followed in the respiratory departement of the Hassan II university hospital.**
Hind Serhane (Marrakech, Morocco), Khadija Aitnasser, Fatiha Bounoua, Houda Moubachir

1443 **Screening of the under-served population of Luton for tuberculosis and blood-borne viruses.**
Syed Tariq (Luton (Bedfordshire), United Kingdom), Sultan Salimee

1444	**Knowledge, attitudes and perceptions survey regarding tuberculosis in hospitalized patients** Ionela-Alina Grosu-Creangă (Iasi (Iasi), Romania), Cristina Mihaela Ghiciuc, Ioana Buculei, Irina Mihaela Eșanu, Adriana Sorete Arbore, Elena Cătălina Lupușoru
1445	**Advance lung function testing: Lung Volumes(TLC) & Diffusing Capacity(DLco) diagnoses substantial pulmonary function impairment in treated Pulmonary Tuberculosis patients** Devasahayam Jesudas Christopher (Vellore (Tamil Nadu), India), Dhivya Roy, Deepa Shankar, Balamugesh Thangakunam
1446	**Tuberculosis spread among different strata of megapolis population, impact of migration** Evgeny Belilovskiy (Moscow, Russian Federation), Elena Bogorodskaya, Sergey Borisov, Aleksandra Temlyakova, Andrey Ilchenko
1447	**TB "cross-border" - a new challenge in tuberculosis management** Ioana Munteanu (Bucuresti, Romania), Beatrice Mahler, Dragos Sion, Nicoleta Cioran
1448	**Whole genome sequencing of the highly virulent subtype B0/W148 of the Beijing genotype M.tuberculosis in Kharkiv, East Ukraine** Olha Konstantynovska (Kharkiv, Ukraine), Petro Poteiko, Oleksandr Zinenko, Anton Rohozhyn, Ivan Hrek, Nataliia Rudova, Anton Gerilovych, Gerald Fischer, Luke T. Daum, Oleksii Solodiankin
1449	**Determination of the type of acetylation in adult patients with lung tuberculosis** Ksenia Galkina (Moscow, Russian Federation), Elena Nosova, Maria Krasnova, Anastasia Khakhalina, Alexandra Isakova , Svetlana Safonova
1450	**Genotype of M. tuberculosis in tuberculosis patients registered in megapolis** Evgeny Belilovskiy (Moscow, Russian Federation), Aleksandra Temlyakova, Maria Krasnova, Anastasia Khakhalina, Svetlana Safonova
1451	**DETECTION OF NONTUBERCULOSIS MYCOBACTERIA IN NATIONAL REFERENCE LABORATORY (NRL) OF UZBEKISTAN** Sanjar Sultanov (Tashkent, Uzbekistan), Nargiza Parpieva, Kazim Mukhamedov, Mukhabbat Djurabaeva, Zuhriddin Nuriddinov, Ekaterina Anvarova
1452	**Epidemiological and bacteriological characteristics of tuberculosis (TB) in the Russian Arctic (RA) region indigenous people and newcomers** Tatyana Tyulkova (Moscow, Russia, Russian Federation), Anastasiia Russkikh, Sergey Skornyakov, Katerina Kuznetsova, Vladimir Khorotetto, Zhdana Karavaeva, Irina Vasilyeva
1453	**Tuberculosis infection in renal transplant recipients and evaluation of risk factors.>** Dorina Rama Esendagli (Ankara, Turkey), Fusun Eyuboglu, Aydincan Akdur
1454	**Comparative study on the diagnostic value of a modern gamma-interferon test applied in blood and bronchoalveolar lavage in children suspected of tuberculosis - final results** Nataliya Gabrovska (Sofia, Bulgaria), Svetlana Velizarova, Albena Spasova, Dimitar Kostadinov, Hristo Shivachev, Yanko Pahnev, Zdravka Antonova
1455	**Results of tuberculosis contact tracing in a low incidence area using a Sharepoint database tool.** Rasmus Rude Laub (Virum, Denmark), Christian Niels Meyer
1456	**Study of states of leukocytes in blood of pulmonary tuberculosis patients with different efficacy of treatment.** Olga Hovardovska (Kharkiv, Ukraine), Olga Schevchenko, Lilia Todoriko, Olga Pogorelova, Olga Shvets, Iryna Ovcharenko
1457	**Quantiferon test in the complex diagnosis of tuberculosis in patients with end-stage kidney disease** Olga Gordeeva (Moscow, Russian Federation), Vladislav Hergert, Irina Lyadova, Natalya Karpina

Pre-congress content Session 112 00:00 - 23:59

E-poster session: Epidemiology and treatment of pulmonary arterial hypertension

Disease(s) : Pulmonary vascular diseases Respiratory critical care

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

Chairs : Sandeep Sahay (Houston, United States of America), Esther Jeritza Nossent (Amsterdam, Netherlands)

1458	**Drug-drug interaction study between zamicastat and sildenafil in healthy subjects** Ana Santos (Porto, Portugal), João Ferreira, Helena Gama, Paulo Magalhães, Patricio Soares-Da-Silva

1459	**LTI-201: Evaluation of the hemodynamics and safety of inhaled LIQ861 (treprostinil) in pulmonary arterial hypertension (WHO Group 1) patients** Laurent Savale (Le Kremlin-Bicêtre, France), Robert F. Roscigno, Marc Humbert, Toby Vaughn, Werner Seeger
1460	**Inspiratory flow patterns with dry powder inhalers (DPIs) of low and medium flow resistance in subjects with pulmonary arterial hypertension (PAH)** Mariana Faria Urbina (Boston, United States of America), Keith Ung, Larry Zisman, Aaron Waxman
1461	**Inspiratory flow profiles of PAH patients with AOS™ device intended to administer inhaled vardenafil** Sandeep Sahay (Houston, United States of America), Royanne Holy, Shirley Lyons, Ed Parsley, Mari Maurer, Jeff Weers
1462	**Long-term survival in pulmonary hypertension with atrial septostomy: a single center experience** Rodrigo Zebadua (Ciudad de México, Mexico), Tomas Pulido, Nayeli Zayas, Julio Sandoval, Julio Lopez, Antonio Garcia
1463	**Macitentan in incident and prevalent pulmonary arterial hypertension (PAH): OPUS/OrPHeUS real-world data** Lana Melendres-Groves (Albuquerque, United States of America), Richard Channick, Kelly Chin, Vallerie V. Mclaughlin, Megan Flynn, Rose Ong, Graham Wetherill, Nick H. Kim
1464	**Safety of macitentan in portopulmonary hypertension (PoPH): Real-world experience by liver transplant candidacy in the OPUS registry** Hilary DuBrock (Rochester, United States of America), Richard Channick, Nick H. Kim, Vallerie V. Mclaughlin, Peter Agron, Sandrine Leroy, Graham Wetherill, Kelly Chin
1465	**Long-term riociguat treatment towards implementing a targeted treatment strategy in patients with idiopathic pulmonary arterial hypertension** Anna Aleevskaya (Moscow, Russian Federation), Svetlana Gratsianskaya, Zarina Valieva, Tamila Martynyuk
1466	**Loss of response to calcium channel blockers after long-term follow up in idiopathic pulmonary arterial hypertension** Bruna Piloto (São Paulo (SP), Brazil), Caio Fernandes, Carlos Jardim, Marcela Castro, William Salibe-Filho, Jose Leonidas Alves-Jr, Luciana Morinaga, Juliana Sobral-Alves, Susana Hoette, Mario Terra-Filho, Rogerio Souza
1467	**Perioperative management of patients with Pulmonary Hypertension undergoing Non-Cardiac Surgery: A Systemic Review and UK Consensus Statement** Laura Price (London, United Kingdom), Aimee Brame, Guillermo Martinez, Bhashkar Mukerjee, Carl Harries, Aleksander Kempny, Philip Marino, Colin Church, Martin Johnson, Robin Condliffe, David Kiely, Rachel Davies, Luke Howard, Gerry Coghlan, Jim Lordan, Dolores Taboada, Tom Pickworth, David Alexander, Davina Wong, Andrew Curry, Sean Gaine, Ben Garfield, Nonni Reed, Susanna Price, Stephane Ledot, Kostantinos Dimopoulos, S John Wort
1468	**Perioperative management of patients with pulmonary hypertension in non-cardiac surgery, a retrospective study in a reference center** nina cugnin (TOULOUSE, France), Olivier Mathe, Gregoire Prevot, Elise Noel Savina
1469	**Sex bias exists in diagnosing pulmonary arterial hypertension via machine learning** Johanna Uthoff (Sheffield, United Kingdom), Samer Alabed, Pankaj Garg, Allan Lawrie, Jim M Wild, David G Kiely, Haiping Lu, Andrew J Swift
1470	**Air pollution and pulmonary arterial hypertension. Outcomes in a referral center from Mexico City.** Daniel Astorga (Mexico City, Mexico), Tomás Pulido Zamudio, Euardo Diaz, Abraham Cruz, Nayeli Zayas, Julio Cesar Lopez, Rodrigo Zebadua, Julio Sandoval
1471	**Implementation of a systematic comprehensive geriatric assessment for elderly patients suspected of pulmonary hypertension** Laurent Bertoletti (Saint Etienne Cedex, France), Ludovic Lafaie, Cécile Duvillard, Elodie De Magalhaers, Souad Bezzeghoud, Sandrine Accassat, Paul-Benoît Poble, Pierre-Benoît Bonnefoy, Claire Tulane, Thomas Celarier
1472	**Psychological disorders in patients with pulmonary arteriaI hypertension (Data from the PEPPAH-Study)** Tanja Meltendorf (, Germany), Kai G Kahl, Henning Gall, Manuel J Richter, Jan Fuge, Marius M Hoeper, Hossein A Ghofrani, Karen M Olsson
1473	**LONG-TERM FOLLOW-UP OF PATIENTS WITH SYSTEMIC SCLEROSIS AND NORMAL OR BORDERLINE PULMONARY PRESSURES** Pavel Jansa (Jirny, Czech Republic), Vladimír Dytrych, David Ambrož, Radim Bečvář, Regina Herčíkova, Aleš Linhart
1474	**BURDEN STUDY OF PULMONARY ARTERIAL HYPERTENSION AND CHRONIC THROMBOEMBOLIC PULMONARY HYPERTENSION FOR COLOMBIA POPULATION** Dario Londoño (Bogotá, Colombia), Claudio Villaquirán, Rubén Dueñas, Alejandra Taborda, Kamilo Rojas, Cindy Chamorro
1475	**Quality of online information on pulmonary arterial hypertension.** Dana Saleh (Calgary, Canada), Jolene Fisher , Steeve Provencher, Christopher Ryerson, Jason Weatherald

1476 **Impact of direct-acting antiviral (DAA) treatment for hepatitis C on pulmonary hemodynamics**
Tanya Elisa Orizaga Franco (Barcelona, Spain), Isabel Blanco Vich, Sabela Slens, Edilmar Alvarado, Zoe Mariño, Xavier Torras, Anna Baiges, Fanny Turon, Virginia Hernández-Gea, Càndid Villanueva, Jorge Moises, Xavier Forns, Joan Carles García-Pagán, Joan Albert Barberà Mir

Pre-congress content Session 113 00:00 - 23:59

E-poster session: Experimental approaches to pulmonary hypertension

Disease(s) : Pulmonary vascular diseases Respiratory critical care

Method(s) : Epidemiology Cell and molecular biology Physiology

Chairs : Frances S. De Man (Amsterdam, Netherlands), Laurence Dewachter (Bruxelles, Belgium)

1477 **CFTR and risk of pulmonary arterial hypertension: a case report and mendelian randomization study**
jing liao (Guangzhou, China), Wenjun He, Yuqin Chen, Yadan Hu, Yao Ning, Kai Yang, Jian Wang

1478 **CFTR involvement in the pathogenesis of pulmonary arterial hypertension**
Fabrice Antigny (Paris, France), Lucie To, Hélène Leribeuz, Maria-Rosa Ghigna, Mélanie Lambert, Clémence Martin, Pierre-Régis Burgel, Angèle Boët, Frédéric Becq, Justin Issard, Christine Pechoux, Boris Manoury, Olaf Mercier, Frédéric Perros, Marc Humbert, David Montani

1479 **Inflammation biomarkers and risk of pulmonary hypertension: a Mendelian randomization study**
Yuanwei Chen (Guangzhou, China), Jing Liao, Jiarui Zhang, Yuqin Chen, Jian Wang

1480 **Inhaled liposomal treprostinil (L606) shows extended release in healthy volunteer, as well as prolongs pharmacological effect in hypoxia-induced rat.**
Pei Kan (Taipei, Taiwan), Ko-Jie Chen, Cleo Pan

1481 **Comparison of Treprostinil Palmitil Inhalation Suspension (TPIS) or Oral Sildenafil (Sild) in a Sugen/Hypoxia Rat Model of PAH.**
Michel Corboz (Bridgewater, United States of America), Sandra Gagnon, C Brodeur, Charles E Laurent, Adam J Plaunt, Vladmir Malinin , Helena Gauani, Donald Chun, Zhili Li, David Cipolla, Walter R Perkins, Richard W Chapman

1482 **Additive protective effects of sacubitril/valsartan and bosentan on vascular remodeling in experimental pulmonary hypertension**
Marie-Camille Chaumais (Le Kremlin Bicêre, France), Marie-Camille Chaumais, Mohamed Reda Amar Djessa, Raphaël Thuillet, Amélie Cumont, Ly Tu, Guillaume Hebert, Pauline Gaignard, Alice Huertas, Laurent Savale, Marc Humbert, Christophe Guignabert

1483 **Zamicastat decreases cardiac arrhythmias in a rat model of pulmonary arterial hypertension**
Nuno Pires (Coronado (S. Romao e S. Mamede), Portugal), Bruno Igreja, Luis Magalhaes, Maria-Joao Bonifacio, Eric Chevalier, Patricio Soares-Da-Silva

1484 **Relationship between Galectin-3 and mineralocorticoid receptor in pulmonary hypertension**
Carl Tanba (Boston, United States of America), Guanming Qi, Rod Warburton, Krishna Penumatsa, Deniz Toksoz, Jamie Wilson, Harrison Farber, Nicholas Hill, Ioana Preston

1485 **Mitophagy plays an important role in hypoxia-induced pulmonary artery smooth muscle cell proliferation**
Shujin Guo (Chengdu (Sichuan), China), Qiunan Zuo, Yutian Zhou, Xiaohui Li

1486 **No evidence of desensitization to repeat dosing with treprostinil palmitil inhalation suspension (TPIS) for 32-consecutive days in hypoxia-challenged telemetered rats**
Richard W. Chapman (Bridgewater, United States of America), Michel Corboz, Sandra Gagnon, C Brodeur , Adam J Plaunt, Vladimir S Malinin, Helena Gauani, Donald Chun, Zhili Li, David Cipolla, Walter R Perkins

1487 **Early atorvastatin administration suppresses the oxygen-activating ability of rat neutrophils during monocrotalinin-induced pulmonary arterial hypertension (PAH).**
Volha Yatsevich (Minsk, Belarus), Igor Adzerikho, Tatyana Vladimirskaja , Galina Semenkova

1488 **Basement membrane, a specialized extracellular matrix, shapes endothelial function in IPAH**
Katharina Jandl (Graz, Austria), Leigh M. Marsh, Julia Hoffmann, Ayse Ceren Mutgan, Oliver Baum, Wilhelm Bloch, Katharina Sinn, Walter Klepetko, Akos Heinemann, Andrea Olschewski, Horst Olschewski, Grazyna Kwapiszewska

1489 **Improvements in the dysfunctional right ventricle with Macitentan treatment in a sugen/hypoxic rat model of pulmonary hypertension**
Gerard Murphy (Glasgow (Glasgow), United Kingdom), Geeshath Jayasekera, James Mullin, Lindsay Gallagher, Yvonne Dempsie, David J Welsh

1490 **Beta 3 adrenoceptor: a potential therapeutic target for pulmonary arterial hypertension**
Pedro Mendes Ferreira (Guimarães, Portugal), Birger Tielemans, Allard Wagenaar, Chantal Dessy, Jean-Luc Balligand, Marion Delcroix, Rozenn Quarck, Catharina Belge

1491 **Pulmonary artery endothelial cell exposure to hepcidin affects BMP-signalling; relevance to vascular remodelling in PAH**
Ioannis Panselinas (London, United Kingdom), Quezia K Toe, Katie Clementson, Maziah M Ghazaly, S John Wort, Gregory J Quinlan

1492 **Soluble LR11 level is correlated with the severity of pulmonary hypertension due to left heart disease.**
Yusuke Joki (Tokyo, Japan), Hakuoh Konishi, Kiyoshi Takasu, Kazunori Shimada

1493 **Extended versus limited stimulation-guided pulmonary artery catheter denervation in normotensive pigs: acute hemodynamic effects**
Natalia Goncharova (Saint-Petersburg, Russian Federation), Alexandr Vakhrushev, Heber Ivan Condori Leandro, Stepan Voronin, Lada Murashova, Lev Korobchenko, Elizaveta Andreeva, Lubov Mitrofanova, Dmitry Lebedev, Olga Moiseeva, Evgeny Mikhaylov

1494 **Mendelian Randomization Study Showed No Causality between Type 2 Diabetes and Pulmonary Hypertension**
Jiarui Zhang (, China), Jing Liao, Yuanwei Chen, Yuqin Chen, Jian Wang

1495 **Role of IL-11 system in Pulmonay Hypertension**
Ines Roger (Valencia, Spain), Javier Milara, Cristina Estornut, Amparo Bayarri, Antonio Garcia, Julio Cortijo

1496 **No indication of insulin resistance in idiopathic PAH with preserved physical activity**
Bence Nagy (Graz, Austria), Gabor Kovacs, Adrienn Tornyos, Eva Svehlikova, Vasile Foris, Chandran Nagaraj, Grazyna Kwapiszewska, Thomas R. Pieber, Andrea Olschewski, Horst Olschewski

Pre-congress content Session 114 00:00 - 23:59

E-poster session: Exercise and haemodynamics in pulmonary hypertension

Disease(s) : Pulmonary vascular diseases Airway diseases

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

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

1497 **Percent-predicted incremental shuttle walking test distance stratifies risk in pulmonary arterial hypertension**
Robert A. Lewis (Sheffield (South Yorkshire), United Kingdom), Thomas Kelly, Emma Drew, Catherine G Billings, Judith Hurdman, Ian Smith, Matthew Austin, Iain J Armstrong, Jennifer Middleton, Alexander M K Rothman, John Harrington, Neil Hamilton, Abdul G Hameed, A A Roger Thompson, Athanasios Charalampopoulos, Charlie Elliot, Allan Lawrie, Ian Sabroe, Jim M Wild, Andrew J Swift, Robin Condliffe, David G Kiely

1498 **A high pulmonary capillary blood volume allows for increased aerobic exercise capacity at a lower ventilatory cost in healthy adults**
Vitalie Faoro (Bruxelles, Belgium), Kevin Forton, Robert Naeije

1499 **Proteomic profiling identifies an exercise signature in patients with pulmonary arterial hypertension**
Jane Leopold (Boston, United States of America), Bradley Maron, Craig Ballard, Aaron Waxman, David Systrom

1500 **Effects of endurance exercise training on circulating endothelial progenitor cells and endothelial microparticles in patients with pulmonary arterial hypertension**
Clara Martin Ontiyuelo (Sant Cugat del Vallès (Barcelona), Spain), Diego Agustin Rodriguez Chiaradía, Isabel Blanco, Olga Tura Ceide, Anna Rodó Pin, Anna Herranz, Jessica Garcia, Víctor Peinado, Lucilla Piccari, Lluis Molina Ferragut, Joan Albert Barberà

1501 **Cardiopulmonary exercise test unveils abnormal exercise physiology in patients affected by pulmonary arterial hypertension with a low-risk profile 6 minute walk distance.**
Beatrice Vigo (Milano (MI), Italy), Rocco Francesco Rinaldo, Rachel Davies , Francesco Lo Giudice, Gulammedhi Haji, Stefano Centanni, Luke Howard

1502 **Cardiopulmonary exercise testing responses to initial treatment in Group 1 pulmonary hypertension**
Rocco Francesco Rinaldo (Milano (MI), Italy), Beatrice Vigo, Rachel Davies, Gulammedhi Haji, Francesco Lo Giudice, Stefano Centanni, Luke Howard

1503 **Stepping is a discriminative field exercise modality with similar performance compared to 6-MWT to predict low risk in PH**
Lísia Cunha Cé (Curitiba (PR), Brazil), Danilo Cortezi Berton, Elisa Schroeder, Franciele Plachi, Marli Maria Knorst, Igor Gorski Benedetto, Marcelo Basso Gazzana

1504	**Cardiopulmonary exercise testing in risk stratification of patients with PAH associated with congenital heart disease and Eisenmenger syndrome** Svetlana Gratsianskaya (Moscow, Russian Federation), Anna Aleevskaya, Zarina Valieva, Tamila Martynyuk
1505	**Effect of normobaric hypoxia on constant work-rate cycle time in patients with precapillary pulmonary hypertension – a RCT** Simon Raphael Schneider (Zürich, Switzerland), Laura C Mayer, Mona Lichtblau, Charlotte Berlier, Esther I Schwarz, Stéphanie Saxer, Michael Furian, Konrad Bloch, Silvia Ulrich
1506	**Exercise capacity in patients with Pulmonary Arterial Hypertension: multicentric analysis of aerobic capacity and survival** Rodrigo Torres-Castro (Santiago, Chile), Elena Gimeno-Santos, María Lorena Coronel, Pilar Escribano-Subías, Isabel Blanco, Joan Albert Barberà
1507	**Impact of timing on right heart catheterization measurements in pulmonary hypertension** Athiththan Yogeswaran (Giessen, Germany), Khodr Tello, Natascha Sommer, Hossein Ardeschir Ghofrani, Werner Seeger, Manuel Jonas Richter, Henning Gall
1508	**MPAP/CO-slope during exercise as predictor of mortality in patients at risk for pulmonary hypertension.** Philipp Douschan (Graz, Austria), Vasile Foris, Alexander Avian, Teresa Sassmann, Horst Olschewski, Gabor Kovacs
1509	**Exercise-induced changes in pulmonary artery wedge pressure: insights from heart failure with preserved ejection fraction** Claudia Baratto (Milano, Italy), Sergio Caravita, Andrea Faini, Davide Soranna, Céline Dewachter, Giovanni Battista Perego, Antoine Bondue, Antonella Zambon, Luigi P Badano, Michele Senni, Gianfranco Parati, Jean-Luc Vachiéry
1510	**Predictors of a precapillary component in patients with postcapillary pulmonary hypertension** Damien Fard (Créteil, France), Athénaïs Boucly, Mariana Preda, David Montani, Xavier Jaïs, Laurent Savale, Xavier Mignard, Mitja Jevnikar, Etienne-Marie Jutant, Andrei Seferian, Marc Humbert, Jean-Luc Vachiéry, Olivier Sitbon
1511	**Pulmonary artery pressure-flow relation during exercise in highlanders vs. lowlanders** Mona Lichtblau (Zollikon, Switzerland), Stéphanie Saxer, Patrick Bader, Paula Appenzeller, Philipp Scheiwiller, Michael Furian, Maamed Mademilov, Ulan Sheraliev, Talant Sooronbaev, Konrad Bloch, Silvia Ulrich
1512	**Is cardiac output assessed by inert gas rebreathing technique predictive of mortality in pulmonary hypertension?** Lucy Robertson (Cambridge (Cambridgeshire), United Kingdom), Katherine Bunclark, Robert Mackenzie, John Cannon, Karen Sheares, Dolores Taboada, Joanna Pepke-Zaba*, Mark Toshner*
1513	**Pulmonary exercise hemodynamics in patients with liver cirrhosis – a stress echocardiography study.** Alexander Altekruse (Graz, Austria), Gabor Kovacs, Teresa Sassmann, Vasile Foris, Alexander Avian, Vanessa Stadlbauer, Rudolf Stauber, Horst Olschewski, Philipp Douschan
1514	**Pulmonary Vascular Resistances are Predictors of 3-year-survival in Systemic Sclerosis** Katarina Zeder (Graz, Austria), Alexander Avian, Gerhard Bachmaier, Philipp Douschan, Vasile Foris, Teresa Sassmann, Horst Olschewski, Gabor Kovacs
1515	**Exercise Pulmonary Vascular Resistances are Predictors of Survival in Systemic Sclerosis** Katarina Zeder (Graz, Austria), Alexander Avian, Gerhard Bachmaier, Philipp Douschan, Vasile Foris, Teresa Sassmann, Horst Olschewski, Gabor Kovacs

Pre-congress content Session 115 00:00 - 23:59

E-poster session: Clinical evaluation, biomarkers and risk assessment of pulmonary hypertension

Disease(s) : Pulmonary vascular diseases

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

Chairs : Valentina Mercurio (Napoli, Italy), Olivier Sitbon (Le Kremlin-Bicêtre, France)

1516	**Precapillary pulmonary hypertension in patients with a high HFpEF probability: Insights from the Amsterdam UMC PAH-cohort** Azar Kianzad (Amsterdam, Netherlands), Frances S De Man, Lucas R Celant, Anton Vonk Noordegraaf, Louis M Handoko, Harm Jan Bogaard
1517	**A Minimal Clinically Important Difference for CAMPHOR in Idiopathic Pulmonary Arterial Hypertension** Katherine Bunclark (Cambridge (Cambridgeshire), United Kingdom), Natalie Doughty, Alice Michael, Nisha Abraham, Samantha Ali, John Cannon, Karen Sheares, Nicola Speed, Dolores Taboada, Mark Toshner, Joanna Pepke-Zaba

1518	**Assessment of quality of life and social and economic impact of the disease in patients with pulmonary arterial hypertension in Germany – Data of the SANTANA-Study** Jan Fuge (Hannover, Germany), Manuel Jonas Richter, Henning Gall, Ardeschir Ghofrani, Marius M Hoeper, Karen M Olsson
1519	**Lung perfusion in pulmonary hypertension – results from the RESPIRE study** Paul Hughes (Sheffield (South Yorkshire), United Kingdom), Andrew Swift, Frederick Wilson, Marcella Cogliano, Faisal Alandejani, Anthony Cahn, Lindsay Kendall, David Kiely, Jim Wild
1520	**Risk stratification and prognostic factors in patients with pulmonary arterial hypertension and comorbidities** Benjamin Egenlauf (Heidelberg, Germany), Panagiota Xanthouli, Maria Kögler, Alberto Marra, Nicola Benjamin, Lukas Fischer, Christina Eichstaedt, Satenik Harutyunova, Christian Nagel, Ekkehard Grünig
1521	**Risk assessment, therapy and cardiovascular comorbidity in patients with pulmonary arterial hypertension** Katleen Swinnen (Leuven, Belgium), Marion Delcroix, Rozenn Quarck, Celine Dewachter, Jean-Luc Vachiéry, Catharina Belge
1522	**Cardiac MRI right atrial area measurement thresholds for risk stratification in patients with PAH** Faisal Alandejani (Sheffield, United Kingdom), Euan Tubman, Yousef Shahin, Robert Lewis, Krit Dwivedi, Dheyaa Alkhanfar, Samer Alabed, Chris Johns, Pankaj Garg, Robin Condliffe, Allan Lawrie, Jim Wild, David Kiely, Andrew Swift
1523	**Risk status at selexipag initiation in pulmonary arterial hypertension (PAH): Insights from EXPOSURE** Sean Gaine (Dublin, Ireland), Pilar Escribano, Patricia Biedermann, Audrey Muller, Hong Sun, Stefan Söderberg, Tobias J Lange
1524	**Metabolic profiling of pulmonary vascular phenotypes in systemic sclerosis** Catherine Simpson (Baltimore, United States of America), Stephen Mathai, Todd Kolb, Paul Hassoun, Susan Aja, Aurelie Roux, David Graham, Rachel Damico
1525	**Gamma-Glutamyltransferase in pulmonary hypertension: A reliable biomarker?** Jonas Lund (, Germany), Athiththan Yogeswaran, Khodr Tello, Natascha Sommer, Jan Grimminger, Lars Harbaum, Jan K. Hennigs, Hans Klose, Hossein Ardeschir Ghofrani, Werner Seeger, Manuel Jonas Richter, Henning Gall
1526	**mRNA sequencing of educated platelets generates a diagnostic biomarker for discrimination between pre- and post -capillary pulmonary hypertension.** Mohammad Arkani (Amsterdam, Netherlands), Samara Jansen, Sjors In'T Veld, Josien Smits, Edward Post, Kenn Zwaan, Jip Ramaker, Frances S. De Man, Anton Vonk Noordegraaf, Myron Best, Thomas Wurdinger, Harm-Jan Bogaard
1527	**Utility of D-Dimer for mortality prediction in patients at risk for pulmonary hypertension** Vasile Foris (Graz, Austria), Florian Prüller, Gabor Kovacs, Alexnder Avian, Philipp Douschan, Markus Herrmann, Horst Olschewski
1528	**Association between Metabolites Biomarkers and Pulmonary Hypertension:A Mendelian Randomization analysis** Dansha Zhou (Guangzhou,Guangdong Province, China), Jing Liao, Yuqin Chen , Jian Wang
1529	**Impact of the new definition of precapillary pulmonary hypertension on patient disposition** Piet Rosenstock (, Austria), Katarina Zeder, Alexander Avian, Gerhard Bachmaier, Philipp Douschan, Vasile Foris, Teresa Sassmann, Horst Olschewski, Gabor Kovacs
1530	**Impact of the new hemodynamic classification in the diagnosis of pulmonary hypertensionReport from a pneumology based PH center** Katharina Heinig-Menhard (Tutzing, Germany), Cosmina Stoleriu, Marion Heiss-Neumann, Edith Silbernagel, Margot Neiswirth, Juergen Behr, Ralf Göres, Wolfgang Gesierich, Frank Reichenberger, Frank Reichenberger
1531	**CIPHER: a prospective, multicentre study for the identification of biomarker signatures for early detection of pulmonary hypertension** Luke Howard (London, United Kingdom), Kelly Chin, Yiu-Lian Fong, Cynthia Gargano, Dimitri Stamatiadis, Bradley Maron, Ioana Preston, Deborah Quinn, Stephan Rosenkranz, Mark Toshner, Martin Wilkins, David Kiely
1532	**Feasibility of microRNA signatures for detection early stage pulmonary hypertension** Aaron Waxman (Boston, United States of America), Yiu-Lian Fong, Timothy Jatkoe, He Cheng, Lihan Zhou, Charles Bridges
1533	**Reliability of echo systolic pulmonary arterial pressure to detect new definition of pulmonary hypertension** Henning Gall (Gießen, Germany), Athiththan Yogeswaran, Khodr Tello, Natascha Sommer, Hossein Ardeschir Ghofrani, Werner Seeger, Manuel Jonas Richter
1534	**Using parasternal electromyogram to measure neural respiratory drive in pulmonary hypertension** Paul Mccaughey (Glasgow (Glasgow), United Kingdom), Michael Mcgettrick, Alexander Maclellan , Melanie Brewis, Colin Church, Martin Johnson

1535 **Prevalence of hyperventilation syndrome in pulmonary arterial hypertension**
Etienne-Marie Jutant (Paris, France), Clara Malka Ruimy, Antoine Beurnier, Abdelkader Belguendouz, Marianna Preda, Xavier Jaïs, Laurent Savale, Gilles Garcia, Marc Humbert, Olivier Sitbon, David Montani

Pre-congress content Session 116 00:00 - 23:59

E-poster session: Chronic thromboembolic pulmonary hypertension

Disease(s) : Pulmonary vascular diseases

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

Chairs : Gérald Simonneau (Le Kremlin-Bicêtre, France), Laurent Godinas (Leuven, Belgium)

1536 **The assessment of lung function and residual hypoxemia after balloon pulmonary angioplasty for patients with non-operable chronic thromboembolic hypertension**
Yoichiro Matsuoka (Kobe Hyogo, Japan), Yu Taniguchi, Keisuke Miwa, Keiko Sumimoto, Hiroyuki Onishi, Yasunori Tsuboi, Noriaki Emoto, Kenichi Hirata

1537 **Initial dual oral combination therapy prior to pulmonary endarterectomy (PEA) in patients with operable chronic thromboembolic pulmonary hypertension (CTEPH) and high preoperative pulmonary vascular resistance (PVR)**
Youssef Trigui (Béziers, France), Giulia Acquati, Mitja Jevnikar, David Montani, Laurent Savale, Olivier Sitbon, Olaf Mercier, Florence Parent, Etienne-Marie Jutant, Martine Reynaud-Gaubert, Elie Fadel, Gérald Simonneau, Marc Humbert, Xavier Jais

1538 **Accuracy of pre-operative specimen level prediction in chronic thromboembolic pulmonary hypertension (CTEPH) patients undergoing pulmonary thromboendarterectomy (PTE)**
Pattarin Pirompanich (Pathumthani, Thailand), Timothy Fernandes, Kim Kerr, Michael Madani, Demosthenes Papamatheakis, David Poch, Victor Pretorius, Nick Kim

1539 **Sequential multimodal therapy in patients with chronic thromboembolic pulmonary hypertension (CTEPH)**
Mitja Jevnikar (Paris, France), Sabina Solinas, Philippe Brenot, David Montani, Laurent Savale, Olivier Sitbon, Elie Fadel, Gerald Simonneau, Marc Humbert, Xavier Jais

1540 **Serial cardiac MRI for assessment of cardiac morphology and function in CTEPH patients after PEA or vasodilator therapy**
Dheyaa Alkhanfar (Sheffield, United Kingdom), Yousef Shahin, Faisal Alandejani, Samer Alabed, Chris Johns, Alex Mk Rothman, Pankaj Garg, Robin Condliffe, Rehan Quadery, David G Kiely, Jim Wild, Andrew J Swift

1541 **Introduction of a national multidisciplinary CTEPH board to improve operability assessment**
Isabelle Opitz (Zurich, Switzerland), Frédéric Lador, John-David Aubert, Michael Tamm, Katarzyna Furrer, Mona Lichtblau, Charlotte Berlier, Thomas Frauenfelder, Thomas Pfammatter, Anne-Lise Hachulla, Patrick Yerly, Jean-Marc Fellrath, Silvia Ulrich

1542 **Survival in patients with chronic thromboembolic pulmonary hypertension in the modern management era**
Yu Taniguchi (Kobe, Japan), Yoichiro Matsuoka, Hiroyuki Onishi, Noriaki Emoto, Hidekazu Nakai, Kenji Okada, Kenichi Hirata

1543 **Epidemiology of chronic thromboembolic pulmonary hypertension (CTEPH) in the Czech Republic**
Pavel Jansa (Jirny, Czech Republic), David Ambrož, Matyáš Kuhn, Vladimír Dytrych, Aleš Linhart, Jaroslav Lindner, Audrey Muller

1544 **Adherence to guidelines of anticoagulant prescription in pulmonary arterial hypertension and chronic thromboembolic pulmonary hypertension: an observational study**
Marie-Camille Chaumais (Le Kremlin Bicêre, France), Raphaël Rainone, Benjamin Querin, Najiba Alioua, Laurent Bertoletti, Sylvie Raspaud, Xavier Jaïs, Laurent Savale, Olivier Sitbon, Marc Humbert, David Montani

1545 **Supervised exercise training in patients with chronic thromboembolic pulmonary hypertension (CTEPH) as early follow-up treatment after pulmonary endarterectomy (PEA) – a prospective cohort study**
Mohammed Nasereddin (Eppelheim, Germany), Christian Nagel, Nicola Benjamin, Benjamin Egenlauf, Satenik Harutyunova, Christina Eichstaedt, Panagiota Xanthouli, Eckhard Mayer, Ekkehard Grünig, Stefan Guth

1546 **Pulmonary angioplasty vs exclusive medical treatment in inoperable chronic thromboembolic hypertension–initial outcomes from a pulmonary hypertension centre**
Ines Furtado (Porto, Portugal), Duarte Silva, Luisa Carvalho, Mario Santos, Fabienne Gonçalves, Andre Luz, Abilio Reis

1547 **BPA for CTEPH: the Viennese experience**
Christian Gerges (Wien, Austria), Richard Friewald, Inbal Shafran, Roela Sadushi-Kolici, Nika Skoro-Sajer, Mario Gerges, Bernhard Moser, Shahrokh Taghavi, Walter Klepetko, Irene Lang

1548 **Predictive Value of CT Pulmonary Angiography (CTPA) to Assess the Surgical Accessibility for Pulmonary Endarterectomy in Patients with CTEPH**
Thomas Frauenfelder (Zürich, Switzerland), Michael Mcinnis, Matthias Eberhard, Marc De Perrot, Silvia Ulrich, Ilhan Inci, Isabelle Opitz

1549 **LSC - 2020 - Comparison of metabolic profile in endothelial cells of chronic thromboembolic pulmonary hypertensio n and pulmonary arterial hypertension**
Olga Tura-Ceide (Barcelona, Spain)

1550 **Transforming growth factor beta induces Beclin-1 in pulmonary arterial endothelial cells**
Po Ru Chen (New Taipei City 242, Taiwan), Ying Ju Lai

1551 **Elevated Von Willebrand Factor expression in the activated pulmonary endothelium of chronic thromboembolic pulmonary hypertension patients enhances platelet adhesion.**
Xue Daphne Manz (Utrecht, Netherlands), Xiaoke Pan, Petr Symersky, Jisca Majolée, Peter Hordijk, Jan Voorberg, Jurjan Aman, Harm Jan Bogaard, Robert Szulcek

1552 **Plasma metabolomics in chronic thromboembolic pulmonary hypertension**
Emilia Swietlik (Cambridge, United Kingdom), Pavandeep Ghataorhe, Kasia Zalewska, John Wharton, Luke S Howard, Dolores Taboada, John E Cannon, Nicholas W Morrell, Martin R Wilkins, Mark R Toshner , Joanna Pepke-Zaba, Christopher J Rhodes

1553 **MicroRNA expression analysis in Chronic Thromboembolic Pulmonary Hypertension using pulmonary endarterectomy derived samples**
Isabelle Opitz (Zurich, Switzerland), Itzel Shantal Martínez López, Theodorus Papasotiropoulos, Fabian Schlaepfer, Silvia Ulrich, Michaela B. Kirschner

Pre-congress content Session 117 00:00 - 23:59

E-poster session: The young, the old and extrapulmonary tuberculosis

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

Chairs : Valeriu Crudu (Chisinau, Republic of Moldova), James Seddon (London, United Kingdom)

1554 **Incremental Yield of Xpert MTB/RIF Ultra over Xpert MTB/RIF in the diagnosis of extra-pulmonary tuberculosis**
Devasahayam Jesudas Christopher (Vellore (Tamil Nadu), India), Deepa Shankar, Coelho Victor, Ebby Simon, Balamugesh Thangakunam

1555 **Internal mammary adenopathy: a diagnostic sign of pleural tuberculosis?**
Maria Inês Costa (Rio Tinto, Portugal), Joana Gomes, Fernando Guedes, Ricardo Reis

1556 **Can pleural biopsy histology in combination with pleural fluid adenosine deaminase be used for diagnoses of pleural TB?**
Sundeep Ghuman (Hounslow, United Kingdom), Owais Kadwani, Junyi Zhang, Charlotte Carter, Ronan Breen, Liju Ahmed

1557 **Evaluation of Th9 and Th22 cells within pleural effusions of tuberculosis and non-tuberculosis patients**
Esmaeil Mortaz (Tehran, Islamic Republic of Iran), Neda Dalil Roofchayee, Majid Marjani, Mohammad Varahram, Neda K.Dezfuli, Ian M. Adcock

1558 **Rethinking the cut-off value for pleural effusion adenosine deaminase and neutrophil-lymphocyte ratio in a setting of low TB incidence**
Rebeca Martins Natal (Guarda, Portugal), Lígia Ribeiro, Gonçalo Samouco, Filipa Jesus, Fernando Pereira Silva, Luís Vaz Rodrigues

1559 **Utility of pleural fluid glucose measurement in TB pleural effusions.**
Charlotte Carter (London, United Kingdom), Owais Kadwani, Junyi Zhang, Sundeep Ghuman, Ronan Breen, Liju Ahmed

1560 **Oesophageal TB secondary to mediastinal lymphadenitis: a London tertiary centre experience.**
Catherine Dominic (Hull, United Kingdom), Hannah Gordon, Ananna Rahman, Veronica White, Louise Langmead, Simon Tiberi, Heinke Kunst

1561 **Menstrual Disorders in Non-genital Tuberculosis – an Ignored Entity**
Mani Tiwari (Allahabad (Uttar Pradesh), India), Balakrishnan Menon

1562 **Influence of HIV infection on spectrum of extrapulmonary tuberculosis**
Ekaterina Kulchavenya (Novosibirsk, Russian Federation)

1563	**Expression of the PDCD1 gene to determine active tuberculosis infection in children and adolescents with latent TB infection** Mikhail Vladimirsky (Moscow, Russian Federation), Andrey Elov, Valentina Aksenova, Kirill Gerasimov
1564	**Acceptability of a new child-friendly dispersible tablet for drug-sensitive pulmonary tuberculosis in children** Aziza Pakhlavonova (Moscow, Russian Federation), Valentina Aksenova, Nadezhda Klevno, Alexey Kazakov
1565	**Tuberculosis exposure in a group of toddlers - what is the best strategy to prevent infections?** Folke Brinkmann (Bochum, Germany), Stefanie Dillenhöfer, Anne Schlegtendal
1566	**A Study on Various Types of Presentations of Paediatric Tuberculosis and Response to Fixed Dose Combination (FDC).** Kolla Madhuri (Bhubaneswar, India), Saswat Subhankar, Debee Prasad Dash
1567	**Case-management of MDR-TB in children: a longitidinal study on 209 cases** Cristina Liscinscaia (Chisinau, Republic of Moldova), Stela Kulcitkaia, Evelina Lesnic
1568	**Endobronchial tuberculosis: characteristics and bronchoscopic findings in children** Ludmila Pereira Barbosa Dos Santos (Niteroi (RJ), Brazil), Letícia Oliveira Dias, Paula Serrano Soares, Carmem Lúcia Teixeira De Castro, Robson De Alvarenga Facina, Licinio Esmeraldo Da Silva, Christiane Mello Schmidt, Claudete Aparecida Araújo Cardoso, Selma Maria De Azevedo Sias
1569	**Comparative results of the QuantiFERON laboratory test with a skin test containing the recombinant protein CFP-10-ESAT-6 and a Mantoux test with 2 TE in children with chronic non-specific lung diseases and tuberculosis.** SOFYA NAKONECHNAYA (MOSCOW, Russian Federation), Valentina Aksenova, Yuriy Mizernitsky
1570	**Non tuberculous mycobacterial pulmonary disease in the elderly** Eva Tabernero Huguet (Bilbao (Bizkaia), Spain), Imanol Gonzalez Muñoz, Sandra Pedrero Tejada, Beatriz Gonzalez Quero, Elena Garay Llorente, Patricia Iraurgui Arcarazo, Rafael Zalacain Jorge

Pre-congress content Session 118 00:00 - 23:59

E-poster session: Interventional pulmonology: unity in diversity

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

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

Chairs : Pallav L. Shah (London, United Kingdom), David Fielding (Herstin, Australia)

1571	**Late Breaking Abstract - Microwave ablation via a flexible catheter for the treatment of nonsurgical peripheral lung cancer: a pilot study** Jiayuan Sun (Shanghai, China), Jiayuan Sun, Fangfang Xie, Junxiang Chen, Xiaoxuan Zheng
1572	**A modified staged treatment algorithm using the AeriSeal System** T. David Koster (GRONINGEN, Netherlands), Dirk-Jan Slebos, Felix Herth, Karin Klooster, Ralf Eberhardt, Ralf-Harto Huebner, Arschang Valipour
1573	**Metered Cryospray Modulates Bronchial Epithelial Gene Expression in Patients with Chronic Obstructive Pulmonary Disease** Christopher M Orton (London, United Kingdom), Justin L Garner, Tacita A Shah, Cielito Caneja, Kian F Chung, Pankaj K Bhavsar, Pallav L Shah
1574	**Endobronchial Valves : First french multicenter retrospective study on the 2 steps approach** Thomas Egenod (Limoges, France), Nicolas Guibert, Yoann Ammar, Romain Kessler, Benedicte Toublanc, Nicolas Favrolt, Amandine Briault, Hervé Dutau, Frederic Wallyn, Armelle Marceau, Laurent Cellerin, Samy Lachkar, Julien Dutilh, Jean-Michel Vergnon, Matthieu Dusselier
1575	**CT-approximated perfusion is comparable to nuclear perfusion imaging** T. David Koster (GRONINGEN, Netherlands), Ebrahim Hazrati, Eva M. Van Rikxoort, Karin Klooster, Jean-Paul Charbonnier, Dirk-Jan Slebos
1576	**Implementing bronchoscopic lung volume reduction using one-way endobronchial valves in a Dutch university hospital, retrospective real-life outcomes at 3 months.** Rein Posthuma (Maastricht, Netherlands), Anouk Vaes, Kim Walraven, Geertjan Wesseling, Emiel Wouters, Lowie Vanfleteren
1577	**Should we perform surgical lung biopsy when transbronchial cryobiopsy provides unclassifiable interstitial pneumonitis in a patient with diffuse interstitial lung disease?** Mehrnaz Asadi Gharabaghi (Tehran, Islamic Republic of Iran), Esmaeil Idani, Forouzan Mohammadi, Shirin Izadi, Behdad Boroofeh, Aptin Maboudi, Behnaz Jahanbin, Sahar Defaee, Negar Eftekhar

1578	**Transbronchial lung cryobiopsy guided with radial mini-probe EBUS for diagnosing peripheral lung lesions suspected of malignancy** Maciej Gnass (Myślenice, Poland), Joanna Sola, Stanisław Orzechowski, Monika Lis, Monika Skrobot, Juliusz Pankowski, Artur Bartczak, Artur Szlubowski
1579	**Transbronchial lung cryobiopsy (TLCB) in morphological and PCR diagnosis of tuberculosis and sarcoidosis** Igor Mamenko (St. Petersburg, Russian Federation), Igor Vasilev, Irina Tabanakova, Sultan Gasanmagomedov, Gleb Beliaev, Tatiana Novickaya, Viacheslav Zhuravlev, Piotr Yablonskii
1580	**Transbronchial Lung Cryobiopsy (TBLC) for Interstitial Lung Disease (ILD) can be safely done in patients with multiple medical comorbidities** Hariprasad Kalpakam (, India), Rajani Bhat, Sameer Bansal, Pooja Bajaj, Ravindra Mehta
1581	**Instant on site pathology of cryobiopsies in interstitial lung disease** Kirsten A. Mooij - Kalverda (Amsterdam, Netherlands), Laura Van Huizen, Teodora Radonic, Peter Bonta, Marloes Groot, Jouke Annema
1582	**Flexible bronchoscopy and the prognosis of esophageal cancer** V Fernandes (Maceira LRA, Portugal), J P Pereira, T M Alfaro, A J Ferreira, C R Cordeiro
1583	**Polarization sensitive optical coherence tomography (PS-OCT) for bronchoscopic airway imaging.** Pieta Wijsman (Amsterdam, Netherlands)
1584	**An improved technique in cryobiopsy of pleura** Syed Tousheed (Bangalore (Karnataka), India), Ravi Teja, Ph Manjunath, Hemanth Kumar, Sagar Chandrashekaraih, Bv Murali Mohan, Ranganath Ramanjenaya
1585	**Efficacy of medical thoracoscopy in thoracic empyema treatment** Valentina Pinelli (Sarzana, Italy), Guido Levi, Federica Novelli, Vanna Balestracci, Massimiliano Sivori, Giam Pietro Marchetti
1586	**Risk of subcutaneous emphysema following IPC insertion at local anaesthetic thoracoscopy** Alison Stockbridge (Birmingham, United Kingdom), Sarah Johnstone, Muhammad Tufail, R K Panchal
1587	**The utility of pleural fluid lactate dehydrogenase to adenosine deaminase ratio in pleural tuberculosis** Coenraad Frederik Nicolaas Koegelenberg (Cape Town, South Africa), Amanda Beukes , Jane Alexandra Shaw, Elvis M Irusen, Andreas H Diacon
1588	**Role of Indwelling Pleural Catheters in acheiving spontaneous pleurodesis in Hepatic Hydrothorax - Pioneer Retrospective Study from a Tertiary care centre,India** Sivagnaname Yuvarajan (PONDICHERRY (Tamil Nadu), India), Praveen Radhakrishnan, Antonious Maria Selvam, K Durga

Pre-congress content Session 119 00:00 - 23:59

E-poster session: Multidrug-resistant tuberculosis

Disease(s) : Airway diseases

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

Chairs : Keertan Dheda (Cape Town, South Africa), Sergey Evgenievich Borisov (Moscow, Russian Federation)

1589	**First countrywide observational study of acquired drug resistance among TB cases in Ukraine** Andrii Dudnyk (Vinnytsia, Ukraine), Yaroslava Haborets, Victoria Kapitula, Liudmyla Kulyk, Jose Dominguez
1590	**Video observed treatment for TB patients. Belarus experience.** Alena Skrahina (Minsk region, Belarus), Henadz Hurevich, Ekaterina Ilyasova, Vassily Akulov, Dmtry Klimuk, Viatcheslav Grankov, Aliaksandr Skrahin, Masoud Dara
1591	**Treatment of multidrug-resistant tuberculosis (MDR-TB) with modified shorter all-oral treatment regimen (mSTR) under operational research conditions in Belarus** Alena Skrahina (Minsk region, Belarus), Natalia Yatskevich, Henadz Hurevich, Viatcheslav Grankov, Dmitry Klimuk, Varvara Solodovnikova, Dmitry Viatushka, Aliaksandr Skrahin, Elmira Gurbanova, Masoud Dara
1592	**Line Probe Assay as a preliminary investigation for diagnosing resistant tuberculosis : A Single center experience** Deepak Muthreja (Nagpur (Maharashtra), India), Rajesh Swarnakar, Anil Sontakke
1593	**Incidence of cycloserine induced neurotoxicity in drug resistant TB patients attending a tertiary care hospital.** Pratibha Singhal (Mumbai (Maharashtra), India), Prajay Lunia, Kapil Salgia, Iram Syed

1594	**Adverse effects among MDR/XDR TB patients with viral hepatitus appearing during TB chemotherapy** Edik Vaniev (, Russian Federation), Anastasia Samoilova, Irina Vasilyeva, Olga Lovacheva, Tatyana Tyulkova
1595	**Proteasome Accessory Factor-C (PafC) as a potential regulator of mycobacterial survival in multi drug-resistant tuberculosis patients** APOORVA NARAIN, Rikesh Kumar Dubey, Ajay Kumar Verma, Anand Srivastava, Surya Kant
1596	**Induction of M. tuberculosis (MTB) drug resistance (DR) mutations in HIV-infected hosts and pathways of further spread of the evolutionary successful drug-resistant MTB clonal lines** Grigory Kaminskiy (Moscow, Russian Federation), Anna Panova , Eduard Karamov, Elena Veselova, Sergey Smerdin, Marina Leichliyader, Anastasia Samoilova, Irina Vasilyeva
1597	**Multivariate analysis of the effectiveness of bedaquiline-containing chemotherapy regimens in previously treated XDR TB patients** Nataliya Stavitskaya (Pushkino, Russian Federation), Nataliya Stavitskaya, Sergey Smerdin, Dmitriy Kudlay, Nataliya Doktorova, Osiet Tlif, Tatyana Petrenko, Tatiana Kolpakova
1598	**The effect of anti-tuberculosis chemotherapy using second-line drugs on the structural and functional state of the thyroid gland** Anzhela Polyakova (Moscow, Russian Federation), Atadzhan Ergeshov
1599	**Predictors of death in patients with MDR-TB and HIV** Larisa Rusakova, Sergey Saenko , Sergey Sterlikov
1600	**Frequency of side effects among patients with drug resistant tuberculosis (DR-TB) by resistance pattern in a high burden country.** KETAN MALU (MUMBAI, India), Jeffrey A Tornheim, Amita Gupta, Kishore Girija, Zarir F Udwadia
1601	**Rapid Molecular Diagnosis Of Multidrug-Resistant Tuberculosis in South Eastern Region of Romania** Ioan Anton Arghir (Constanta (Constanta), Romania), Simona Claudia Cambrea, Elena Dantes, Viorica Cojocaru, Ileana Ion
1602	**Tuberculosis in Estonia: a major impact of Russian MDR Mycobacterium tuberculosis Beijing B0/W148-cluster** Alena Gerasimova (St.Petersbourg, Russian Federation), Anna Vyazovaya, Klavdia Levina, Marge Kütt, Igor Mokrousov
1603	**Safety of the endobronchial valve use in the complex treatment of patients with destructive MDR/XDR TB associated with HIV infection.** Denis Krasnov (Novosibirsk, Russian Federation), Sergey Sklyuev, Yana Petrova, Elena Myshkova
1604	**CARDIAC DYSFUNCTION IN ACTIVE PULMONARY TUBERCULOSIS: DOUBLE TROUBLE!!** Shital Vishnu Patil (Latur (Maharashtra), India), Ganesh Narwade, Gajanan Gondhali
1605	**Application of next-generation sequencing to detect MTB resistance to first- and second-line anti-TB drugs** Anna Panova (Moscow, Russian Federation), Anatoliy Vinokurov, Denis Lagutkin, Alexandra Gracheva, Aleksander Nikolaev, Anastasia Samoilova, Irina Vasilyeva
1606	**Comparative analysis of M. tuberculosis drug susceptibility tests results in new multidrug-resistant tuberculosis cases and their confirmed contacts.** Anastasiia Russkikh (Moscow , Russian Federation), Konstantin Glebov, Anastasia Samoilova, Olga Lovacheva, Irina Vasilyeva, Yulia Timakova

Pre-congress content Session 120 00:00 - 23:59

E-poster session: Screening and early lung cancer

Disease(s) : Thoracic oncology Airway diseases

Method(s) : General respiratory patient care Imaging Endoscopy and interventional pulmonology Cell and molecular biology Public health Surgery Pulmonary rehabilitation

Chairs : Fernando Gamarra (Straubing, Germany), Diego Kauffmann-guerrero (Munich, Germany)

1607	**Diagnostic accuracy of St. Luke's – Lung Cancer Risk Prediction Scoring (SL - CaRPS), a novel tool in predicting malignancy among adult patients with CT – scan diagnosed pulmonary nodules** Eliezer James Aguila (Pasig, Philippines), Maria Nikki Cruz, Maria Janeth Samson, Jerald Gavin Lim
1608	**Use of NELSON screening to early detect lung cancer(LC) patients in the Portuguese population** Inês Sucena Pereira (Vila Nova de Gaia, Portugal), Adelaide Alves, Daniel Coutinho, Telma Costa, Eloisa Silva, Sérgio Campainha, Margarida Dias, Ana Barroso
1609	**Bronchiectasis and false positive cases in a lung cancer screening program** Maria Sanchez-Carpintero Abad (Orkoien (Navarra), Spain), Javier Zulueta, Juan Pablo De Torres, Ana Belen Alcaide, Pablo Sanchez Salcedo, Usua Montes, Gorka Bastarrika, Arantza Campo

1610	**Effect of the Liverpool Healthy Lung Programme on Outcomes in Lung Cancer** Mark Ambrose (Liverpool, United Kingdom), Emily Hoodless, Michelle Woods, Martin Ledson, Martin Walshaw
1611	**Current situation of a smoking cessation and lung cancer screening programme in a Spanish third level hospital** Rosa Mirambeaux Villalona (Madrid, Spain), Deisy Barrios Barreto, Luis Gorospe Sarasua, Diurbis Velasco Alvarez, Carlos Almonacid Sánchez, Paola Arrieta Narváez, Isabel Hornero
1612	**Prevalence of lung cancer in patients with atherosclerotic peripheral arterial disease:meta-analysis of literature data** FLORE BINTEIN (Paris, France), Alexandra Yannoustsos, Gilles Chatellier, Manon Fontaine, Diane Damotte, Patrizia Paterlini-Bréchot, Guy Meyer, Véronique Duchatelle, Valeria Marini, Karl-Léo Schwering, Cécile Labrousse, Hélène Beaussier, Marc Zins, Sergio Salmeron, Jean-Patrick Lajonchère, Pascal Priollet, Joseph Emmerich, Jean Trédaniel
1613	**Characteristics of solid parts on the prognosis of lung cancer less than 2 cm in size** Jia-Jun Wu (Taichung, Taiwan), Chih-Ying Wu, Ching-Yang Wu, Chih-Liang Wang, Tsung-Ying Yang, Jeng-Sen Tseng, Kuo-Hsuan Hsu, Yen-Hsiang Huang, Chung-Ping Hsu, Cheng-Yen Chuang, Chih-Hung Lin, Chien-Hua Tseng, Kun-Chieh Chen, Gee-Chen Chang
1614	**What is the value of diagnostic bronchoscopy in haemoptysis patients with a normal or benign CT scan?** Avinash Aujayeb (newcastle, Mauritius), Karl Jackson, Rebecca Lapsley, Rebecca Webster, Robert Johnston, Sarah Welsh, Dan Mitchell, Hussun-Ara Shah
1615	**Objective measurement of tumor central location can predict nodal involvement in patients with cT1N0M0 non-small cell lung cancer** Mireia Martinez Palau (Terrassa, Spain), Bruno Garcia Cabo, Teodora Pribic, Bienvenido Barreiro Lopez, Lluis Esteban Tejero, Ramon Rami Porta, Sergi Call Caja, Carme Obiols Fornell, Mireia Serra Mitjans, Jose Sanz Santos
1616	**The prevalence of occult N2/3 NSCLC in tumours with a central location, size larger than 3cm or N1 disease on imaging: a single-centre retrospective study.** Felicity Liew (London, United Kingdom), Katherine Groom, Amy Shearer, Clare Ross, Rudy Sinharay
1617	**Detection of lung cancer micrometastases in lymph nodes aspirates by flow cytometry.** Agata Raniszewska (Warszawa, Poland), Iwona Kwiecień, Rafał Sokołowski, Joachim G.J.V Aerts, Joanna Domagała-Kulawik
1618	**Deeper into the mediastinum: Topographical distribution and histological patterns of occult pN2 disease in NSCLC patients .** Dimitris Lioumpas (Athens, Greece), Periklis Tomos, Stylianos Zaragkas, Dimitrios Fillipou, Nikolaos Tzatzadakis, Thrasyvoulos Michos, Nantia Fili, Ioannis Stamatatos, Christina Balakera, Ilias Samiotis, Konstantinos Bouboulis, Athanasios Kleontas
1619	**Experience with Radial endobronchial ultrasound for the diagnosis of bronchoscopically invisible lung lesions in a cancer hospital** Anurag Deshpande (Noida (Uttar Pradesh), India), Jeenam Shah, Ajay Ravi, Rajiv Goyal
1620	**Recognition of aberrant promoter methylation for early diagnosis of lung cancer patients** Supriya Karpathak (Lucknow, India), Rajiv Garg, Mohammad Kaleem Ahmad, Sunil Kumar, Anurag Kumar Srivastav, Prashant Mani Tripathi
1621	**EBUS-TBNA in Mediastinal Staging of Lung Cancer – Indian Experience** Maheema A. Bhaskar (Mumbai (Maharashtra), India), Pavankumar Biraris, S Prakash, Sandeep P. Tandon
1622	**Evaluation of Primary care access to CT scans for patients suspected Lung Cancer with normal chest x-ray** Amrithraj Bhatta (Manchester, United Kingdom), Anju Mirakhur, Marion Bennie
1623	**Stage I lung cancer patients with or without symptoms – are the patients any different?** Heidi Madsen (Århus N, Denmark), Ebbe Bredtoft, Torben Riis Rasmussen
1624	**Short Term Multidisciplinary Pulmonary Rehabilitation Is Effective In Early Stage Non Small Cell Lung Cancer** Seher Satar (Ankara, Turkey), Ipek Candemir, Pınar Ergun

Pre-congress content Session 121 00:00 - 23:59

E-poster session: Localised non-small cell lung cancer

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

Method(s) : Endoscopy and interventional pulmonology | General respiratory patient care | Surgery | Imaging | Pulmonary function testing | Physiology

Chairs : Rudolf M. Huber (Munich, Germany), Adrien Costantini (Paris, France)

1625	**Late Breaking Abstract - Effects of bronchoscopic tumor excision on prognosis of lung tumors causing bronchial obstruction** Huseyin Yildiran (Konya, Turkey), Guven Sadi Sunam, Atilla Can
1626	**Novel method for bronchial stump coverage for prevents postpneumonectomy bronchopleural fistula: pedicled thymopericardial fat flap, Retrospective analyzes of 98 patients** Kenan Can Ceylan (İzmir, Turkey), Güntuğ Batıhan, Şeyda Örs Kaya
1627	**The use of predicted vs actual haemoglobin in the calculation of gas transfer (TLCO) in lung cancer pathways** Giles Dixon (Badminton, United Kingdom), Mark Hardyman, Tasmin Sharley, Andrew Low
1628	**Cardiopulmonary exercise testing in patients with non-small cell lung cancer: maximality criteria analysis.** Francis-Edouard GRAVIER (Bois-Guillaume, France), Tristan Bonnevie, Fairuz Boujibar, Clément Medrinal, Guillaume Prieur, Yann Combret, Jean-François Muir, Jean-Marc Baste, David Debeaumont, Antoine Cuvelier
1629	**Characteristics and survival analysis of synchronous oligometastatic non-small cell lung carcinoma.** Gonçalo António Cintrão Samouco (Agualva-Cacém, Portugal), Teresa Almodôvar, José Duro Da Costa
1630	**Quality of life 3 months following lung cancer resection** Morten Borg (Aalborg SV, Denmark), Torben Hansen, Nanna Weigelt, Torben Riis, Anders Løkke
1631	**Surveillance imaging and recurrence rates following surgery for non-small cell lung cancer (NSCLC).** Liam Stapleton (Glasgow, United Kingdom), Ahmed Alkarn, John Maclay, Joris Van Der Horst
1632	**Comparison of perioperative and early postoperative results of VATS and thoracotomy in patients underwent pneumonectomy** Kenan Can Ceylan (İzmir, Turkey), Güntuğ Batıhan, Şeyda Örs Kaya, Soner Gürsoy
1633	**Accuracy of pre-operative staging of non-small cell lung cancer in the West of Scotland** Ahmed Alkarn (Assiut, Egypt), Joris Van Der Horst, John Maclay
1634	**Endobronchial Treatment of Benign Endobronchial Neoplasms: in our 10 years of experience** Demet Turan (, Turkey), Mehmet Akif Özgül, Ekrem Cengiz Seyhan, Efsun Uğur, Güler Özgül, Erdoğan Çetinkaya
1635	**Resected Non-Small Cell Lung Cancer : A 5-year Experience** Ahmed Haque (Gillingham, United Kingdom), Andrea Bille, Kolera Chengappa, Thomas Sanctuary, Vijayakumar Ganesh, Maria Acosta
1636	**Psychological distress and long-term recovery in lung resection patients** Janet Rodriguez Torres (Granada, Spain), María Granados Santiago, Alejandro Heredia Ciuró, Andrés Calvache Mateo, Ascensión Rodríguez Rodríguez, Marie Carmen Valenza
1637	**Clinicopathologic features of patients with non-small cell lung cancer and chronic obstructive pulmonary disease undergoing lung cancer surgery** Sladjana Radosavljevic (Novi Sad, Republic of Serbia), Ilija Andrijevic, Jovan Matijasevic, Dusanka Obradovic, Stoja Krunic, Senka Milutinov Ilic, Aleksandar Bokan
1638	**A retrospective analysis of risk factors for Durvalumab related interstitial lung disease after chemoradiotherapy in Stage III NSCLC** Nobuyuki Hirama (Kanagawa, Japan), Masaki Yamamoto, Hiromi Kanaoka, Tatuya Muraoka, Kouhei Somekawa, Momo Hirata, Tisato Kamimaki, Syuuhei Ikeda, Sousuke Kubo, Usio Ryouta, Saki Manabe, Makoto Kudou, Takesi Kaneko
1639	**Performance status and body mass index : prognosis impact of their changes in patients with stage III NSCLC** yasmine hadidene, Hela Kamoun, Azza Slim, Amal Saidani, Hedia Bellali, Hajer Ben Abdelghaffar, Hanen Smadhi, Dorra Greb, Hassen Hela, Leila Fkih, Med Lamine Megdiche
1640	**Instant on-site histological analysis of fresh lung tumor tissue using third and second harmonic generation microscopy** Laura Van Huizen (Amsterdam, Netherlands), Tess Kramer, Danielle Seinstra, Teodora Radonic, Chris Dickhoff, Hans Daniels, Idris Bahce, Peter Bonta, Jouke Annema, Marloes Groot
1641	**The efficacy of EBUS-guided cryobiopsy for peripheral pulmonary lesions.** Kei Morikawa (Kawasaki (Kanagawa), Japan), Hirotaka Kida, Hiroshi Handa, Naoki Furuya, Hiroki Nishine, Takeo Inoue, Hisashi Saji, Junki Koike, Masamichi Mineshita

Pre-congress content Session 122 00:00 - 23:59

E-poster session: Molecular alterations and immunology in lung cancer

Disease(s) : Thoracic oncology | Airway diseases | Respiratory critical care

Method(s) : Cell and molecular biology | General respiratory patient care | Pulmonary function testing | Surgery

Chairs : Wouter H. van Geffen (Leeuwarden, Netherlands), Georgia Hardavella (Athens, Greece)

1642	**Late Breaking Abstract - The role of the transcription factor PU.1 in lung cancer** Katja Hohenberger (Herzogenaurach, Germany), Denis Trufa, Carol Gebbert, Ralf Rieker, Horia Sirbu, Susetta Finotto
1643	**Late Breaking Abstract - Role of phosphorylated Signal Transducer and Activator of Transcription 5 (pSTAT5) in non-small cell lung cancer (NSCLC)** Patrick Tausche (Erlangen, Germany), Denis I. Trufa, Carol-Immanuel Geppert, Ralf J. Rieker, Horia Sirbu, Susetta Neurath-Finotto
1644	**Dynamic monitoring of plasma DAMP proteins during various anticancer agents in advanced lung cancer patients** Hiroyuki Inoue (Fukuoka, Japan), Hirono Tsutsumi, Yoshimasa Shiraishi, Koji Okamura, Keiichi Ota, Yasuto Yoneshima, Eiji Iwama, Kentaro Tanaka, Isamu Okamoto
1645	**Germline mutations in young never-smokers with lung adenocarcinoma** Wenxin Luo (, China), Weimin Li
1646	**Analysis of the structures and functions of N-glycans of MET** Atsushi Saitou (Sapporo, Hokkaido, Japan), Motoko Takahashi, Saori Yokoyama, Naoki Fujitani, Sigeru Ariki, Atsushi Saito, Kouji Kuronuma, Hirohumi Chiba, Hiroki Takahashi
1647	**Molecular hallmarks of smoking in the Gauting lung adenocarcinoma donors** Anne-Sophie Lamort (München, Germany), Mario A.A. Pepe, Sabine J. Behrend, Ioannis Lilis, Giannoula Ntaliarda, Magda Spella, Willem Kujawa, Michael Lindner, Ina Koch, Rudolf A. Hatz, Jürgen Behr, Georgios T. Stathopoulos
1648	**Reduction of drug resistance through calcium control in epidermal growth factor receptor tyrosine kinase inhibitor (EGFR TKI) resistant lung cancer cells** Sei-hoon Yang (Iksan, Republic of Korea), Mi-Seong Kim, So-Hui Kim, Min-Seuk Kim
1649	**Relationship between Cancer-associated fibroblast and programmed death ligand 1 expression in non-small cell lung cancer** Hiroyasu Kobayashi (Suzuka, Japan), Hiroyasu Kobayashi
1650	**IMMUNOLOGICAL EVENTS AND SURVIVAL IN LUNG CANCER PATIENTS WITH COPD** Jun Tang (, China), Xuejie Wang, Liyun Qin, Victor Curull, Merce Mateu-Jiménez, Daniel Ramis-Cabrer, Lara Pijuan, Alberto Rodríguez-Fuster, Rafael Aguiló, Esther Barreiro Portela
1651	**Molecular profiling of Sq-NSCLC with enhanced FGFR1-4 and MET gene expression – NGS pilot study.** Joanna Moes-Sosnowska (Warsaw, Poland), Ewa Szczepulska-Wojcik, Adrianna Rozy, Renata Langfort, Piotr Rudzinski, Tadeusz Orlowski, Monika Skupinska, Delfina Popiel, Maciej Wieczorek, Aleksandra Stanczak, Joanna Chorostowska-Wynimko
1652	**Biomarkers of lung cancer based on the expression of genes, transposons and repetitive elements** Macarena Arroyo Varela (Malaga, Spain), Esperanza Salcedo Lobera, Rafael Larrosa Jiménez, M. Gonzalo Claros Díaz, Rocio Bautista Moreno
1653	**EVI5 is an oncogene that regulates the proliferation and metastasis of NSCLC cells** Tingting Cai (, China), Jieqi Zhou, Yang Zhang, Yuanyuan Zeng, Wenwen Du, Ting Liu, Yulong Fu, Jian-An Huang, Jianjie Zhu, Chunhua Ling, Zeyi Liu
1654	**The genetic expression LGI3 (Leucine rich repeat LGI family member 3) among different NSLC cell lines and its effect on proliferation of cancer cells** JongWook Shin (Seoul, Republic of Korea), In Won Park, Jae Woo Jung, Jae Chul Choi, Sang-Eun Lee, Hye-Young Yun
1655	**Immunomodulating properties of FasL+ lung cancer cells identified in lymph nodes aspirates of NSCLC patients** Agata Raniszewska (Warszawa, Poland), Iwona Kwiecień, Elżbieta Rutkowska, Rafał Sokołowski, Joanna Domagała-Kulawik
1656	**Immunosuppressive properties of human PD-1+ PDL-1+ dendritic cell from Lymph Nodes Aspirates of NSCLC patients.** Iwona Kwiecień (Warszawa, Poland), Elżbieta Rutkowska, Rafał Sokołowski, Joanna Bednarek, Agata Raniszewska, Karina Jahnz-Różyk, Piotr Rzeepecki, Joanna Domagała-Kulawik
1657	**Caspase recruitment domain containing protein 9 suppresses non-small cell lung cancer proliferation and invasion via inhibiting MAPK/p38 pathway** Shuilian Zhu (, China), Linyue Pan, Haiyan Ge
1658	**Association between cyclooxygenase inhibitor use and efficacy of immunotherapy: a retrospective study** Osamu Kanai (Kyoto, Japan), Kohei Fujita, Misato Okamura, Kanna Horimoto, Masayuki Hashimoto, Koichi Nakatani, Satoru Sawai, Tadashi Mio

1659 **An implantable rutin incorporated PCL/collagen electrospun nanofibers for effectivegrowth inhibition of lung cancer cells: Possible application in prevention of lung cancerlocal recurrence**
Shadi Doosti (, Turkey), Selman celik, Mohamad Ali Karimi

1660 **MiR-34a favours macrophage polarization switch from M2 to M1 phenotype in non small cell lung cancer (NSCLC)**
Mansoor Ali Syed (New Delhi (Delhi), India), Shweta Arora, Shakir Ali

Pre-congress content Session 123 00:00 - 23:59

E-poster session: Management of chronic lung conditions

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

Method(s) : Epidemiology Public health Pulmonary function testing

Chairs : Peymane Adab (Birmingham (West Midlands), United Kingdom), Chair to be confirmed

1661 **Assessment of health-related quality of life and hospital admission costs of domiciliary High-Flow nasal cannula treatment for severe COPD with chronic hypoxic failure**
Sabrina Storgaard Sørensen (, Denmark), Ulla Møller Weinreich, Line Hust Storgaard

1662 **The association of FVC with quality of life – The PneumoLaus|PsyCoLaus study**
Brice Touilloux (Lausanne, Switzerland), Alexandra Lenoir, Jean-William Fitting, Peter Vollenweider, Marie-Pierre F. Strippoli, Martin Preisig, Laurent P. Nicod

1663 **Presentation and management of primary and secondary spontaneous pneumothoraces in Ayrshire, a semi-rural population health district - a 5-year retrospective study, 2014 to 2018**
Lorna Stillie (Glasgow, United Kingdom), Walaa Aldairy, Shafeer Rishad, Anur R Guhan

1664 **Risk factors for impaired pulmonary function in adult survivors of childhood hematological and non-hematological malignancies**
Lucia Spicuzza (Sant'Agata Li Battiati (CT), Italy), Emanuela Cannata, Lisa Angileri, Giovanna Russo, Andrea Di Cataldo, Nunzio Crimi

1665 **Healthy Diet scores and asthma symptoms in elderly women**
Wassila Ait-hadad (Villejuif, France), Annabelle Bédard, Sébastien Chanoine, Orianne Dumas, Nasser Laouali, Nicole Le Moual, Bénédicte Leynaert, Conor Macdonald, Valérie Siroux, Marie-Christine Boutron-Ruault, Raphaëlle Varraso

1666 **Health state utilities in adult Primary Ciliary Dyskinesia patients**
Panayiotis Kouis (Nicosia, Cyprus), Stavria Artemis Elia, Maria G. Kakkoura, Phivos Ioannou, Pinelopi Anagnostopoulou, Panayiotis K. Yiallouros

1667 **INHALED CORTICOSTEROIDS AND RISK OF OSTEOPOROSIS IN LATE-MIDDLE AGE SUBJECTS: A MULTICENTER EUROPEAN COHORT STUDY**
Davide Piloni (Pavia, Italy), Amelia Grosso, Maria Elisabetta Zanolin, Lucia Cazzoletti, Veronica Mattioli, Erica Gini, Federica Albicini, Vanessa Ronzoni, Isa Cerveri, Angelo Guido Corsico, Debbie Jarvis, Christer Janson

1668 **Factors Associated With 90-day Readmission in Inpatients with Chronic Obstructive Pulmonary Disease**
Fen Dong (Beijing, China), Ke Huang, Xiaoxia Ren, Yanyan Wang, Jianjun Jiao, Ting Yang

1669 **Depressive symptoms and their association with sleep disorders in the Chilean adult population**
Juan Carrillo (Calama, Chile), Ana Concha, Verónica Sánchez, Sonia Jara, Vladimir Castillo

1670 **The Effect of Dietary Fiber and Nutrients Intake on the Lung Function and COPD in Korean Adults**
Young Ju Jung (Seoul, Republic of Korea), Se Hee Lee , Ji Ho Chang , Hye Seung Lee , Eun Hee Kang , Se-Won Lee

1671 **Economic and Health Consequences of Spouses of Lung cancer Patients in Denmark 1998–2010**
Anja Gouliaev (Viby J, Denmark), Ole Hildberg, Anders Løkke

1672 **Prevalence of Latent Tuberculosis in Patients with Chronic Kidney Disease of Non Diabetic Origin in Central Sri Lanka**
Dushantha Madegedara (Peradeniya, Sri Lanka), Birendra Perera, Sachini Senevirathna, Sajani Darmadasa, Lakmi S.A., Iselda Nawerathna, Lihini Basnayake

1673 **Healthcare resource use and related costs in patients receiving nintedanib or pirfenidone for idiopathic pulmonary fibrosis**
Philippe Bonniaud (Dijon, France), Vincent Cottin, Paolo Spagnolo, Maëva Nolin, Faustine Dalon, Klaus-Uwe Kirchgässler , Jenny Chia, Tripthi Kamath, Eric Van Ganse, Manon Belhassen

1674 **Level of education and asthma control in adult-onset asthma in Finland and Sweden - A report from the Nordic EpiLung Study**
Caroline Stridsman (Luleå, Sweden), Pinja Ilmarinen, Muwada Bashir Awad Bashir, Leena E Tuomisto, Iida Vähätalo, Emma Goksör, Hannu Kankaanranta, Helena Backman, Eva Rönmark, Bo Lundbäck, Bright I Nwaru, Göran Wennergren

1675 **Socioeconomic impact of chronic cough in Northern Europe**
Össur Ingi Emilsson (Uppsala, Sweden), Henrik Johansson, Ane Johannessen, Mathias Holm, Bertil Forsberg, Vivi Schlünssen, Rain Jogi, Eva Lindberg, Andrei Malinovschi

1676 **Influence of healthcare resource provision on population mortality rate due to respiratory diseases in the Russian Federation**
Victor P. Kolosov (Blagoveshchensk (Amur Oblast), Russian Federation), Leonid G. Manakov, Elena V. Polyanskaya

1677 **Analysis of medical and social factors of TB/HIV in the Siberian Federal District, the city of Novosibirsk and the region**
Elena Pushkareva (Novosibirsk, Russian Federation), Tatyana Kolpakova

1678 **Characterization of lung function trajectories in the Raine Study**
Francesca Sanna (Perth, Australia), Francesca Locatelli, Peter D Sly, Elisha White, Graham L Hall, Rachel E Foong

1679 **Bronchial Obstruction goes largely undiagnosed in Italian Elderly: the "Io-Respiro" Project**
Isabella Annesi Maesano (Paris, France), Fernando De Benedetto , Giuseppe Corbo, Marzia Simoni, Maria Rosaria Manigrasso , Stefano Nardini

1680 **Real-world treatment patterns of mepolizumab therapy in Canada**
Stephen G Noorduyn (Mississauga, Canada), Stephen G Noorduyn, Lawrence Mbuagbaw, Alain Gendron, Michelle L Knutson, Niroshan Sriskandarajah, Jason K Lee

Pre-congress content — Session 124 — 00:00 - 23:59

E-poster session: Real-world data and registries of thoracic oncology

Disease(s) : Thoracic oncology Airway diseases

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

Chairs : Tuncay Göksel (Izmir, Turkey), David Heigener (Rotenburg (Wuemme), Germany)

1681 **Lung cancer survival in never smokers. Results from the LCRINS study**
Ana Casal (vigo, Spain), María Torres, Isaura Parente, Mariano Provencio, Antonio Golpe, Carmen Montero, Iria Vidal, Virginia Leiro, Cristina Martínez, Olalla Castro, Alberto Fernández, Luis Valdés, Alberto Ruano

1682 **Nationwide real-world cohort study of first line TKI treatment in epidermal growth factor receptor mutated non-small cell lung cancer.**
Rolof G.P. Gijtenbeek (Leeuwarden, Netherlands), Ronald A.M. Damhuis, Harry J.M. Groen, Anthonie J. Van Der Wekken, Wouter H. Van Geffen

1683 **Real-life effectiveness of first-line treatments in NSCLC patients stage IIIB/IV– data from the Czech TULUNG Registry.**
Kristian Brat (Brno, Czech Republic), Monika Bratova, Jana Skrickova, Magda Barinova, Karolina Hurdalkova, Milos Pesek, Martin Svaton, Libor Havel, Marketa Cernovska, Leona Koubkova, Michal Hrnciarik, Jana Krejci, Juraj Kultan, Ondrej Fischer, Milada Zemanova, Helena Coupkova, Tana Tuzova, Daniel Dolezal, Martin Safanda

1684 **The gendered Experience of mesothelioma study (GEMS): findings from a survey data analysis**
Michaela Senek (Sheffield , United Kingdom), Angela Tod, Steven Robertson

1685 **Natural course of asymptomatic malignant pleural effusion in non-small-cell lung cancer patients: a multicenter retrospective study**
Jung Seop Eom (Busan, Republic of Korea), Ji Yeon Roh, Insu Kim, Hee Yun Seol, Min Ki Lee

1686 **Epidermal growth factor receptor (EGFR) gene mutation testing prior to tyrosine kinase inhibitors (TKI) treatment – prospective data from the Czech TULUNG registry**
Jana Skřičková (Brno 35, Czech Republic), Petra Májková, Magda Bařinová, Monika Bratová, Miloš Pešek, Martin Svatoň, Vítězslav Kolek, Ondřej Fišer, Leona Koubková, Andrea Benejová, Ondřej Venclíček, Markéta Černovská, Libor Havel, Michal Hrnčiarik, Jaromír Roubec, Zemanová Milada, Petr Opálka, Jana Krejčí, Dan Krejčí, Helena Čoupková, Zdeněk Merta

1687 **Efficacy and prognostic factors of first-line afatinib treatment for the EGFR-mutated non-small cell lung cancer in the real world**
Tzu Hsuan Chiu (Taoyuan, Taiwan), Chi-Hsien Huang, Chih-Hsi Scott Kuo

1688	**Treatment sequencing in NSCLC EGFR+ – real-world data** Ana Luisa Fernandes (Matosinhos, Portugal), Margarida Dias, Daniel Coutinho, Eloisa Silva, Telma Costa, Sérgio Campainha, Sara Conde, Ana Barroso
1689	**Clinical and molecular features of V600E and non-V600E BRAF mutations in NSCLC – a retrospective monocentric observational study** caroline phillips (london, United Kingdom), Gesa Rafflenbeul, Torsten Gerriet Blum, Jens Kollmeier, Daniel Misch, Monica Schäfer, Susann Stephan-Falkenau, Anna Streubel, Sebastian Thiel, Thomas Mairinger, Torsten Bauer
1690	**Study of current trend of thoracic malignancy in young adults at a tertiary care center** Darshan Kumar Bajaj (Lucknow (Uttar Pradesh), India), Surya Kant, Richa Tyagi, Jyoti Bajpai, Abhishek Dubey, R A S Kushwaha, Ajay Kumar Verma, K Vignesh, Mona Asnani
1691	**Non small cell lung cancer: options and outcome of treatment beyond second line** Tamás Erdélyi (Budapest, Hungary), Andrea Bíró, Zsombor Matics, Lilla Koch, Lilla Tamási, Veronika Müller
1692	**Pembrolizumab versus nivolumab as second and further line treatment in non-small cell lung cancer; a retrospective single-centre study** Maria Mitsogianni (Athens, Greece), Maria Mitsogianni, Dimitrios Vassos, Ilias Kotteas, Vasileios Patriarcheas, Antonios Vassias, Lamprini Stournara, Ioannis Tourkantonis, Dimitra Stefanou, Andriani Charpidou, Konstantinos Syrigos
1693	**Osimertinib as a second-line treatment for EGFR-mutated non-small cell lung cancer: the experience of a Pulmonology department** Daniela Dantas Barreto Rodrigues (Barcelos, Portugal), Catarina Lacerda, Filipa Aguiar, Maria João Araújo, Diana Pimenta, Lurdes Ferreira
1694	**Progression after osimertinib in EGFR T790M-mutated non-small cell cancer patients** David Jorge Araújo Barros Coelho (Braga, Portugal), Catarina Sousa, Maria Jacob, Leonor Almeida, David Araújo, Helder Novais-Bastos, Adriana Magalhães, Conceição Souto Moura, Luis Cirnes, Venceslau Hespanhol, Henrique Queiroga, Gabriela Fernandes
1695	**IMPORTANT BENEFITS OF EBUS-TBNA IN ASSESSING PD-L1 EXPRESSION IN NSCLC** Gianna Vargas Centanaro (Madrid, Spain), Elena Forcen , Beatriz Morales, J.L Alvarez-Sala , Myriam Calle, M. Jose Bernabe
1696	**Clinical and computed tomography features (CT) of lung adenocarcinoma with epidermal growth factor receptor (EGFR) mutation and anaplastic lymphoma kinase (ALK) status** Rosa Abril Castañón Pérez (Burgos, Spain), Gustavo Gutiérrez Herrero, Haizea Álvarez Martínez, Pablo Lozano Cuesta, Omar Sánchez Martin, María Arias Fuente, Lucia Castallanos Romero, Luis Carlos Rodríguez Pascual
1697	**Effectiveness of oral metronomic Vinorelbine versus Docetaxel as second-line treatment in Non-Small Cell Lung Cancer patients in real life** Angeliki Rapti (Lagonisi-Athens, Greece), Asimina Nikolakopoulou, Konstantinos Tzimopoulos, Emily Tsaroucha, Katerina Kavvada

Pre-congress content — Session 125 — 00:00 - 23:59

E-poster session: Thoracic surgery: lung cancer and infectious disease

Disease(s) : Thoracic oncology | Pulmonary vascular diseases | Airway diseases

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

Chairs : Luca Bertolaccini (Milan, Italy), Paul E. Van Schil (Edegem (Antwerp), Belgium)

1698	**lung hydatid cyst from childhood to adulthood** Sarra Ammari (Manouba, Tunisia), Sarra Zairi, Mehdi Abdennadher, Imene Bouassida , Amira Dridi, Taher Mestiri, Hazem Zribi, Adel Maraghli
1699	**Chest wall hydatidosis: a case series of 26 patients** amina abdelkbir (ben arous, Tunisia), Asma Saad, Bouassida Imen, Hazem Zribi, Sonia Ouerghui, Aida Ayedi, Marghli Adel
1700	**Lung hydatid cysts in children: how to manage?** mariem hadj dahmane (ariana , Tunisia), Sarra Zairi, Amira Dridi, Mehdi Abdenadher, Basma Hamdi, Imen Bouassida, Tahar Mestiri, Agnes Hamzaoui, Hazem Zribi, Adel Marghli
1701	**Place of major resection in treatment of pulmonary hydatid cyst: report of 403 cases.** amina abdelkbir (ben arous, Tunisia), Imen Bouassida, Houcem Messaoudi, Hazem Zribi, Sarra Maazaoui, Maha Touaibia, Ayda Ayedi, Adel Marghli

1702	**Treatment of relapsed hydatid disease of lungs.** Shukhrat Khudaybergenov (Tashkent, Uzbekistan), Otabek Eshonkhodjaev, Rustem Hayaliev, Dilyara Mazinova
1703	**When conservative surgery is sufficient in treatment of pulmonary aspergilloma ?** amina abdelkbir (ben arous, Tunisia), Imen Bouassida, Manel Chemakh, Hazem Zribi, Sarra Maazaoui, Mouna Mlika, Tahar Mestiri, Adel Marghli
1704	**Mycobacterial non-tuberculosis infection in patients operated on for pulmonary tuberculosis** Vilayat Aliev (Moscow, Russian Federation), Larisa Lepeha, Elena Krasnikova, Tatyana Smirnova, Svetlana Sadovnikova, Mamad Bagirov
1705	**The surgical treatment of lung bronchiectasis.** Otabek Eshonkhodjaev (Tashkent, Uzbekistan), Shuhrat Khudaybergenov, Rustem Hayaliev, Sharif Rahimiy
1706	**Solitary Fibrous Tumours (SFTs) of Pleural and Lungs; rare yet challenging from a surgical and clinical aspect** Ioannis Karampinis (Athens, Greece), Georgia Hardavella, Antonios Katsipoulakis, Violetta Lempesi, Panagiotis Demertzis, Nikolaos Anastasiou
1707	**The features of rare pulmonary tumors and their surgical treatment** Evgenii Zinchenko (Saint-Petersburg, Russian Federation), Vadim Pischik, Aleksander Kovalenko, Olga Maslak
1708	**Incidence of atrial fibrillation after lung resection surgery and corelation with right atrial strain** Sheenam Walia (Chandigarh, India), G D Puri
1709	**Pneumonectomy is an injury or still an effective method of treatment?** Kalliopi Athanassiadi (Athens, Greece), Ioannis Alevizakis, Aikaterini Katsandri, Dimitrios Magouliotis, Aikaterini Maragkouti, Konstantina Romana, Niki Gianniou, Ioanna Sigala, Konstantinos Antonopoulos, Pantelis Kourgiantakis, Michael Vaslamatzis, Christina Routsi, Spyridon Zakynthinos
1710	**Correlation of the postoperative complications with the predicted pulmonary function after pneumonectomy in pulmonary tuberculosis patients** Larisa Kiryukhina (St. Petersburg, Russian Federation), Nina Denisova, Natalia Nefedova, Sofia Kovaleva, Elena Kokorina, Armen Avetisyan, Evgeny Sokolovich, Pyotr Yablonskii
1711	**Transtracheal closure of bronchopleural fistula following postpneumonectomy with atrial septal defect occluder** Zili Meng (Shijiazhuang, China), Jia Meng, Ying Yang

Pre-congress content — Session 126 — 00:00 - 23:59

E-poster session: Thoracic surgery: developments in diagnostics and outcomes

Disease(s) : Thoracic oncology | Respiratory critical care | Airway diseases | Interstitial lung diseases | Pulmonary vascular diseases

Method(s) : Surgery | Pulmonary function testing | Endoscopy and interventional pulmonology | Respiratory intensive care | General respiratory patient care | Imaging | Physiology

Chairs : Kalliopi Athanassiadi (Athens, Greece), Stefano Elia (Roma (RM), Italy)

1712	**Late Breaking Abstract - The guillotine technique for artery and bronchus in VATS lobectomy** Huseyin Yildiran (Konya, Turkey), Guven Sadi Sunam
1713	**Anterior mediastinal plasty during pneumonectomy as prevention of mediastinal hernia in patients with widespread pulmonary tuberculosis.** Elena Krasnikova (Moscow, Russian Federation), Anush Ergeshova, Vilayat Aliev, Ruslan Tarasov, Mamed Bagirov
1714	**Multidisciplinary approaches in the surgical treatment of cicatrical stenosis of the trachea.** Rustem Hayaliev (Tashkent, Uzbekistan), Shuhrat Khudaybergenov, Otabek Eshonkhodjaev
1715	**Is it futile to perform blindly apical wedge resection in primary spontaneous pneumothorax surgery?** Cagatay Tezel (Istanbul, Turkey), Mustafa Vayvada, Yelda Tezel
1716	**Thoracic surgery in the elderly** Filipa Lemos e Aguiar (Paredes, Portugal), Pedro Fernandes, Miguel Guerra
1717	**Individualized flow controlled ventilation compared to pressure controlled ventilation in one lung ventilation – a prospective, randomized porcine study** Patrick Spraider (Innsbruck, Austria), Julia Abram, Manuela Ranalter, Simon Mathis, Gabriel Putzer, Judith Martini
1718	**Pleurectomy/decortication for malignant pleural mesothelioma: a single-centre experience.** Lawek Berzenji (Wilrijk, Belgium), Dario Michaux, Suresh Krishan Yogeswaran, Annemie Van Breussegem, Patrick Lauwers, Jo Raskin, Jeroen Hendriks, Jan Van Meerbeeck, Paul Van Schil

1719	**Efficacy of lung volume reduction surgery in tracheotomized patients and weaning failure** Ali Akil (Ibbenbueren, Germany), Stephanie Rehers, Stephan Ziegeler, Mahyar Lavae-Mokhtari, Erik Ernst, Stefan Fischer
1720	**Results of surgical treatment of congenital lung malformation in adults: surgical evolution from thoracotomy to video-assisted thoracic surgery** Güntug Batihan (Izmir, Turkey), Kenan Can Ceylan, Ahmet Üçvet, Soner Gürsoy
1721	**Video-assisted thoracic surgery for patients with bronchiectasis** Güntug Batihan (Izmir, Turkey), Kenan Can Ceylan, Şeyda Örs Kaya, Ozan Usluer, Soner Gürsoy
1722	**Feasibility of extracorporeal membrane oxygenation in high-risk thoracic surgery** taehwa kim, Yun Seong Kim, Eun Jeong Son, Jin Ho Jang, Jinook Jang, Jae Heun Chung
1723	**Primary tracheal tumors : characteristics and management** amina abdelkbir (ben arous, Tunisia), Aymen Ben Ayed, Imen Bouaccida, Mahdi Abdennadher, Mouna Mlika, Amira Dridi, Hazem Zribi, Adel Marghli
1724	**Utility of the 3-minute chair rise test (3CRT) to assess cardiopulmonary fitness of patients with non-small cell lung cancer before lung resection.** Francis-Edouard GRAVIER (Bois-Guillaume, France), Mathilde Azzi, David Debeaumont, Tristan Bonnevie, Bernard Aguilaniu, Damiano Cerasuolo, Fairuz Boujibar, Antoine Cuvelier
1725	**New era in Oesophageal surgery; the art of combining sweet and sour flavours** Ioannis Karampinis (Athens, Greece), Georgia Hardavella, Theodore Mariolis, Antonios Katsipoulakis, Nikolaos Anastasiou
1726	**Could staple-line reinforcement on video-assisted thoracoscopic blebectomy prevent postoperative recurrent pneumothorax?** Masao Naruke (Tokyo, Japan)
1727	**Numbers and Stations: Impact of Examined Lymph Node on Precise Staging and Survival of Radiologically Pure-Solid Non–Small Cell Lung Cancer** Donglai Chen (Shanghai, China), Chang Chen, Yongbing Chen
1728	**Single unit experience in lobectomy for lung malignancy over a period of 2 years from a Tertiary care Respiratory hospital in Sri Lanka** Dilanka Tilakaratne (Colombo, Sri Lanka), Saman Pradeep, Anusha Kumuduni, Dhananjaya Wanigarathne, Ramani Punchihewa, Eshanth Perera, Dhammike Rasnayake
1729	**Prgnostic factors in lung cancer: is preoperative Geriatric Nutritional Risk Index an independent predictive factor?** Beatriz Abascal Bolado (Santander, Spain), Laura Sanchez Moreno, Teresa Diaz De Teran Lopez, Pablo Lozano Cuesta, Victoria Maderuelo Garcia, Claudia Loidi Lopez
1730	**Evolution of upper limb exercise capacity from surgery to after one-year lung cancer resection** Alejandro Heredia Ciuró (Granada, Spain), Andrés Calvache Mateo, Esther Prados Román, Janet Rodríguez Torres, Florencio Quero Valenzuela, Marie Carmen Valenza
1731	**Comparison of morphological and densitometric indicators of the inflammatory process activity for substantiation of the optimal terms of surgical treatment in patients with various forms of TB** Oleksii Denysov (Kyiv, Ukraine), Mykola Gumeniuk, Mykola Lynnyk, Galina Gumeniuk, Igor Kalabukha, Eugene Maietnyi

Pre-congress content — Session 127 — 00:00 - 23:59

E-poster session: Prognostic and predictive factors: treatment of lung cancer

Disease(s) : Thoracic oncology Airway diseases

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

Chairs : Joanna Domaga a-Kulawik (Warszawa, Poland), Dragana M. Jovanovi (Beograd, Republic of Serbia)

1732	**The importance of Ki-67 proliferation index in small cell lung cancer** Seda Beyhan Sagmen (Istanbul, Turkey), Coskun Dogan, Sevda Comert, Nesrin Kiral, Elif Torun Parmaksiz, Ali Fidan, Nagehan Ozdemir Barisik, Sule Karabulut Gul
1733	**Downregulation of mir-146a in peripheral blood mononuclear cells as a potential marker of NSCLC** Esmaeil Mortaz (Tehran, Islamic Republic of Iran), Neda K.Dezfuli, Shamila D.Alipour, Neda Dalil Roofchayee, Adnan Khosravi, Babak Salimi, Ian Adcock

1734	**A novel serum biomarker of type XXVIII collagen turnover is elevated in lung cancer but not in COPD** Annika Hummersgaard Hansen (Herlev, Denmark), Jannie Marie Bülow Sand, Diana Julie Leeming, Tina Manon-Jensen, Shu Sun, Morten Karsdal, Alexander Lynge Reese-Petersen, Federica Genovese
1735	**Evaluation of serum levels of Sirtuin-1 in lung cancer patients** Hassan Ghobadi-Marallu (Ardabil, Islamic Republic of Iran), Saeid Hosseininia, Aslan Ameli, Farhad Pourfarzi, Mohammad Reza Aslani
1736	**Type XIX collagen quantified in serum targeting the anti-tumorigenic NC1 domain is elevated in early and late stage lung carcinoma patients and COPD** Diana Julie Leeming (Herlev, Denmark), Jeppe Thorlacius-Usssing, Jannie M.B. Sand, Tina Manon-Jensen, Shu Sun, Morten Karsdal, Nicholas Villumsen
1737	**Role of complement activation product C4d as apredictor biomarker in lung cancer diagnosis : case control study** Luci Suliman (Mansoura, Egypt), Dina Abo Elkhair, Amr Moawad, Heba Shehawy
1738	**Response to Immunotherapy in non-small cell lung cancer: the effect of weight** Ana Luisa Fernandes (Matosinhos, Portugal), Margarida Dias, Adelaide Alves, Daniel Coutinho, Eloisa Silva, Telma Costa, Sérgio Campainha, Sara Conde, Ana Barroso
1739	**Relationship between blood monocyte subsets with activation markers and macrophages in non-small cell lung cancer** Iwona Kwiecień (Warszawa, Poland), Elżbieta Rutkowska, Małgorzata Polubiec-Kownacka, Piotr Rzepecki, Joanna Domagała-Kulawik
1740	**Prognostic value of haematological markers such as neutrophil-lymphocyte ratio (NLR) and platelet-lymphocyte ratio (PLR) in small cell lung cancer.** Mario Aparicio Vicente (Murcia, Spain), Eduardo García Pachón, Sheyla Yolany Ruiz Martínez, Laura Fernández Mula
1741	**Prognostic value of neutrophil to lymphocyte ratio in small cell lung cancer** Alia Ezzaouia (Tunis, Tunisia), Hajer Racil, Hager Kchouk, Sarra Maazaoui, Sonia Habibech, Aida Ayadi, Naouel Chaouch
1742	**Short-term efficacy of advanced NSCLC patients receiving anlotinib hydrochloride as the first and second-line treatment** Ning Chang (Xi'an, China), Yong Zhang, Jian Zhang
1743	**Our experience with crizotinib in the treatment of non-small cell lung cancer** Nimet Aksel (Izmir, Turkey), Mine Gayaf, Gulsum Ari, Murat Akyol
1744	**Clinical efficacy of 1st line EGFR-TKIs for NSCLC habouring EGFR mutation with high PD-L1 expression; A single-centered retrospective study** Yuki Nakamura (Matsusaka City, Mie Prefecture, Japan), Osamu Hataji, Kazuki Furuhashi, Yuta Suzuki, Tadashi Sakaguchi, Kentaro Ito, Kentaro Fujiwara, Yoichi Nishii, Osamu Taguchi, Esteban Cesar Gabazza
1745	**Neurological abnormalities and syphilitic serologic variation with nivolumab : a case of neurosyphilis?** Thomas Flament (Tours Cedex, France), Marion FERREIRA, Frédéric Bastides, Eric Pichon, Fanny Lisée, Sylvain Marchand-Adam, Thomas Flament
1746	**Compression therapy using surgical gloves and elastic stockings to prevent chemotherapy induced peripheral neuropathy (CIPN) in advanced non-small cell lung cancer.** Yoko Kida (Kobe, Japan), Rikiya Kouketsu, Toshiyasu Sakurai, Yusuke Inui, Tasuku Matsuoka, Kimihide Tada
1747	**Synchronous multiple primary lung cancers manifesting as multiple ground-glass nodules define a special clinical subtype** Wenxin Luo (, China), Wenmin Li
1748	**Association between young age and genomic alterations in never-smoker patients with non–small cell lung cancer** Wenxin Luo (, China), Weimin Li
1749	**Unique clinicopathological characteristics and favorable prognosis of young patients with non-small cell lung cancer** Wenxin Luo (, China), Weimin Li
1750	**Survival after intrapleural catheter (IPC) insertion for malignant pleural effusion (MPE): a retrospective audit of prognostic scoring tools in patients with MPE treated with an IPC in a district general hospital.** Erfanur Rahman Shuvo (COLCHESTER, United Kingdom), Frederick Jarvis, Rachel Lee, Lisa Wright, Rekha Badiger, Peter Hawkins
1751	**Tunnelled indwelling pleural catheters inserted post thoracoscopy** Philip Evans (Carmarthen, United Kingdom), Emma Shiels, Alina Ionescu

Pre-congress content Session 128 00:00 - 23:59

E-poster session: Biological mechanisms of lung cancer

Disease(s) : Thoracic oncology Airway diseases

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

Chairs : Sam Janes (London, United Kingdom), Armin Frille (Leipzig, Germany)

1752	**Correlation of programmed death-ligand 1(PD-L1) expression in lung cancer between endobronchial ultrasound-guided transbronchial needle aspiration(EBUS-TBNA) samples and histological specimens.** Virginia Guevara Velazquez (Salamanca, Spain), Rosa Cordovilla Pérez, Carmen Parra, Marta Rodríguez González, Lorena Bellido, Ruth García García, Marco López Zubizarreta, Soraya Jodra Sánchez, Miguel Ángel Hernández Mezquita
1753	**KPNB1-mediated PD-L1 nuclear translocation promotes non-small cell lung cancer cell proliferation via the Gas6/MerTK signalling pathway** Wenwen Du (, China), Jianjie Zhu, Yuanyuan Zeng, Yang Zhang, Zeyi Liu, Jian-An Huang
1754	**NEUROD1 is highly expressed in extensive disease small cell lung cancer by promoting migration.** Kentaro Tanaka (Fukuoka, Japan), Yuki Ikematsu, Kayo Ijichi, Yasuto Yoneshima, Hiroyuki Inoue, Tetsuzo Tagawa, Yoichi Nakanishi, Isamu Okamoto
1755	**Alpha1-antitrypsin inhibits staurosporine-induced apoptosis of NSCLC cells** Sabine Wrenger (Hannover, Germany), Natalie Schwarz, Srinu Tumpara, Evrim Ercetin, Tobias Welte, Sabina Janciauskiene
1756	**Genetic polymorphisms of renin-angiotensin system and angiogenic factors in NSCLC progression: discovery and validation studies** Maria Joana Pereira Catarata (Porto, Portugal), Ricardo Ribeiro, Alice Pêgo, Carlos Robalo Cordeiro, Maria José Oliveira, Rui Medeiros, Michael Thomas, Michael Meister, Thomas Muley
1757	**ASCL1 suppress ZFP36L1 expression by regulating miR124-3p expression in lung adenocarcinoma** Takayoshi Enokido (Tokyo, Japan), Naoya Miyashita, Masafumi Horie, Akira Saito, Takahide Nagase
1758	**The Role Of TGF-ß in Lung Cancer Development in COPD Patients** Hatice Çelik Tuğlu (ISPARTA, Turkey), Önder Özturk, Pınar Aslan Koşar, Ahmet Akkaya
1759	**Causal RNA signatures in lung adenocarcinoma** Georgia Giotopoulou (Munich, Germany), Mario Pepe, Sabine Behrend, Giannoula Ntaliarda, Anne-Sophie Lamort, Ioannis Lillis, Magda Spella, Georgios Stathopoulos
1760	**Association between H-RAS T81C genetic polymorphism with non-small cell Lung cancer** Chuen-Ming Shih (Taichung, Taiwan), Yao-Ling Lee
1761	**SNP Rs11614913 in miR-196a is a risk factor for non-small cell lung cancer in Iranians** Neda K.Dezfuli (Tehran, Islamic Republic of Iran), Shamila D. Alipour, Sharareh Seyfi, Neda Dalil Roofchayee, Ian M. Adcock, Esmaeil Mortaz
1762	**The upregulation of Osteopontin mediates acquired resistance to EGFR-TKI in NSCLC through Integrin/FAK signaling** Yulong Fu (, China), Yang Zhang, Zeyi Liu, Jian-An Huang
1763	**Influence of smoking on gene expression in lung adenocarcinoma** Macarena Arroyo Varela (Malaga, Spain), Esperanza Salcedo Lobera, Rafael Larrosa Jiménez, M. Gonzalo Claros Díaz, Rocío Bautista Moreno
1764	**Cocultured brown or white adipocytes can reduce efficacy of targeted therapy in lung cancer cells** Armin Frille (Leipzig, Germany), Hartmut Kuhn, Claudia Hänel, Thomas Ebert, Hans-Jürgen Seyfarth, Hubert Wirtz
1765	**Evaluate soluble PD-L1 in plasma in advanced stage non-small cell lung cancer patients** Nhung Pham Thi Kim (Hanoi, Vietnam), Quyet Do, Thang Ta, Dung Nguyen, Dai Do
1766	**Triptolide enhances radiosensitivity of lung cancer cells via G2/M arrest and autophage** Seung Hyeun Lee (Seoul, Republic of Korea), Jeong mi Lee, Myung Jae Park
1767	**Identification of PD-L2 on macrophages in lung cancer milieu- pilot study.** Iwona Kwiecień (Warszawa, Poland), Elżbieta Rutkowska, Małgorzata Polubiec-Kownacka, Piotr Rzepecki, Joanna Domagała-Kulawik

1768 **Neprilysin functional genetic polymorphism in NSCLC progression without PD-L1 expression**
Maria Joana Pereira Catarata (Porto, Portugal), Ricardo Ribeiro, Maria José Oliveira, Michael Thomas, Michael Meister, Thomas Muley

1769 **Lung Microbiota and Streptococcal enrichment in Central Lung Cancer**
Jose Javier Vengoechea (Zaragoza, Spain), Manuel Ponce-Alonso, Ana Lucía Figueredo, Elisa Mincholé, Rosa Del Campo, Salvador Bello

1770 **Lung Micobiome in Lung Cancer**
Jose Javier Vengoechea (Zaragoza, Spain), Manuel Ponce-Alonso, Ana Lucía Figueredo, Elisa Mincholé , Rosa Del Campo, Salvador Bello

Pre-congress content Session 129 00:00 - 23:59

E-poster session: Cardiovascular and pulmonary complications of respiratory infections

Disease(s) : Respiratory critical care Airway diseases

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

Chairs : Grant Waterer (Perth (WA), Australia), Martin Kolditz (Dresden, Germany)

1771 **Results of vaccination against pneumococcal infection in patients with chronic heart failure**
Angelina Kraposhina (Krasnoyarsk (Krasnoyarsk), Russian Federation), Irina Demko, Natalia Gordeeva, Irina Soloveva, Marina Mamaeva, Elena Sobko

1772 **Incidence of Cardiac Complications after Hospitalisation for Community Acquired Pneumonia: A Large Population-based Cohort Study**
Vadsala Baskaran (Nottingham (Nottinghamshire), United Kingdom), Tricia Mckeever, Wei Shen Lim

1773 **Comunity acquired legionella pneumonia: cardiovascular events and survival**
Leyre Serrano Fernandez (Bilbao (Bizkaia), Spain), Luis Alberto Ruiz Iturriaga, Ainhoa Gomez Bonilla, Marta Garcia Moyano, Elena Garay Llorente, Joseba Andia Iturrate, Beatriz Gomez Crespo, Borja Ortiz De Urbina Antia, Amaia Urrutia Gajate, Rafael Zalacain Jorge

1774 **Endothelial dysfunction and its corrections in patients with severe community-aquired pneumonia (CAP)**
Kseniia Bielosludtseva (Dniepropetrovsk, Ukraine), Mariia Krykhtina, Tetiana Kirieieva, Tetyana Pertseva

1775 **Community acquired pneumonia: an increased risk for subsequent cardiovascular events?**
Ana Da Cunha Fonseca (Peso da Régua, Portugal), Marta Sá Marques, Eloísa Silva, Teresa Shiang, Manuela Vanzeller, Carla Ribeiro

1776 **Acute Pneumonia and PSI: is it posible to prevent a cardiovascular event?**
Julia Amaranta Garcia Fuertes (Vitoria-Gasteiz, Spain), Javier Poyo Molina, Irene Juanes Dominguez, Maria Begoña Lahidalga Mugica, Maria Concepcion Bello Mora, Angel Maria Alonso Gomez, Lucas Tojal Sierra, José Luis Lobo Beristain

1777 **Differences in prognosis and outcome in patients with pneumococcal pneumonia and new onset atrial arrhythmia: impact of the time and duration of the arrhythmia**
Luis Alberto Ruiz Iturriaga (Barakaldo (Vizcaya), Spain), Leyre Serrano Fernandez, Lorea Martinez-Indart, Ainhoa Gomez Bonilla, Amaia Artaraz Ereño, Joseba Andia Iturrate, Elena Garay Llorente, Borja Ortiz De Urbina Antia, Pedro Pablo España Yandiola, Rafael Zalacain Jorge

1778 **Meta-analysis of Acute Coronary Syndrome in Patients with Community-Acquired Pneumonia**
Vadsala Baskaran (Nottingham (Nottinghamshire), United Kingdom), Shauntelle Quammie, Hannah Lawrence, Deborah Ashton, Wei Shen Lim, Tricia Mckeever

1779 **Relation between respiratory diseases and the development of cardiovascular events in patients with respiratory viral infection**
Maria De Los Angeles Zambrano Chacon (MADRID, Spain), Laura Esteban-Lucía, Ainhoa Izquierdo Pérez, Luis Nieto Roca, Ana María Venegas Rodríguez, Camila Sofía García Talavera, Ana María Pello Lázaro, Álvaro Aceña Navaroo, Felipe Villar Álvarez

1780 **Mean platelet volume changes in patients with nosocomial pneumonia.**
Vladimir Volchkov (St. Petersburg, Russian Federation), Anastasya Vasilytsina, Vyacheslav Afonchikov, Elizaveta Volchkova, Dmitry Larin

1781 **Active monitoring of adverse drug reactions to the use of beta-lactam antibiotics in the treatment of community-acquired pneumonia**
Angelina Kraposhina (Krasnoyarsk (Krasnoyarsk), Russian Federation), Ekaterina Sergeevna Torgunakova, Elena Nikolaevna Bochanova , Irina Vladimirovna Demko , Evgeniya Mikhailovna Kurts

1782 **Infectious COPD exacerbations and value of chest radiography**
Yael González (Buenos Aires, Argentina), Fernando Di Tullio, Glenda Ernst, Martín Bosio, Eduardo Borsini, Alejandro Salvado, Josefina Pascua, Pablo Oyhamburu, Gabriela Robaina

1783 **Comparative prospective cohort study of the efficacy and safety according to dose of Ceftriaxone in community-acquired pneumonia**
Yosuke Nakanishi (Kurashiki, Japan), Akihiro Ito, Hiromasa Tachibana, Tadashi Ishida, Miho Mitsui

1784 **Clinical features and antimicrobial resistance pattern of patients with CAP caused by K. pneumoniae in Jakarta, Indonesia**
Gina Amanda (Jakarta Timur, Indonesia), Dianiati Kusumo Sutoyo, Erlina Burhan, Budi Haryanto, Wisnu Tafroji, Dodi Safari

1785 **Therapeutic failure among incident users of ß-lactam antibiotics: a real-world, cohort study, in primary care in Italy**
Ettore Marconi (firenze, Italy), Alessandro Rossi, Claudio Cricelli, Francesco Lapi

1786 **New prediction score without subjective parameters for community-acquired Legionella pneumonia**
Shinya Yokoe (Kurashiki- city, Japan), Akihiro Ito, Hiromasa Tachibana, Miho Mitsui, Yosuke Nakanishi, Tadashi Ishida

1787 **Use of corticosteroids in patients with severe CAP admitted to ICU, experience in a real-life setting.**
Adrian Ceccato (Ituzaingo (Prov. De Buenos Aires), Argentina), Pier Luigi Di Giannatale , Enric Barbeta, Stefano Nogas, Patricia Oscanoa, Albert Gabarrus, Miquel Ferrer, Antoni Torres

1788 **Novel Pseudomonas aeruginosa scoring system to guide empiric anti-pseudomonal therapy in COPD patients with community-acquired pneumònia**
Sergi Pascual Guardia (Barcelona, Spain), Judith Marin Corral, Francesco Amati, Stefano Aliberti, Joaquim Gea, Nilam J.Soni, Alejandro Rodríguez, Oriol Sibila, Francisco Sanz, Giovanni Sotgiu, Pedro J. Marcos, Martin Kolditz, Anzueto Antonio, Marcos I. Restrepo

Pre-congress content Session 130 00:00 - 23:59

E-poster session: What is hot in idiopathic pulmonary fibrosis?

Disease(s) : Interstitial lung diseases

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

Chairs : Michael Kreuter (Heidelberg, Germany), Claudia Valenzuela (Madrid, Spain)

1789 **Effects of nintedanib in patients with IPF: subgroup analysis by Charlson Comorbidity Index (CCI)**
Elisabeth Bendstrup (Vejle, Denmark), Francesco Bonella, Elena Bargagli, Fabian Caro, Marilyn Glassberg, Birgit Schinzel, Manuel Quaresma, Leticia Orsatti, Ian Glaspole

1790 **Hiatus hernia and interstitial lung abnormalities**
Peter George (London, United Kingdom), Tomoyuki Hida, Rachel Putman, Sujal Desai, Anand Devaraj, Sacheen Kumar, John Mackintosh, Vilmundur Gudnason, Hiroto Hatabu, Gunnar Gudmundsson, Gary Hunninghake

1791 **The effect of metformin on clinically relevant outcomes in 3,144 IPF patients from the EMPIRE registry**
Dragana M. Jovanović (Beograd, Republic of Serbia), Martina Šterclová, Nesrin Mogulkoc, Katarzyna Lewandowsk, Veronika Müller, Marta Hájková, Mordechai Kramer, Jasna Tekavec-Trkanjec, Michael Studnicka, Natalia Stoeva, Biserka Jovovska Kaeva, Simona Littnerová, Marina Roksandić Milenković, Martina Vasakova

1792 **Clinical value of cluster analysis of unclassifiable idiopathic interstitial pneumonias phenotypes**
Yutaro Nakamura (Hamamatsu, Japan), Tae Iwasawa, Shoichiro Matsushita, Yasuhiro Terasaki, Shinobu Kunugi, Hideya Kitamura, Kazutaka Mori, Hideki Yasui, Tomoyuki Fujisawa, Takafumi Suda

1793 **Early decrease in erector spinae muscle area and future risk of mortality in idiopathic pulmonary fibrosis**
Akiko Nakano, Hirotsugu Ohkubo, Hiroyuki Taniguchi, Yasuhiro Kondoh, Toshiaki Matsuda, Mitsuaki Yagi, Taiki Furukawa, Yoshihiro Kanemitsu, Akio Niimi

1794 **Primary results from the STARLINER study of disease behaviour in suspected ILD**
Marlies S Wijsenbeek (Rotterdam, Netherlands), Elisabeth Bendstrup, Claudia Valenzuela, Michael T. Henry, Catharina Moor, Stéphane Jouneau, Alessandro Fois, Onofre Moran, Syed Anees, Mirela Mirt, Monica Bengus, Frank Gilberg, Klaus-Uwe Kirchgaessler, Carlo Vancheri

1795 **Reliability of home spirometry in idiopathic pulmonary fibrosis**
Catharina Moor (Rotterdam, Netherlands), Rémy Mostard, Jan Grutters, Paul Bresser, Joachim Aerts, Niels Chavannes, Marlies Wijsenbeek

1796 **Mapping IPF helps identify geographic regions at higher risk for disease development**
Jessica Shull (Sitges, Spain), Oriol Jorba, Carla Lara, Miriam Olid, Maria Teresa Pay, Guadalupe Bermudo, Guillermo Suarez Curatin, Vanesa Vicens, Lurdes Planas, Jaume Bordas, Pilar Rivera Ortega, Maria Molina Molina, Crampid Group

1797	**Low income and progression free survival in idiopathic pulmonary fibrosis: an association to uncover** Lucile Sese (Paris, France), Julien Caliez, Isabella Annesi-Maesano, Vincent Cottin, Giancarlo Pesce, Morgane Didier, Zohra Carton, Dominique Israel-Biet, Bruno Crestani, Stéphanie Guillot Dudoret, Jacques Cadranel, Benoit Wallaert, Abdellatif Tazi, Bernard Maître, Grégoire Prévot, Sylvain Marchand-Adam, Sandrine Hirschi, Sandra Dury, Violaine Giraud, Anne Gondouin, Philippe Bonniaud, Julie Traclet, Karine Juvin, Raphael Borie, Jean François Bernaudin, Dominique Valeyre, Catherine Cavalin, Hilario Nunes
1798	**Eligibility for anti-fibrotic therapy of patients in British Thoracic Society (BTS) UK IPF Registry varies according to the reference values used to calculate FVC** Phil Molyneaux (London, United Kingdom), Maria Loughenbury, Sally Welham, John Hutchinson, Huzaifa Adamali, Ahmed Fahim, Sarah Agnew, Wendy Funston, Sarah Haney, Ling-Pei Ho, Jack Richardson, Howard Almond, Steve Jones, Lisa Nicol, Katherine Spinks, Andrew Wilson, Lisa Spencer
1799	**Quantitative CT for the assessment of disease severity in interstitial lung disease** David G. Parr (Coventry (West Midlands), United Kingdom), Emma Helm, Joanna Shakespeare, Rhian Hughes, Abhir Bhalerao
1800	**The value of the surprise question to predict mortality in idiopathic pulmonary fibrosis** Nelleke Tak (Rotterdam, Netherlands), Catharina Moor, Catherine Owusuaa, C. Van Der Rijt, Marlies Wijsenbeek
1801	**PREVALENCE AND CHARACTERISTICS OF PATIENTS WITH IDIOPATHIC PULMONARY FIBROSIS ADMITTED FOR PNEUMONIA ACQUIRED IN THE COMMUNITY.** IRENE MILAGROS DOMINGUEZ ZABALETA (Madrid, Spain), Javier De Miguel Diez, Virginia Parra Leon, Zichen Ji, Ana Lopez De Andres, Valentin Hernandez Barrera, Alicia Cerezo Lajas, Luis Puente Maestu, Rodrigo Jimenez Garcia
1802	**Pirfenidone in unclassifiable ILD (uILD): subgroup analysis of patients with/without a surgical lung biopsy (SLB)** Vincent Cottin (Lyon, France), Tamera J. Corte, Michael Kreuter, Maria Molina-Molina, Judit Axmann, Frank Gilberg, Klaus-Uwe Kirchgaessler, Toby M. Maher
1803	**Dynamics of diagnoses and pharmacotherapy before and after diagnosing idiopathic pulmonary fibrosis** Jesper Rømhild Davidsen (Odense C, Denmark), Lars Christian Lund, Christian B. Laursen, Jesper Hallas, Daniel Pilsgaard Henriksen
1804	**IMPACT OF IPF PATIENT SUPPORT PROGRAM IN QUALITY OF LIFE** Maria Molina Molina (Barcelona, Spain), A. Garcia, L. Cobo, C. Ruiz, K. Portillo, A. Boldova-Loscertales, A. Robles-Perez, J. Arribas, J.A Figuerola, R. Blavia, Y. Belmonte, A. Moreno, D. Castillo, A. Villar, D. Badenes, E. Balcells, D. De Zayas, G. Suarez-Cuartin, L. Garcia, J. Sellares, Y. Garcia, S. Barril, J. Sans, M. Serra, D. Perich, L. Esteban, J. Dorca, M. Garcia, P. Cerdá-Cortés, J. Palma

Pre-congress content — Session 131 — 00:00 - 23:59

E-poster session: Natural history and management of interstitial lung diseases of known cause

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

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

Chairs : Peter Saunders (London, United Kingdom), Donato Lacedonia (Molfetta (BA), Italy)

1805	**Hypersentivity pneumonitis in an Interstitial Lung Disease Unit, 5 years' experience** Amaia Urrutia Gajate (Bilbao (Bizkaia), Spain), Alejandro Rezola Carasusan, Borja Ortiz De Urbina, Marta Garcia Moyano, Rafael Zalacain Jorge, Luis Alberto Ruiz Iturriaga, Leire Serrano Fernandez, Carmen Jaca Michelena, Beatriz Gomez Crespo
1806	**Chest Imaging Abnormalities in Patients with Uncontrolled Rheumatoid Arthritis Prior to Biological Therapy Initiation** Amelia Benjamin (london, United Kingdom), Katie Ward
1807	**Clinico-radiological profile of connective tissue diseases related interstitial lung diseases** Mehul Agarwal (Ajmer, India), Manohar Lal Gupta, Neha Bharti, Gopal Chawla
1808	**Use of mycophenolate mofetil for the treatment of hypersensitivity pneumonitis>** Eduardo Antonio Velez Segovia (Barcelona, Spain), Xavier Vidal Guitart, Ana Villar Gomez
1809	**The prediction of risk factors of tyrosine kinase inhibitor-induced pneumonitis in non-small cell lung cancer** Hyo Jae Kang (Goyang, Republic of Korea)

1810 **CARACTERISTICS OF A PROSPECTIVE COHORT OF PATIENTS WITH IPAF (INTERSTITIAL PNEUMONIA WITH AUTOIMMUNE FEATURES) BY NEUMOLOGISTS AND REUMATOLOGISTS OF MADRID. IPAF-NEREM STUDY**
Mª Asuncion Nieto Barbero (Madrid, Spain), Cristina Vadillo Font, Mª Jesús Rodríguez-Nieto, Olga Sánchez Pernaute, Fredeswinda Isabel Romero Bueno, Rosalía Laporta Hernández, Belén López Muñiz Ballesteros, Laura Cebrián Martínez, Mª Teresa Río Martínez, Gemma María Mora Ortega, Tatiana Cobo Ibánez, Lydia Abásolo Alcazar

1811 **Relationship between horizontal adductor muscles strength and pulmonary functions in idiopathic pulmonary fibrosis**
Habibe Durdu (İstanbul, Turkey), S. Ufuk Yurdalan, Ipek Özmen

1812 **Telemetric observation of the course and treatment effects of selected interstitial lung diseases associated with connective tissue diseases (CTD-ILD) – protocol presentation**
Sylwia Malysiak-Szpond (Warszawa, Poland), Maria Mozga, Joanna Miłkowska - Dymanowska, Adam J. Białas, Wojciech J. Piotrowski

1813 **King's Brief Interstitial Lung Disease (K-BILD) questionnaire: content relevance in progressive fibrosing ILD (PF-ILD)**
Surinder S. Birring (London, United Kingdom), Donald M. Bushnell, Katelyn Cutts, Michael Baldwin, Klaus B. Rohr, Natalia Male

1814 **Utility of Lung Ultrasound in Interstitial Lung Disease - A Paradigm Shift**
Gopal Chawla (New Delhi (Delhi), India), Naveen Dutt, Nishant Chauhan, Ram Niwas, Sandip Agarwal, Priyank Jain, Mehul Agarwal

1815 **Impact of mycophenolate mofetil on lung function in chronic hypersensitivity pneumonitis and connective tissue disease related-ILD**
Eduarda Salomé Soares Seixas (Lourosa, Portugal), Paula Serra, Renata Aguiar, Margarida Ferreira , Pedro Gonçalo Ferreira

1816 **Exploring barriers to Pirfenidone adherence in patients with idiopathic pulmonary fibrosis: a prospective study**
anouk delameillieure (Brussel, Belgium), Fabienne Dobbels, Katleen Leceuvre, Daniëlle Strens, Patrick Simaels, Karolien Verheyen, Jonas Yserbyt, Wim Wuyts

1817 **Use of Rituximab in the treatment of CTD-ILD in RA patients.**
Francesco Bini (Pavia (PV), Italy), Dina Visca, Angelo De Lauretis, Bruno Bodini, Daniele Colombo, Paola Faverio, Adriano Vaghi

1818 **Title : Video Assisted Thoracoscopy Surgery(VATS) in unidentified Interstitial Lung disease: a six year retrospective study in India**
Apar Agarwal (Meerut, India), Ajay Lall

1819 **Risk factors of transbronchial cryobiopsy complications: A Retrospective Study of 500 Patients**
Katsuyuki Higa (kiyose, Japan), Takashi Niwa, Midori Sato, Yozo Sato, Akimasa Sekine, Hideya Kitamura, Tomohisa Baba, Tae Iwasawa, Tamiko Takemura, Takashi Ogura

Pre-congress content Session 132 00:00 - 23:59

E-poster session: Comprehensive care and pulmonary rehabilitation for chronic respiratory diseases

Disease(s) : Sleep and breathing disorders | Airway diseases | Pulmonary vascular diseases | Thoracic oncology | Respiratory critical care

Method(s) : General respiratory patient care Epidemiology Pulmonary rehabilitation Pulmonary function testing Transplantation Physiology Palliative care

Chairs : Ioannis Vogiatzis (Newcastle upon Tyne, United Kingdom), Afroditi Boutou (Thessaloniki, Greece)

1820 **Long-term noninvasive ventilation: do patients aged over 75 years differ from younger adults ?**
Chloé Cantero (Genève, Switzerland), Dan Adler, Patrick Pasquina, Christophe Uldry, Bernard Egger, Maura Prella, Alain Bigin Younossian, Paola Gasche, Jean-Louis Pépin, Jean-Paul Janssens

1821 **Early pulmonary rehabilitation increases 6MWD and reduces CRP in hospitalized patients with severe AECOPD**
Lan-Fang TUNG (Taipei, Taiwan), Sheng-Yeh Shen, Yan-Ting Chen, Hui-Hsuan Shih, Jia-De Yan, Shu-Chuan Ho

1822 **Changes in SPPB during hospital admission for AECOPD**
Hamish Mcauley (Leicester, United Kingdom), Michelle Craner, Bharti Patel, Michael Steiner, Neil Greening

1823 **The effect of pulmonary rehabilitation during chest radiotherapy in patients with malignancy**
Myeong Geun Choi (Seoul, Republic of Korea), Sei Won Lee

1824	**Sexuality in Chronic Obstructive Pulmonary Disease (SEXY COPD)** Claudia Steurer-Stey (Zürich, Switzerland), Alexandra Strassmann, Kaba Dalla Lana, Johann Gauer, Anja Frei, Milo Puhan
1825	**User experiences and perceived effectiveness of an eHealth self-management intervention in COPD patients with heart failure** Anke Lenferink (Oldenzaal, Netherlands), Joanne Sloots, Aniel Ramlal, Paul Van Der Valk, Tanja Effing, Job Van Der Palen, Constance Drossaert
1826	**Effectiveness of inspiratory plus expiratory neuromuscular electrical stimulation in the rehabilitation of patients with severe COPD** Zhiling Zhao (Beijing, China), Xiaojuan Wang, Wuzhuang Sun, Xiaoyun Zhao, Yingxiang Lin, Shu Zhang, Zhaohui Tong
1827	**Pulmonary rehabilitation and cognitive impairment in COPD patients.** Sara Ramponi (Cingia de' Botti (CR), Italy), Maurizio Marvisi, Alberto Baiguera, Andrea Romani, Laura Balzarini, Roberta Baronio, Silvia Faverzani, Chiara Mancini
1828	**Efficacy of Occupational Therapy in patients with COPD** Alex J Van 't Hul (Bavel, Netherlands), Noortje Koolen, Martijn Spruit, Elieke Nijhuis, Marianne De Man, Jeanine Antons, Nienke Nakken, Daisy Janssen
1829	**The impact of silver ions on decrease in sputum viscosity among the patients with asthma** Sergey Andronov (Nadym (Yamal-Nenets), Russian Federation), Andrei Lobanov, Elena Bogdanova, Alexander Emelyanov, Anatoliy Fesyun, Andrei Rachin, Gleb Barashkov, Anfisa Nikitina, Andrei Popov
1830	**The five-repetition sit-to-stand test (5STS) in patients with bronchiectasis: validity and reponsiveness** Suhani Patel (London, United Kingdom), Ruth Barker, Jessica Walsh, Oliver Polgar, Claire Nolan, William Man
1831	**Complex need of care in patients with chronic respiratory failure starting home mechanical ventilation** Roy T.M. Sprooten (Cadier en Keer, Netherlands), Bettine A.H. Vosse, Sander C.M. Steyns, Marijke Rutten, Nicolle A.M. Cobben, Geertjan Wesseling
1832	**Effect of the trajectory of exertional breathlessness on symptom recall and prediction: a randomized controlled trial** Magnus Ekström (Lyckeby, Sweden), Viktor Elmberg
1833	**Safety and efficacy of home-based pulmonary rehabilitation in patients with pulmonary hypertension: Feasibility study of 12 cases** Takeshi Inagaki (Chiba, Japan), Jiro Terada, Nobuhiro Tanabe, Naoko Kawata, Hajime Kasai, Toshihiko Sugiura, Ayako Shigeta, Atsushi Murata, Seiichiro Sakao, Koichiro Tatsumi
1834	**Dance for people with chronic respiratory disease: A qualitative study.** Keir Philip (London, United Kingdom), Adam Lewis, Siân Williams, Sara Buttery, Michael Polkey, William Man, Daisy Fancourt, Nicholas Hopkinson
1835	**Diaphragm excursion was correlated with respiratory muscle strength and FEV1 in home-based respiratory muscle training with COPD patients** Hsun-Yun Chang (Taoyuan, Taiwan), Han-Pin Kuo, Pai-Chien Chou, Mei-Chuan Chen, Shu-Chuan Ho
1836	**SKELETAL MUSCLE DYSFUNCTION AND BODY COMPOSITION ALTERATIONS IN NON-CYSTIC FIBROSIS BRONCHIECTASIS PATIENTS: GENDER DIFFERENCES** Xuejie Wang (Barcelona, Spain), Ana Balañá Corberó, Juana Martínez Llorens, Liyun Qin, Mireia Admetlló, Esmeralda Hernández Leal, Xavier Duran, Antonio Sancho Muñoz, Esther Barreiro Portela
1837	**COPD – what patients know about their disease and which of them require special attention** Małgorzata Farnik (Katowice, Poland), Marzena Trzaska - Sobczak
1838	**Sit-to-stand test and 6-min walking test correlation in pulmonary rehabilitation patients** Živa Zdolšek Sluga (Laško, Slovenia), Tomaž Hafner

Pre-congress content — Session 133 — 00:00 - 23:59

E-poster session: Real life in the field of idiopathic pulmonary fibrosis: treatments and registries

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

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

Chairs : Claudia Ravaglia (Forlì, Italy), Yasuhiro Kondoh (Seto (Aichi), Japan)

1839	**Characteristics and clinical management of IPF patients in Spain: prospective, observational, multicentric study (OASIS study).** Ana Dolores Romero Ortiz (Granada, Spain), Maria Jesús Rodríguez-Nieto, Ana Villar, Esteban Cano-Jiménez, Alba Ramón, Silvia Armengol, Elena Alhaja, Maite Artés

1840	**Cluster analysis and survival in patients with Idiopathic pulmonary fibrosis** Dimitrios Kalafatis (Stockholm, Sweden), Lisa Carlson, Jing Gao, Chuan Xing Li, Ida Pesonen, Carl Magnus Sköld
1841	**Acute Exacerbation of IPF - Experience of a Portuguese RICU** Joana Rodrigues Barbosa (Lisboa, Portugal), Sara Salgado, Paula Esteves, Cristina Bárbara
1842	**Russian IPF Registry: time of inclusion impacts patients' status** Svetlana Yu. Chikina (Moscow, Russian Federation), Sergey Avdeev, Igor Tyurin, Alexander Cherniak, Zamira Merzhoeva
1843	**Baseline characteristics and survival of patients with idiopathic pulmonary fibrosis (IPF): analysis from the Swedish IPF registry** Jing Gao (Stockholm, Sweden), Dimitrios Kalafatis, Lisa Carlson, Chuan-Xing Li, Ida Pesonen, Magnus Sköld
1844	**Prevalence of idiopathic pulmonary fibrosis in Japan and the US: a claims-based retrospective study** Yasuhiro Kondoh (Seto (Aichi), Japan), Takafumi Suda, Yoshie Hongo, Manami Yoshida, Shinzo Hiroi, Kosuke Iwasaki, Tomomi Takeshima, Sakae Homma
1845	**Long-term outcomes of antifibrotic treatments in patients with idiopathic pulmonary fibrosis: Real-world experience** Sibel Nayci (Mersin, Turkey), Demet Polat, Eylem Sercan Ozgur, Cengiz Özge
1846	**Factors influencing best tolerated dose of pirfenidone (PFD) in patients with IPF** Neha Agrawal Mandovra (Indore (Madhya Pradesh), India), Preyas Vaidya, Ria Shah, Vinod Chavhan, Joerg Leuppi, Anne Leuppi-Taegetmeyer, Prashant Chhajed
1847	**Safety and Tolerability of Combination Therapy with Nintedanib and Pirfenidone for Idiopathic Pulmonary Fibrosis: A Multicenter, Retrospective, Observational Study in Japan** shu hisata (Sendai, Japan), Masashi Bando, Sakae Homma, Kensuke Kataoka, Takashi Ogura, Shinyu Izumi, Susumu Sakamoto, Yoshinobu Saito, Kizuku Watanabe, Yasuo Shimizu, Motoyasu Kato, Naohiko Inase
1848	**Efficacy of low dose pirfenidone in idiopathic pulmonary fibrosis: Real world experiencefrom a tertiary university hospital** Song Yee Kim (Seoul, Republic of Korea), Juhye Shin , Myung Jin Song, Moo Suk Park, Young Ae Kang
1849	**Assessing the effectiveness of pirfenidone in changing the natural course of idiopathic pulmonary fibrosis: the data from European IPF Registry (eurIPFreg).** Ekaterina Krauss (Giessen, Germany), Silke Tello, Ruth C. Dartsch, Martina Korfei, Poornima Mahavadi, Mark Stoehr, Jochen Wilhelm, Raphael Majeed, Philippe Bonniaud, Carlo Vancheri, Athol U. Wells, Werner Seeger, Bruno Crestani, Andreas Guenther
1850	**Impact of tidal volume, GAP index and anti-fibrotic treatment on disease progression and mortality in IPF patients** Ekaterina Krauss (Giessen, Germany), Brahim Ait Ilalne, Christine Knittel, Jochen Wilhelm, Ruth C. Dartsch, Silke Tello, Poornima Mahavadi, Martina Korfei, Werner Seeger, Bruno Crestani, Andreas Guenther
1851	**Prevalence and Characteristics of Patients Receiving Antifibrotic Therapy for Idiopathic Pulmonary Fibrosis** Ying Qiu (, United States of America), Ying Qiu, Ruizhi Zhao, Brandon Elpers, Yuexi Wang, Lin Xie, Jackson Tang, Aryeh Fischer
1852	**Antithrombotics in idiopathic pulmonary fibrosis patients with concomitant antifibrotic therapy: a single centre real world experience** Anna Agnese Stanziola (Napoli (NA), Italy), Danilo Pentangelo, Rossella D'Angelo, Ludovica Capitelli, Roberto Rega, Marialuisa Bocchino, Umberto Malapelle
1853	**Characteristics and management of patients with idiopathic pulmonary fibrosis treated with pirfenidone capsule or tablet formulation** Vincent Cottin (Lyon, France), Sonia Guéguen, Stéphane Jouneau, Hilario Nunes, Bruno Crestani, Philippe Bonniaud, Lidwine Wemeau, Dominique Israel-Biet, Marie Chevereau, Isabelle Dufaure-Garé, Serge Amselem, Annick Clément
1854	**Association between antifibrotic medications and pneumothorax or pneumomediastinum in patients with idiopathic pulmonary fibrosis** Taisuke Akamatsu (Shizuoka, Japan), Hiromasa Nakayasu, Kanami Tamura, Toshihiro Masuda, Shingo Takahashi, Yuko Tanaka, Hirofumi Watanabe, Yutaro Kishimoto, Kyohei Oishi, Mika Saigusa, Akito Yamamoto, Satoru Morita, Kazuhiro Asada, Toshihiro Shirai
1855	**Nintedanib in IPF: post hoc analysis of the Italian FIBRONET observational study** Venerino Poletti (Forlì, Italy), Carlo Albera, Sergio Harari, Alberto Pesci, Alessandra Ori, Giovanna Crespi, Benedetta Campolo, Carlo Vancheri
1856	**Results of antifibrotic drugs in the treatment of idiopathic pulmonary fibrosis. A real life study.** Jacinto Hernandez Borge (Badajoz, Spain), Ana Castañar Jover, Luis Miguel Sierra Murillo, Pilar Iñigo Naranjo, Santiago Hernández Gómez, Amparo Sanz Cabrera

1857 **GAP scoring system in IPF patients treated with antifibrotics: prognostic performance and 1- to 3- years mortality: a retrospective study**
Laurens De Sadeleer (Leuven, Belgium), Tinne Goos, Jonas Yserbyt, Stijn E Verleden, Wim A Wuyts

1858 **Characterize Idiopathic Pulmonary Fibrosis using Respiratory Oscillometry**
Joyce Wu (Richmond Hill, Canada), Anastasiia Vasileva, Ehren Chang, Jin Ma, Qian Huang, Antonio Cassano, Matthew Binnie, Shane Shapera, Jolene H. Fisher, Clodagh M. Ryan, Chung-Wai Chow

Pre-congress content Session 134 00:00 - 23:59

E-poster session: Pulmonary embolism

Disease(s) : Pulmonary vascular diseases

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

Chairs : Olivier Sanchez (Paris, France), FATIMA ALHAMED ALDUIHI (ALEPPO, Syrian Arab Republic)

1859 **Chronic thromboembolic pulmonary hypertension in acute pulmonary embolism: A risk factor evaluation study**
Şilan Işık (Ankara, Turkey), Emine Bahar Kurt

1860 **Predictors of Residual Pulmonary Vascular Obstruction after Pulmonary Embolism: results from a prospective cohort study**
Gaël Picart (Brest, France), Francis Couturaud, Philippe Robin, Cécile Tromeur, Raphael Le Mao, Leela Raj, Christophe Leroyer

1861 **The relationship of thrombus localization with prognosis and chronic tromboembolic pulmonary hypertension in acute pulmonary thromboembolia**
Sibel Nayci (Mersin, Turkey), Biray Harbiyeli, Buğra Özkan, Pınar Pelin Özcan, Yüksel Balcı, Ismail Türkay Özcan, Eylem Sercan Ozgur, Cengiz Özge

1862 **Pulmonary thromboembolism in childhood: Six years of single center experience**
Gizem Özcan (Ankara, Turkey), Hasan Fatih Çakmaklı, Fazılcan Zirek, Tanıl Kendirli, Tayfun Uçar, Nazan Çobanoğlu

1863 **Comparision of side effects between thrombolytic and anticoagulation therapy in patients with Pulmonary Embolism**
Habibe Oflaz Hezer (Ankara, Turkey), Hatice Kilic, H.Canan Hasanoglu, Aysegul Karalezli, Elif Babaoglu, Mukremin Er, E. Sengül Parlak, Osama Abuzaina, Derya Oztuna, Emine Arguder

1864 **Analysis of Causes of Diagnostic Difficulties and Features of Clinical Course of Pulmonary Embolism**
Nataliia Popenko (Kyiv, Ukraine)

1865 **Influence of cancer diagnosis in patients with pulmonary embolism**
Jacinto Hernandez Borge (Badajoz, Spain), Luis Miguel Sierra Murillo, Sebastian Hernández Gómez, Pilar Iñigo Naranjo, Miguel Benitez-Cano Gamonoso, María Del Carmen García García

1866 **Clinical Risk Stratification of Pulmonary Embolism to Support the Development of a Pulmonary Embolism Response Team (PERT) at a Tertiary Referral Hospital.**
Patrick Kerr (Dublin 8, Ireland), Ronan Lee, Robyn Poole, Michelle Lavin, Patricia Houlihan, Brendan Mcadam, Michael Lee, Ross Morgan, Emmet O'Brien

1867 **CT abdomen and pelvis to investigate for occult malignancy in patients with first unprovoked pulmonary embolism, is it justified?**
Emily Hobbs (Liverpool, United Kingdom), Amy Heron, William Barnsley, Zaroug Wahbi

1868 **Does abdominal-pelvic CT detect occult malignancy in patients with unprovoked pulmonary embolism?**
Bana Hawramy (Cleckheaton, United Kingdom), Julian Ting, Dipansu Ghosh

1869 **What is the incidence of pleural effusions in acute pulmonary emboli?**
Avinash Aujayeb (newcastle, Mauritius), Karl Jackson

1870 **Changes in heart rate variability during psychological stress in cardiorespiratory failure patients**
Manuel Abraham Gómez Martínez (Mexico City, Mexico), Guadalupe Lizzbett Luna Rodríguez , Viridiana Pelaéz-Hernandéz, Laura Arely Martínez-Bautista, Karla Leticia Rosales-Castillo, Karen Aidee Santillán-Reyes, Arturo Orea-Tejeda, Manuel Abraham Gómez-Martínez, Rocío Sánchez-Santillán , Juan José Orozco-Gutierrez, Ilse Del Carmen Pérez-García, Nathalie Martínez-Luna, Yael Ramiro Gastelum-Ayala

Pre-congress content Session 135 00:00 - 23:59

E-poster session: Health effects of inhaled nicotine devices: from smoking to vaping and heated tobacco

Disease(s) : Airway diseases | Respiratory critical care | Thoracic oncology

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

Chairs : Charlotta Pisinger (Frederiksberg, Denmark), Linnea Hedman (Luleå, Sweden)

1871	**Diffuse Alveolar Hemorrhage: a life-threatening adverse effect of vaping** Dominika Ambrożej (Warsaw, Poland), Teresa Bielecka, Wojciech Feleszko, Katarzyna Krenke
1872	**Changes in oxygenation following steroid administration in patients diagnosed with e-cigarette, or vaping, associated lung injury (EVALI)** Denitza Blagev (Salt Lake City, United States of America), Dixie Harris, Sean Callahan, Braden Anderson, Dave Collingridge, Susan Rea, David Guidry, Colin Grissom, Michael Lanspa
1873	**Smoking types and EVALI awareness in young Russian smokers** Valentina Kapustina (Moscow, Russian Federation), Anna Buchneva
1874	**Impact of e-liquid composition on the emission and inhalation of carbonyl compounds** Efthimios Zervas (Patra, Greece), Niki Matsouki, Evaggelia Bekou, Paraskevi Rodopoulou, Paraskevi Katsaounou
1875	**Electronic cigarette use strongly associated with respiratory diseases: Results from Russian Tobacco Control Policy evaluation survey** Marine Gambaryan (Moscow, Russian Federation), Anna Kalinina, Marina Popovich, Michail Starovoytov, Oxana Drapkina
1876	**Negative impact of heated tobacco products use on smoking cessation: a prospective study** Makiko Kanai (Kyoto, Japan), Osamu Kanai, Tadashi Mio
1877	**Emissions of Inhaled Benzene, Toluene, Ethylbenzene and Xylene from Slim, Classic and Heated Cigarettes** Efthimios Zervas (Patra, Greece), Saida Mukhanova, Niki Matsouki, Alma Shopabayeva , Talgat Nurgozhin, Stavros Poulopoulos, Paraskevi Katsaounou
1878	**Assessment of lung function in symptomatic and asymptomatic smokers without Chronic Obstructive Pulmonary Disease (COPD) using the Impulse Oscillatory Technique (IOT)** Ioanna Tsiouprou (Thessaloniki, Greece), Dionisios G. Spyratos, Konstantinos Porpodis, Athanasia Pataka, Theodoros Kontakiotis
1879	**The clinical significance of exhaled nitric oxide in adolescent smokers** Anastasiia Fialkovska (Dnipro, Ukraine), Svitlana Ilchenko
1880	**The Effects of Substance Use Disorder on Respiratory Function Parameters and Functional Capacity in Istanbul** Rustem Mustafaoglu (Istanbul, Turkey), Aslı Görek Dilektaşlı, Rengin Demir, Emrah Zirek, Tansu Birinci, Ebru Kaya Mutlu, Cuneyt Evren, Arzu Razak Ozdincler
1881	**Blood eosinophil levels and exacerbations in a cohort of biomass and tobacco-related COPD patients at high altitude (2600 m)** Olga Milena Garcia Morales (Bogotá, Colombia), Carlos Celis-Preciado, Maria Nelcy Rodríguez, Violeta Avendaño, Alejandra Cañas-Arboleda, Paola Rodríguez, Leonardo Galindo, Andres Gonzalez
1882	**Does DNA methylation levels change in smokers?** Mehmet Uysal (İstanbul, Turkey), Halit Cinarka, Yelda Ozgun Niksarlioglu, Yasemin Oyaci, Sacide Pehlivan
1883	**Aortic stiffness in young smokers classified as chronic bronchitis: the British Lung Foundation (BLF) Early COPD cohort** Alex Jenkins (Nottingham (Nottinghamshire), United Kingdom), Andrew Ritchie, Gavin Donaldson, Jadwiga Wedzicha, Charlotte Bolton
1884	**Exposure to second-hand smoking during childhood and/or adulthood as a risk factor for respiratory disease** Nanna Smedengaard (Køge, Denmark), Morten Dahl, Eskild Landt
1885	**The association of high nicotine metabolism ratio with COPD in smokers undergoing a smoking cessation program.** Aldo Pezzuto (Rome, Italy), Marina Borro, Luana Lionetto, Alberto Ricci, Giulio Guerrieri, Dario Pizzirusso
1886	**Inhaler recycling prevalence in a secondary care clinic in England** Ruth De Vos (Southampton (Hampshire), United Kingdom), Hitasha Rupani, Jayne Longstaff, Alexander Hicks, Lauren Fox, Laura Wiffen, Tom Brown, Anoop Chauhan
1887	**Association of Environmental Tobacco Smoke Exposure with Carotid Intima Media Thickness in healthy children and adolescents: a systematic review** Siyu Dai (Hong Kong, Hong Kong), Kate Ching Ching Chan

Pre-congress content Session 136 00:00 - 23:59

E-poster session: Respiratory homeostasis and structural changes in disease

Disease(s) : Airway diseases Interstitial lung diseases

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

Chairs : Anne M. van der Does (Leiden, Netherlands), Killian Hurley (Dublin 3, Ireland)

1888	**The influence of the conservation of respiratory epithelial samples on ciliary functional analysis** Noemie Bricmont (Florennes, Belgium), Lionel Benchimol, Anne-Lise Poirrier, Hedwige Boboli, Marie-Christinne Seghaye, Renaud Louis, Philippe Lefebvre, Bruno Louis, Jean-François Papon, Céline Kempeneers
1889	**Eosinophil subtypes' effect on airway smooth muscle cells differentiation and migration in asthma** Ieva Janulaityte (Kaunas, Lithuania), Andrius Januskevicius, Egle Jurkeviciute, Airidas Rimkunas, Beatrice Tamasauskaite, Virginija Kalinauskaite-Zukauske, Jolita Palacionyte, Kestutis Malakauskas
1890	**Let-7 promotes airway remodeling via regulation of IL-6 in chronic obstruction pulmonary disease** Tao Bian (Wuxi, China), Tingting Di
1891	**Latent TGF-ß binding protein 4 is an important factor that influences anti-inflammatory and cell-protective responses in the pathogenesis of pulmonary emphysema** Masaki Ishii (Tokyo, Japan), Yasuhiro Yamaguchi, Hironobu Hamaya, Yuko Iwata, Sumito Ogawa, Masahiro Akishita
1892	**Activated Neutrophils induce epithelial mesenchymal transition through miR21 expression** Laura Pandolfi (Pavia, Italy), Sara Bozzini, Vanessa Frangipane, Monica Morosini, Maura D'Amato, Elena Salvaterra, Valentina Vertui, Davide Piloni, Patrizia Morbini, Elena Rossi, Federica Meloni
1893	**Stereological approach to the pathology of lung aging in humans** Fabricio Santos (Diadema, Brazil), Francisca Lucas Froio, Gabriel Ribeiro Júnior, Mariana Matera Veras, Lisie Justo, Paulo Saldiva, Natalia De Souza Xavier Costa, Thais Mauad
1894	**The role of airways 17ß-estradiol as a biomarker of severity in post-menopausal asthma** Maria Giovanna Palumbo (Foggia, Italy), Giulia Scioscia, Donato Lacedonia, Carla Maria Irene Quarato, Giorgia Lepore, Anna Del Colle, Annarita Depalo, Maria Luisa Colucci, Giovanna Elisiana Carpagnano, Piera Soccio, Maria Pia Foschino Barbaro
1895	**Murine airway bronchodilation via Proteinase Activated Receptor 2** Kimberly Black (Paisley, United Kingdom), Andrew Mackenzie, Lynette Dunning, Anne Crilly, Joanna Brzeszczynska, Lorcan Mcgarvey, Keith Thornbury, Carl S. Goodyear, John C. Lockhart, Gary J. Litherland
1896	**Epithelial anion secretion of human bronchial ciliary epithelium.** Shigekuni Hosogi (Kyoto, Japan), Nobuyo Tamiya, Leonardo Puppulin, Hideo Tanaka, Koichi Takayama, Eishi Ashihara
1897	**LSC - 2020 - Transcriptomic and proteomic analyses reveal age-related extracellular matrix changes in the lung** Maunick Lefin Koloko Ngassie (Groningen, Netherlands)
1898	**Participation COX and NOS in effect of IL-1ß on lung ventilation and hypoxic chemoreception** Anna Klinnikova (Saint-Petersburg, Russian Federation), Galina Danilova, Nina Aleksandrova
1899	**The effect of eosinophil subtypes on ASM cells proliferation and viability in asthma** Egle Jurkeviciute (Kaunas, Lithuania), Andrius Januskevicius, Ieva Janulaityte, Airidas Rimkunas, Beatrice Tamasauskaite, Jolita Palacionyte, Virginija Kalinauskaite-Zukauske, Kestutis Malakauskas
1900	**The effect of Taxane anticancer drugs on bronchiolar ciliary activity in human airway cultured cells** Nobuyo Tamiya (Kyoto, Japan), Shigekuni Hosogi, Jun Suzumoto, Masaki Ishida, Chikara Sakaguchi, Michiko Tsuchiya, Yukio Nagasaka, Eishi Ashihara, Koichi Takayama
1901	**Activity of ENaC-activating serine proteases in human alveolar epithelial cells** Alireza Tavakolinejad (Auckland, New Zealand), Vinod Suresh
1902	**PIERCEing ciliogenesis: defining a role for PIERCE1 and its' paralog C15ORF65 in multiciliogenesis** Md. Miraj Kobad Chowdhury (Dhaka, Bangladesh), Priyanka Anujan, Lynne Bingle, Colin Bingle
1903	**Mitotically inactivated 3T3-J2 feeder cells support the differentiation of 3D bronchospheres** Felix Ritzmann, Michelle Brand, Richard Sprott, Frank Langer, Thomas Tschernig, Robert Bals, Christoph Beisswenger

Pre-congress content Session 137 00:00 - 23:59

E-poster session: Rare lung diseases and lung manifestations of extrapulmonary diseases

Disease(s) : Airway diseases Interstitial lung diseases Pulmonary vascular diseases

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

Chairs : Federica Meloni (Pavia (PV), Italy), Laura Fregonese (London, United Kingdom)

1904	**Improving Primary Ciliary Dyskinesia diagnosis using Artificial Intelligence** Andreia Lucia do Nascimento Pinto (London, United Kingdom), Laurens Hogeweg, Oliver Hamilton, Ioannis Katramados, Amelia Shoemark, Thomas Burgoyne, Claire Hogg
1905	**Oscillometry (OSC) to assess respiratory function in rare neuromuscular disease with respiratory muscle weakness (NMD).** Arash Rad (Montreal, Canada), Marta Kaminska, Basil J. Petrof, Larry C. Lands, Zoltan Hantos, Ronald J. Dandurand, Stewart B. Gottfried
1906	**An international perspective on the demographic and clinical features of exercise induced laryngeal obstruction** Emil S. Walsted (Frederiksberg, Denmark), Bamidele Famokunwa, Louise Andersen, Sune L. Rubak, Frederik Buchvald, Lars Pedersen, James W. Dodd, Vibeke Backer, Kim G. Nielsen, Andrew Getzin, James H. Hull
1907	**Prognostic determinants in motoneuron diseases** Alessandro Celi (Pisa (PI), Italy), Massimiliano Serradori, Marco Gherardi, Luciano Gabbrielli, Claudio Bettini, Ferruccio Aquilini, Giovanni D'Ambrosio, Antonio Servino
1908	**Investigation of granulomatous lung diseases in cases with granulomatosis ocular pathologies** Zuleyha Bingol (Istanbul, Turkey), Tulin Cagatay, Gülfer Okumuş, Merih Oray, Sehan Dagıstanlı, Zeki Kilicaslan, Ilknur Tugal –tutkun
1909	**Altered exhaled NO parameters in newly onset of rheumatoid arthritis** Marieann Högman (Uppsala, Sweden), Alexandra Thornadtsson, Anders Lind, Thomas Weitoft
1910	**Examining pulmonary function measures in patients with systemic lupus erythematosus (SLE)** Biljana Lazovic (Beograd, Republic of Serbia), Sanja Sarac, Ljudmila Stojanovic, Rade Milic, Vladimir Zugic
1911	**Comprehensive study of the mucociliary system in patients with chronic obstructive pulmonary pathology** Vyacheslav Kobylyansky (Moscow, Russian Federation)
1912	**Clinical profile of Tropical Pulmonary Eosinophilia (TPE) in Bihar, India** Saket Sharma (Patna (Bihar), India)
1913	**Rate of respiratory symptoms in naïve patients with Chronic lymphocytic leukemia** Kateryna Gashynova (Dnipro, Ukraine), Ganna Usenko
1914	**Vascular anomalies causing airway compression: six-year single center experience** Fazilcan Zirek (Ankara, Turkey), Gizem Özcan, Mehmet Ramoğlu, Tayfun Uçar, Hasan Ercan Tutar, Fatma Nazan Çobanoğlu
1915	**High minute volume pulmonary hypertension reversed by thiamine administration in wet Beriberi** Martin Bosio (Buenos Aires, Argentina), Felipe Julio Chertcoff, Lorena Maldonado, Nicolas Emery, Alejandro Salvado
1916	**Spontaneous resolutive pulmonary necrotizing granulomatosis** Bastien Weicker (, Belgium), Adeline Rosoux, Isabelle Gielen, Bruno Coulier, Richard Frognier
1917	**Impact of the alveolar-arterial oxygen gradient on prognosis after liver transplantation in adults: a single-center experience.** Alberto García Ortega (Valencia, Spain), Ana Torrents Villar, Marcos Prado Barragán, Grace Oscullo Yepez, Antonio Cañada Martínez, Lorena Puchades Renau , Julia Herreras López, Rafael López Andújar, Raquel López Reyes
1918	**Respiratory complication rate after scoliosis surgery in children with cerebral palsy.** Marijke Proesmans (Leuven, Belgium), Elke Vandendriessche, Pierre Moens, Els Ortibus
1919	**Title: Impulse Oscillometry (IOS) in patients with Amyotrophic Lateral Sclerosis** Paola Pierucci (Bari, Italy), Enrico Buonamico, Andrea Portacci, Francesca Fortunato, Giovanna Elisiana Carpagnano, Onofrio Resta

Pre-congress content Session 138 00:00 - 23:59

E-poster session: Molecular insights into paediatric disease

Disease(s) : Airway diseases

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

Chairs : Miguel Angel Alejandre Alcázar (Köln, Germany), Chair to be confirmed

Pre-congress content Session 139 00:00 - 23:59

E-poster session: New insights into evaluation and treatment of respiratory disease

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

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

Chairs : Mathieu Marillier (Kingston, Canada), Roberto A. Rabinovich (Edinburgh (Scotland), United Kingdom)

1920	**Late Breaking Abstract - Relationship between obesity and aging of the pulmonary parenchyma** Hana Trabelsi (Sfax, Tunisia), Sahar Chakroun, Khouloud Kchaou, Asma Haddar, Rim Kammoun, Mariam Sahnoun, Ines Kammoun, Leila Triki, Kaouther Masmoudi
1921	**Impaired cerebral oxygenation: a cause for exercise intolerance in patients with fibrotic interstitial lung disease?** Mathieu Marillier (Kingston, Canada), Anne-Catherine Bernard, Samuel Verges, Onofre Moran-Mendoza, Denis E O'Donnell, J Alberto Neder
1922	**Determinants and consequences of exertional ventilatory inefficiency in patients with ILD** Cortozi Berton Danilo (, Brazil), Franciele Plachi, Fernanda Balzan, Ricardo Gass, Igor Cézar, J Alberto Neder, Danilo Berton
1923	**Exertional ventilatory and gas exchange inefficiency: contrasting interstitial versus pulmonary vascular disease** Nathalia Mendes (Porto Alegre, Brazil), FERNANDA BALZAN, Franciele Plachi, Igor Cézar, Lísia Cé, Kimberli Käfer, J Alberto Neder, Danilo Berton
1924	**The effect of high flow oxygen during constant-load cycling test in severe ILD patients.** Yara Al Chikhanie (Dieulefit, France), Frédéric Hérengt, Samuel Vergès, Daniel Veale
1925	**Effect of High-Flow Oxygen on Exercise Performance In COPD. A Randomized Crossover Trial.** Konstantinos Bitos (Zurich, Switzerland), Michael Furian, Laura Mayer, Simon Rafael Schneider, Simone Buenzli, Maamed Mademilov, Ulan Sheraliev, Ainura K. Abdraeva , Shaira Aydaralieva, Aybermet Myratbekova, Talantbek M. Sooronbaev, Silvia Ulrich, Konrad Ernst Bloch
1926	**Impact of automatic oxygen titration alone or with high flows on exercise tolerance in patients with lung disease and exercise oxygen desaturation** Félix-Antoine Vézina (Sherbrooke (QC), Canada), Pierre-Alexandre Bouchard, Damien Viglino, Emilie Breton-Gagnon, Geneviève Dion, Lara Bilodeau, Steeve Provencher, Cynthia Brouillard, François Lellouche, François Maltais
1927	**Effects of oxygen supplementation during exercise on hemodynamic responses in patients with pulmonary arterial hypertension** Afroditi Boutou (Thessaloniki, Greece), Konstantina Dipla, Antreas Zafeiridis, Stavros Papadopoulos, Anastasia Chatzikosti, Aikaterini Markopoulou, Ioannis Stanopoulos, Georgia Pitsiou
1928	**The restrictive consequences of extreme obesity in men and women** Mathieu Marillier (Kingston, Canada), Anne-Catherine Bernard, Gabriel Reimao, Giovana Castelli, Hadeel Alqurashi, Denis E O'Donnell, J Alberto Neder
1929	**Hypoxic training to improve exercise capacity in obesity: a randomized controlled trial** Samuel Vergès (Grenoble, France), Samarmar Chacaroun, Anna Borowik, Ignacio Vega-Escamilla Y Gonzalez , Stéphane Doutreleau, Bernard Wuyam, Elise Belaidi, Renaud Tamisier, Jean-Louis Pépin, Patrice Flore
1930	**Physiological responses to passive hypoxic conditioning in obesity: a randomized controlled trial** Samuel Vergès (Grenoble, France), Samarmar Chacaroun, Anna Borowik, Stéphane Doutreleau, Elise Belaidi, Bernard Wuyam, Renaud Tamisier, Jean-Louis Pépin, Patrice Flore
1931	**Effect of nocturnal oxygen therapy on next-day exercise performance of COPD patients at 2048m. Data from a RCT.** Sophia Gutweniger (Zürich, Switzerland), Tsogyal D. Latshang, Sayaka S. Aeschbacher, Fabienne Huber, Deborah Flueck, Mona Lichtblau, Stefanie Ulrich, Elisabeth D. Hasler, Philipp M. Scheiwiller, Silvia Ulrich, Konrad E. Bloch, Michael Furian
1932	**A novel approach for automated alveolar morphometry using synchrotron X-ray microtomography in intact rat lung** Bertrand Maury (- PARIS cedex 05, France), Hugo Leclerc, Benoit Semin, Sébastien Martin, Lucas Fardin, Sam Bayat, Hervé Guénard
1933	**Within-breath dynamics of atelectrauma during mechanical ventilation studied by in vivo 4D microscopy in injured rabbit lung** Luca Fardin (Grenoble, France), Ludovic Broche, Goran Lovric, Alberto Mittone, Anders Larsson, Alberto Bravin, Sam Bayat

1934 **Feasibility and reproducibility of oscillometry for measuring respiratory function in young children: the SEPAGES cohort**
Sam Bayat (Grenobe, France), Anne Boudier, Sarah Lyon-Caen, Joane Quentin, Yoan Gioria, Rémy Slama, Isabelle Pin, Valérie Siroux

1935 **Cardiopulmonary exercise test in preoperative risk stratification for lung resection: what is beyond oxygen consumption?**
Rocco Francesco Rinaldo (Milano (MI), Italy), Fabiano Di Marco, Francesca Marchetti, Marcelina Kocwin, Beatrice Vigo, Alessandra Masseroni, Elena Brambilla, Federica Pitari, Stefano Pavesi, Federico Raveglia, Alessandro Baisi, Stefano Centanni

1936 **Reduced neural gating of respiratory sensations in COPD patients versus healthy controls**
Ysys Denutte (Leuven, Belgium), Thomas Reijnders, Paul W. Davenport, Wim Janssens, Thierry Troosters, Andreas Von Leupoldt

Pre-congress content Session 140 00:00 - 23:59

E-poster session: Clinical management of lung transplant recipients

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

Method(s) : Transplantation General respiratory patient care Surgery Respiratory intensive care Pulmonary function testing Pulmonary rehabilitation

Chairs : Anna Elisabeth Frick (Viena, Austria), Johanna M. Kwakkel-van Erp (Antwerp, Belgium)

1937 **Tacrolimus versus cyclosporine for lung transplant recipients in Portugal**
David Tavares Teixeira Silva (Povoa de Santo Adrião, Portugal), Carolina Dantas, Madalena Emiliano, Luísa Semedo, João Cardoso

1938 **Prevalence and outcomes of diabetes in lung transplant recipients: the portuguese experience**
Maria Inês de Sousa Moreira (Lisboa, Portugal), Sara Silva, Ana Raquel Magalhães, Sara Alfarroba, Luísa Semedo, João Cardoso

1939 **Cytomegalovirus-specific cell-mediated immunity after prophylaxis predicts late-onset infection in lung transplantation**
Eva Revilla Lopez (Barcelona, Spain), Marta Jarque, Berta Sáez Giménez, Ibai Los Arcos, Susana Gómez Ollés, Oriol Bestard, Carlos Bravo, Victor Monforte

1940 **New nebulized treatment options for bronchial infection in lung transplant**
Marta Arjona (Barcelona, Spain), David Espejo, Eva Revilla, Ibai Los Arcos, David Campany, Berta Sáez, Miriam Barrecheguren, Victor Monforte, Irene Bello, Manuel López Meseguer, Carlos Bravo, Cristina Berastegui

1941 **Clamshell vs bilateral anterolateral thoracotomy for double lung transplantation: impact on vital capacity**
Alessandro Palleschi (Milano (MI), Italy), Antonella Lomauro, Emilia Privitera, Elisa Daffrè, Valeria Musso, Andrea Aliverti, Letizia Morlacchi, Rosaria Carrinola, Valeria Rossetti, Mario Nosostti

1942 **Airway complications after lung transplantation: risk factors and survival**
Federico Raimondi (Milano, Italy), Claudia Maria Sanfilippo, Francesco Tarantini, Gianluca Imeri, Caterina Conti, Stefania Camagni, Francesco Consonni, Giuseppe Ciaravino, Sofia Comandini, Piercarlo Parigi, Sergio Vedovati, Michele Colledan, Fabiano Di Marco

1943 **Impact of inspiratory muscle strength on exercise capacity after lung transplantation.-a longitudinal study in early stage-**
tatsuya sato (Daito City, Osaka Prefecture, Japan), Kazuyuki Tabira, Susumu Sato, Yohei Oshima, Yuji Yoshioka, Ryota Hamada, Kazuya Tanimura, Toyofumi Yoshikawa, Hiroshi Date, Shuichi Matsuda

1944 **6MWT as useful predictor for long term survival after lung transplantation in patients with ILD**
Elias Kampschulte (Vienna, Austria), Alberto Benazzo, Panja Boehm, Christian Lang, Konrad Hoetzenecker, Peter Jaksch, Gabriella Murakoezy, Walter Klepetko, Christopher Lambers

1945 **Impact of intensive care unit (ICU) admissions in Lung Transplant patients**
Myriam Aguilar Perez (Las Rozas (Madrid), Spain), Marta Erro Iribarren, Alfonso Ortega López, Sandra Tejado Bravo, Rosalia Laporta Hernandez, Maria Teresa Lazaro Carrasco De La Fuente, Piedad Ussetti Gil

1946 **Outcome of lung retransplantation: from graft survival to patients' perspective**
Luca Novelli (Bergamo, Italy), Sofia Comandini, Fabiano Di Marco, Gianluca Imeri, Stefania Camagni, Michele Colledan, Claudia Maria Sanfilippo, Piercarlo Parigi, Alessandro Lucianetti, Cristina Pugliese

Pre-congress content Session 141 00:00 - 23:59

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

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

Method(s) : Respiratory intensive care | General respiratory patient care | Pulmonary function testing | Physiology | Pulmonary rehabilitation | Imaging

Chairs : João Carlos Winck Fernandes Cruz (Vila Nova de Gaia, Portugal), Claudia Crimi (Catania (CT), Italy)

1947	**The Effectiveness of Disinfecting Wipes on the Mechanical Ventilator Surfaces: A Pilot Study** Sa-Bi Lin (New Taipei City, Taiwan), Chen-En Chiang, Yu-Wen Lin, Wei-Lun Liu, Chia-Hei Su, Ke-Yun Chao
1948	**Usefulness of non-invasive ventilation delivered by helmet versus oronasal mask among patients at high risk of post-extubation respiratory failure** Mihwa Park (Incheon, Republic of Korea), Jung Soo Kim, Minjeong Kim, Ah Jin Kim, Man-Jong Lee
1949	**Is the level of expiratory positive airway pressure (EPAP) needed for tracheal stenting correlated to improvement in exercise capacity in patients with tracheobronchomalacia (TBM)?** Léa Razakamanantsoa (Rouen, France), Emeline Fresnel, Adrien Kerfourn, Bachar Chahine, Laurène Goument, Camille Germain, Julien Maris, Jorys Achard, Tristan Bonnevie, Francis-Edouard Gravier, Antoine Cuvelier, Maxime Patout
1950	**Effect of different connections on aerosol delivery during non-invasive mechanical ventilation.** Haitham Saeed (fayoum, Egypt), Antonio M. Esquinas, Bruno Gil Gonçalves, Mohamed E.A. Abdelrahim
1951	**A bench test of non-invasive ventilation (NIV) interfaces** Christian Caillard (Rouen, France), Emeline Fresnel, Adrien Kerfourn, Lea Razakamanantsoa, Antoine Cuvelier, Maxime Patout
1952	**Development of a bench test for noninvasive ventilation (NIV) interfaces** Christian Caillard (Rouen, France), Emeline Fresnel, Adrien Kerfourn, Lea Razakamanantsoa, Antoine Cuvelier, Maxime Patout
1953	**Reliability of two flow-based algorithms of detection of expiratory flow limitation (EFL) in patients with chronic non invasive ventilation.** Manuel Lujan Torne (Sabadell (Barcelona), Spain), Cristina Lalmolda Puyol, Marta Corral , Ana Hernández Voth, Javier Sayas
1954	**EPAP variability during EFL Treatment in Patients using a Non-Invasive Ventilator** Mike Kissel (Monroeville, United States of America), Chuck Cain, Jim Mckenzie, Bill Hardy, Parul Nisha, Sidney Cannon-Bailey
1955	**Evaluation of EFL Incidence and Impacts of Novel NIV Home Therapy** Josh Stachel (Monroeville, United States of America), Chuck Cain, Bill Hardy, Michael Kissel, Parul Nisha, Jim Mckenzie, Sidney Cannon-Bailey
1956	**Effect of Average Volume-Assured Pressure Support Treatment on Quality of Life in COPD patients with hypercapnic respiratory failure** Doaa Magdy (Assiut, Egypt), Ahmed Metwally
1957	**Comparison of positive airway pressure efficacy in obese hypercapnic overlap syndrome.** Yizhong Zheng (Sydney (NSW), Australia), Brendon Yee, Keith Wong, Amanda Piper
1958	**Gastrostomy outcome in patients with Progressive Respiratory Failure (PRF) secondary to Neuromuscular Disorders (NMD)** Akshay Dwarakanath (Wakefield (West Yorkshire), United Kingdom), Sanjay Bangad, Joseph Hogg, Husham Elfaki, Mohammed Khan, Anjali Gondker, Muthu Thirumaran, Salim Meghjee, Anthony Johnson
1959	**Overweight Motor Neurone Disease Patients with Bulbar Dysfunction: High Risk Gastrostomy Tube Insertion** Michelle Ramsay (Esher, United Kingdom), Angela Reddy, Shauna Sheridan, Reegan Puthussery, Joerg Steier, Eui-Sik Suh, Shelley Srivastava, Hina Pattani, Philip Marino, Patrick Murphy, Nicholas Hart, Georgios Kaltsakas
1960	**The utility of HACOR score in predicting failure of High-flow nasal oxygen (HFNO) in acute hypoxemic respiratory failure.** Ahmed Metwaly (Assuit, Egypt), Doaa Magdy
1961	**HACOR in Action: Noninvasive Ventilation Failure in Acute Respiratory Failure** Oki Ishikawa (New York, United States of America), Matthew Ballenberger, Brian Birnbaum, Bushra Mina, Antonio Esquinas, Bruno Gil Gonçalves, Alejandro Ubeda, Irene Fernandez Burgos, Giuseppe Fiorentino, Maurizia Lanza, Suha Bozbay, Yalim Dikmen, Jun Duan

1962	**The Non-Invasive Ventilation Outcomes (NIVO) score in presumed COPD exacerbation without prior spirometry.** Nicholas Lane (Newcastle Upon Tyne, United Kingdom), Tom Hartley, John Steer, Mark Elliott, Milind Sovani, Helen Curtis, Elizabeth Fuller, Patrick Murphy, Dinesh Shrikrishna, Keir Lewis, Neil Ward, Christopher Turnbull, Nicholas Hart, Stephen Bourke
1963	**Effects of titrating oxygen flow and changing patient interfaces on aerosol delivery** yasmin M.Madney (Benisuef, Egypt), Nabila Ibrahim Laz, Ahmed A.Elberry, Hoda Rabea, Mohamed E.A. Abdelrahim
1964	**In-vitro evaluation of pressurized metered dose inhalers in high flow oxygen system** yasmin M.Madney (Benisuef, Egypt), Hadeer S. Harb, Bruno Gil Gonçalves, Antonio M. Esquinas
1965	**Mask related side effects (SE) in long-term non-invasive ventilation (NIV)** Maxime Patout (Mont-Saint Aignan, France), Christian Caillard, Grégoire Joly, Adrien Kerfourn, Emeline Fresnel, Léa Razakamanantsoa, Jean-François Muir, Elodie Lhuillier, Antoine Cuvelier
1966	**Predicting failure of non invasive ventilation (NIV) and High flow nasal cannula (HFNC) in patients with acute hypoxemic hypocapnic respiratory failure (AHHRF): the usefulness of the standardised PaO2/FiO2 ratio (P/F-st).** Giacomo Ghinassi (, Italy), Antonietta Bandinu, Uberto Maccari, Giuseppina Ciarleglio, Chiara Madioni, Valentina Granese, Laura Salerno, Maria Lucia Valentini, Elena Torricelli, Pietro Pirina, Raffaele Scala

Pre-congress content — Session 142 — 00:00 - 23:59

E-poster session: Effects of environmental exposures on lung pathology

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

Method(s) : Cell and molecular biology | Physiology | Respiratory intensive care | General respiratory patient care

Chairs : Tania Maes (Ghent, Belgium), Mahyar Aghapour (Magdeburg, Germany)

1967	**Electronic cigarette liquids induce formation of tunnelling nanotubes in BEAS2B cells** Aleksandra Divac Rankov (Beograd, Republic of Serbia), Sara Trifunovic, Mila Ljujic
1968	**Impact of particulate matter (PM) exposure on lung macrophage phenotype and phagocytic activity.** Stephan Van Eeden (Vancouver (BC), Canada), Kei Yamasaki, Beth Whalen
1969	**Effects of volcanic fumaroles on large and distal airway epithelial homeostasis** Elisabetta Pace (Palermo (PA), Italy), Doriana Lo Piparo, Caterina Di Sano, Serena Di Vincenzo, Francesco Sortino
1970	**Calcium-sensing receptor antagonists, calcilytics, prevent activation of human dendritic and epithelial cells by urban particulate matter** Bethan Mansfield (Cardiff (Wales), United Kingdom), Tzer-Ren Ho, Ian Mudway, Sebastian. T Lugg, Chris. J Corrigan, Jeremy P.T. Ward, David Thickett, Zoe Prytherch, Simon Scofield, Paul. J Kemp, Keir. E Lewis, Luis. A Mur, Catherine Hawrylowicz, Daniela Riccardi
1971	**Effect of N-acetylcysteine loaded in biocompatible nanoparticle on lipopolysaccharide-induced acute lung injury model in rats** Shin Young Kim (Seuol, Republic of Korea), Seongchan Kim, Seung Hoon Kim, Chi Hong Kim, Sung Kyoung Kim
1972	**Exposure to textile microplastic fibers impairs epithelial growth** Fransien van Dijk (Groningen, Netherlands), Gail Van Eck, Matthew Cole, Anna Salvati, Sophie Bos, Reinoud Gosens, Barbro Melgert
1973	**Cytotoxic effect of vehicular PM metals Fe3+ & Zn2+ on lung epithelia** Carly Woods (Paisley, United Kingdom), Gary Litherland, Andrew Hursthouse, Fionnuala Lundy, Gerard Sergeant, John Lockhart, Iain Mclellan
1974	**Cigarette Smoke upregulates Notch1 signaling pathway in lung adenocarcinoma** Giuseppina Chiappara (Palermo (PA), Italy), Claudia Sangiorgi, Caterina Di Sano, Claudia D'Anna, Serena Di Vincenzo, Giovanni Zito, Chiara Cipollina, Alessandro Bertani, Patrizio Vitulo, Elisabetta Pace
1975	**Increased STIM1 expression induced by cigarette smoking extracts regulates the proliferation and production of inflammatory cytokines in human airway smooth muscle cells** Jun Chen (, China), Zhicheng Yuan, Zijian Zeng, Tao Wang, Fuqiang Wen
1976	**Regulatory effect of cadmium on inflammasome activation and and its upstream mechanisms** jeeyoung Kim (chuncheon, Republic of Korea), Yoonki Hong, Seok-Ho Hong, Woojin Kim
1977	**3D imaging of London roadside particulate matter** Lisa Miyashita (London, United Kingdom), Gary Foley, Ian Gill, Gavin Gillmore, Ruaraidh Dobson, Sean Semple, Ana Rule , Jonathan Grigg, David Wertheim

1978	**Epithelial wound repair is increased by farm dust in a co-culture model of airway epithelial cells and macrophages** Jasmijn A. Schrumpf (Leiden, Netherlands), Padmini P.S.I. Khedoe, Sander Van Riet, Dennis K. Ninaber, Erika Von Mutius, Hermelijn H. Smits, Pieter S. Hiemstra
1979	**LSC - 2020 - Diesel exhaust particles alter mitochondrial bioenergetics in human bronchial epithelial cells** Isabella Cattani-Cavalieri (Rio de Janeiro, Brazil), Isabella Cattani-Cavalieri, Hoeke A. Baarsma, Asmaa Oun, Melissa Van Der Veen, Amalia Dolga, Samuel Dos Santos Valença, Martina Schmidt
1980	**LSC - 2020 - Diesel Exhaust Particles-induced Dysfunctional Responses in Lung Epithelial Progenitors is mediated by oxidative stress** Xinhui Wu (Groningen, Netherlands), Xinhui Wu, Sophie Bos, Martina Schmidt, Loes Kistemaker, Reinoud Gosens
1981	**LSC - 2020 - Impact on pulmonary, intestinal and metabolic compartments of chronic smoking exposure and unhealthy diet: a functional and multi-omic approach** Elodie Picard (Lille, France)
1982	**IgE-mediated inflammatory response induced by Crotalus durissus venom in mice** Ricardo Figueiredo (Feira De Santana (BA), Brazil), Marcos Lázaro Guerreiro, Nataly De Oliveira, Elen Azevedo, Paulo Cesar Nunes, Neuza Alcantara-Neves, Ilka Biondi
1983	**The effects of organic compounds of PM2.5 in Seoul on LPS/or poly(I:C)-induced inflammation and phagocytosis** Kyoung-Hee Lee (Seoul, Republic of Korea), Jieun Park, Jisu Woo, Jiyeon Kim, Jongbae Heo, Chang-Hoon Lee, Seung-Muk Yi, Chul-Gyu Yoo
1984	**Cigarette smoke and TGF-ß activate distinct repair processes in a proximal airway model** Serena Di Vincenzo (Palermo (PA), Italy), Dennis K Ninaber, Claudia Sangiorgi, Pieter S Hiemstra, Elisabetta Pace
1985	**LSC - 2020 - Cigarette smoke exposure disrupts the molecular regulation of mitochondrial metabolism in human bronchial and alveolar epithelial cells** Christy B.M. Tulen (Maastricht, Netherlands)

Pre-congress content Session 143 00:00 - 23:59

E-poster session: Air pollution considerations

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

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

Chairs : Jeroen Vanoirbeek (Leuven, Belgium), Jouni J.K. Jaakkola (Oulu, Finland)

1986	**Acute cardiopulmonary responses to air pollution exposure during short controlled physical exercise in healthy males.** Krzysztof Kocot (Siewierz, Poland), Jan E. Zejda
1987	**Gene expression profiles of adult-onset asthma and idiopathic environmental intolerance related to damp and mouldy buildings** Hille Suojalehto (Helsinki, Finland), Joseph Ndika, Irmeli Lindström, Liisa Airaksinen, Kirsi Karvala, Piia Karisola, Harri Alenius
1988	**Effects of short-term exposures to ultrafine particles near an airport in healthy adults.** Ariana Lammers (Amsterdam, Netherlands), Nicole A H Janssen, A John F Boere, Marieke Berger, Cristina Longo, Susanne J H Vijverberg, Anne H Neerincx, Anke-Hilse Maitland-Van Der Zee, Flemming R Cassee
1989	**Impact of air pollutant of polycyclic aromatic hydrocarbons (PAHs) on the yearly decline of pulmonary in patients with asthma** Chun-Hua Wang (Taipei, Taiwan), Yu-Chen Huang, Chon-Lin Lee, Kian Fan Chung
1990	**IgG, IgG1, and IgG4 sensitization to microbial extracellular vesicles in indoor dust ultrafine particles in Asthma, COPD and Lung cancer** Goohyeon Hong (Cheonan, Republic of Korea), Jinho Yang, Youn-Seup Kim, Hochan Seo, Sungwon Kim, Andrea Mcdowell, Won Hee Lee, Young-Koo Jee, You-Young Kim, Yoon-Keun Kim
1991	**Early-life home environment related to incidence and remission of wheeze and rhinitis** Dan Norback (Uppsala, Sweden), Xin Zhang, Tian Li, Zefei Zhang, Liu Yang, Xingyi Chen, Zhaohua Zeng, Zhuohui Zhao
1992	**Visible moulds, smoking, rhinitis and asthma in adults: the EGEA study** Laurent Orsi (Villejuif Cedex, France), Laurent Orsi, Jean Bousquet, Bénédicte Jacquemin, Valérie Siroux, Maritta S. Jaakkola, Jouni J.K. Jaakkola, Bénédicte Leynaert*, Rachel Nadif*

1993	**Synergistic effect of mold and tobacco smoke exposure on adult-onset asthma** Jouni J.K. Jaakkola (Oulu, Finland), Rachel Nadif, Taina K. Lajunen, Maritta S. Jaakkola
1994	**A rapid test for environmental detection of pigeon antigen** Silvia Sánchez-Díez (Barcelona, Spain), María Jesús Cruz, Daniel Álvarez-Simon, Tomás Montalvo, Xavier Muñoz, Susana Gómez-Ollés
1995	**Relationship between ambient air pollution and lung function in a Canadian population: the CanCOLD cohort study** Dany Doiron (MONTREAL, Canada), Wan C. Tan, Sharmistha Biswas, Liesel Dsilva, Gilbert Nadeau, Shawn D. Aaron, Kenneth R. Chapman, Paul Hernandez, François Maltais, Darcy Marciniuk, Denis O'Donnell, Don D. Sin, Odette Allonby, Chris Compton, Bruce E. Miller, Jean Bourbeau
1996	**Influence of air pollution on hospital admissions in patients with COPD or asthma exacerbation.** Ana Cerezo Hernández (Valladolid, Spain), Daniel Álvarez González, Raúl López Izquierdo, Fernando Moreno Torrero, Ana Gómez García, Milko Daniel Terranova Ríos, Carolina Andrea Urbina Carrera, Lucía Arroyo, Tomás Ruíz Albi, Andrea Crespo Sedano, Félix Del Campo Matías
1997	**Use of biomass cooking fuel and risk of respiratory symptoms and Acute Respiratory Infections in Ugandan children aged under 5 years: cross-sectional analysis** Katherine Woolley (Birmingham, United Kingdom), Vanessa Bagambe, Ajit Singh, William Avis, Shelton Mariga, Bruce Kiregna, Francis. D Pope, G. Neil Thomas, Suzanne Bartington
1998	**Does parental or grandparental farm upbringing influence risk of asthma in offspring?** Vivi Schlünssen (Århus C, Denmark), Signe Timm, Cecilie Svanes, Morten Frydenberg, Torben Sigsgaard, Mathias Holm, Christer Janson, Lennart Bråbäck, Brittany Campbell, Marie Kjær Madsen, Oskar Jogi, Rain Jogi, Linus Schiöler, Randi Jacobsen Bertelsen, Ane Johannesen, Jose Sanchez-Ramos, Jesus Martinez-Moretalla, Julia Dratva, Shyamali Dharmage
1999	**Prevalence of diagnoses and comorbid conditions in patients with e-cigarette, or vaping, associated lung injury (EVALI)** Dixie Harris (American Fork, United States of America), Michael Lanspa, Braden Anderson, Susan Rea, Dave Collingridge, Sean Callahan, David Guidry, Colin Grissom, Denitza Blagev
2000	**Intrauterine and postnatal exposure to outdoor NO2 and lung function at school age** Ioar Rivas (Barcelona, Spain), Mònica Guxens, Carmen Iñiguez, Lucia Alonso, Marisa Estarlich, Mikel Basterrechea, Alicia Abellan, Judith Garcia-Aymerich, Carlos Zabaleta, Amparo Ferrero, Xavi Basagaña, Martine Vrijheid, Jordi Sunyer, Maribel Casas
2001	**Workplace mold odor and renovations and the exacerbation of asthma in healthcare workers** Paul K. Henneberger (Morgantown, United States of America), Steven Rollins, Michael Humann, Xiaoming Liang, Feng Chiao Su, Aleks Stefaniak, Ryan Lebouf, Marcia Stanton, Abbas Virji
2002	**In allergic individuals, FENO50 is associated with O3 and PM10 during pollen season,** Hanne Krage Carlsen (Gothenburg, Sweden), Hatice Koca, Susanna Lohman-Haga, Anneli Behndig, Lars Modig, Anna-Carin Olin

Pre-congress content Session 144 00:00 - 23:59

E-poster session: Novel findings in intensive care unit medicine: part 1

Disease(s) : Respiratory critical care Airway diseases

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

Chairs : Sarah Schwarz (Köln, Germany), Leo Heunks (Amsterdam, Netherlands)

2003	**Late Breaking Abstract - Aggravated pathology in MRSA pneumonia secondary to Influenza A virus infection diverged from decreased expression of IL-1ß** Yunfeng Shi (GuangZhou, China), Yunfeng Shi, Xiaohan Shi, Junhui Ba, Jingjing Liang, Jinmei Luo, Jianning Chen, Benquan Wu
2004	**Late Breaking Abstract - "Home-made" CPAP system during COVID-19 pandemic. ¿Is it helpful?** Pablo Florez Solarana (Madrid, Spain), Aylaf Latif Essa, Miguel Alonso Villares, Juan Arévalo Serrano, Olga Navarrete Isidoro, Lara Bravo Quiroga
2005	**Late Breaking Abstract - Effect of a conservative approach to the start of mechanical ventilation on ventilator-free days in coronavirus disease 2019 (COVID-19) pneumonia after adjustment by inverse probability of treatment weighting.** Ricard Mellado Artigas (Barcelona, Spain), Bruno Ferreyro, Alfredo Gea, Jordi Mercadal, Gerard Angeles, María Hernández-Sanz, Carlos Ferrando

2006	**Impact of early bronchoscopy in patients after out-of-hospital cardiac arrest** Jana Palm (Munich, Germany), Anna Lena Lahmann, Anna Berkefeld, Friedhelm Peltz, Rainer Okrojek, Florian Weis, Arne Müller, Alexander Steger, Johannes Von Burstin, Hubert Hautmann, Gregor S. Zimmermann
2007	**Driving pressure variation in mechanical ventilation: Is it associated with ventilaiton associate events?** Huiqing Ge (Hangzhou (Zhejiang), China), Qing Pan, Ling Lin, Zhongheng Zhang
2008	**Diagnostic accuracy of drop-peroxide test to differentiate transudative and exudative pleural effusion** KOTTI PHANINDRA VASU (VISAKHAPATNAM, India), K V V Vijaya Kumar, Gurram Rajyalakshmi, Chintha L.N. Yamini Priyanka
2009	**The syndrome of respiratory failure in acute stroke patients.** Tatiana Kim (Moscow, Russian Federation), Alexander Chuchalin, Eugeniy Gusev, Michail Martynov, Ludmila Shogenova, Alexander Panin
2010	**Effects of nebulized acetylcysteine plus salbutamol on endotracheal tube secretions accumulation: sub-study of a randomized controlled trial** Lorenzo Ball (Genova (GE), Italy), Sophia Van Der Hoeven, Federico Costantino, David M Van Meenen, Paolo Pelosi, Ludo F Beenen, Marcus J Schultz, Frederique Paulus
2011	**Impact of critical illness on expiratory and inspiratory muscle mass and function: a prospectively, observational study** Zhonghua Shi (Amsterdam, Netherlands), Annemijn H Jonkman, Heder J De Vries, Yingrui Zhang, Pieter Roel Tuinman, Leo M.A Heunks
2012	**SOFA (Sequential Organ Failure Assessment) Score As A Predictor Of Moartality In Ventilated Patients With Multi-drug Resistant Bacteremia** Min Ki Lee (Busan, Republic of Korea), Kwangha Lee
2013	**Nutrition practices in the medical intensive care unit in a tertiary hospital: an observational cohort study.** Mithi Kalayaan Zamora (Quezon City, Philippines), Jubert Benedicto, Vladimir Roque
2014	**Validity of ROX Index for Nasal High Flow Therapy in Critical Care** Raquel D´Espiney (London, United Kingdom), Joe Vincent, James Kelly, Vladimir Macavei, Juan Martin-Lazaro
2015	**Perception, experience and knowledge of early rehabilitation in Italian intensive care units: a survey** Simone Salvitti (Segni, Italy), Giulia Montigiani, Davide Papi
2016	**Lung-protective ventilation decreases heart rate variability in a non-inflammatory porcine model.** Thiago Bassi (Burnaby, Canada), Elizabeth Rohrs, Karl Fernandez, Michelle Nicholas, Marlena Ornowska, Steve Reynolds
2017	**Is hypocapnia a risk factor for noninvasive ventilation failure in acute heart failure?** Gil Gonçalves (Lousada, Portugal), Luna Carrillo Aleman, Victor Martinez Perez, Pablo Bayoumy Delis, Angel Andres Agamez Luengas, Augusto Montenegro Moure, Laura Lopez Gomez, Aurea Higon Cañigral, Antonio Esquinas, Andres Carrillo Alcaraz
2018	**Percutaneous versus surgical tecnhique for tracheostomy on adults patients in long-term mechanical ventilation: a rapid evidence synthesis** Silke A T Weber (Botucatu,SP, Brazil), Silvana Andrea Molina Lima, Erika Veruska Paiva Ortolan, Antonio Carlos Marão, Juliana Machado-Rugolo
2019	**Comparison of aerosol delivery of AccuMist and AeroEclipse II using a breath simulator** Ronnie Toddywala (Princeton, United States of America), Akanksha Hande, Vijay Shukla, Michael Newhouse
2020	**Risk Factors for Noninvasive Ventilation Failure in Acute Respiratory Failure with Pneumocystis Jirovecii Pneumonia in Patients without Human Immunodeficiency Virus Infection** Mingming Wang (, China), Yunfu Wu, Shuoyao Qu, Xuemin Yang, Liqiang Song

Pre-congress content Session 145 00:00 - 23:59

E-poster session: Clinical challenges in pneumonia

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

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

Chairs : Tjip S. van der Werf (Groningen, Netherlands), Paola Faverio (Limbiate (MI), Italy)

2021	**EFFICACY OF A BUNDLE FOR PREVENTION OF VENTILATOR ASSOCIATED PNEUMONIA IN AN ADULT INTENSIVE CARE UNIT** Elisa Cristina Wendland Santos (Porto Alegre (RS), Brazil), Sofia Barilli, Crislene Zigiotto, Susi Carmona, Rodrigo Lippert

2022	**PES Pathogens in Elderly Patients with Acquired Pneumonia in the Community** Catia Cilloniz Campos (Barcelona, Spain), Cristina Dominedò, Dievo Tovar, Jose Becerril, Albert Gabarrus, Antoni Torres
2023	**Major concerns on the management of community-acquired pneumonia in adults and achievements of serial guideline training: a nationwide survey for Chinese physicians in 2018** Jing Zhang (Shanghai (Xuhui District), China), Wei-Ping Hu, Yi Huang, Jie-Ming Qu
2024	**Risk factors for recurrence of fever in aspiration pneumonia** Nobuyoshi Hamao (Kyoto, Japan), Isao Ito, Naoya Tanabe, Satoshi Konishi, Masahiro Shirata, Issei Oi, Seiichiro Imai, Hisako Matsumoto, Toyohiro Hirai
2025	**Ventilator associated pneumonia in surgical and medical icu's in urban tertiatry care centre hospital.** Theres Mathew (Kasaragod, (Kerala), India), Baijayanti Mishra, Bipin Mathew
2026	**Inappropriate Endotracheal Tube (ETT) cuff pressure and its relation to ventilator-associated pneumonia (VAP) in Intensive care unit (ICU).** Abdullah AlQahtani (Nottingham, United Kingdom)
2027	**Growing importance of Gram-negative isolates in respiratory samples** Lucía Méndez González (Santa Maria da Feira, Portugal), Adriana Pedrosa, Cátia Caneiras
2028	**Bacteriological and clinical correlates of culture-positive parapneumonic community-acquired pleural infection** Ioannis Kalomenidis (Athens, Greece), Marianthi Iliopoulou, Vasileios Skouras, Zoe Psaroudaki, Magda Makarona, Evangelos Vogiatzakis, Eleni Tsorlini , Eleni Katsifa, Dionisios Spyratos, Dimitra Siopi, Ourania Kotsiou, Stelios Xitsas, Efi Petinaki , Maria Martsoukou, Xanthi Tsiafaki , Vassiliki Filaditaki , Ioanna Sigala
2029	**Characteristics of patients with serotype 5 pneumococcal pneumonia** Hannah Lawrence (Nottingham (Nottinghamshire), United Kingdom), Vadsala Baskaran, Harry Pick, Priya Daniel, Chamira Rodrigo, Deborah Ashton, Rochelle Edwards-Pritchard, Carmen Sheppard, David Litt, Norman Fry, Samuel Rose, Tricia Mckeever, Wei Shen Lim
2030	**Comparative analysis of pneumonia in patients with drug dependence with HIV infection and without HIV.** Elena Klester (Barnaul (Altai Region), Russian Federation), Karolina Klester, Alexandra Balitskaya, Alexander Zharikov
2031	**Birmingham Community Acquired Pneumonia Severity score (BCAPS) is a better predictor of mortality than CURB65 in hospitalised patients with community acquired pneumonia** Frances Grudzinska (Birmingham, United Kingdom), Peter Nightingale, David Thickett, Davinder Dosanjh
2032	**CIRP might determine the presences of IDSA/ATS major/minor criteria and predicted best** Qi Guo, Wei-Dong Song, Hai-Yan Li, Ming Li, Xiao-Ke Chen, Hui Liu, Hong-Lin Peng, Hai-Qiong Yu, Nian Liu, Zhong-Dong Lü Lü, Li-Hua Liang, Qing-Zhou Zhao, Mei Jiang
2033	**Risk factors for methicillin-resistant Staphylococcus aureus isolation from serially obtained sputum in patients hospitalized with pneumonia** Masahiro Shirata (Kyoto, Japan), Isao Ito, Naoya Tanabe, Satoshi Konishi, Issei Oi, Nobuyoshi Hamao, Seiichiro Imai, Hisako Matsumoto, Toyohiro Hirai
2034	**Pneumonia impact on the flow and the outcome at patients with seasonal influenza** Marija Cvetanovska (Skopje, North Macedonia), Zvonko Milenkovik , Krsto Grozdanovski, Ilir Demiri , Katerina Spasovska, Vlatko Cvetanovski
2035	**Community-acquired pneumonia associated with COPD : a special entity ?** Alia Ezzaouia (Tunis, Tunisia), Chirine Moussa, Houda Rouis, Amal Channoufi, Wajih Ghribi, Nada Akrimi, Amel Khattab, Ibtihel Khouaja, Ines Zendah, Habib Ghedira
2036	**Follow-up of community acquired pneumonia with chest imaging - is it relevant?** Marta Sousa De Sá Marques (Vila Nova de Gaia, Portugal), Ana Fonseca, Eloísa Silva, Teresa Shiang, Manuela Vanzeller, Ana Oliveira, Carla Ribeiro
2037	**Use of ATS/IDSA severe pneumonia minor criteria to improve emergency department patient disposition: effect on 30-day mortality and resource utilization** Jason Carr (Salt Lake City, United States of America), Allison Butler, Al Jephson, Samuel Brown, Nathan Dean
2038	**The dynamics of antibiotic resistance of nasopharyngeal pneumococcus isolates in children in Moscow for 2010-2018** Anna Lazareva (Moscow, Russian Federation), Natalja Alyabyeva, Ekaterina Brzhozovskaya, Olga Shamina

Pre-congress content Session 146 00:00 - 23:59

E-poster session: New insight into the pathogenesis of chronic lung diseases: asthma, COPD and others

Disease(s) : Airway diseases

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

Chairs : Cecilia K. Andersson (London, United Kingdom), Hannu Kankaanranta (Seinäjoki, Finland)

2039	**Exercise moderates inflammation in asthma through increased redox buffering capacity** Anna Freeman (Southampton, United Kingdom), David Hill, Doriana Cellura, Cosma Mirella Spalluto, Bernadette Fernandez, Magda Minnion, Helen Moyses, Martin Feelisch, Sandy Jack, Karl J Staples, Mike Grocott, Tom M A Wilkinson
2040	**Inhibition of VEGF and MMP-9 production by Pregabalin in human immunocompetent cells in vitro** Fatemeh Hajighasemi (Tehran, Islamic Republic of Iran), Leila Darouni
2041	**Viral induced epithelial antimicrobial defense in human asthma may depend on HDM exposure as well as HDM atopy** Samuel Cerps (Lund, Sweden), Hamid Akbarshahi, Sangeetha Ramu, Mandy Menzel, Cecilia Andersson, Morten Hvidtfeldt, Asger Sverrild, Celeste Porsbjerg, Lena Uller
2042	**Disturbance in bacterial community composition affects inflammatory ambiance and structural changes in non-Th2 asthma.** Anna Konishcheva (Moscow, Russian Federation), Valentina Gervazieva, Tatyana Ospelnikova
2043	**Different patterns of mast cell activation and smooth muscle contractions by MRGPRX2 agonist and antigen in guinea pig trachea** Jielu Liu (solna, Sweden), Johan Kolmert, Jesper Säfholm, Craig E. Wheelock, Sven-Erik Dahlén, Gunnar Nilsson, Mikael Adner
2044	**IL13, IL31 and IL33 gene polymorphisms in moderate-to-severe asthma in Siberian children** Svetlana Smirnova (Krasnoyarsk, Russian Federation), Marina Smolnikova, Sergey Tereshchenko
2045	**Bone marrow derived dendritic cell (BMDC) adoptive transfer alleviate OVA-induced allergic airway inflammation in asthmatic mice** Zhihong Chen (Shanghai, China), Kan Xu, Nan Wu, Zhihui Min, Zhilong Jiang
2046	**Mepolizumab decreases urinary excretion of LTE4 in severe asthma** Valentyna Yasinska (Rönninge, Sweden), Johan Kolmert, Javier Zurita, Alessandro Quaranta, Apostolos Bossios, Nikolaos Lazarinis, Barbro Dahlén, Craig E. Wheelock, Sven-Erik Dahlén, . (on Behalf Of The Biocross Study Group)
2047	**Salvia plebeia R. Br. extract alleviated lung inflammation in steroid-resistant asthma via the immunostimulatory activity** Min-Jung Bae (, Republic of Korea), Kyung Bae Lee, Jung Min Bae, In-Bong Song, Yung Jeong Shin, A Ram Yu
2048	**Inhibition of Mast Cell Degranulation by Surfactant Protein D** Mohammad Leily (Southampton, United Kingdom), Patrick Trimby-Smith, Rose-Marie Mackay, Laurie Lau, Andrew Walls
2049	**Neutrophil-to-lymphocyte ratio in patients with bronchiectasis and its correlation with low-grade inflammation; preliminary results from a single tertiary center.** Pia Ghosh (Stockholm, Sweden), Ingrid Gerhardson, Barbro Dahlen, Apostolos Bossios
2050	**Allergen activates eosinophils of atopic bronchial asthma patients via IgE-mediated mechanism.** Rustem Fassakhov (Kazan (Republic of Tatarstan), Russian Federation), Sergei Boichuk
2051	**The influence of the allergen-specific immunotherapy (ASIT) against the backdrop of an immunomodulator in patients suffering from seasonal allergic rhinitis (SAR) on the level of cytokines, IgE and IgG.** IELIENA KORETSKAIA (Kiev, Ukraine), Yevgeniya Dytyatkovska
2052	**Roles of sensitization to Staphylococcal enterotoxin in patients with bronchiectasis** Chie Morimoto (Kyoto, Japan), Hisako Matsumoto, Tsuyoshi Oguma, Susumu Sato, Isao Ito, Mariko Kogo, Natsuko Nomura, Noriyuki Tashima, Hironobu Sunadome, Toyohiro Hirai
2053	**Development and characterisation of a multi-species COPD biofilm** Bryn Short (Glasgow, United Kingdom), Craig Williams, Gary Litherland, Fionnuala Lundy, William Mackay, Gordon Ramage
2054	**Protein expression of TRP channels in the esophagus of patients with gastroesophageal reflux (GER)-associated cough** Norihisa Takeda (Nagoya, Japan), Takashi Ueda, Jennifer Maries Go Yap, Hirono Nishiyama, Ryota Kurokawa, Kensuke Fukumitsu, Yoshihiro Kanemitsu, Eiji Kubota, Takeshi Kamiya, Masaya Takemura, Akio Niimi
2055	**Completed autophagy protected airway epithelial barrier from antigens stimulation** Zicong Zhou (Guangzhou, China), Changhui Yu, Shaoxi Cai

2056 **Photobiomodulation acting as an immunotherapeutic strategy for chronic obstructive diseases such as asthma and COPD**
Cristiano Rodrigo De Alvarenga Nascimento (Juiz De Fora (MG), Brazil), Auriléia Aparecida De Brito Léia, Tawany Gonçalves Santos, Karine Zanela Herculano , Stephanie Soares, Renata Kelly Da Palma , Ana Paula Ligeiro-Oliveira

2057 **Immunodeficiency associated bronchiectasis in the European Bronchiectasis Registry (EMBARC)**
Philip Mitchelmore (Exeter (Devon), United Kingdom), Eva Polverino, Jessica Rademacher, Charles Haworth, Anthony De Soyza, Michal Shteinburg, Amelia Shoemark, Josje Altenburg, James D Chalmers, Katerina Dimakou, Michael R Loebinger, Antoni Torres, Tobias Welte, J Stuart Elborn, Pieter C Goeminne, Stefano Aliberti, Rosario Menendez, Francesco Blasi, Pierre-Regis Burgel, Felix Ringshausen, Javier De Gracia, Isabelle Meyts, Montserrat Vendrell

2058 **Extrinsic and intrinsic airway obstruction is related to different airway smooth muscle phenotypes**
Marisol Alvarez-Gonzalez (, Mexico), Mayra Alvarez-Santos, Ivonne Pacheco-Alba, Elizabeth Eslava-De Jesus, Angel Gonzalez-Lopez, Rodrigo Rojas-Madrid, Yazmin Perez-Del Valle, Blanca Margarita Bazan-Perkins

Pre-congress content Session 147 00:00 - 23:59

E-poster session: Mechanism or pathways of chronic lung diseases

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

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

Chairs : Alexandru Corlateanu (Chisihau, Republic of Moldova), Radostina Cherneva (Sofia, Bulgaria)

2059 **Eosinophilic asthma phenotypes in the UK population**
Marjan Kerkhof (Norfolk, United Kingdom), Trung Tran, James Zangrilli, Victoria Carter, David Price

2060 **Evaluation of Serum Chitotriozidase Activity and C - reactive protein and Albumin Ratio in Cystic Fibrosis and Bronchopulmonary Dysplasia**
Fatma Nazan Çobanoğlu (Ankara, Turkey), Elif Kelestemur, Ozlem Ceylan Dogan, Tuba Eminoglu

2061 **Dual-energy CT-derived microvascular perfused blood volume and lung function and %emphysema in the MESA Lung study**
Emilia Hermann (NEW YORK, United States of America), Grant Hiura, Eric Hoffman, Amin Motahari, Junfeng Guo, Norrina Allen, Alain Bertoni, David Bluemke, Jim Pankow, Erin Michos, Karen Hinckley Stukovsky, Karol Watson, Graham Barr

2062 **Serum testosterone and asthma outcomes in two large population-based studies**
Erick Forno (Pittsburgh, United States of America), Yueh-Ying Han, Qi Yan, Ge Yang, Wei Chen, Juan C. Celedón

2063 **The mediating role of C-reactive protein (CRP) and insulin resistance in the association of mid-childhood fat mass and airflow limitation at 15 years**
Judith Garcia Aymerich (Barcelona, Spain), Gabriela P. Peralta, Raquel Granell, Annabelle Bédard, Laura Howe, Anne-Elie Carsin, Deborah Jarvis

2064 **Somatotypes trajectories during adulthood and its association with COPD phenotypes**
Miguel Divo (Boston, United States of America), Marta Marin Oto, Ciro Casanova, Carlos Cabrera Lopez, Juan Pablo De-Torres, Jose M. Marin , Craig Hersh, Ana Ezponda, Victor Pinto-Plata, Francesca Polverino, James Ross, Dawn Demeo, Gorka Bastarrika, Edwin Silverman, Bartolome Celli

2065 **Metabolic syndrome and visceral adipose tissue (VAT) are associated with obstructive and restrictive lung function impairment.**
Alina Ofenheimer (Wien, Austria), Robab Breyer-Kohansal, Sylvia Hartl, Otto C. Burghuber, Julia Altziebler, Andrea Schrott, Frits M.E. Franssen, Emiel F.M. Wouters, Jürgen Harreiter, Alexandra Kautzky-Willer, Marie-Kathrin Breyer

2066 **Lung function in adult offspring as associated with their father's overweight in childhood/puberty**
Marianne Lønnebotn (Bergen, Norway), Lucia Calciano, Simone Accordini, Bryndís Benediktsdóttir, Lennart Bråbäck, Mathias Holm, Nils Oskar Jogi, Ane Johannessen, Andrei Malinovschi, Antonio Pereira-Vega, Vivi Schlünssen, Shyamali Dharmage, Francisco Gómez Real, Cecilie Svanes

2067 **Systemic proteolytic markers are increased and associate with comorbidities in individuals with COPD and restrictive spirometric pattern**
Ulf Nilsson (Umeå, Sweden), Viktoria Pleiborn, Robert Linder, Helena Backman, Annelie Behndig, Anne Lindberg, Anders Blomberg

2068 **Guilty pleasures and the healthy lung microbiota**
Solveig Tangedal (Bergen, Norway), Rune Nielsen, Marianne Aanerud, Gunnar Husebø, Harald Wiker, Per Bakke, Tomas Eagan

2069 **Radiologic assed rhinosinusitis, eosinophils and lung function in a population-based cohort of elderly, a comparison of subjects with and without asthma**
Emmely W. de Roos (Rotterdam, Netherlands), Johnmary Arinze, Lies Lahousse, Guy Brusselle

2070 **Experience of measuring nasal nitric oxide (nNO) in a National Primary Ciliary Dyskinesia (PCD) Centre (2006-20)**
Amanda Lea Harris (Southampton (Hampshire), United Kingdom), Hang Phan, Florina Borca, Samantha Packham, Amanda Friend, Hannah Wilkins, Amy Glen, Woolf Walker, Jane Lucas

2071 **The impact of sensitization to Staphylococcus aureus–derived enterotoxins on allergic and respiratory disorders**
Mario Olivieri (Verona (VR), Italy), Nicola Murgia, Nadia Antonucci, Pierpaolo Marchetti, Gianluca Spiteri, Marcello Ferrari, Giuseppe Verlato

2072 **Characteristics of new users of aclidinium, aclidinium/formoterol, and other COPD medications in three European countries**
Cristina Rebordosa (Barcelona, Spain), Cristina Rebordosa, Annalisa Rubino, Anna Julia Witzleb, Morten Olesen, Estel Plana, Jaume Aguado, Nuria Saigi, Sami Z Daoud, Alejhandra Lei, Susana Perez-Gutthann, Tania Schink, Nina S Kristiansen, Anton Pottegard, Elena Rivero-Ferrer

2073 **Serum anti-Ascaris IgG concentration and lung function in a multi-centre Northern-European cohort**
Nils Oskar Jogi (Tallinn, Estonia), Randi Jacobsen Bertelsen, Torgeir Storaas, Vivi Schlünssen, William Horsnell, Cecilie Svanes

2074 **Secondary pulmonary mycoses etiology agent species diversity in patients with tuberculosis and in patients with HIV infection**
Alexandra Gracheva (Moscow, Russian Federation), Anna Panova, Anatoliy Vinokurov, Galina Pay, Olga Lovacheva, Grigory Kaminskiy, Irina Vasilyeva

2075 **hsCRP is associated with 10-year mortality in COPD.**
Eva Lagrange (Sundsvall, Sweden), Ulf Nilsson, Caroline Stridsman, Helena Backman, Linnea Hedman, Anne Lindberg, Anders Blomberg

2076 **Presence of serum antibodies anti-benzo(a)pyrenediol epoxide (BPDE-DNA) and tobacco smoking as predictors of respiratory outcomes**
Francesco Pistelli (Pisa (PI), Italy), Sara Maio, Sandra Baldacci, Laura Carrozzi, Giovanni Viegi

2077 **Associations between oscillometry parameters and respiratory outcomes in young children: the SEPAGES cohort**
Valerie Siroux (La Tronche, France), Anne Boudier, Sarah Lyon-Caen, Joane Quentin, Yoann Gioria, Rémy Slama, Isabelle Pin, Sam Bayat

2078 **Prevalence of Chlamydia pneumoniae antibodies in Southern Hungary**
Dóra Paróczai (Deszk, Hungary), Dávid Kókai, Áron Ulbert, Gabriella Terhes, Katalin Burián

Pre-congress content Session 148 00:00 - 23:59

E-poster session: Imaging-based phenotyping in pulmonary disease

Disease(s) : Respiratory critical care | Airway diseases | Interstitial lung diseases | Pulmonary vascular diseases | Thoracic oncology

Method(s) : Pulmonary function testing | Imaging | Physiology | Endoscopy and interventional pulmonology | General respiratory patient care | Surgery | Transplantation

2079 **Late Breaking Abstract - Chest radiography-a predictor of prognosis in COVID-19**
Baranitharan Manoharan (Basildon, United Kingdom), Muhammad Shafiq, Ujaas Dawar, Alguili Elsheikh, Marcus Pittman

2080 **Randomized Phase III Trial Assessing Regional Lung Function for Thoracic Resection by Hyperpolarized 129Xenon Gas MRI**
Yun Shim (Charlottesville, United States of America), Jaime Mata, Matthew Hartwig, Alejandro Aragaki-Nakahodo, Ken West, Kiarash Emami, Neil Wadehra, Zackary Cleveland, Laura Walkup, Jason Woods, Alex Dusek, John Mugler, Bastiaan Driehuys

2081 **Ventilation-perfusion measures based on functional respiratory imaging (FRI) do correlate with exercise tolerance and PRO's in COPD**
Maarten Lanclus (Vremde, Belgium), Irvin Kendall, Wilfried De Backer, Jan De Backer

2082 **Machine Learning for Predicting Health Care Utilization in COPD using Quantitative CT Imaging**
Amir Moslemi (Toronto, Canada), Wan C. Tan, Jean Bourbeau , James C. Hogg, Harvey O. Coxson, Miranda Kirby

2083 **Detection of fibrotic interstitial lung disease by bronchoscopic probe based Confocal Laser Endomicroscopy (pCLE)**
Edith Silbernagel (München, Germany), Julien Dinkel, David Bondesson, Elvira Stacher-Priehse, Jürgen Behr, Wolfgang Gesierich, Frank Reichenberger

2084 **Randomized Phase III Trial Assessing Regional Lung Function for Lung Transplant by Hyperpolarized 129Xenon Gas MRI**
Bastiaan Driehuys (, United Kingdom), Jaime Mata, Matthew Hartwig, Alejandro Aragaki-Nakahodo , Ken West, Kiarash Emami, Neil Wadehra, Zackary Cleveland, Laura Walkup, Jason Woods, Alex Dusek, John Mugler, Yun Shim

2085 **Functional Respiratory Imaging (FRI) shows significant regional ventilation defects in COPD patients as compared to healthy data**
Maarten Lanclus (Vremde, Belgium), Stijn Bonte, Cedric Van Holsbeke, Jan De Backer

2086 **The inspiratory and expiratory CT based COPD phenotypes using cluster analysis**
Yumiko Matsuo (Otsu, Japan), Emiko Ogawa, Akio Yamazaki , Satoru Kawashima, Yasuki Uchida, Hiroaki Nakagawa, Daisuke Kinose, Masafumi Yamaguchi, Yasutaka Nakano

2087 **X-ray Darkfield Chest Radiography: Correlation of First Results from COPD-Patients with Lung Function Tests**
Gregor S. Zimmermann (München, Germany), Alexander A. Fingerle, Konstantin Willer, Wolfgang Noichl, Rafael Schick, Theresa Urban, Manuela Frank, Andreas P. Sauter, Bernhard Haller, Thomas Koehler, Jens Von Berg, Klaus Jürgen Engel, Daniela Pfeiffer, Julia Herzen, Ernst Rummeny, Franz Pfeiffer

2088 **Effect of Lung Inflation State on Ventilation Defect Percent Measured using Hyperpolarized 129Xe MRI>**
Wallace Wee (Toronto, Canada), Brandon Zanette, Marcus Couch, Elaine Stirrat, Yonni Friedlander, Daniel Li, Samal Munidasa, Sharon Dell, Felix Ratjen, Giles Santyr

2089 **Development of Cone Beam CT navigation method for segmental resection in patients with early lung cancer.**
Masaki Kashihara (Kurume, Japan), Masahiro Mitsuoka, Tatsuya Nishi, Toshihiro Hashiguchi, Shinzo Takamori, Yoshito Akagi

2090 **Cardiac MRI for Prognosis in Pulmonary Arterial Hypertension: A Systematic Review and Meta-Analysis**
Samer Alabed (Sheffield, United Kingdom), Faisal Alandejani, Yousef Shahin, Jim Wild, David Kiely, Andy Swift

2091 **Benchmarking inhaled nanoparticle measurements of airspace dimension with hyperpolarised 129Xe diffusion-weighted MRI**
Ho-Fung Chan (Sheffield, United Kingdom), Ho-Fung Chan, Madeleine Petersson Sjögren, Paul Hughes, Oliver Rodgers, Guilhem Collier, Graham Norquay, Lars Olsson, Per Wollmer, Jim Wild, Jakob Löndahl

2092 **Reproducibility of 3He-MRI acquisition assessed by a deep learning approach: ventilation defects in the VaPE-Tox pilot study**
Grant Hiura (New York, United States of America), Xuzhe Zhang, Yanping Sun, Martin Prince, Steve Dashnaw, Jim Wild, Emlyn Hughes, Wei Shen, Elizabeth Oelsner

2093 **3D PREFUL: Novel high resolution dynamic lung ventilation imaging in patients with asthma, cystic fibrosis and COPD and healthy volunteers**
Filip Klimes (Hanover, Germany), Andreas Voskrebenzev, Marcel Gutberlet, Robert Grimm, Hendrik Suhling, Tobias Welte, Frank Wacker, Jens Vogel-Claussen

2094 **Prospective Assessment of Collateral Ventilation using Chartis and Fissure Integrity by Quantitative Computed Tomography**
Valentina Luzzi (Firenze (FI), Italy), Mauro Novali, Brian Armstrong, Michela Bezzi

2095 **Quantitative Assessment of Regional Compliance and Resistance in a Mouse Model of Emphysema with micro-Computed Tomography (micro-CT)**
Marc Kaestle (Biberach an der Riß, Germany), Alexander Belekov, Helene Lichius, Matthew Thomas, Sorif Uddin

2096 **New method for quantification of ventilation and perfusion defects from functional lung MRI in children with Cystic fibrosis**
Christoph Corin Willers (Bern, Switzerland), Kamal Shahim, Kathryn Ramsey, Philipp Latzin

Pre-congress content Session 149 00:00 - 23:59

E-poster session: Screening methods and diagnostic tools for obstructive sleep apnoea

Disease(s) : Sleep and breathing disorders

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

Chairs : Renata L. Riha (Edinburgh (Edinburgh), United Kingdom), Stefan A. Mihaicuta (Timisoara (Timis), Romania)

2097 **Validation of names-bg score in screening of patients with obstructive sleep apnea**
Heba Gharraf (Alexandria, Egypt), Ayman Baess

2098 **Comparison between Level 3 Sleep Study and Peripheral Arterial Tonometry for Sleep Apnea (SA) diagnosis**
Frédéric Matias de Oliveira (Póvoa de Varzim, Portugal), Analine Moura, Carla Vieira, Elsa Miranda, Pedro Martins, Margarida Dias, Nuno Cortesão

2099	**Prospective validation of a Bayesian network model in the diagnosis of Obstructive Sleep Apnea: preliminary results** Pedro Amorim (Porto, Portugal), Daniela Ferreira-Santos, Marta Drummond, Pedro Pereira Rodrigues
2100	**A comparison of automated and manual sleep staging and respiratory event recognition in a portable sleep diagnostic device with in-lab sleep study** Hartmut Schneider (Lutherville, United States of America), Zhigang Zhang, Alan Schwartz
2101	**The expression of sleep apnea severity and central related sleep apnea in ECG-based cardiopulmonary coupling** Zhiling Zhao (Beijing, China), Xiheng Guo
2102	**Variability of OSA severity classification between two multiple-night sleep studies** Charlotte Wigston (Oxford (Oxfordshire), United Kingdom), John Stradling, Chris Turnbull
2103	**Weighted Epworth sleepiness scale predicted the apnea-hypopnea index better** Qi Guo, Wei-Dong Song, Wei Li, Chao Zeng, Yan-Hong Li, Jian-Ming Mo, Zhong-Dong Lü, Mei Jiang
2104	**Deep Breathing Test Can Help To Identify Subjects With Obstructive Sleep Apnea** Mwetty Onanga (Paris, France), Elisa Perger, Isabelle Arnulf, Caroline Sevoz-Couche, Stefania Redolfi
2105	**Predicitive ability of NOSAS score and STOPBANG score in identifying Obstructive Sleep Apnea** Vulli Venkatesh (Vizianagaram, India), Akula Anusha, Jana Kundan Raja
2106	**Knowledge of sleep disorders among physicians at a tertiary care hospital in Qatar** Irfan Ul Haq (Doha, Qatar), Mansoor Ali Hameed, Abbas Abdallah Alabbas, Shakeel Ahmed, Khezar Shahzada Syed, Merlin Marry Thomas, Mushtaq Ahmad
2107	**Knowledge and attitude of obstructive sleep apnoea among junior doctors** Suman Banerjee (Bankura, India), Susmita Kundu, Rivu Basu
2108	**Screening for obstructive sleep apnea (OSA) in acromegaly** Cinzia Arena (Catania, Italy), Martina Tubiolo, Valentina Guarnotta, Carla Giordano, Maria Rosaria Bonsignore
2109	**Impulse oscillometry for evaluating apnea, hypopnea and desaturation severity in patients with suspected Obstructive Sleep Apnea – pilot study** David Jorge Araújo Barros Coelho (Braga, Portugal), Ricardo Estêvão Gomes, Pedro Amorim, Marta Drummond
2110	**Do not go with just the flow: machine learning in oximetric versus flow-based sleep apnoea scoring** Neil Skjodt (Lethbridge (AB), Canada), Vidisha Pahwa, Ronald S. Platt
2111	**Diagnostic efficacy of the KaLinix® intelligent medical device for diagnosis of obstructive sleep apnea and hypopnea syndrome.** Gianna Vargas Centanaro (Madrid, Spain), Soha Esmaili, J. Luis Rodriguez Hermosa, Myriam Calle, J Montero, N. Raissouni, J. Alvarez-Sala
2112	**Performance of STOP-BANG questionnaire in bariatric surgical patients** Peter Cho (, United Kingdom), Alice Byrne, Claire Wood, Kai Lee, Rebecca Lyall, Amit Patel
2113	**Validation study of an innovative device to screen sleep respiratory disorders** Alberto Braghiroli (Veruno (NO), Italy), Carlo Sacco, Andrea Giordano, Massimo Godio, Fabio Rossato, Sabrina Rossi, Sonia Carli, Bruno Balbi, Elisa Morrone
2114	**Impact of cardiorespiratory sleep staging for home sleep apnea testing** Peter Anderer (Wien, Austria), Marco Ross, Andreas Cerny
2115	**Automatic discrimination between obstructive and central sleep apnea using pulse oximetry** Minke Holleboom (Enschede, Netherlands), Timon Fabius, Michiel Eijsvogel, Job Van Der Palen, Frans De Jongh
2116	**Impact of a 3% oxygen desaturation threshold compared to 4% on hypopnoea scoring and classification of sleep apnea in a bariatric population** Christian Horvath (Bern, Switzerland), Anne-Kathrin Brill, Matthias Ertl, Sebastian Ott

Pre-congress content — Session 150 — 00:00 - 23:59

E-poster session: New insights into sleep apnoea: from diagnosis to treatment

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

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

Chairs : Sébastien Baillieul (Grenoble CEDEX 9, France), Renaud Tamisier (Grenoble, France)

2117	**Prediction of obstructive sleep apnea using a morphologic score: A SAGIC Study** Sebastian Herberger (Berlin, Germany), Naima Laharnar, Lisa Prochnow, Peter Cistulli, Allen Pack, Ingo Fietze, Thomas Penzel
2118	**Mandibular restriction measured by three-dimensional Computed Tomography is associated with obstructive sleep apnea severity** Susanna SS Ng (Hong Kong, Hong Kong), Tat-On Chan, Karen Yiu, Richard Lee, David Hui
2119	**Evolution of Sleep Apnea in Acute Coronary Syndromes** Matteo Siciliano (Roma (RM), Italy), Pier-Valerio Mari, Veronica Melita, Giovanni Diana, Davide Diana, Enrico Schiavi, Gaetano Antonio Lanza, Filippo Crea, Giampaolo Niccoli, Flaminio Mormile
2120	**NREM sleep stages are associated with Aß42 and Tau in Obstructive Sleep Apnea.** Yi-Shin Liu (Taipei, Taiwan), Wen-Te Liu, Shang-Yang Lin, Shu-Chuan Ho
2121	**NoSAS: a possible screening questionnaire in patients with OSA and comorbidities** Elisa Morrone (gattico-Veruno (NO), Italy), Andrea Giordano, Sonia Carli, Fabio Rossato, Tullia Villani, Elena Paracchini, Massimo Godio, Bruno Balbi, Carlo Sacco, Alberto Braghiroli
2122	**Right ventricular remodeling in obstructive sleep apnea patients** Touil Imen (Mahdia, Tunisia), Keskes Boudawara Nadia, Bouchareb Soumaya, Ibn Hadj Amor Hassen, Chebbi Riheb, Hasnaoui Mohamed Taha, Nemsi Elaa, Ben Romdhane Raja, Ben Rhouma Chaima, Bouchnak Iskander, Knani Jalel, Boussoffara Leila
2123	**Role of Screening questionnaires for diagnosing sleep disordered breathing in Pregnancy** Debraj Jash (Kolkata (West Bengal), India), Savita Singhal, Manjunath Govindagoudar, Sushmita Jakka, Diksha Tyagi, Pawan Singh, Dhruva Chaudhry
2124	**Role of overnight pulse oximetry as screening tool for sleep disordered breathing in pregnancy** Dhruva Chaudhry (Rohtak (Haryana), India), Debraj Jash, Savita Singhal, Manjunath B G, Jaikrit Bhutani, Diksha Tyagi
2125	**Study of Leptin and Ghrelin Serum Levels in Patients with Obstructive Sleep Apnea** Heba Gharraf (Alexandria, Egypt), Mostafa Shahin, Abeer Alhadidy
2126	**What antropological and behavioural factors are influencing the tracheal diameter?** Laura Ciobanu (Iasi (Iasi), Romania), Vasile Maciuc, Andreea Obreja
2127	**Relationship of respiratory disorders of sleep with cognitive impairment and neurological diseases** Marcos Alejandro Escobar Penagos (Tuxtla Gutiérrez (Chiapas), Mexico), Fernanda Margarita Nuñez Gómez, Marely Bravo Muñoz
2128	**Heterozygous SOD2 deletion deteriorated chronic intermittent hypoxia-induced lung inflammation and vascular remodeling through mtROS-NLRP3 signaling pathway** Shengyu Hao (Shanghai, China), Shanqun Li, Cuiping Fu
2129	**Interim analysis of the effect of portable NIV (pNIV) on thoracoabdominal volumes during intermittent exercise in COPD** Nikolaos Chynkiamis (Newcastle Upon Tyne, United Kingdom), James Manifield, Dimitrios Megaritis, Charikleia Alexiou, Ioannis Loizou, Nick D. Lane, Stephen C Bourke, Ioannis Vogiatzis
2130	**Respiratory rate and tidal volume change with posture and activity during daily life** Alessandra Angelucci (Milano, Italy), David Kuller, Andrea Aliverti
2131	**Agreement between different oximetric sensors during exercise in chronic respiratory diseases: a pilot study.** Brenda Elena Varela (Ciudad Autónoma Buenos Aires, Argentina), Gonzalo Manuel Castaño, María Paz Menéndez, Patricia Mabel Ibañez, Anabella Arce, Carlos Alberto Nigro
2132	**Clinical usefulness of End-Tidal CO2 measured by a novel portable capnograph in patients with respiratory disease** Manabu Suzuki (Tokyo, Japan), Shota Fujimoto, Yuriko Horikawa, Yuriko Ueki, Hiroshi Takumida, Hirokazu Arai, Hiromu Watanabe, Yusaku Kusaba, Takashi Katsuno, Shuichiro Matsumoto, Tamaki Kakuwa, Yoshie Tsujimoto, Keita Sakamoto, Masao Hashimoto, Satoru Ishii, Junko Terada, Jin Takasaki, Go Naka, Motoyasu Iikura, Shinyu Izumi, Yuichiro Takeda, Masayuki Hojo, Haruhito Sugiyama
2133	**Assessing the accuracy of transcutaneous capnography in adults** Gergely H. Fodor (Szeged, Hungary), Almos Schranc, Szilard Szucs, Ferenc Petak, Barna Babik
2134	**Nocturnal transcutaneous capnography in obesity hypoventilation syndrome: a correlation and agreement study** IRENE MILAGROS DOMINGUEZ ZABALETA (Madrid, Spain), José Rafael Terán Tinedo, Daniel López-Padilla, Christian Castro Riera, Elena Ojeda Castillejo, Soledad López Martín, Francisco José Caballero Segura, Luis Puente Maestu

Pre-congress content Session 151 00:00 - 23:59

E-poster session: Treatment of obstructive sleep apnoea and its effects

Disease(s) : Sleep and breathing disorders Airway diseases

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

Chairs : Özen K Basoglu (Izmir, Turkey), Dries Testelmans (Leuven, Belgium)

2135	**How effective is Adaptive Servo Ventilation?** Elliott Dewsbury (Coventry (West Midlands), United Kingdom), James Shipley, Milind Sovani, Arun Khanna
2136	**Air trapping by excessive work of overnight breathing in OSA** Kenji Yazaki (Yuri-Honjo, Japan), Naoko Kamada
2137	**EFFECT OF ADENOTONSILLECTOMY ON OXIDATIVE DNA DAMAGE LEVELS IN CHILDREN WITH OBSTRUCTIVE SLEEP APNEA** Vural Fidan (Eskisehir , Turkey), Handan Koyuncu, Hakan Alp
2138	**Starting CPAP therapy with empirical pressure: predictors of titrating pressure using Auto-CPAP** Sonia Castro Quintas (Bilbao (Bizkaia), Spain), Amaia Urrutia Gajate, Elena Garay Llorente, Joseba Andia Iturrate, Leyre Serrano Fernandez, Marta Garcia Moyano, Beatriz Gonzalez Quero, Valentin Cabriada Nuño
2139	**Usefulness of transcutaneous capnography to evaluate nocturnal hypoventilation in patients with obesity hypoventilation syndrome treated by non-invasive ventilation at home** Thomas Georges (Nantes, France), Sandrine Jaffré, Jean Morin, Hakim Alami, Cédric Bretonnière, Béatrice Guyomarch, Agathe Delbove, Laurie Lagache
2140	**Nasal vs. oronasal mask: a real-life analysis in adults undergoing auto-adjusting CPAP titration.** Bruno de Aguiar Mendes (Lisboa, Portugal), Carlos Lopes Figueiredo, Mariana Calheiros Cabral, Maria Alexandra Mineiro, Ricardo Luiz De Menezes Duarte, João Almeida Cardoso, Flávio José Magalhães Da Silveira
2141	**The effect of CPAP withdrawal on urinary androgen metabolites** Christopher Turnbull (Oxford (Oxfordshire), United Kingdom), Jonathan Hazlehurst, Jeremy Tomlinson, John Stradling
2142	**CPAP improves social, emotional and sexual scope of obstructive sleep apnea patients and partners.** Maria Isabel Portela Ferreño (Pontevedra, Spain), Tania Rivera Baltanas, Mar Mosteiro Añón, Jessica Iglesias Novas, Helena Santamaría Lopez, Johanny Vargas Rodriguez, Sara Fernandez Garcia, Laura Souto Sayar, Alberto Fernandez Villar
2143	**Liver stiffness in patients with obstructive sleep apnoea: preliminary results from a longitudinal cohort study** Francesco Zaccaria (, Italy), Adriano Costigliola, Miriam Buonincontro, Samuel Scuotto, Rosalba Donizzetti, Mariano Mollica, Stefano Sanduzzi Zamparelli, Vito D'Agnano, Fabio Perrotta
2144	**Satisfaction among sleep apnea patients: telematic compared with conventional follow-up** Cristina Matesanz Lopez (Madrid, Spain), Sara Calero Pardo , Israel John Thuissard Vasallo, David García Gómez, Araceli Abad Fernández
2145	**Titration of the intra-oral negative air pressure in treating the patient with obstructive sleep apnea** Chia-Mo Lin (Taipei, Taiwan), Chia-Chi Chen, Chen Lin
2146	**Serum vitamin D levels in patients with obstructive sleep apnea syndrome and concentration changes after continuous positive airway pressure treatment** Ourania Kotsiou (Larissa, Greece), Dimitra Siachpazidou, Chaido Pastaka, Chrissi Hatzoglou, Maria Kechagia, Vasileios Stavrou, Eudoxia Gogou, Charalampos Varsamas, Nicholas-Tiberio Economou, George Seitanidis, Konstantinos Gourgoulianis
2147	**KaLinix® in the treatment of Obstructive Sleep Apnea-Hypopnea syndrome (OSAHS).** Soha Esmaili (, Spain), Gianna Vargas Centanaro, Juan Luis Rodríguez Hermosa, Jose Luis Álvarez-Sala , Nada Raissouni, Myriam Calle Rubio
2148	**Effect of CPAP adherence on depression in OSA patient** Diana-Raluca Velescu (Timisoara (Timis), Romania), Monica Marc, Daniel Trăilă, Cristian Oancea
2149	**Effect of multiple-dose treatment with daridorexant on nighttime respiratory function in patients with mild and moderate obstructive sleep apnea (OSA)** Marie-Laure BOOF (ALLSCHWIL, Switzerland), Ingo Fietze, Katharina Lederer, Mike Ufer, Jasper Dingemanse
2150	**Do beta-blockers reduce sympathetic activity in patients with mild sleep breathing disorder without CPAP therapy?** Ali Araghi (Alpharetta, United States of America), Mahsa Mirdamadi, Mahmood Fathollahi

2151	**Phenotypes related to long term renal function decline and mortality in adult OSA.** Patrizia Pochetti (Quarona (VC), Italy), Danila Azzolina, Beatrice Ragnoli, Paolo Amedeo Tillio, Vincenzo Cantaluppi, Mario Malerba
2152	**Does chronic opioid use impact OSA diagnosis and response to treatment with CPAP?** Mary Qian (Mount Waverley, Victoria, Australia), Kieran Lee, Earl Palas, Susan George, Ying Huang, Safin Rahman, Na Li, Darren Wong, Martina Mason, Ian Smith
2153	**Overlap of OSA and Obstructive Airways Disease in Indian population: Does treating the underlying airflow obstruction improve OSA control?** Tarang Kulkarni (Mumbai (Maharashtra), India), Sovan Kanti Chakraborty, Shubham Sharma, Milind Sovani, Raja Dhar
2154	**Effect of Short Term Use of PAP Treatment on Metabolic Parameters in Patients withObstructive Sleep Apnea** Nazlı Deniz Atik (İZMİR, Turkey), Sezai Taşbakan, Özen Kaçmaz Başoğlu

Pre-congress content — Session 152 — 00:00 - 23:59

E-poster session: Advances in lung function practice

Disease(s) : Airway diseases | Interstitial lung diseases | Thoracic oncology | Respiratory critical care | Sleep and breathing disorders

Method(s) : Pulmonary function testing | Physiology | Public health | Respiratory intensive care

Chairs : Karl Sylvester (Cambridge (Cambridgeshire), United Kingdom), Jane Kirkby (Sheffield, United Kingdom)

2155	**Is the pre-flight algorithm for COPD patients also valid for patients with ILD?** Liv Karin Vesteng (Jessheim, Norway), Christine Gudim Karlsen, Anne Edvardsen
2156	**Hypoxic Challenge Testing in Infants; who is recommended in-flight oxygen?** Emma Fettes (London, United Kingdom), Mollie Riley, Aidan Laverty, Paul Aurora
2157	**The potential role of pre-operative cardiopulmonary exercise testing in endovascular aortic repair.** Elizabeth Dobson (Coventry, United Kingdom), Edward Parkes, Joanna Shakespeare, Ruth Benson, Christopher Imray, David G. Parr
2158	**Incidence of clinically significant ECG abnormalities in healthy volunteers participating in cardio-pulmonary exercise research.** Joanna Shakespeare (Coventry (West Midlands), United Kingdom), Edward Parkes, Iuri Mata, David G Parr
2159	**Peak heart rate to assess maximal exercise in arm ergometry.** Joanna Shakespeare (Coventry (West Midlands), United Kingdom), Edward Parkes, David G Parr
2160	**CARDIOPULMONARY EXERCISE TESTING PREDICTING POSTOPERATIVE MORBIDITY IN PATIENTS WITH PULMONARY RESECTION** Carolina España Dominguez (Cádiz, Spain), María Morales González, Alfonso Marín Andreu, Aurelio Arnedillo Muñoz, Isabel Muñoz Ramírez
2161	**The use of biological control subjects in the quality control of cycle ergometry.** Kevin De Soomer (Edegem, Belgium), Evelyn Pauwels, Ellie Oostveen
2162	**Six-minute walk test in children and Adolescents. Selection of Reference Equations** Ana Silva (Queluz, Portugal), Andreia Descalço, Ângela Martins, Ângela Drago, Carolina Constant, Teresa Bandeira
2163	**Comparative assessment of the incremental shuttle walk and incremental cycle ergometry tests in patients with idiopathic pulmonary fibrosis.** Elizabeth Dobson (Coventry, United Kingdom), Joanne Shakespeare, David G. Parr
2164	**Type 2 Diabetes Acentuates the Impairment in the Lung Function and Mechanics in Elderly** Renilson Moraes Ferreira (São José dos Campos, Brazil), Maysa A. R. Brandao-Rangel, Anamei Silva-Reis, Victor Hugo S. Palmeira, Claudio Frison, Rodolfo P. Vieira
2165	**Culturally appropriate Indigenous spirometry training and telehealth mentoring improve spirometry quality** Margaret McElrea (Forestdale, Australia), Leanne Rodwell, Lauren Jones, Anne Bernard, Irene Schneider
2166	**Reliability of inspiratory capacity assessment** Tjerk Berens (Nijmegen, Netherlands), Denise Mannee, Bram Van Den Borst, Hanneke Van Helvoort
2167	**FENO and spirometry for the assessment of respiratory functions of women exposed to biomass fuel smoke: A cross sectional study in Sri Lanka** Gihani Jayaweera (Ratmalana, Sri Lanka), Savithri Wimalasekera, Sampatha Goonewardena

2168	**The value of Fraction exhaled Nitric Oxide as a predictive marker of bronchial hyperresponsiveness in adults with symptoms suggestive of asthma.** Selma de Nijs (Utrecht, Netherlands), Nienke Spelberg, Joke Haperen- Mathijssen, , Ingrid De Backer, Simone Van Der Sar
2169	**Sensitivity to Mannitol and Airway Obstruction in Patients with Asthma, COPD and Healthy smokers** Abir Nasr (Teckomatorp, Sweden), Kerstin Romberg, Linnea Jarenbäck, Leif Bjermer, Ellen Tufvesson
2170	**Clinical presentation in patients with isolated bilateral Diaphragmatic Palsy.and MEP/MIP ratio as an aid to diagnosis.** Milind Sovani (Nottingham (Nottinghamshire), United Kingdom), Beatrice Downie, Syeda Nafisa, Patience Ehilawa , Ben Messer
2171	**New reference equations: What changes in diffusing capacity for carbon monoxide interpretation?** Tânia Duarte (Caparica, Portugal), Mafalda Silva, Catarina Rijo, Susana Sousa, Paula Duarte

Pre-congress content Session 153 00:00 - 23:59

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

Disease(s) : Airway diseases Thoracic oncology

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

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

2172	**Onset of action of inhaled corticosteroids on bronchial and alveolar nitric oxide output** Tuomas Karvonen (Tampere, Finland), Anna Sepponen-Lavikko, Kati Holm, Rüdiger Schultz, Eeva Moilanen, Lauri Lehtimäki
2173	**Correlation between clinic and remote FEV1 and FeNO measurements; post hoc analysis of the INCONTRO study** Sofia Necander (Askim, Switzerland), Mahdi Hashemi, Ziad Taib, Robert Palmér, Katarina Korsback, Malin Aurell, Stephen Delaney, Katerina Pardali, Per Gustafson, David Keeling, Tariq Sethi, Ioannis Psallidas
2174	**The ability of the eNose on the discrimination of smoking status in asthma and COPD** Stefania Principe (Palermo (PA), Italy), Job Jmh Van Bragt, Cristina Longo, Rianne De Vries, Peter Sterk, Nicola Scichilone, Susanne Sjh Vijverberg, Anke-Hilse Maitland-Van Der Zee
2175	**The challenge with cigarette smoke - the way to predict lung disease development in the future.** Immanuels Taivans (Riga, Latvia), Gunta Strazda, Normunds Jurka, Valentina Gordjušina
2176	**FeNO as a predictor of Asthma control in a tertiary care centre in South India>** Padmanabhan Arjun (Trivandrum (Kerala), India), Sanjeev Nair
2177	**Proteins in exhaled air in assessment of asthma in children** Maria Juusela (Espoo, Finland), Marjut Lehtinen, Venla Aaltonen, Ulrich Bergmann, Seppo Sarna, Erik Qvist, Kristiina Malmström
2178	**Asthma Management Practices among Specialists and General Practitioners in and around Pune city** SAJIN MATHEW, Shubhi Singhal
2179	**Estimating Chronic Respiratory Disease (Asthma and COPD) burden in adults in Asian LMICs: a pilot study for 4CCORD [4 Country ChrOnic Respiratory Disease study].** Dhiraj Agarwal (Pune (Maharashtra), India), Deesha Ghorpade, Sundeep Salvi, Nik Sherina Hanafi, Osman Yusuf, Mohsin Saeed Khan, Deepa Das, Biswajit Paul, Rita Isaac, Mohammad Shahidul Islam, Samir Saha, Su May Liew, Norita Hussein, Ahmad Ihsan Abu Bakar, Yong Kek Pang, Karuthan Chinna, Li Ping Wong, Richard Parker, Ee Ming Khoo, Sanjay Juvekar, Hilary Pinnock
2180	**Uncontrolled asthma has a higher disease burden compared to controlled asthma in adult onset but not in childhood onset asthma** Geertje M. de Boer (Rotterdam, Netherlands), Laura Houweling, Cathelijne Van Zelst, Gert Verhoeven, Liesbeth Van Rossum, Rudi W. Hendriks, Gerdien A Tramper, Gert-Jan Braunstahl
2181	**The longitudinal evaluation of lung function and biomarkers (levante) study in medical students: Preliminary Results** Isabel Nerin De La Puerta (Zaragoza, Spain), Alejandra Ramirez-Venegas, Carlos Cabrera, David Diaz-Perez, Marta Forner, Ramsés Falfán-Valencia, Linde Reyes, Sebastian Rodriguez-Llamazares, Nuria Requeno, Jose Mari Marin, Ciro Casanova Macario, Bartolomé Celli, M Valle Velasco
2182	**Anti-DP effects on airway bacterial load in a phase 2a trial** Sarah Diver (Melton Mowbray, United Kingdom), Vijay Mistry, Claudia Micieli, Mohammadali Ramsheh, Koirobi Haldar, Michael Barer, Christopher Brightling

2183	**Preoperative FENO(Fractional Exhaled Nitric Oxide) assessment as a predictor of postoperative respiratory complications in case of cardiac surgery(CABG)** Vijay Narain Tyagi (Meerut (Uttar Pradesh), India), Aditya Singh, Sanjeev Saxena, Shivkant Agarwal, Rahul Kathuria, Prashant Bendre, Amit Garg
2184	**Single and multiple breath washout as compared to the Metacholine test in patients with suspected asthma** Aline Stalder-Siebeneichler (, Switzerland), Desiree Schumann, Michael Tamm, Daiana Stolz
2185	**COMMON COLD INFLUENCES EXHALED VOLATILE ORGANIC COMPOUND PROFILE ANALYZED BY AN ELECTRONIC NOSE.** Silvano Dragonieri (Bari (BA), Italy), Vitaliano N Quaranta, Pierluigi Carratu, Teresa Ranieri, Giovanna Elisiana Carpagnano, Onofrio Resta
2186	**Relationship between psychological status and asthma control** Soumaya Bouchareb (Ksar Hellal, Tunisia), Imen Touil, Nadia Keskes, Chaima Ben Rhouma, Ella Nemsi, Raja Romdhane, Jalel Knani, Leila Boussoffara
2187	**Symptom assessment for preventing physician's underestimation of asthma control.** Ayumi Chikumoto (Ube-city, Japan), Kazuto Matsunaga, Kazuki Hamada, Keiji Oishi, Masafumi Yano, Yoshikazu Yamaji, Tsunahiko Hirano
2188	**Is the determination of eosinophils in the induced sputum useful to assess the control of Asthmatic patient?** Jesus Segundo Gordillo Fuentes (, Spain), Jose Antonio Delgado Torralbo, Ana Gómez-Bastero Fernández, Elena Viciana Martín , Rafael Perera Louvier, Agustín Valido Morales
2189	**Oral corticosteroids in the treatment of exacerbation of severe asthma** Anahit Gevorgyan (Yerevan, Armenia)
2190	**Are GINA guidelines used correctly to assess asthma severity? – a retrospective study** Mohamed abuzakouk (Abudhabi , United Arab Emirates), Sonya Jacob, Omar Ghorab
2191	**Effect of symptoms expression difficulty and excessive physical perception on asthma control test results** Saban Melih Simsek (Manisa, Turkey), Deniz Kizilirmak, Meltem Hazel Şimşek, Yavuz Havlucu

Pre-congress content Session 154 00:00 - 23:59

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

Disease(s) : Airway diseases

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

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

2192	**Late Breaking Abstract - Genetic diagnosis of alpha-1 antitrypsin deficiency using saliva samples** Amaia Larruskain (Derio , Spain), Amaya Buxens, Mónica López, Marta Artieda
2193	**Late Breaking Abstract - The roles of impulse oscillometry in detection of asthma control level.** Warawut Chaiwong (Chiang Mai, Thailand), Sirianong Namwongprom, Chalerm Liwsrisakun, Chaicharn Pothirat
2194	**Cross-sectional biomarker comparisons with a longitudinal perspective in asthma monitoring: the eNose premise** Mahmoud Ismael Abdel-Aziz Ibrahim (Amsterdam, Netherlands), Rianne De Vries, Ariana Lammers, Binbin Xu, Anne Neerincx, Susanne Vijverberg, Yennece Dagelet, Aletta Kraneveld, Urs Frey, René Lutter, Peter Sterk, Anke-Hilse Maitland-Van Der Zee, Anirban Sinha
2195	**Characteristics of patients with physician-assigned COPD without airflow obstruction in NOVELTY** Alvar Agusti Garcia-Navarro (Barcelona, Spain), Rod Hughes, Ricardo Del Olmo, Jørgen Vestbo, Barry Make, Eleni Rapsomaniki, Hana Müllerová, David Price
2196	**Determinants of arterial stiffness in Alpha-1 Antitrypsin Deficiency** Abubacarr Gassama (Birmingham (West Midlands), United Kingdom), Liz Sapey, Diane Griffiths, Rob Stockley, Prem Kumar, Alice Turner
2197	**Comparison of the lung ventilation assessed by a full-scale airway network flow model and xenon-enhanced dual-energy CT of patients with COPD** Minsuok Kim, Ozkan Doganny, Hae Jeon Hwang, Joon Beom Seo, Fergus Gleeson
2198	**Comparison of low-dose CT image registration-based "Parametric Response Maps" with global lung function and diffusion capacity in COPD patients** Sam Bayat (Grenobe, France), Ludovic Broche, Mohammed Machichi, Sébastien Bailly, Bruno Degano, Renaud Tamisier, Gilbert Ferretti, Jean-Louis Pépin

2199	**Effect of age, gender and body habitus upon exhaled breath volatiles in COPD and health** Liesl Carr (Leicester (Leicestershire), United Kingdom), Mohammad Yavari Ramsheh, Luke Bryant, Ahemd Yousef, Rebecca Cordell, Michael Wilde, Salman Siddiqui, Paul Monks, Christopher Brightling
2200	**New method of Alpha-1-antitrypsin diagnosis facilitates the detection of rare mutations** Andreas Klemmer (Marburg, Germany), Martina Veith, Julia Tüffers, Erika Peychev, Christoph Berndt, Viktor Kotke, Christian Herr, Robert Bals, Claus Franz Vogelmeier, Timm Greulich
2201	**Factors associated with physician assessment of severity of asthma or COPD in NOVELTY** Alberto Papi (Ferrara, Italy), Helen K Reddel, Alvar Agustí, Gary P Anderson, Aruna T Bansal, Richard Beasley, Elisabeth H Bel, Christer Janson, Barry Make, Ian D Pavord, David Price, Eleni Rapsomaniki, Donna K Finch, Marianna Alacqua, Hana Müllerová, Rod Hughes
2202	**Antecedent hospitalization history of patients newly diagnosed with COPD** Florent Baty (St. Gallen, Switzerland), Michelle Hagmann, Frank Rassouli, Martin Brutsche
2203	**Update on CADSET (Chronic Airway Disease Early Stratification) Clinical Research Collaboration** Maria Rosa Faner Canet (Barcelona, Spain), Gavin Donaldson, Elise Heuvelin, Viktoria Szabo, Robab Breyer-Kohansal, Erik Melén, Anke H. Maitland-Van Der Zee, Jørgen Vestbo, James P. Allinson, Lowie E. G. W. Vanfleteren, Maarten Van Den Berge, Ian M. Adcock, Lies Lahousse, Jadwiga A. Wedzicha, Alvar Agusti
2204	**Are T2 biomarkers of any help in diagnosing asthma?** Halehsadat Nekoee Zahraei (Liege, Belgium), Florence Schleich , Emmanuel Graulich , Monique Henket , Virginie Paulus , Françoise Guissard , Anne-Françoise Donneau , Renaud Louis
2205	**Diaphragmatic movement in COPD patients in rest and after physical activity** Evgeni Mekov (Sofia, Bulgaria), Nikolay Yanev, Nedelina Kurtelova, Adelina Tsakova, Rosen Petkov
2206	**Hidden morbidity of asthma in primary care: the results of a community outreach programme** Michael Crooks (York (North Yorkshire), United Kingdom), Joanne Thompson, Helena Cummings, Nicola Jackson, Karen Watkins, Shoaib Faruqi
2208	**Comparison of individual items of COPD Assessment Test (CAT) at baseline in the EMAX and IMPACT trials** Paul Jones (London, United Kingdom), Mark Dransfield, Isabelle H. Boucot, Edward M. Kerwin, David A. Lipson, Claus F. Vogelmeier, Meilan Han, Leif Bjermer, Robert A. Wise, François Maltais, Lee Tombs, Sally Kilbride, Chris Compton, Fernando Martinez
2209	**Systematic assessment detects respiratory problems in illness-susceptible athletes** James H. Hull (London, United Kingdom), Anna Jackson, Craig Ranson, Mike Loosemore
2210	**Predicting frequent exacerbations in a severe asthma centre.** Clara Emily Green (Warwick (Warwickshire), United Kingdom), Ali Bahron, Julie Marsh, Adel Mansur

Pre-congress content Session 155 00:00 - 23:59

E-poster session: Monoclonal antibodies in asthma

Disease(s) : Airway diseases Respiratory critical care

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

Chairs : Patrick Berger (Bordeaux, France), Amelia Licari (Pavia (PV), Italy)

2211	**Differences in the response to treatment with monoclonal antibodies according to age** Ana Gomez-Larrauri (Barakaldo-Bizkaia, Spain), Borja Ortiz De Urbina, Joseba Andia, Elena Garay, Alejandro Rezola, Sandra Pedrero, Patricia Sobradillo, Elena Lopez De Santamaría, Lorea Martínez, Milagros Iriberri, Nuria Marina
2212	**Clinical indicators of treatment response to Mepolizumab at 12 weeks** Yik Lam Pang (Nottingham, United Kingdom), Iain Stewart, Tim Harrison, Ian Sayers, Dominick Shaw
2213	**Mepolizumab in real-life treatment of severe eosinophilic asthma** Eva Volakova (Olomouc 9, Czech Republic), Jaromir Zatloukal
2214	**Real world outcomes of Mepolizumab for severe asthma in Wales a retrospective analysis.** Andrew Harries (Cardiff, United Kingdom), Katie Pink
2215	**Mepolizumab reduces nasal symptoms in asthmatic patients with chronic rhino-sinusitis and nasal polyposis: a 12 months real-life study** Mauro Maniscalco (Napoli (NA), Italy), Aikaterini Detoraki, Maria D'Amato, Raffaella Giacco, Cecilia Calabrese, Matilde Boccia, Eugenio Tremante, Remo Poto, Giuseppe Quaremba, Giuseppe Spadaro

2216 **Evolution of patients with severe asthma treated with mepolizumab**
Alvaro Martinez Mesa (Malaga, Spain), Eva Cabrera Cesar, Ana Aguilar Galvez, Nuria Reina Marfil, Esther Sanchez Alvarez, Maria Carmen Fernandez Aguirre

2217 **Effetiveness of biological treatment in severe asthma difficult to control (SADC)**
Maria Auxiliadora Morón Ortiz (Huelva, Spain), Jessica Hilares Vera, Jesús Lancha Dominguez, Carolina Puchaes Manchón, José Luis Sánchez-Ramos, Antonio Pereira Vega

2218 **Omalizumab versus mepolizumab in severe asthma: a propensity score matched efficiency retrospective cohort study**
Santi Nolasco (Catania, Italy), Crimi Claudia, Raffaele Campisi, Enrico Heffler, Giuseppe Valenti, Corrado Pelaia, Alberto Noto, Girolamo Pelaia, Nunzio Crimi

2219 **Effectiveness of Mepolizumab in Reducing Asthma Exacerbations in Japan**
Hiroyuki Nagase (Tokyo, Japan), Jun Tamaoki, Takeo Suzuki, Yasuko Nezu, Ashley Cole, Shibing Yang, George Mu, Masayuki Katsumata, Masaki Komatsubara, Rafael Alfonso

2220 **Predictor of benralizumab for patients with severe eosinophilic asthma: a retrospective, real-life study**
Takanori Numata (Tokyo, Japan), Hanae Miyagawa, Keitaro Okuda, Hirofumi Utsumi, Mitsuo Hashimoto, Shunsuke Minagawa, Takeo Ishikawa, Hiromichi Hara, Jun Araya, Kazuyoshi Kuwano

2221 **The characteristics of treatment failure with omalizumab in patients with severe asthma: The impact of eosinophilic complication**
Tomohiro Akaba, Mitsuko Kondo, Atsushi Kurokawa, Kiyoshi Takeyama, Etsuko Tagaya

2222 **Benralizumab for severe asthma associated with extra-airway eosinophilic diseases**
Mikio Toyoshima (Hamamatsu, Japan), Keigo Koda, Tsuyoshi Nozue, Takafumi Suda

2223 **ABPA relapse after discontinuation of omalizumab**
Caterina Bucca (Torino (TO), Italy), Luisa Brussino, Irene Ridolfi, Stefania Nicola, Giovanni Rolla

2224 **Differential treatment response to mepolizumab in severe eosinophilic asthma with nasal polyps**
Hui Fang Lim (Singapore, Singapore), Nadia Suray Tan, Yew Kwang Ong , Manali Mukherjee, Siew Shuen Chao, W.S. Daniel Tan, Mei Fong Liew, Xinni Xu, Yuansheng Melvin Sng, De Yun Wang, W.S. Fred Wong, Parameswaran Nair, Veronique Angeli

2225 **Rapid Benralizumab effectiveness in patients with severe eosinophilic asthma and bronchiectasis**
Santi Nolasco (Catania, Italy), Claudia Crimi, Raffaele Campisi, Giulia Cacopardo, Rossella Intravaia, Morena Porto, Nunzio Crimi

2226 **Long term efficacy and safety of omalizumab in patients with allergic asthma-A real life study**
Andriana Papaioannou (Vrilissia (Athens), Greece), Myrto Mplizou, Konstantinos Porpodis, Evangelia Fouka, Eleftherios Zervas, Konstantinos Samitas, Miltiadis Markatos, Spyridon Papiris, Mina Gaga, Despoina Papakosta, Stelios Loukides

2227 **Characterisation of severe eosinophilic asthma patients who failed Mepolizumab therapy**
Omer Elneima (Leicester, United Kingdom), Wadah Ibrahim, Claire Boddy, Anna Murphy, Peter Bradding, Christopher Brightling, Salman Siddiqui

2228 **Super-response to dupilumab therapy in a patient with severe asthma and ABPA – a case report**
Carlo Mümmler (München, Germany), Bernd Kemmerich, Katrin Milger-Kneidinger

2229 **Mepolizumab is effective in severe eosinophilic asthmatics: an Austrian real-life study.**
Andreas Renner (Wien, Austria), Katharina Marth, Karin Patocka, Wolfgang Pohl

2230 **Serum YKL-40 modulation in severe asthma patients treated with Mepolizumab**
Diego Bagnasco (GENOVA (GE), Italy), Anna Maria Riccio, Laura De Ferrari, Marco Caminati, Alessandro Massolo, Gianenrico Senna, Giovanni Passalacqua

Pre-congress content Session 156 00:00 - 23:59

E-poster session: Clinical parameters in severe asthma

Disease(s) : Airway diseases Sleep and breathing disorders

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

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

2231 **Patient-reported versus objective adherence and exacerbation rates in severe asthma.**
Jenny King (Manchester (Greater Manchester), United Kingdom), Stephen Fowler, Leanne Holmes, David Allen, Lynn Elsey

2232	**Practicality and clinical utility of cardiopulmonary exercise testing to investigate complex breathlessness in severe asthma** Amanda Vigus (Brimingham, United Kingdom), Maximillian Thomas, Adel Mansur
2233	**Targeted literature review: epidemiology of severe and uncontrolled asthma and associated biomarkers in France, Germany, Italy, Spain and the UK** Anna Quinton (Cambridge, United Kingdom), Luke Callan, Joshua Dube, Sumeet Singh, Arnaud Bourdin
2234	**A "gender phenotype" does really exist in severe asthma.** Sonia Rizzello (, Italy), Chiara Allegrini, Lorenzo Ciambellotti, Clara De Filippis, Federico Lavorini, Gianna Camiciottoli
2235	**Small airway evolution of a Brazilian severe asthmatic cohort (BRASASP): 10 years follow up** Nilton Gonçalves Dos Santos Junior (São Paulo (SP), Brazil), Renato Miranda Lima, Rodrigo Abensur Athanazio, Regina Maria De Carvalho Pinto, Joao Marcos Salge, Klaus Rabe, Alberto Cukier, Rafael Stelmach
2236	**Real prevalence of severe asthma in developing countries – Is the diagnosis correct?** Manu Chopra (Delhi, India), Vasu Vardhan, Priyanka Singh
2237	**Association between cough frequency and T2 inflammation in severe asthma** Joshua Holmes (Belfast (Belfast), United Kingdom), Surinder Birring, Hannah Fletcher, Lorcan Mcgarvey, L.G Heaney
2238	**The Cretan Registry of the use of Biologics in Severe Asthma (CREBS) of the University Hospital of Heraklion,Greece** Katerina Antoniou (Heraklion, Greece), Maria Bolaki, Konstantinos Karagiannis, Despo Ierodiakonou, Vagia Stamatopoulou, Athina Trachalaki, Charito Chatzinikolaou, Eleutheria Vakouti, Eleni Vlachaki, Thanasis Solakis, Miltos Markatos, Stelios Vittorakis, Aggeliki Kostaki, Maria Varoucha, Evangelia Stamataki, George Pitsidianakis, Irini Lambiri, Ioanna Mitrouska, Nikolaos Tzanakis
2239	**Cretan Severe Asthma Registry** Katerina Antoniou (Heraklion, Greece), Konstantinos Karagiannis, Maria Bolaki, Despo Ierodiakonou, Athina Trachalaki, Vagia Stamatopoulou, Charito Chatzinikolaou, Eleutheria Vakouti, Eleni Vlachaki, Aggeliki Kostaki, Maria Varoucha, Thanasis Solakis, Miltos Markatos, Stelios Vittorakis, Evangelia Stamataki, George Pitsidianakis, Irini Lambiri, Ioanna Mitrouska, Nikolaos Tzanakis
2240	**The relationship between lung function and BAL return in severe asthma** David Hill (Melbourne (VIC), Australia), Laurie Lau, Clare Barber, Colin Newell, Adnan Azim, Ramesh J Kurukulaaratchy, Peter H Howarth, Tim Wallis, Anna Freeman
2241	**Is the minimally clinically important difference (MCID) fit for purpose? A planned study using the SAQ** Joseph Lanario (Plymouth (Devon), United Kingdom), Rupert Jones, Michael Hyland, Andrew Menzies-Gow, Adel Mansur, James Dodd, Stephen Fowler, Mitesh Patel, Gemma Hayes, Matthew Masoli
2242	**Targeted literature review: burden of disease associated with severe and uncontrolled asthma in France, Germany, Italy, Spain and the UK** Arnaud Bourdin (Montpellier Cedex 5, France), Anna Quinton, Luke Callan, Joshua Dube, Maryann Wu, Sumeet Singh
2243	**Relation between pulmonary function tests (PFTs) and severe asthma difficult to control** Byron Enrique Urizar Catalan (Huelva, Spain), María Morón Ortiz, Carolina Puchaes Manchón, Javier Romero Lopez, Antonio Pereira-Vega, José Luis Sanchez Ramos
2244	**Diagnosis of Endoscopic Patterns in Severe Asthma** Lidia Mendez Mangas (Hospitalet de Llobregat, Spain), Eva Fontanilles Arbones, Marta Diez Ferrer, Cristina Martin Cabeza, Noelia Cubero De Frutos, Salud Santos Perez, Jordi Dorca Sargatal, Rosa Lopez Lisbona, Mariana Muñoz Esquerre
2245	**Personalizing asthma care base on Asthma Control Test (ACT) correlation with treatment of asthma comorbidities in a Malaysian cohort** Nurul Yaqeen (Batu Caves (Selangor), Malaysia), Ahmad Izuanuddin Ismail
2246	**The first 30 months of the Portuguese Severe Asthma Registry** Ana Sá-Sousa (Porto, Portugal), Rita Brás, Luís Amaral, Ana Mendes, Wanda Videira, Cecília Pardal, José Alberto Ferreira, Anna Sokolova, Cláudia Chaves Loureiro, Emília Faria, Ana Arrobas, Cristina Lopes, Liliana Ribeiro, Márcio Mesquita, Inês Silva, Marta Drummond, Natacha Santos, Paula Alendouro, Pedro Carreiro-Martins, Ricardo Lima, Vânia Caldeira, João A Fonseca
2247	**Effect of obstructive sleep apnea on asthma control** Dilber Özden Mat (Ankara, Turkey), Selma Fırat, Kurtuluş Aksu, Funda Aksu, Sezgi Şahin Duyar
2248	**Predictors of sputum eosinophilia in severe asthma** Adnan Azim (Bournemouth (Dorset), United Kingdom), Clair Barber, Laurie Lau, Mae Felongco, Helen Wheeler, Paddy Dennison, Ramesh Kurukulaaratchy, Peter Howarth

2249 **Quality of life in severe asthma measured by SAQ and EQ5D questionnaires as a function of clinically relevant cut off points**
Joseph Lanario (Plymouth (Devon), United Kingdom), Rupert Jones, Michael Hyland, Andrew Menzies-Gow, Adel Mansur, James Dodd, Stephen Fowler, Mitesh Patel, Gemma Hayes, Matthew Masoli

Pre-congress content Session 157 00:00 - 23:59

E-poster session: Monoclonal antibodies; randomised controlled trials and real-world studies in asthma

Disease(s) : Airway diseases Respiratory critical care

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

Chairs : Patrick Berger (Bordeaux, France), Corrado Pelaia (Catanzaro (CZ), Italy)

2250 **Late Breaking Abstract - Phenotyping Mepolizumab EXacerbations in severe eosinophilic asthma (MEX)**
Pamela Jane McDowell (Bangor (Co. Down), United Kingdom), Sarah Diver, Jieqiong Freda Yang, Catherine Borg, John Busby, Vanessa Brown, Rahul Shrimanker, Ciara Cox, Christopher Brightling, Rekha Chaudhuri, Ian Pavord, Liam Heaney

2251 **Late Breaking Abstract - Efficacy of oral prednisolone in patients with stable severe eosinophilic asthma (SEA) treated with Mepolizumab**
Jieqiong Yang (Glagow, United Kingdom), John Busby, Liam G Heaney, Chris E Brightling, Ian D Pavord, Katie Borg, Pamela Jane Mcdowell, Sarah Diver, Rahul Shrimanker, Steven Smith, Malcolm Shepherd, Waiting Nicola Lee, Rekha Chaudhuri

2252 **Depletion rate of blood eosinophils with mepolizumab, benralizumab and oral prednisolone in patients with severe asthma**
Angela Moran (Christchurch, New Zealand), Sanjay Ramakrishnan, Catherine Borg, Clare Connolly, Simon Couillard, Christine Mwasuku, Ian Pavord, Timothy Hinks, Lauri Lehtimäki

2253 **Relationship between baseline fraction of exhaled nitric oxide (FeNO) and response to anti-IL-5/5R therapies in severe eosinophilic asthma (SEA)**
Joanne Kavanagh (London, United Kingdom), Andrew Hearn, Cris Roxas, Linda Green, Marianna Fernandes, Louise Thomson, Victoria Payne, Grainne D'Ancona, Brian Kent, Jaideep Dhariwal, Alexandra Nanzer-Kelly, David Jackson

2254 **Sputum analysis reveals eosinophilic inflammation in difficult-to-control asthma patients with low blood eosinophils and FENO.**
Laurien Keulers (LEEUWARDEN, Netherlands), Akke-Nynke Van Der Meer, Anneke Ten Brinke

2255 **Dual biologic therapy with mepolizumab a novel solution to dupilumab-induced conjunctivitis**
Brianne Philipenko (Calgary, Canada), Brandie Walker, Patrick Mitchell, Mike Ramsahai

2256 **Severe asthma outcomes over 18-months treatment with mepolizumab, and comorbidities in non-responders.**
Lynn Elsey (Hale, United Kingdom), James Wingfield-Derby, Leanne J Holmes, Lorna Maguire, Kate Newman, Thomas Pantin, Stephen Fowler

2257 **Determining early response to anti-IL5/IL5R monoclonal antibodies in severe eosinophilic asthma**
Joanne Kavanagh (London, United Kingdom), Cris Roxas, Linda Green, Mariana Fernandes, Louise Thomson, Victoria Payne, Andrew Hearn, Brian D Kent, Grainne D'Ancona, Jaideep Dhairwal, Alexandra M Nanzer, David J Jackson

2258 **Response to benralizumab in severe eosinophilic asthma after intermediate-to-poor response to mepolizumab : a retrospective study.**
Masita Félicité Luzietoso (Montpellier, France), Mada Ghanem, Pierre Le Guen, Camille Taillé

2259 **Characterising individual response to mepolizumab treatment**
David J Jackson (London, United Kingdom), Robert G Price, Steven W Yancey, Roland Buhl, Sally Wenzel

2260 **Mepolizumab improves lung function under real-world settings in REALITI-A study**
Florence Schleich (Liège, Belgium), Rekha Chaudhuri, Giorgio Walter Canonica, Xavier Munoz Gall, Faustina Funke, Bonavuth Pek, Stephen Pollard, Aoife Maxwell, Sandra Joksaite, Robert G Price, Ronan O'Reilly, Melissa K Van Dyke, Shibing Yang, Peter Howarth

2261 **Super-responder analysis and real-world one year effectiveness of benralizumab in severe eosinophilic asthma**
Joanne Kavanagh (London, United Kingdom), Cris Roxas, Linda Green, Mariana Fernandes, Louise Thomson, Victoria Payne, Andrew Hearn, Brian D Kent, Grainne D'Ancona, Jaideep Dhariwal, Alexandra M A Nanzer , David J Jackson

2262 **Serum Amphiregulin expression in severe asthma patients treated with anti-IL-5 therapy**
Diego Bagnasco (GENOVA (GE), Italy), Anna Maria Riccio, Laura De Ferrari, Alessandro Massolo, Marco Caminati, Andrea Manfredi, Gianenrico Senna, Giovanni Passalacqua

2263 **Omalizumab is an effective intervention in severe asthma with aspergillus sensitisation.**
Peter Wark (New Lambton Heights (NSW), Australia), Sikander Hussaini, Carl Holdar, Heather Powell, Christopher Oldmeadow, Peter Gibson

2264 **Efficacy of Benralizumab in severe asthma in real life and focus on nasal polyposis**
Diego Bagnasco (GENOVA (GE), Italy), Giovanni Passalacqua

2265 **Small airways function: evaluation in a population of adult patients with severe asthma and potential use as a response biomarker for anti-IL5 therapy**
Angelantonio Maglio (Salerno (SA), Italy), Carolina Vitale, Simona Pellegrino, Cecilia Calabrese, Roberta Parente, Massimo Triggiani, Cristiana Stellato, Corrado Pelaia, Girolamo Pelaia, Alessandro Vatrella

2266 **Are serum immunoglobulins a predictive biomarker of response for anti-IL5 therapies?**
Simon LAURET (Toulouse, France), Laurent Guilleminault, Elise Noel-Savina, Gregoire Prevot, Danielle Brouquieres, Alain Didier

2267 **The real world effectiveness and effect on adherence with inhaled asthma therapy of 1 year of Severe Asthma Monoclonal Antibody Treatment**
Hannah Joplin (Liverpool (Merseyside), United Kingdom), Daniella Mclenaghan, Lewis Jones, Ryan Robinson, Karl Hunter, Catherine Lowe, Victoria Flynn, Laura Root, Hassan Burhan

2268 **Effect of dupilumab on severe exacerbations in asthma patients with and without lung function improvements**
Nicola Hanania (Houston, United States of America), Jorge Maspero, Reynold A. Panettieri, Mario Castro, Nadia Daizadeh, Michel Djandji, Benjamin Ortiz, Paul Rowe, Yamo Deniz

2269 **Efficacy of tezepelumab in patients with low and high bronchodilator reversibility in PATHWAY**
Jonathan Corren (Los Angeles, United States of America), Mark C Liu, Karin Bowen, Kinga Sałapa, Gene Colice, Jean-Pierre Llanos-Ackert

Pre-congress content Session 158 00:00 - 23:59

E-poster session: Asthma and cough: clinical trials and pharmacological insights

Disease(s) : Airway diseases Respiratory critical care

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

Chairs : Imran Satia (Hamilton (ON), Canada), Chair to be confirmed

2270 **Blood eosinophil count as a predictor of treatment response in adult patients with chronic cough**
Aleksandra Rybka-Frączek (Warszawa, Poland), Marta Dabrowska, Elzbieta M. Grabczak, Katarzyna Bialek-Gosk, Karolina Klimowicz, Olga Truba, Rafal Krenke

2271 **Design of phase 2b randomised controlled trial of S-600918, P2X3 receptor antagonist for refractory chronic cough**
Hiroyuki Ishihara (Ridgewood, United States of America), Hideaki Hida, Mitsuaki Machida, Yoshiyuki Tsuda, Sayaka Miyazaki

2272 **CAPTAIN: Effects of smoking status on response to triple therapy in patients with inadequately controlled asthma on ICS/LABA**
Alberto Papi (Ferrara, Italy), Laurie Lee, Huib Kerstjens, Louis-Philippe Boulet, Agne Zarankaite, Ian D. Pavord, Guy Brusselle, Neil Barnes, Nicola A Hanania, Steven Pascoe, John Oppenheimer, Emilio Pizzichini, Andrew Fowler

2273 **High use of SABAs is associated with higher exacerbation frequency**
Anna Jetske Baron (Groningen, Netherlands), Bertine M.J. Flokstra-De Blok , Huib A.M. Kerstjens , Gineke Koopmans-Klein , David B. Price , Andrea A. Sellink, Ioanna Tsiligianni , Janwillem W.H. Kocks

2274 **Tiotropium improved asthma symptoms and increased time to first exacerbation in patients with moderate-to-severe asthma.**
Bashir Omarjee (Saint-Denis (La Réunion), Reunion)

2275 **Efficacy of as-needed budesonide/formoterol in mild asthma: pooled analysis of SYGMA 1 and 2**
Eric D. Bateman (Cape Town, South Africa), J Mark Fitzgerald, Helen K. Reddel, Peter J. Barnes, Jinping Zheng, Rosa Lamarca, Margareta Puu, Stefan Ivanov, Himanshu Parikh, Vijay Alagappan, Paul M. O'Byrne

2276 **Characterising asthma exacerbations in the CAPTAIN trial**
Laurie Lee (Research Triangle Park, United States of America), John Oppenheimer, Edward Kerwin, Huib Kerstjens, Agne Zarankaite, Guy Peachey, Neal Sule, Neil Barnes, Emilio Pizzichini, Louis-Philippe Boulet, Nicola A Hanania, Robert Nathan, Steven Pascoe, Ian D Pavord, Andrew Fowler

2277 **Treatment patterns in English asthma patients initiating multiple inhaler triple therapy: a cohort study**
Wilhelmine Meeraus (Uxbridge (Middlesex), United Kingdom), Shiyuan Zhang, Andy Fowler, Laurie Lee, George Mu, Alexandrosz Czira, Leah Sansbury

2278	**Predictors of loss of asthma control in the Phase 2a INCONTRO trial: A post-hoc analysis** Robert Palmér (Örebro, Sweden), Joachim Almquist, Mahdi Hashemi, Ziad Taib, Sofia Necander, Katarina Korsback, Malin Aurell, Sara Asimus, Stephen Delaney, Katerina Pardali, Per Gustafson, Tariq Sethi, David Keeling, Ioannis Psallidas
2279	**PBF-680, an oral A1 adenosine receptor antagonist, inhibits adenosine monophosphate (AMP) airway hyperresponsiveness (AHR) in mild-to-moderate asthma: a Phase-IIa proof-of-concept trial** David Ramos-Barbon (Barcelona, Spain), Nadia S. Brienza, Teresa Bigorra Rodríguez, Ignasi Gich Saladich, Montserrat Puntes Rodríguez, Rosa M. Antonijoan Arbos, Nahomi Castro Palomino Laria, Julio Castro Palomino Laria
2280	**Oral corticosteroids for asthma usually prescribed by non-specialists** Akke-Nynke van der Meer (Leeuwarden, Netherlands), Kim De Jong, Michiel Ferns, Marieke Krol, Christine Widrich, Anneke Ten Brinke
2281	**Reduction in asthma exacerbations with indacaterol/glycopyrronium/mometasone high-dose versus medium-dose: a post hoc analysis from the IRIDIUM study** Kenneth R. Chapman (Toronto (ON), Canada), Konstantinos Kostikas, Huib A.M. Kerstjens, Peter D'Andrea, Motoi Hosoe, Devendra Jain, Abhijit Pethe, Ana-Maria Tanase
2282	**Managing T2-High Inflammation in Severe Asthma - Are Biomarkers Better Than Clinician Judgement?** James Michael Ramsahai (Toronto (ON), Canada), Jodie Simpson, Alistair Cook, Peter G Gibson, Vanessa M Mcdonald, Christopher Grainge, Peter Wark
2283	**Effect of indacaterol/mometasone on lung function in adolescents versus overall patient population: PALLADIUM study** Matthias Krüll (Berlin, Germany), Richard Van Zyl-Smit, Christian Gessner, Yasuhiro Gon, Oliver Noga, Alexia Richard, Amy De Los Reyes, Xu Shu, Abhijit Pethe, Ana-Maria Tanase, Peter D'Andrea

Pre-congress content Session 159 00:00 - 23:59

E-poster session: Novel immunopathological mechanisms of lung disease: knowledge from translational studies

Disease(s) : Airway diseases Interstitial lung diseases

Method(s) : Cell and molecular biology

Chairs : Simon D. Pouwels (Groningen, Netherlands), Aleksandra Szczepankiewicz (Pozna , Poland), Jamil Jubrail (Edinburgh, United Kingdom)

2284	**Upregulation of Suppressors of Cytokine Signalling (SOCS)3 in COPD alveolar macrophages.** Erica Bazzan (Padova (PD), Italy), Mariaenrica Tinè, Graziella Turato, Umberto Semenzato, Micaela Romagnoli, Manuel Cosio, Marina Saetta
2285	**The CDK4/6 inhibitor, palbociclib intensifies pulmonary inflammation in bleomycin-induced lung fibrosis** Anna Birnhuber (Graz, Austria), Bakytbek Egemnazarov, Valentina Biasin, Ehsan Bonyadi Rad, Horst Olschewski, Grazyna Kwapiszewska, Leigh Marsh
2286	**Alveolar presence of red blood cells correlates with alveolar macrophage iron levels in COPD** James Baker (MANCHESTER, United Kingdom), Molly Hammond, Josiah Dungwa, Andrew Higham, Simon Lea, Dave Singh
2287	**The content of IgE and circulating immune complexes (CIC) in pregnant women with exacerbation of chronic simple bronchitis due to cytomegalovirus infection** Victor P. Kolosov (Blagoveshchensk (Amur Oblast), Russian Federation), Igor N. Gorikov, Irina A. Andrievskaya, Leonid G. Nakhamchen, Natalia A. Ishutina
2288	**The relationship between Notch expression and T cell differentiation in COPD** Ching-Hsiung Lin (Changhua City, Taiwan), Yi-Rong Li, Hsiu-Hui Chang, Sheng-Hao Lin
2289	**Physiological role of olfactory receptors in alveolar macrophages** Daniel Weidinger (Bochum, Germany), Desiree Alisch, Kaschin Jamal Jameel, Matthias Ruhe, Faisal Yusuf, Simon Rohde, Jacqueline Schalk, Peter Kaufmann, Juliane Kronsbein, Marcus Peters, Nikolaos Giannakis, Hanns Hatt, Jürgen Knobloch
2290	**In vitro responses of peripheral blood mononuclear cells in severe asthma patient treated with Mepolizumab** Fahad Alhadian (Leicester, United Kingdom), Jameel Hakeem, Adam Wright, Salman Siddiqui, Yassine Amrani
2291	**Levels of proteinase 3 and neutrophil elastase in plasma, BAL and biopsies in COPD** Bahareh Jouleh (Rådal, Norway), Ingvild Haaland, Fahimeh Khorsand, Randi Sandvik, Tharmini Kalananthan, Rune Nielsen, Tæraneh Jouleh, Harald Wiker, Per Bakke, Nathalie Reuter, Tomas Eagan

2292 **Protease activated receptor 2 (PAR2) antagonism reduces pro-inflammatory cytokine production in bronchial epithelial cells**
Mariarca Bailo (Paisley, United Kingdom), L. Dunning, J. Brzeszczynska, K. Mcintosh, R. Plevin, S. L. Martin, G P. Sergeant, C. S. Goodyear, G. S. Litherland, J. C. Lockhart, A. Crilly

2293 **FK506-binding protein 11, a novel plasma cell specific antibody folding catalyst, is increased in idiopathic pulmonary fibrosis**
Stefan Preisendörfer (München, Germany), Stefan Preisendörfer, Yoshihiro Ishikawa, Larissa Knüppel, Isis Fernandez, Leonhard Binzenhöfer, Brenda Juan-Guardela, Elisabeth Hennen, Clemens Ruppert, Andreas Guenther, Nikolaus Kneidinger, Marion Frankenberger, Rudolph Hatz, Jürgen Behr, Aloys Schepers, Anne Hilgendorff, Naftali Kaminski, Hans-Peter Bächinger, Oliver Eickelberg, Claudia Staab-Weijnitz

2294 **Immunological profiling of chronic obstructive airways disease and idiopathic pulmonary fibrosis**
Jacobo Sellares Torres (Barcelona, Spain), Nuria Mendoza, Sandra Casas-Recasens, Fernanda Hernández, Nuria Albacar, Noel Guillaume, Alvar Agusti, Rosa Faner

2295 **Erythromycin Reverses Nets-induced Corticosteroid Insensitivity By Inhibition Of The Pi3kd/akt Pathway**
Zhiyi He (Nan Ning, China)

2296 **THE PROGRESSION OF IMMUNE DISORDERS IN CHRONIC OBSTRUCTIVE PULMONARY DISEASE IS ASSOCIATED WITH CHANGES IN LEUKOCYTE MEMBRANE FATTY ACID COMPOSITION**
Yulia Denisenko (Vladivostok, Russian Federation), Tatyana Novgorodtseva, Marina Antonyuk, Tatyana Gvozdenko

2297 **Multiplex immunohistochemistry to investigate inflammatory cell spatial organisation and interactions in severe asthma**
Latifa Chachi (Leicester (Leicestershire), United Kingdom), Joao Sousa, Chris Brightling, Yassine Amrani

2298 **Determination of levels of markers of systemic inflammation in patients with chronic bronchitis in combination with concomitant gastroesophageal reflux disease**
Uliana Shevchuk-Budz (Ivano-Frankivsk, Ukraine), Mykola Ostrovskyy, Oleksandr Varunkiv, Iryna Savelikhina, Iryna Makoyda, Kseniia Ostrovska

2299 **Cross-talk between coagulation and inflammation in COPD. The role of Factor XIII.**
Erica Bazzan (Padova (PD), Italy), Claudia Radu, Mariaenrica Tinè, Umberto Semenzato, Simonetta Baraldo, Graziella Turato, Paolo Simioni, Manuel Cosio, Marina Saetta

2300 **Evaluation of mRNA expression profiling of NF-?B mediated signaling in COPD patients.**
Ravi Shanker Yadav (Lucknow, India), Surya Kant, Prashant Mani Tripathi, Anuj Kumar Pandey

2301 **Mechanisms of extracellular Hsp70 induced inflammatory effects in 16HBE cells**
Andrea Hulina Tomašković (Zagreb, Croatia), Anita Somborac-Bačura, Iva Hlapčić, Marija Grdić Rajković, Lada Rumora

2302 **Estimation of DNA repair synthesis in peripheral blood lymphocytes from asthmatic patients treated with oral corticosteroids**
Andrey Lintsov (st.Petersburg, Russian Federation), Alisher Soliev, Pavel Slizhov, Sergei Shevelev, Irina Spivak, Viktor Mikhelson

2303 **The importance of innate and adaptive immunity in the formation of various variants of the course of seasonal allergic rhinitis**
L Sizyakina (Rostov-on-Don, Russian Federation), I Andreeva, N Semenova

Pre-congress content Session 160 00:00 - 23:59

E-poster session: Aspergillosis and chronic lung infections

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

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

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

2304 **Clinical application and radiological relavance for Aspergillus fumigatus- and flavus-specific IgG in chronic Pulmonary Aspergillus infection>**
Shiang-Fen Huang (Taipei, Taiwan), Fu-Der Wang, Shi-Yi Li, Yu-Jung Chan, Yu-Chi Huang, Ying-Ying Yang

2305 **Cavitary lung lesions – microbiological identification of mycobacteriosis**
Ruslan Asanov (Ulyanovsk, Russian Federation), Natalya Karpina, Ekaterina Shishkina, Elena Larionova, Atatzhan Ergeshov

2306	**Characteristic of hydatid cyst in diabetic patients** Sarra Ammari (Manouba, Tunisia), Sarra Zairi, Héla Kammoun, Amira Dridi, Mehdi Abdennadher, Imene Bouassida, Taher Mestiri, Lamine Megdiche, Hazem Zribi, Adel Maraghli
2307	**Allergic bronchopulmonary aspergillosis as aetiology of bronchiectasis: data from the German bronchiectasis registry PROGNOSIS** Isabell Pink (Hamburg, Germany), Jessica Rademacher, Pontus Mertsch, Andres De Roux, Annegret Zurawski, Grit Barten-Neiner, Tobias Welte, Roland Diel, Felix Ringshausen
2308	**Impact of Candida isolation in lower respiratory tract samples on the outcomes of acute exacerbation of chronic obstructive pulmonary disease: a retrospective case-control study** Jing Zhang (Shanghai (Xuhui District), China), Yi-Hui Zuo, Wei-Qing Wang, Jie-Ming Qu
2309	**Use of Isavuconazole MIC to guide dosing in the management of Aspergillosis in patients with pulmonary disease** LISA NWANKWO (BANSTEAD, United Kingdom), Darius Armstrong-James , Anand Shah
2310	**Performance of Siemens immulite immunoassay for detection of Aspergillus fumigatus and Aspergillus flavus specific IgG for chronic pulmonary aspergillosis diagnosis in Pakistan** Kauser Jabeen (Karachi, Pakistan), Joveria Farooqi, Nousheen Iqbal, Khalid Wahab, Muhammad Irfan
2311	**An open label randomized controlled trial comparing nebulized amphotericin B with oral itraconazole in patients with pulmonary aspergilloma** Animesh Ray (Kolkata (West Bengal), India), Jagadeesh Manikanta, Surabhi Vyas, Sunil Kumar Kabra
2312	**Clinical characteristics of patients with pulmonary aspergillosis in a respiratory medicine service in southern Brazil** Eduardo Garcia (Porto Alegre (RS), Brazil), Felipe Westphal, Marcelo Bellon, Tales Franzini, João Dallasen
2313	**Predicting risk of mortality of chronic pulmonary aspergillosis** Keitaro Nakamoto (Tokyo, Japan), Yuka Sasaki, Tatsuya Shirai, Keiji Fujiwara, Koji Furuuchi, Takeshi Osawa, Masafumi Shimoda, Kozo Morimoto, Yoshiaki Tanaka, Masao Okumura, Takashi Yoshiyama, Hideo Ogata, Atsuyuki Kurashima, Kozo Yoshimori, Ken Ohta
2314	**Comparative evaluation of biological specimens obtained from patients diagnosed with non-tuberculosis mycobacteriosis** Natalya Karpina (Moscow, Russian Federation), Irina Shabalina, Elena Larionova, Ekaterina Shishkina, Ruslan Asanov, Atadzhan Ergeshov
2315	**An expert statment on clinical considerations before treating NTM lung infection** Raphael Chiron (Montpellier Cedex 5, France), Nicolas Veziris, Claire Andrejak, Wouter Hoefsloot, Zeina Aoun, Cristina Audoly, Damien Basille, Amira Benattia, Anne Bergeron, Jean Francois Bervar, Jean Francois Boitiaux, Arnaud Bourdin, Diane Bouvry, Jacques Cadranel, Gérard Chatté, Léa Colombain, Jean Louis Couderc, Bruno Crestani, Julien Crouzet, Gaetan Deslee, Benoit Douvry, Margot Drevait, Magali Dupuy Grasset, Stephane Jouneau, Mallorie Kerjouan, Sylvie Leroy, Thomas Maitre, Jean Pierre Mallet, Massongo Massongo, Marlène Murris Espin, Annabelle Payet, Pauline Pradère, Anne Prevotat, Christophe Rogé, Frédéric Schlemmer, Leila Slim, Cécile Toper, Fatma Tritar, Maria Cristina Patrizi, Vincent Bouix, Francois Xavier Blanc, Emilie Catherinot
2316	**Launch of a novel intrapleural fibrinolytic service for empyema at a district general hospital in London** Ewan Mackay (London, United Kingdom), Sivanantham Sasikumar
2317	**Comparison of susceptibility testing results of MAC isolated from HIV-positive andHIV-negative patients** Anna Panova (Moscow, Russian Federation), Alexandra Gracheva, Anatoliy Vinokurov, Galina Pay, Grigory Kaminskiy, Eduard Karamov, Irina Vasilyeva
2318	**In vitro susceptibility testing of bedaquiline against mycobacteria avium-intracellulare complex** Marina Makarova (Nizhnekamsk (Republic Tatarstan), Russian Federation), Yulia Mikhailova, Dmitriy Kudlay, Natalia Litvinova , Lidia Guntupova, Vitaliy Litvinov
2319	**Pulmonary nocardiosis in renal transplant patients in a tertiary care hospital in Pakistan** Muhammad Jawwad Nazmi (Karachi, Pakistan), Fakhir Haidri
2320	**Bacteriological and therapeutic features of lung abscess** Rim khemakhem (Sfax, Tunisia), Nessrine Kallel, Khouloud Abdelmouleh, Nedia Moussa, Ilhem Yangui, Samy Kammoun

Pre-congress content Session 161 00:00 - 23:59

E-poster session: Translational science in respiratory infections

Disease(s) : Airway diseases

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

Chairs : Martin Witzenrath (Berlin, Germany), Kylie Belchamber (Birmingham, United Kingdom)

2321	**Effects of PC945, a novel antifungal agent optimised for lung delivery, on Candida albicans lung infection in mice** Yuki Nishimoto (chiba, Japan), Genki Kimura, Takahiro Nakaoki, Pete Strong, Kazuhiro Ito, Yasuo Kizawa
2322	**Establishment of Nontypeable Haemophilus influenzae airway infection murine model** Genki Kimura (Funabashi, Japan), Yuki Nishimoto, Takahiro Nakaoki, Kazuhiro Ito, Yasuo Kizawa
2323	**Dual RNASeq unveils NTHi-macrophage transcriptomic changes during intracellular persistence** Jodie Ackland (Southampton (Hampshire), United Kingdom), Ashley Heinson, David Cleary, Myron Christodoulides, Tom Wilkinson, Karl Staples
2324	**Overexpression of macrophage inducible C-type lectin Mincle aggravates proinflammatory responses to Streptococcus pneumoniae with fatal outcome in mice** Femke D. Hollwedel (Hannover, Germany), Regina Maus, Jennifer Stolper, Ayesha Khan, Bridget L. Stocker, Andreas Pich, Tobias Welte, Sho Yamasaki, Ulrich A. Maus
2325	**TOLL-like receptors polymorphism in pneumonia associated with influenza A(H1N1)/09** Angelina Sartakova (Chita, Russian Federation), Sergei Lukyanov, Andrew Malyarchikov, Jana Shchukina, Alexandra Levanchuk, Arthur Emelyanov, Konstantin Shapovalov
2326	**Biomorphological and related technical aspects affecting phage activity for inhaled application** Sandra-Maria Wienhold (Berlin, Germany), Markus C. Brack, Wibke Groenewald, Geraldine Nouailles, Imke Korf, Manfred Rohde, Claudius Seitz, Antonia Dannheim, Sarah Wienecke, Holger Ziehr, Christine Rohde, Martin Witzenrath
2327	**Role of reactive persulfide species in influenza virus-induced lung inflammation in mice** Katsuya Takita (Sendai - shi, Japan), Hisatoshi Sugiura, Tomohiro Ichikawa, Numakura Tadahhisa, Hirano Taizou, Mitsuhiro Yamada, Takaaki Akaike, Ichinose Masakazu
2328	**Condition of cellular immunity in patients with prolonged course of community acquired pneumonia** Roman Razumnyi (Lugansk, Ukraine), Kateryna Gashynova
2330	**Systematic evaluation of clarithromycin (CLA) resistance associated mutations in Mycobacterium abscessus complex based on whole-genome sequencing analysis and drug susceptibility testing.** Mitsunori Yoshida, Hanako Fukano, Kentaro Yamamoto, Masato Suzuki, Kozo Morimoto, Naoki Hasegawa, Satoshi Mitarai, Manabu Ato, Yoshihiko Hoshino
2331	**Phosphorothiorate oligodeoxynucleotides induce antimicrobial epithelial mitochondrial reactive oxygen species that protect against pneumonia** Scott Evans (Houston, United States of America), Yongxing Wang, Vikram Kulkarni, Jezzreel Pantaleon Garcia, Michael Longmire, Shradha Wali
2332	**Role of a-1 antitrypsin in lung protective immunity against Streptococcus pneumoniae in mice** Lena Ostermann (Hannover, Germany), Regina Maus, Jennifer Stolper, Lisanne Schütte, Konstantina Katsarou, Christian Mueller, Sabina Janciauskiene, Tobias Welte, Ulrich A. Maus
2333	**Klebsiella pneumonae triggers rapid release IL(IL)-26 in human neutrophils** Karlhans Che (Stockholm, Sweden), Anders Linden
2334	**LSC - 2020 - IRF5 regulates airway macrophage metabolic responses to viral challenge** Gesa Albers (London, United Kingdom)
2335	**High Intensity Interval Training control inflammation in mice exposed to Streptococus pneumoniae.** CLARICE ROSA OLIVO (SAO PAULO, Brazil), Thamyres B.P Castro, Roseane M. Laia, Luana D. Mendonça, Pietro Da Rocha Trindade, Jessica C. Souza, Beatriz M. Saraiva-Romanholo, Maria Leonor S. Oliveira, Eliane N. Miyagi , Carla M. Prado, Iolanda F.C.L Tiberio
2336	**The effects of inhaled corticosteroids and a beta-2 agonist on C. pneumoniae-infected airway epithelial cells** Dóra Paróczai (Deszk, Hungary), Dávid Kókai, Katalin Burián
2337	**Antimicrobial effect of hypertonic saline on sputum and biofilm in endotracheal tube** Hui-Ling Lin (Taoyuan, Taiwan), Ssu-Hui Wang, Chi-Shuo Chen
2338	**Protective efficacy of virus like particles (VLPs) containing the influenza HA and/or NA in a murine model of postinfluenza bacterial pneumonia** Irina LENEVA (Moscow, Russian Federation), Irina Falynskova, Andrey Egorov, Alexander Poddubikov, Reingard Grabherr, Miriam Klausberger
2339	**Monitoring opportunistic microflora in patients with HIV infection and highlighting the significance of Streptococcus gr. viridans in the development of lower respiratory tract infections** Anna Mordyk (Omsk, Russian Federation), Larisa Puzyreva

Pre-congress content Session 162 00:00 - 23:59

E-poster session: Biomarkers and characterisation of immune response in respiratory infection

Disease(s) : Airway diseases Respiratory critical care

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

Chairs : Manali Mukherjee (Hamilton (ON), Canada), Kathleen Jahn (Basel, Switzerland)

2340	**Azurocidin-1: a marker of COPD severity and microbial dysbiosis** Jennifer Pollock (Dundee, United Kingdom), Alison Dicker , Mike Lonergan, Holly R Keir, Alexandria H Smith, Megan Crichton, Jeffrey T-J Huang , Bruce E Miller, Ruth Tal-Singer, James D Chalmers
2341	**Neutrophil extracellular traps levels are associated to severity and complications in community-acquired pneumonia** Paula Gonzalez Jimenez (Valencia, Spain), Raúl Méndez, Laura Feced, María P. Fernández-Pérez, Rocío González-Conejero, Constantino Martínez, Ana Latorre, Antonio Moscardó, Rosario Menéndez
2342	**Protein profile of COPD patients with Pseudomonas in their airway secretions** Joaquim Gea Guiral (Barcelona, Spain), Sergi Pascual-Guardia, Rut Mas, Rosa Faner, Adi Castro-Acosta, German Peces-Barba, Borja Cosio, Alvar Agustí, Eduard Monsó
2343	**Vitamin D as a marker of worsening of the course of pneumonia.** Tatiana Luchnikova (Blagoveshchensk (Amur Oblast), Russian Federation), Olga Prikhodko
2344	**Composition ration and drug-sensitivity distribution of phlegmy patogenic bacteria from AECOPD inpatients** Tiangang Ma, Yanbing Hu, Qinghua Zhang
2345	**Metabolite markers identify pneumonia better in serum than sputum or broncho-alveolar lavage fluid** Qiang Xiao, Xiaobin Zheng, Xiang Liu, Liang Li, Fu Rong
2346	**Neutrophil elastase is correlated with disease severity in a cohort from Southern Europe** Andrea Gramegna (Milano (MI), Italy), Stefano Aliberti, Tommaso Pilocane, Giovanni Sotgiu, Margherita Ori, Carlotta Di Francesco, Laura Saderi, Alice Gelmini, Leonardo Terranova, Martina Oriano, Angela Bellofiore, Michele Gaffuri, Barbara Vigone, James D Chalmers, Sibila Oriol, Paola Marchisio, Francesco Blasi
2347	**Evaluating salivary IgA levels as a biomarker for susceptibility to upper respiratory tract infection in elite athletes** Scarlett Turner (London, United Kingdom), James Hull, Anna Jackson, Craig Ranson, Peter Kelleher, Mike Loosemore, Anand Shah
2348	**The adaptation of a point of care test for the quantitative determination of active neutrophil elastase in sputum** Darragh McCafferty (Belfast (Belfast), United Kingdom), William Carson-Mcneill, Timothy Ferguson, Kelly Moffitt
2349	**Validation of an activity-based immunoassay for measurement of active cathepsin g in sputum** Darragh McCafferty (Belfast (Belfast), United Kingdom), Kelly Moffitt, Timothy Ferguson, Brian Walker
2350	**Diagnostic performance of multiplex bacterial PCR in BAL for bacterial pneumonia varies across molecular assays** Andrei Darie (Basel, Switzerland), Desiree Schumann, Adrian Egli, Nina Khanna, Michael Tamm, Daiana Stolz
2351	**Evaluation of Immature Platelet Fraction (IPF) in respiratory tract infections.** Vasiliki Georgakopoulou (Athens, Greece), Konstantinos Mantzouranis, Dimitrios Mermigkis, Despina Melemeni, Georgios Petsinis, Evgenia Karakou, Agathi Lekkakou, Nikolaos Trakas, Rea Chatzikyriakou, Xanthi Tsiafaki
2352	**Vaccine-induced immunity in elite athletes undergoing respiratory assessment** Scarlett Turner (London, United Kingdom), James Hull, Anna Jackson, Craig Ranson, Peter Kelleher, Mike Loosemore, Anand Shah
2353	**Characterization of the Immune Response in Clinical Sepsis To Identify Potential Therapeutic Targets** Shahd Horie (Galway, Ireland), Jack Brady, Bairbre Mc'Nicholas, Daniel O'Toole, Matthew Griffin, John Laffey
2354	**Bronchoalveolar lavage amylase levels can be a biomarker of aspiration pneumonia.** Tomoko Suzuki (Aiduwakamatsu, Japan), Miwako Saitou, Yuka Utano, Kennichi Utano, Katsunao Niitsuma
2355	**Significant Discrimination of unknown bacterial Infections by Analysis of VOCs in exhaled Air or Headspace from Infected Regions** Gunther Becher (Bernau, Germany), Roman Purkhart, Romy Gerber, Thomas Junghans, Rolf Graupner

Pre-congress content Session 163 00:00 - 23:59

E-poster session: Non-tuberculous mycobacterial infections and bronchiectasis

Disease(s) : Airway diseases

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

Chairs : Beatriz Herrero Cortina (Zaragoza, Spain), Amelia Shoemark (Dundee (Angus), United Kingdom)

2356	**Pulmonary nontuberculous mycobacerial disease in elderly patients** Yoshihiro Kobashi (Kurashiki (Okayama), Japan), Masaaki Abe, Daisuke Yoshioka, Shigeki Kato, Toru Oga
2357	**Species diversity of non-tuberculous mycobacteria isolated from HIV-positive and HIV-negative patients** Anna Panova (Moscow, Russian Federation), Alexandra Gracheva, Anatoliy Vinokurov, Galina Pay, Grigory Kaminskiy, Eduard Karamov, Irina Vasilyeva
2358	**Radiological features of NTM pulmonary disease in patients with bronchiectasis** James D. Chalmers (Dundee (Angus), United Kingdom), Simon Finch, Irena Laska, Sebastian Ferri, Luis Carreto, Margarida Redondo, Hani Abo-Leyah, Roald Van Der Laan
2359	**Non-tuberculous mycobacteria isolated in microbiological samples, at the General Hospital of Granollers.** Yolanda Galea Colón (Barcelona, Spain), Mireia Baiges Badia, Anna Mola Ausiró, Carmina Marti, Enric Barbeta Sanchez
2360	**Paradoxical response during antibiotic treatment in patients with Mycobacterium avium complex lung disease** Jin-Young Huh (, Republic of Korea), Byoung Soo Kwon, Yea Eun Park, Tae Sun Shim, Kyung-Wook Jo
2361	**Bronchiectasis in Italy: data from the national registry IRIDE** Stefano Aliberti (Milano (MI), Italy), Giovanni Sotgiu, Francesco Menzella, Marialma Berlendis, Federico Dente, Sebastian Ferri, Marina Aiello, Angelo Corsico, Valentina Conti, Salvatore Battaglia, Vittoria Comellini, Paola Faverio, Emanuela De Juli, Megan Crichton, Eva Polverino, James Chalmers, Francesco Blasi
2362	**Mycobacterium abscessus activates cross-resistance following antibiotic exposure** Jodie Schildkraut (Nijmegen, Netherlands), Jodie Schildkraut, Jordy Coolen, Jakko Van Ingen
2363	**Non-tuberculous mycobacteriosis of the lungs - comorbid pathology.** Anna Sargsyan (Schelkovo, Russian Federation), Natalia Makaryants , Evgeniy Shmelev , Larisa Lepekha
2364	**Asthma as a co-morbidity and cause of bronchiectasis: data from the European Bronchiectasis Registry (EMBARC).** Eva Polverino (Barcelona, Spain), Letizia Traversi, Miguelangel Martinez-Garcia, Michal Shteinberg, Apostolos Bossios, Katerina Dimakou, Pierluigi Paggiaro, George Ghillas, Yochaid Adir, Sebastian Ferri, Antonio Spanevello, Federico Dente, Stefano Aliberti, James Chalmers
2365	**Inhaled antibiotics improve symptoms of cough and sputum in patients with bronchiectasis: a post-hoc analysis of the AIR-BX studies** Megan Crichton (Dundee (Angus), United Kingdom), Mike Lonergan, Alan Barker, Oriol Sibila, Pieter Goeminne, Amelia Shoemark, James Chalmers
2366	**Eradication of Pseudomonas aeruginosa within the baseline dataset of the German Bronchiectasis Registry PROGNOSIS** Pontus Mertsch (München, Germany), Isabell Pink, Jessica Rademacher, Andrés De Roux, Stefanie Konwert, Roland Diel, Grit Barten, Annegret Zurawski, Tobias Welte, Jürgen Behr, Felix Ringshausen
2367	**Are COPD patients with Nocardia species identification different from those who have also co-morbid bronchiectasis?** Mariana Serino (Braga, Portugal), Catarina Sousa, Margarida Redondo, Natália Martins, Adelina Amorim
2368	**Asthmatic Traits in a Group of non-cystic fibrosis Bronchiectasis** Federico Lorenzo Dente (Pisa (PI), Italy), Giulia Lenzini, Giulia Parri, Micheli Micol, Silvana Cianchetti, Giovanna De Cusatis, Laura Carrozzi
2369	**The clinical impact of nebulised antibiotics in adults with bronchiectasis and chronic pseudomonas aeruginosa** Michaela Donaghy (Newtonabbey, United Kingdom), Charlotte Addy, Jenny Mclornan, Oonagh Hewitt, Ruth Redfern, Damian Downey, Steven Caskey
2370	**High frequency chest wall oscillation use in non-cystic fibrosis bronchiectasis: a feasibility study.** Giulia Cacopardo (Palermo (PA), Italy), Claudia Crimi, Raffaele Campisi, Santi Nolasco, Stefano Alia, Nunzio Crimi
2371	**Use of Decametoxinum in bronchiectasis** Kateryna Gashynova (Dnipro, Ukraine), Kseniia Suska, Valeriia Dmytrychenko
2372	**Impact of cough on insomnia and sleep quality in bronchiectasis** Sebastian Ferri (Milan (MI), Italy), Serena Tammaro, Mariangela Retucci, Angela Bellofiore, Silvia Soloperto, Carlotta Di Francesco, Alice Gelmini, Andrea Gramegna, Margherita Ori, Alberto Braghiroli, Francesco Blasi, Stefano Aliberti

2373 **Isolation of Nontuberculous Mycobacteria in Seville, Spain.**
Maria Barca Hernando (Sevilla, Spain), Juan Francisco Medina Gallardo, Verónica González-Galán, Ana Rodriguez-Rey, Rafael Luque Márquez, Javier Aznar Martín

Pre-congress content Session 164 00:00 - 23:59

E-poster session: Respiratory viruses in the "pre COVID-19" era

Disease(s) : Airway diseases Respiratory critical care

Method(s) : General respiratory patient care Epidemiology Public health Imaging Endoscopy and interventional pulmonology Physiology Respiratory intensive care

Chairs : Alejandra Ramírez Venegas (México D.F, Mexico), Aran Singanayagam (London, United Kingdom)

2374 **Respiratory Viral Trends in Adults**
Christiaan Yu (Clayton, Australia), Ar Kar Aung, Chuan Foo

2375 **Respiratory Viral Trends in Paediatrics**
Chuan Tai Foo (Victoria, Australia), Ar Kar Aung, Christiaan Yu

2376 **Respiratory viruses in bronchoscopic samples from hematooncology patients**
Abdelfattah Touman (Makkah, Saudi Arabia), Ahmad Sayeed, Eid Al Qurashi, Nabil Ghalib, Ahmad Al Dobyany, Omar Al Nashiwaaty

2377 **Predictors of influenza PCR positivity in acute exacerbations of chronic obstructive pulmonary disease**
Huiying Xu (Singapore, Singapore), Min Sen Yew, Joo Hor Tan, John Abisheganaden

2378 **Influenza point-of-care testing: what is the point?**
Matthew Maycock (Glasgow (Glasgow), United Kingdom), Emilie Goldstein, William Harvey, Emilie Bellhouse, Su Su Htwe, Rory Gunson, Brian Choo-Kang

2379 **Sporadic coronavirus and human metapneumovirus lower respiratory tract infection in adults: comparison of chest CT findings and correlation with clinical outcomes**
Lawrence A. Marinari (Bryn Mawr, United States of America), Madeline A. Danny, Wallace T, Miller, Jr.

2380 **Infective triggers for asthma exacerbations in Malta**
Stephanie Pullicino (Msida, Malta), Jonathan Debattista, Caroline Gouder, Stephen Montefort

2381 **The study of the viral etiology in the infectious exacerbations of chronic bronchitis in Ukraine**
Galyna Gumeniuk (Kyiv, Ukraine), Mykola Gumeniuk, Oleksii Denysov, Olga Denysova, Svitlana Opimakh

2382 **CURRENT MANAGEMENT OF ACUTE BRONCHIOLITIS IN SWITZERLAND**
Katharina Hartog (St. Gallen, Switzerland), Cristina Ardura-Garcia , Juerg Hammer, Claudia Kuehni , Juerg Barben

2383 **Severe RSV bronchiolitis in children**
Rosalie S.N. Linssen (Amsterdam, Netherlands), Reinout A. Bem, Berber Kapitein , Katrien Oude Rengerink , Marieke H. Otten , Bibiche Den Hollander, Louis Bont, Job B.M. Van Woensel

2384 **Features of acute respiratory viral infections in pregnant women**
Victor P. Kolosov (Blagoveshchensk (Amur Oblast), Russian Federation), Irina A. Andrievskaya, Irina V. Zhukovets, Tatyana V. Talchenkova, Kristina V. Bereza, Anton S. Abuldinov

2385 **Rhabdomyolysis in severe viral pneumonias in 2019**
Sergey Lukyanov (Chita (Zabaykalsky Krai), Russian Federation), Andrey Malyarchikov, Vladimir Gorbunov, Tamara Gaidukova, Konstantine Shapovalov

2386 **Combination of nitazoxanide with oseltamivir compared with oseltamivir in hospitalized patients with influenza**
Parvaiz A. Koul (Srinagar (Jammu and Kashmir), India), Hyder Mir, Tajamul Shah

2387 **Is the average exhaled nitric oxide concentration (FeNO) effective in detecting respiratory rhinovirus (RV) infections?**
Anirban Sinha (Amsterdam, Netherlands), Rene Lutter, Peter Sterk, Barbara Dierdorp, Tamara Dekker, Urs Frey, Edgar Delgado Eckert

2388 **The efficacy of the decamethoxin against simple and complex viruses**
Galyna Gumeniuk (Kyiv, Ukraine), Galyna Gumeniuk, Iryna Dziublik, Svitlana Fadeeva, Svitlana Opimakh, Oleksii Denysov

2389	**The effectiveness of Influenza vaccination in general Greek population** Eleni Bellou (Glyfada, Greece), Georgia Hardavella, Elissavet Mpampaliari, Elli Keramida, Irma Bracka, Loukia Pappa, Theodore Daskalos, Christos Kiritsis, Ioannis Karampinis, Gerasimos Metaxas, Despoina Zorpidou, Eleni Moraitou, Magdalini Makarona, Simona Karabela, Panagiotis Demertzis
2390	**A multi-centric retrospective study of respiratory tract metapneumovirus infection in immunocompromised patients.** Antoine Al Hamoud (Boulogne Billancourt, France), Nicolas Etienne, Nathalie Pansu, Emilie Catherinot, Antoine Roux, Louis Jean Couderc, Olivier Lortholary
2391	**Knowledge, attitudes and practices regarding influenza and TB among health workers during seasonal influenza outbreak** Stamatoula Tsikrika (Athens, Greece), Agis Terzidis, Emanouil Pikoulis
2392	**Association of radiologic findings with mortality of patients infected with 2019 novel coronavirus in Wuhan, China** Mingli Yuan (Wuhan, China), Wen Yin, Zhaowu Tao, Weijun Tan, Yi Hu
2393	**Assessment of knowledge, attitude and practice towards 2019 novel coronavirus.** Ilias Dimeas (Larissa, Greece), Dimitrios Papagiannis, Foteini Malli, Ioanna Papathanasiou, Dimitrios Raptis, Evangelos C. Fradelos, Zoe Daniil, Georgios Rachiotis, Konstantinos I. Gourgoulianis

Pre-congress content Session 165 00:00 - 23:59

E-poster session: Epidemiology and understanding of airways diseases in primary care

Disease(s) : Airway diseases Sleep and breathing disorders

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

Chairs : Rachel Jordan (Birmingham (West Midlands), United Kingdom), Andrew Cave (Edmonton (AB), Canada)

2394	**Challenges in conducting community surveys on chronic respiratory diseases in Low and Middle-Income Countries: the 4CCORD pilot** Ee Ming Khoo (, Malaysia), Nik Sherina Hanafi, Dhiraj Agarwal, Sanjay Juvekar, Osman Yusuf, Mohsin Saeed Khan, Sundeep Salvi, Deesha Ghorpade, Mohammad Shahidul Islam, Rita Isaac, Su May Liew, Norita Hussein, Ahmad Ihsan Abu Bakar, Yong Kek Pang, Karuthan Chinna, Li Ping Wong, Samir K Saha, Hilary Pinnock
2395	**Additive information from mMRC and CCQ in relation to COPD exacerbations** Andrei Malinovschi (Uppsala, Sweden), Karin Lisspers, Christer Janson, Hans Hedenström, Krtistina Bröms, Björn Ställberg, Marieann Högman
2396	**Validated the power of terminal status criteria in the prediction of 1-year mortality in patiens with COPD** Pin-Kuei Fu (Taichung, Taiwan), Yu-Chi Tung
2397	**Cause-specific mortality rates in patients with COPD in primary care: a prospective analysis of the Birmingham COPD Cohort Study** Shamil Haroon (Birmingham (West Midlands), United Kingdom), Andrew Dickens, Peymane Adab, Alexandra Enocson, David Fitzmaurice, Rachel Jordan
2398	**Severe asthma risk persists in London children.** Mark L. Levy (London, United Kingdom), Zia Ul-Haq, Tahereh Kamalati, Rachel Meadows, Kavitha Saravanakumar, Amanda Lucas
2399	**Factors Affecting the Preferences of Electronic Cigarette Users** Mehmet Uysal (İstanbul, Turkey), Ayse Turan
2400	**The effect of myofascial release technique on respiratory parameters in hamstring shortness** Betul Cinar (Bezmialem Vakıf Üniversitesi, Turkey), Semiramis Ozyilmaz
2401	**Abnormal pain processing in young adults with controlled asthma: an observational study** Janet Rodriguez Torres (Granada, Spain), María Granados Santiago, Alejandro Heredia Ciuró, Esther Prados Román, Ascensión Rodríguez Rodríguez, Marie Carmen Valenza
2402	**Predictive value of spirometry in early detection of obstructive lung disease in adults: a cohort study** Lene Maria Ørts (Aarhus C, Denmark), Bodil Hammer Bech, Torsten Lauritzen, Janus Laust Thomsen, Niels Henrik Bruun, Anders Løkke, Annelli Sandbæk
2403	**Quality of pneumonia assessment tools for community acquired pneumonia in Korea; From the Health Insurance Review and Assessment (HIRA) database** Hanter Hong (Seoul, Republic of Korea), Tai Joon An, Chin Kook Rhee, Jun-Pyo Myoung, Sung-Hwan Jung, Hyoung-Kyu Yoon

2404	**Phenotyping OSAS patients based on comorbidities in the Primary Health Care in Greece** Sotirios Zarogiannis (Larisa, Greece), Panagiota Ntenta, Georgios Vavougios, Konstantinos Gourgoulianis
2405	**Blood eosinophil as a treatable trait in patients with bronchiectasis** Hyun Lee (Seoul, Republic of Korea), Dae Geun Lee, Seungbum Wi, Seong Yong Lim, Hye Yun Park
2406	**Chronic respiratory diseases (CRDs) in low- and middle-income countries (LMICs): A scoping review of survey methodologies** nik sherina Hanafi (Kuala Lumpur, Malaysia), Dhiraj Agarwal, Soumya Chippagiri, Evelyn A. Brakema, Hilary Pinnock, Ee-Ming Khoo, Aziz Sheikh, Su-May Liew, Chiu-Wan Ng, Rita Isaac, Karuthan Chinna, Li-Ping Wong, Norita Hussein, Ahmad Ihsan Abu Bakar, Yong-Kek Pang, Sanjay Juvekar
2407	**Adherence to pharmacotherapy of Colombian patients with COPD according to GOLD 2019** Vicente Andrés Benavides Córdoba (Cali, Colombia), Jhonatan Betancourt-Peña , David Escobar-Vidal, Jenifer Rodriguez-Castro, Diana Guerrero Jaramillo
2408	**Factors affecting vaccination rates against influenza in adults with asthma** Tadeusz M. Zielonka (Warszawa, Poland), Jeremy Bigaj, Natalie Czaicki
2409	**Advanced care planning and Do Not Attempt CPR discussions in patients prescribed home oxygen therapy** Charlotte Francis (Cambridge, United Kingdom), Richa Singh, Jane Simpson, Joe Curtin
2410	**Skiers with or without asthma have increased airway diffusion rate of NO from the airways** Marieann Högman (Uppsala, Sweden), Lars Wedholm, Tomas Carlsson, Magnus Carlsson, Michail Tonkonogi
2411	**Theoretically informed education to support asthma self-management in primary care: part of the IMP2ART programme** Viv Marsh (Bridgnorth, United Kingdom), Kirstie Mc Clatchey, Rhian Last, Elizabeth Steed, Ann Saxon, Stephanie Taylor, Hilary Pinnock
2412	**Precision of diagnosing COPD everyday practice** Rasa Gauronskaite (Vilnius, Lithuania), Greta Ragaišienė, Rūta Kibarskytė, Monika Giedraitytė, Agnė Dapšauskaitė, Vytautas Kasiulevičius, Edvardas Danila

Pre-congress content — Session 166 — 00:00 - 23:59

E-poster session: Pharmacological management of COPD

Disease(s) : Airway diseases

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

Chairs : Arschang Valipour (Wien, Austria), Danilo Cortozi Berton (Porto Alegre (RS), Brazil)

2413	**Late Breaking Abstract - TriOptimize VIII – Improvement of Lung Function with Extrafine Single Inhaler Triple Therapy – Analysis of Response Patterns by Prior Treatment from a Real-World Study.** Carl-Peter Criee (Bovenden, Germany), Sanaz Bahari Javan, George Georges, Kai Melchior, Raimund Hövelmann, Christian Geßner
2414	**Effect of Peri-operative Bronchodilator Therapy on Postoperative Pulmonary Function among Lung Cancer Patients with COPD** Hye Yun Park (Seoul, Republic of Korea), Sun Hye Shin, Sumin Shin, Danbee Kang, Juhee Cho, Dae Geun Lee, Seong Yong Lim
2415	**Influenza and pneumococcal vaccination in patients with COPD** Nicolas Roche (Paris, France), Bernard Aguilaniu, Pierre-Régis Burgel, Maeva Zysman, David Hess, El-Hassane Ouaalaya, Thi-Chien Tran, Chantal Raherison
2416	**Alpha-1 antitrypsin deficiency in COPD patients: Time to count it in!** Dilek Karadoğan (Rize, Turkey), Songül Özyurt
2417	**Characteristics of new users of single and multiple-inhaler triple therapy for COPD in primary care in England** Kieran Rothnie (London, United Kingdom), Sandra Joksaite, Afisi Ismaila, Leah Sansbury
2418	**Perception and Usage Among Indian Physicians of Long Acting Dual Bronchodilators in COPD: PATTERN Study** Lancelot Pinto (Mumbai (Maharashtra), India), Lancelot Pinto, Arjun Khanna, Rashmi Hegde, Meena Lopez, KArtik Deshmukh, Almesh Kadakol, Jaideep Gogtay

2419	**Effect of COPD medications on exacerbation rates in a real-life COPD patient cohort - data from the Czech Multicenter Research Database of COPD.** Kristian Brat (Brno, Czech Republic), Vladimir Koblizek, Michal Svoboda, Marek Plutinsky, Jaromir Zatloukal, Eva Volakova, Patrice Popelkova, Barbora Novotna, Tomas Dvorak, Ondrej Kudela, Michal Kopecky, Pavlina Musilova, Eva Kocova, Petr Vanik, Lucie Heribanova
2420	**Withdrawal of ICS in patients with COPD** Anne Orholm Nielsen (Roskilde, Denmark), Ole Hilberg, Jens Ulrik Stæhr Jensen, Anders Løkke
2421	**Patient characteristics that guide medication advice for primary care COPD patients in an electronic service: preliminary results** Anna Jetske Baron (Groningen, Netherlands), Bertine M.J. Flokstra-De Blok, Ellen Van Heijst, Jiska M. Meijer, Esther E.I. Metting, Roland A. Riemersma, Huib A.M. Kerstjens, Janwillem W.H. Kocks
2422	**Medical quality control intervention for COPD patients in China: a cluster randomized, controlled trial** Fengyan Wang (Guangzhou, China), Zhenyu Liang, Yumin Zhou, Heng Zhong, Hao Hu, Yuqiong Yang, Weijuan Shi, Yuqi Li, Nansha Zhong, Rongchang Chen
2423	**Dual bronchodilation in real-life COPD management: analysis of patients' characteristics enrolled in COPD Registry in Russia** Andrey Belevskiy (Moscow, Russian Federation), Natalya Kravchenko , Larisa Samosudova, Olga Ostankova
2424	**A specialty wise practice pattern in COPD: A survey of doctors in 3 Asian countries** Abdul Razak Abdul Muttalif (Kuala Lumpur (Wilayah Persekutuan), Malaysia), Ramesh Chokhani, Kirthi Gunasekera, Aniruddha Mukhopadhyay, Vaibhav Gaur, Jaideep Gogtay
2425	**Influence of vaccine prevention of pneumoccocus conjugated vaccine on mortality in patients with COPD** Galina Ignatova (Chelyabinsk, Russian Federation), Galina Ignatova
2426	**Economic impact of delayed multiple-inhaler triple therapy initiation in COPD patients** Afisi Ismaila (Cary, United States of America), Robert Wood, Glenn Anley, Yein Nam, Daniel Bluff, Leah Sansbury
2427	**Pharmacological management and risk of mortality after first COPD hospitalization (HERA)** Christer Janson (Uppsala, Sweden), Bright Nwaru, Fredrik Wiklund, Gunilla Telg, Magnus Ekström
2428	**Economic evaluation of the impact of exacerbation frequency in COPD patients treated with single-inhaler triple therapy in Spain: The IMPACT trial** Afisi Ismaila (Cary, United States of America), Laura Amanda Vallejo, Victoria Paly, Alan Martin, Nancy Risebrough, Catarina Abreu, José Luis Izquierdo, Juan Antonio Riesco, Juan José Soler-Cataluña
2429	**The effect of methlyxanthines as adjunct to corticosteroids among chronic obstructuve pulmonary disease patients in acute exacerbation: a systematic review and meta-analysis** Mithi Kalayaan Zamora (Quezon City, Philippines), Daniel Guevara, Joel Santiaguel, Matthew Wayne Chang

Pre-congress content — Session 167 — 00:00 - 23:59

E-poster session: COPD phenotypes

Disease(s) : Airway diseases | Sleep and breathing disorders

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

Chairs : Frederik Trinkmann (Heidelberg, Germany), Alejandra Lopez Giraldo (Castelldefels, Spain)

2430	**Research priorities in alpha-1 antitrypsin deficiency (AATD) for healthcare professionals** Maria Campos Miranda Duarte Sucena (Porto, Portugal), Miriam Barrecheguren Fernandez, Karen O´hara, Marion Wilkens, Jeanette Boyd, Ewa Kolda, Alice Turner, Gerry Mcelvaney, Ilaria Ferrarotti, Jan Stolk, Joanna Chorostowska-Wynimko , Robert Stockley, Timm Greulich, Marc Miravitlles
2431	**Prevalence of alpha-1 antitrypsin deficiency (AATD) in Greater Glasgow and Clyde (GG&C) and current practises** Fiona Catterall (Glasgow, United Kingdom), David Anderson
2432	**ARE THERE DIFFERENCES IN EXERCISE CAPACITY BY GENDER IN COPD PATIENTES?** Virginia Almadana Pacheco (Sevilla, Spain), Cristina Benito Bernáldez, Lucía Marín Barrera, Rut Ayerbe García
2433	**Phenotypic characteristics of asthmatic patients with distal airways obstruction** Nouha Guediri (Tunis, Tunisia), Amani Ben Mansour, Soumaya Ben Saad, Samia Essebaa, Rihab Jebali, Hafaoua Daghfous, Tritar Fatma
2434	**Characterization of a patient population phenotyped for alpha-1-antitrypsin** Mariana Conde (Guimarães, Portugal), Bebiana Conde, Catarina Parra, Artur Vale, Ana Fernandes

2435	**Correlation between cardiorespiratory coupling and six-minute walking tests in patients with chronic obstructive pulmonary disease** Yu-Chen Huang (Taipei City, Taiwan), Tin-Yu Lin, Hau-Tieng Wu, Po-Jui Chang, Chun-Yu Lo, Shu-Min Lin, Horng-Chyuan Lin, Yu-Lun Lo
2436	**Physical activity and cardiac autonomic function in patients with COPD, a cross-sectional analysis** Laura Delgado Ortiz (Barcelona, Spain), Ane Arbillaga-Etxarri, Diego Rodríguez, Elena Gimeno-Santos, Anael Barberan-Garcia, Robert Rodríguez-Roisin, Eva Balcells, Jordi Vilaró, Judith Garcia-Aymerich
2437	**Does airflow limitation severity in stable condition severity of COPD influences in patient cardiac autonomic modulation in COPD patients during hospitalization for exacerbation?** Renata Mendes (Sao Carlos (SP), Brazil), Nathany Souza Schafauser, Débora Mayumi De Oliveira Kawakami, Alessandro Domingues Heubel, Erika Zavaglia Kabbach, Nicole Marques Sgarbosa, Valéria Amorim Pires Di-Lorenzo, Audrey Borghi-Silva
2439	**Body mass index in COPD: what relationship?** Salma Mokaddem Mohsen (Tunis, Tunisia), Sahar Chakroun, Asma Chaker, Khadija Ayed, Saloua Jameleddine
2440	**Czech national alpha-1 antitrypsin registry** Jan Chlumsky (Praha 4, Czech Republic), Katerina Kusalova
2441	**RATES OF LUNG FUNCTION DECLINE DIFFERS BETWEEN COPD PHENOTYPES** Bernardino Alcazar Navarrete (Cájar, Spain), Susana Calvo Rodriguez, Laura Carrasco Hernandez, Pedro J Romero Palacios, Oliverio Ruiz Rodriguez, Jose Luis Lopez Campos
2442	**Descriptive analysis of patients admitted due to COPD exacerbation (COPDE) and COPD-pneumonia.** Isabel Muñoz Ramirez (Seville, Spain), Alfonso Marín Andreu, Carolina España Domínguez, María Morales González, Eva Vázquez Gandullo, Aurelio Arnedillo Muñoz
2443	**Relationship between CRP levels and the severity of COPD acute exacerbations among group D COPD patients.** Ahmed Ben Saad (Monastir, Tunisia), Asma Migaou, Saousen Cheikh Mhamed, Nesrine Fahem, Naceur Rouatbi, Samah Joobeur
2444	**COPD Assessment Test (CAT) scores following a digital health intervention** Leanne Kaye (San Francisco, United States of America), Rahul Gondalia, David Van Sickle, David Stempel, Meredith Barrett
2445	**The relationship between vitamin D deficiency and the main characteristics of COPD patients** Angelina Suleymanova (Moscow, Russian Federation), Irina Baranova
2446	**Current trends in the course, treatment, and outcomes of ST-segment elevation myocardial infarction (STEMI) in patients with COPD.** Karolina Klester (Barnaul (Altay), Russian Federation), Elena Klester, Alexandra Balitskaya, Irina Sheremetyeva, Valeriy Elykomov, Mohammed Alaa Abdulamir Alwash
2447	**Can extended hematological parameters of inflammation predict the severity and outcome of AECOPD?** Slavica Liška (Zagreb, Croatia), Anna-Maria Vidaković, Ivana Rako, Andrea Vukić Dugac, Miroslav Samaržija
2448	**Clinical features and factors associated current smoking in stage I COPD** Hsien-chun Lin (Taipei, Taiwan)
2449	**Key findings and quality improvement recommendatons from the national asthma and COPD audit programme (NACAP) primary care audit April 2017- September 2018** Eloya Imoedemhe (London, United Kingdom), Katherine Hickman

Pre-congress content Session 168 00:00 - 23:59

E-poster session: A fresh look at the spectrum of symptoms in respiratory disease

Disease(s) : Airway diseases | Sleep and breathing disorders | Interstitial lung diseases | Thoracic oncology

Method(s) : General respiratory patient care | Pulmonary rehabilitation | Pulmonary function testing | Palliative care | Public health | Physiology

Chairs : Wendy Darlene Reid (Toronto (ON), Canada), Catarina Duarte Santos (Almada, Portugal)

2450	**Is pain a risk factor for symptom severity in patients with chronic obstructive pulmonary disease?** Ismail Ozsoy (Kırşehir, Turkey), Buse Ozcan Kahraman, Aylin Tanrıverdi, Serap Acar, Aylin Ozgen Alpaydin, Can Sevinc, Sema Savci
2451	**Pain is associated with balance and gait impairment in people with Chronic Obstructive Pulmonary Disease (COPD).** Kirsti J Loughran (Billingham, United Kingdom), Greg Atkinson, John Dixon, Denis Martin, Samantha L Harrison

2452	**Pain sensitivity in stable asthmatic and allergic patients** Irene Torres Sanchez (Santa Fe, Spain), Laura López López, Andrés Calvache Mateo, Alejandro Heredia Ciuró, Araceli Ortiz Rubio, Marie Carmen Valenza
2453	**Sleep and cognitive impairment in COPD exacerbated and stable patients** Irene Torres Sanchez (Santa Fe, Spain), Esther Prados Román, Natalia Muñoz Vigueras, Laura López López, Araceli Ortiz Rubio, Marie Carmen Valenza
2454	**Cognitive impairment is present in people with chronic obstructive pulmonary disease** Lissa Spencer (Sydney (NSW), Australia), Wing S. Kwok Kwok , Amanda Mcanulty, Jennifer Alison
2455	**Working memory impacts endurance for dyspnea** Kazuhiro Kimpara (hamamatsu, Japan), Shinichi Arizono, Maki Tanaka, Yuichi Tawara
2456	**Can a single bout of treadmill walking improve cognition in people with chronic obstructive pulmonary disease: randomised controlled trial?** Wing Kwok (NSW, Australia), Lissa Spencer, Amanda Mcanulty, Jennifer Alison
2457	**Severe fatigue is highly prevalent in patients with interstitial lung disease** Ada E.M. Bloem (Utrecht, Netherlands), Rémy L.M. Mostard, Naomi Stoot, Jan H. Vercoulen, Jeannette B. Peters, Daisy J.A. Janssen, Jan W.H. Custers, Martijn A. Spruit
2458	**Fatigue in COPD and the impact of multi-morbidity** Yvonne Goërtz (Horn, Netherlands), Annemarie Braamse, Martijn Spruit, Daisy Janssen, Zjala Ebadi, Maarten Van Herck, Chris Burtin, Jeanette Peters, Jean Muris, Mirjam Sprangers, Melissa Thong, Jan Vercoulen, Rosanne Beijers, Martijn Van Beers, Emiel Wouters, Annemie Schols, Judith Rosmalen, Hans Knoop
2459	**Unravelling associations between fatigue and key outcomes in patients with COPD** Patrícia Filipa Sobral Rebelo (Trancoso, Portugal), Ana Oliveira, Cátia Paixão, Sara Souto-Miranda, Ana Machado, Ana Alves, Joana Cruz, Cristina Jácome, Sara Almeida, Ana Helena Tavares, Alda Marques
2460	**Association Between Pain Level and Fatigue Level with Activities of Daily Living in Lung Cancer Patients Receiving Inpatient Cancer Therapy: A Pilot Study** Vesile Yildiz Kabak (Ankara, Turkmenistan), Fulya Ipek, Songul Atasavun Uysal, Tulin Duger
2461	**How does EQ-5D-3L and HADS questionnaires perform in patients with COPD?** Henrik Hansen (Dragør, Denmark), Theresa Bieler, Nina Beyer, Anne Frølich, Thomas Kallemose, Nina Godtfedsen
2462	**The relationship between kinesiophobia due to chronic pain and physical functioning in patients with COPD** Takako Tanaka (Nagasaki, Japan), Minoru Okita, Ryo Kozu
2463	**The relationship between kinesiophobia, dyspnea level, functional exercise capacity and quality of life in patients with chronic obstructive pulmonary disease** Buse Ozcan Kahraman (Izmir, Turkey), Ismail Ozsoy, Aylin Tanriverdi, Serap Acar, Aylin Ozgen Alpaydın, Can Sevinc, Sema Savci
2464	**Validity and reliability of the Turkish version of the Multidimensional Dyspnea Profile in outpatients with respiratory disease** Buse Ozcan Kahraman (Izmir, Turkey), Turhan Kahraman, Ismail Ozsoy, Aylïn Tanriverdï, Aslı Papurcu, Nazenin Hande Sezgin, Karya Polat, Serap Acar, Aylin Ozgen Alpaydin, Can Sevinc, Sema Savci
2465	**Impact of a Specialist Breathlessness Group** Samantha Pilsworth (Liverpool (Merseyside), United Kingdom), Samantha Pilsworth, Joseph Donohoe, Linda Jones, Joanne Hillis, Sarah Sibley, Dennis Wat
2466	**Evaluation of a new Numerical Rating Scale for quality of life for Dysfunctional Breathing** David Ford (Scarborough (North Yorkshire), United Kingdom), Vicky Watson, Miriam J Johnson

Pre-congress content — Session 169 — 00:00 - 23:59

E-poster session: COPD and the impact of comorbidities

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

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

Chairs : Bruno Balbi (Veruno (NO), Italy), Luiza Helena Degani-Costa (São Paulo (SP), Brazil)

2467	**Late Breaking Abstract - Silent exacerbations: underreporting of COPD exacerbations in Poland** Małgorzata Farnik (Katowice, Poland), Dorota Brzostek

2468	**Late Breaking Abstract - Burden of pertussis in COPD: a retrospective database study in England** Kinga Meszaros (Wavre, Belgium), Emmanuel ARIS, Esse Ifebi Akpo, Amit Bhavsar, Lauriane Harrington, Evie Merinopoulou, Nicola Sawalhi-Leckenby, Elisa Turriani, Dimitra Lambrelli, Piyali Mukherjee
2469	**Late Breaking Abstract - Compare outcomes between COPD patients treated with Tiotropium/Olodaterol (TIO/OLO) and other fixed-dose LAMA/LABAs** Swetha Palli (Ridgefield, United States of America), Caitlin Elliott, Bin Xie, Benjamin Chastek, Lindsay Bengston
2470	**Clinical features of eosinophilic COPD** Askin Gülsen (Izmir, Turkey), Burcu Arpinar Yigitbas, Berat Uslu
2471	**Role of interleukin 6 in COPD patients over nine years** Robson Prudente (Botucatu (SP), Brazil), Carolina Mesquita, Estefânia Franco, Renata Ferrari, Irma Godoy, Suzana Tanni
2472	**Transforming growth factor beta 1 (TGF-ß1) level as a marker of COPD severity** Tetyana Pertseva, Daria Koval
2473	**Prevention of COPD exacerbations using nebulization with an electrolytic silver solution** Sergey Andronov (Nadym (Yamal-Nenets), Russian Federation), Andrei Lobanov, Elena Bogdanova, Alexander Emelyanov, Anatoliy Fesyun, Andrei Rachin, Gleb Barashkov, Anfisa Nikitina, Andrei Popov
2474	**Factors associated with exacerbations in patients with COPD: NOVELTY study** Hana Müllerová (Ickenham, United Kingdom), Bo Ding, Eleni Rapsomaniki, Richard Beasley, J Mark Fitzgerald, Tim Harrison, Rod Hughes, Jose Maria Olaguibel, Helen K Reddel, Precil Varghese, Mohsen Sadatsafavi, Christer Janson
2475	**Effect of Multiple Comorbidities on Mortality in COPD** Won-Kyung Cho (SEOUL, Republic of Korea), Youngmee Kim, Ye-Jee Kim
2476	**Skeletal muscle dysfunction among COPD patients in Eastern Europe** Vitalii Poberezhets (Vinnytsia, Ukraine), Szymon Skoczyński, Anna Demchuk, Aleksandra Oraczewska, Ewelina Tobiczyk, Yuriy Mostovoy, Adam Barczyk
2477	**Characteristics of patients with homogeneous and heterogeneous emphysema** Mostafa Bakeer (Mansoura, Egypt), Marina Duller, Kelly Groß, Georg-Christian Funk, Arschang Valipour
2478	**Influence of coexistent Chronic Obstructive Pulmonary Disease in Heart Failure on linear and nonlinear dynamics of Heart Rate Variability** Patrícia Camargo (Araraquara, Brazil), MURILO OLIVEIRA, Cássia Goulart, Guilherme Peixoto, Polliana Santos, Patrícia Camargo, Renata Mendes, Flávia Caruso, Audrey Borghi-Silva
2479	**Early signs of COPD in 42 years old individuals with severe alpha-1-antitrypsin deficiency** Georg Schramm (Trelleborg, Sweden), Eeva Piitulainen, Per Wollmer, Hanan Tanash
2480	**COPD burden on sexual well-being** Julia Rubenstein (, France), Maeva Zysman, Frédéric Le Guillou, Marie-Hélène Colson, Christiane Pochulu, Leo Grassion, Roger Escamilla, Daniel Piperno, Joel Pon, Chantal Raherison-Semjen
2481	**Diagnostic value of N-terminal pro-brain natriuretic peptide in patients with COPD with chronic hypoxemic respiratory failure.** Olga Titova (St. Petersburg, Russian Federation), Natalya Kuzubova, Darya Sklyarova, Vladimir Volchkov, Elizaveta Volchkova
2482	**Association between right heart failure and endothelial dysfunction in COPD patients** Manuel Abraham Gómez Martínez (Mexico City, Mexico), Yael Ramiro Gastelum Ayala, Rocio Sanchez Santillan, Arturo Orea Tejeda, Dulce Gonzalez Islas, Ilse Perez Garcia, Oscar Ubaldo Martinez Reyna, Nathalie Martinez Luna, Valeria Ariadna Martinez Vazquez, Martha Elena Quintero Martinez, Silvia Cid Juarez, Hector Perea Gutierrez, Stephanie Gisel Montoya Azpeitia, Carlos Espinoza De Los Monteros Sanchez
2483	**DIFFERENCES IN THE QUALITY OF LIFE BETWEEN PATIENTS WITH LEFT HEART FAILURE AND RIGHT HEART FAILURE SECONDARY TO COPD** Manuel Abraham Gómez Martínez (Mexico City, Mexico), Karen Aide Santillan Reyes , Viridiana Peláez Hernández, Laura Arely Martínez Bautista , Karla Leticia Rosales Castillo, Lizzbett Luna Rodríguez, Arturo Orea Tejeda, Oscar Ubaldo Reyna Martinez, Valeria Ariadna Martínez Vázquez
2484	**Are the mMRC dyspnea scale of 2 and a CAT score of 10 equivalent as proposed by the GOLD strategy?** Virginia Alvarez (zaragoza, Spain), Juan Luis Quevedo Marín, María Betrán Orduna, Zichen Ji, María Fernando Moreno, Alfonso Pérez Trullen , Javier De Miguel-Díez

2485 **Factors affecting survival after severe COPD exacerbations: a single-center experience.**
Mariaenrica Tine (Padova (PD), Italy), Graziella Turato, Umberto Semenzato, Erica Bazzan, Marta Zuffellato, Kim Lokar-Oliani, Marina Saetta, Manuel G. Cosio

2486 **Impact of diabetes in patients with COPD**
Azza Slim (Tunis, Tunisia), Hela Kamoun, Amal Saidane, Yasmine Hdidène, Hager Ben Abdelghaffar, Hanen Smadhi, Dorra Greb, Ines Akrout, Hela Hassene, Leila Fekih, Mohamed Lamine Megdiche

Pre-congress content Session 170 00:00 - 23:59

E-poster session: Advance in treatments for sleep and breathing disorders and long-term adherence

Disease(s) : Sleep and breathing disorders

Method(s) : Epidemiology General respiratory patient care Imaging Public health Pulmonary rehabilitation Physiology

Chairs : Jean-Louis Pépin (Grenoble, France), Dries Testelmans (Leuven, Belgium)

2487 **Association between continuous positive airway pressure, weight change and glycaemic control in patients with type 2 diabetes**
Louisa Schaller (Kümmersbruck, Germany), Michael Arzt, Bettina Jung, Carsten A. Böger, Iris M. Heid, Stefan Stadler

2488 **Bone Metabolism in OSAS Patients and the Effect of One Year Treatment with Non-Invasive Ventilation**
Daniela Krasimirova (Sofia, Bulgaria), Daniela Petrova, Ognian Georgiev, Radoslav Bilyukov, Tsanko Mondeshki, Ventsislava Pencheva, Sevda Naydenska, Martin Nikolov, Petko Shoshkov

2489 **Risk factors for non-compliance with continuous positive airway pressure therapy in patients with obstructive sleep apnea and paroxysmal atrial fibrillation**
Gunn Marit Traaen (Oslo, Norway), Maria Kristina Vik-Strandli, Britt Øverland, Lars Aakerøy, Tove-Elizabeth Hunt, Christina Bendz, Nina Bredesen, Lars Øivind Sande, Svend Aakhus, Sigurd Steinshamn, Ole-Gunnar Anfinsen, Jan Pål Loennechen, Harriet Akre, Lars Gullestad

2490 **Telecoaching to improve physical activity in patients with obstructive sleep apnea treated with CPAP**
Bart Vrijsen (Linkhout, Belgium), Thierry Troosters, Bertien Buyse, Pham Anh Hong Nguyen, Dries Testelmans

2491 **A comparison of sleep disordered breathing events detected by CPAP devices with in-lab polysomnography**
Georg Nilius (Dortmund, Germany), Maik Schroeder, Ulrike Domanski, Matthias Richter

2492 **The frequency of medical co-morbidities and their impact on adherence to upper airway stimulation for obstructive sleep apnea.**
Patrick Strollo (Pittsburgh, United States of America), Ryan Soose, Clemens Heiser, Armin Steffen, Joachim Maurer, Olivier Vanderveken

2493 **Prevalence and determinants of residual excessive daytime sleepiness (RES) in patients treated with continuous positive airway pressure (CPAP) for obstructive sleep apnea (OSA).**
Renaud Tamisier (Grenoble, France), Jessica Richoux, Sébastien Bailly, Sebastien Baillieul, Rita Guzun, Marie Destors, Jean Louis Pépin

2494 **Effects of shifts between nasal- and oronasal masks on positive airway pressure adherence: analysis of a German healthcare provider database**
Michael Arzt (Regensburg, Germany), Christoph Schoebel, Joachim H Ficker, Andrea Graml, Juergen Schnepf, Ingo Fietze, Peter Young, Holger Woehrle

2495 **Blood pressure reduction following treatment with positive airway pressure in sleep apnea – data from the ESADA**
Ludger Grote (Göteborg, Sweden), Sven Svedmyr, Jan Hedner, Ding Zou, Sebastien Bailly, Carolina Lombardi, Ondrej Ludka, Marisa Bonsignore, Jean-Lois Pépin, Sofia Schiza, John Arthur Kvamme, Ozen K. Basoglu , Johan Verbraecken

2496 **Impact of different positive airway pressure-therapy care models on longer-term therapy termination rates**
Holger Woehrle (Ulm, Germany), Jochen Ficker, Andrea Graml, Juergen Schnepf, Ingo Fietze, Peter Young, Christoph Schoebel, Michael Arzt

2497 **CPAP treatment increases anxiety in coronary artery disease patients with nonsleepy obstructive sleep apnoea: The RICCADSA randomized controlled trial**
Yeliz Çelik (İstanbul, Turkey), Erik Thunström, Patrick J Strollo, Yüksel Peker

2498 **Negative Affectivity and Social Inhibition influences adherence to positive pressure treatment in patients with sleep respiratory disorders**
Sebastian Rodriguez-Llamazares (Ciudad de México, Mexico), Margarita Reyes-Zúñiga, Yadira Rodríguez-Reyez, Juan Sebastián Reyes-Silva, Selene Guerrero-Zuñiga

2499	**High flow-nasal cannula oxygen treatment in patients with concomitant severe chronic obstructive pulmonary diseases and mild-moderate sleep apnea (overlap syndrome).** Lucia Spicuzza (Sant'Agata Li Battiati (CT), Italy), Raffaele Campisi, Claudia Crimi, Stefano Alia, Marialuisa Giuffrida, Nunzio Crimi
2500	**Effects of positive airway pressure (PAP) modalities on central apnea and crackles in heart failure** Maree Milross (Sydney, Australia), Mark Norman, Michael Wilson, Gary Baker, Colin Sullivan
2501	**Acetazolamide is effective treatment of Cheyne–Stokes respiration in patients with chronic heart failure** Alexander Palman (Moscow, Russian Federation), Mariya Poltavskaya , Kliya Sorokina
2502	**Treatment of patients with complex and central sleep-disordered breathing with adaptive servo-ventilation (ASV): the READ-ASV registry** Michael Arzt (Regensburg, Germany), Oliver Munt, Holger Woehrle, Raphael Heinzer, Adam Benjafield, Jean-Louis Pepin
2503	**The role of positive airway pressure treatment for Obstructive Sleep Apnea in Pulmonary Embolism** Joana Patrícia Almeida Borges (Coimbra, Portugal), Fátima Fradinho
2504	**Effect of continuous positive airway pressure in patients with paroxysmal atrial fibrillation and obstructive sleep apnea** Gunn Marit Traaen (Oslo, Norway), Lars Aakerøy, Tove-Elizabeth Hunt, Britt Øverland, Christina Bendz, Nina Bredesen, Lars Øivind Sande, Svend Aakhus, Hasse Zare, Morten Fagerland, Sigurd Steinshamn, Ole-Gunnar Anfinsen, Harriet Aakre, Jan Pål Loennechen, Lars Gullestad

Pre-congress content Session 171 00:00 - 23:59

E-poster session: Phenotyping sleep-disordered breathing and its impact on various diseases

Disease(s) : Sleep and breathing disorders Airway diseases

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

Chairs : Jan A. Hedner (Göteborg, Sweden), Sophia E. Schiza (Heraklion, Greece)

2505	**Prevalence of obstructive sleep apnea in acute phase of pulmonary embolism: Preliminary results of ESAET study** Grace Jacqueline Oscullo Yepez (Valencia, Spain), Alberto Garcia Ortega, Eva Mañas Baena, Raquel Lopez Reyes, Aldara Garcia Sanchez, Irene Cano Pumarega, Juan Jose Jimenez Aguilella, Pilar Calvillo Batles, Jose Daniel Gomez Olivas, Alba Ceveró Rubio, Enrique Zaldivar Olmeda, Tomas Posadas Blazquez, Maria Jose Selma Ferrer, David Jimenez Castro, Miguel Angel Martínez García
2506	**Changes in the difference between subjective and objective sleep duration according to sleep duration or sleep disordered breathing: The Nagahama Study** Naomi Takahashi (Kyoto, Japan), Takeshi Matsumoto, Yoshinari Nakatsuka, Kimihiko Murase, Yasuharu Tabara, Hirofumi Takeyama, Takuma Minami, Satoshi Hamada, Osamu Kanai, Kiminobu Tanizawa, Isuzu Nakamoto, Takahisa Kawaguchi, Kazuya Setoh, Takanobu Tsutsumi, Yoshimitsu Takahashi, Tomohiro Handa, Tomoko Wakamura, Naoko Komenami, Toyohiro Hirai, Fumihiko Matsuda, Takeo Nakayama, Kazuo Chin
2507	**Sleep apnea after lung transplantation: a cohort study** Dries Testelmans (Leuven, Belgium), Kathleen Schoovaerts, Catharina Belge, Stijn Verleden, Robin Vos, Geert Verleden, Bertien Buyse
2508	**Daytime approach to Obstructive Sleep Apnea phenotyping** Roberto Magri (Roncadelle, Italy), Luciano Corda, Laura Pini, Lara Bertolovic, Fabio Spreafico, Claudio Tantucci
2509	**Lung function impairment in relation with obstructive sleep apnea and obesity: the Rotterdam Study** Sara Wijnant (Gent, Belgium), Annemarie Luik, Thom Leysen, Arfan Ikram, Lies Lahousse, Guy Brusselle
2510	**The prevalence of obstructive sleep apnea (OSA) in patients with severe asthma and the association between severity of OSA and asthma control** Fatema Al Lawati (Muscat, Oman), Mohammed Al Abri, Saif Al Mubaihsi, Sayed Rizvi
2511	**Peripherial arterial tonometry versus polysomnography in suspected obstructive sleep apnea** Matthias Herrmann (Basel, Switzerland), Simon Veitz, Desiree Schumann, Werner Strobel, Michael Tamm, Daiana Stolz
2512	**Impact of cardiac sympathetic denervation on IH-induced ischemic cardiomyopathy aggravation** Maximin Détrait (La Tronche, France), Jonathan Gaucher, Sophie Bouyon, Jean-Louis Pepin, Elise Belaidi, Claire Arnaud
2513	**Pulse wave analysis for recognition of cardiovascular risk in sleep apnea patients** Christian Strassberger (Gothenburg, Sweden), Ding Zou, Thomas Penzel, Ingo Fietze, Jan Hedner, Joachim Ficker, Winfried Randerath, Bernd Sanner, Dirk Sommermeyer, Ludger Grote

2514 **Night-to-night variability of respiratory events in obstructive sleep apnoea: a systematic review and meta-analysis**
Matteo Bradicich (Basel, Switzerland), Maurice Roeder, Thomas Gaisl, Sira Thiel, Esther Irene Schwarz, Ulrike Held, Malcolm Kohler

2515 **Sleep-disordered breathing and incident malignancy in type 2 diabetes**
Sarah Driendl (Regensburg, Germany), Michael Arzt, Claudia S. Zimmermann, Bettina Jung, Carsten A. Böger, Iris M. Heid, Stefan Stadler

2516 **A novel multicomponent grading system for obstructive sleep apnoea severity applied in the ESADA cohort**
Simon Dominik Herkenrath (Köln, Germany), Winfried Randerath, Marcel Treml, Ludger Grote, Jan Hedner, Maria R Bonsignore, Jean-Louis Pépin, Silke Ryan, Sofia Schiza, Johan Verbraecken, Walter T Mcnicholas, Athanasia Pataka, Pawel Sliwinski, Ozen K Basoglu

2517 **A complex network approach for gender phenotyping of patients with obstructive sleep apnea syndrome**
Stefan A. Mihaicuta (Timisoara (Timis), Romania), Alexandru Topirceanu, Mihai Udrescu, Lucretia Udrescu

2518 **Association between obstructive sleep apnea and cancer in men in the general population after 20 years of follow-up**
Carmen Rodriguez Calle (Madrid, Spain), Diurbis Velasco Alvarez, Francisco Xavier Leon Roman, Edwin Mercedes Noboa, Aldara Garcia Sanchez, Eva Mañas Baena, Irene Cano Pumarega

2519 **Sleep disordered breathing (SDB) at moderate altitude and changes after a short period of acclimatization (48 h.)**
Gustavo Juan Samper (Valencia, Spain), Sara Salvador Fernandez, Estrella Fernandez Fabrellas, Rafael Navarro Ivañez, Cristina Navarro Soriano

2520 **Prevalence and Impact of Sleep Disordered Breathing (SDB) in Hospitalized Patients with Heart Failure with Preserved Ejection Fraction (HFpEF)**
Nihal Patel (Columbus, United States of America), Kyle Porter, Joshua Englert, Rami Khayat

Pre-congress content Session 172 00:00 - 23:59

E-poster session: Consequences for obstructive sleep apnoea and potential modalities for early identification

Disease(s) : Sleep and breathing disorders

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

Chairs : Carolina Lombardi (Milano (MI), Italy), Renaud Tamisier (Grenoble, France)

2521 **The role of hepcidin in early diagnostic of atherosclerosis in OSA**
Ventsislava Pencheva Genova (Sofia, Bulgaria), Viktor Manolov, Ognian Georgiev, Vasko Vasilev, Radoslava Emilova, Irena Petrova, Savina Hadjidekova, Marieta Karadjova, M Nikolova, Georgi Angov, I Petrova-Ivanova , Todor Kunchev, Kamen Tzatchev, Latchezar Traykov

2522 **PERIPHERAL ARTERIAL TONOMETRY AND INTIMA MEDIA THICKNESS IN OBSTRUCTIVE SLEEP APNEA.**
Javier Errasti Viader (Pamplona (Navarra), Spain), Maria Teresa Martín Carpi, Jose María Marín Trigo, Victoria Gil, Raquel Langarita

2523 **The clinical significance nocturnal hypoventilation (NH) in patients with severe obstructive sleep apnoea (OSA)**
Shirley Coelho (Viana do Castelo, Portugal), Richard Glover, Alain Al Helou, Mindi Daniels, Vicky Moore, Rahul Mukherjee

2524 **Is there a relationship between sleep apnea and microalbuminuria?**
Melek Cihanbeylerden (Ankara, Turkey), Melike Bağnu Yüceege, Bahar Kurt

2525 **Automated office blood pressure measurement increases prevalence of masked hypertension in patients with obstructive sleep apnoea**
Milan Sova (Olomouc, Czech Republic), Samuel Genzor, Eliska Sovova, Marketa Sovova, Katarina Moravcova, Shayan Nadjarpour

2526 **Optic Nerve Dysfunction in Obstructive Sleep Apnoea-Hypopnoea Syndrome**
Teresa Diaz De Teran Lopez (Santander, Spain), Mónica González, Alfonso Casado, Claudia Nebot, Kimberley Lee, Alicia Lopez De Eguileta, Fabiola Escobar, Marta Cabello, Juan José Ruiz, Marián Martínez, Soraya Fonseca, Carlos Queipo

2527 **Cardiovascular comorbidity by clinical phenotypes of obstructive sleep apnea and sleeping hours**
Anna Torrente Nieto (Reus, Spain), Eric Rojas Calvera, Marta Plana Pes, Anton Obrador Legares, Immaculada Castellà Dagà, Mercè Salvans Sagué, Emili Marco Segarra, Xavier Espuña Capote, Daniela Soledad Torres Scianca, Susana Mota Casals, Marc Comas Cufí, Rafel Ramos Blanes, Ramon Orriols Martinez

2528	**Is Obstructive Sleep Apnea a risk factor for Gestational Diabetes?** Maria Cerda Moncadas (Palma de Mallorca, Spain), Andrea Herranz Mochales, Caterina Ribot Quetglas, Maria Barceló Nicolau, Ainhoa Álvarez Ruiz De Larriaga, Antònia Barceló Bennasar, Amanda Iglesias Coma, Daniel Morell Garcia, Mónica De La Peña Bravo, José Antoio Peña Zarza, Margarita Bosch Artigues, María Paloma Giménez Carrero, Joaquín Durán Cantolla, José María Marín Trigo, Mercedes Codina Marcet, Paula Rodríguez Rodríguez, Carla Pía Martínez, María Concepción Piñas Cebrián, Andrés Sánchez Barón, Alberto Alonso Fernández, Francisco García Río
2529	**Renal function impairment and prediction of sleep apnea in patients with high cardiovascular risk** Stefan A. Mihaicuta (Timisoara (Timis), Romania), Roxana Maria Pleava, Stefan Frent, Carmen Ardelean, Svetlana Mosteoru, Dan Gaita
2530	**Sleep Disordered Breathing association with cardiovascular disease in the French general population** Pauline BALAGNY (Paris, France), Emmanuel Wiernik, Joane Matta, Justine Frija-Masson, Emmanuelle Vidal-Petiot, Philippe Gabriel Steg, Céline Ribet, Marcel Goldberg, Marie Zins, Marie-Pia D'Ortho
2531	**Conicity index as prognostic factor of major cardiovascular events in obstructive sleep apnea** Daniel López-Padilla (Madrid, Spain), José Rafael Terán Tinedo, Milagros Llanos Flores, Elena R. Jimeno, Zichen Ji, Virginia Gallo González, Alicia Cerezo Lajas, Elena Ojeda Castillejo, Soledad López Martín, Luis Puente Maestu
2532	**High CRP plasma levels in OSA patients correlate with high Pichot fatigue scale score** Nikolay Evgeniev (Ruse, Bulgaria), Rumelia Nikolaeva, Nikolay Conev, Ivan Donev
2533	**Serum fibrinogen in patients with obstructive sleep apnea** Kunal Khanderao Deokar (Thane (Maharashtra), India), Sushant Meshram, Gopal Chawla, Nana Kunjir, Chetna Meshram
2534	**Predictors of abnormalities of the right heart chambers evaluated by echocardiography during OSA** Khalil Zayen (Ariana, Tunisia), Houda Snen, Ramy Tlili, Hana Blibech, Jalloul Daghfous, Youssef Ben Ameur, Nozha Ben Salah, Nadia Mhiri, Bechir Louzir
2535	**Prevalence of gastroesophageal reflux symptoms in obstructive sleep apnea** Stefano Pini (Bulgarograsso, Italy), Maurizio Rizzi, Marina Saad, Paolo Gaboardi, Marica Pecis, Dejan Radovanovic, Pierachille Santus
2536	**Moderate-to-severe sleep apnea is associated with elevated amino acid levels in peripheral blood** Ott Kiens (Tartu, Estonia), Viktoria Ivanova, Egon Taalberg, Ketlin Veeväli, Ragne Tamm, Triin Laurits, Birgit Ahas, Martin Juss, Tuuliki Hion, Roman Pihlakas, Kalle Kilk, Ursel Soomets, Alan Altraja
2537	**Relationship between obstructive sleep apnea and human leukocyte antigen variants** Adil Zamani (Konya, Turkey), Ayse Gul Zamani, Sebnem Yosunkaya, Hulya Vatansev , Selman Yildirim
2538	**Metabolic syndrome in moderate to severe obstructive sleep apnea?** Hana Mrassi (Tunis, Tunisia), Samira Mhamdi, Zayen Khalil, Islam Mejri, Mohsen Khadhraoui
2539	**CHARACTERIZATION OF VERY SEVERE SLEEP APNEAS AND ASSESSMENT OF METABOLIC RISK** Glenda Ernst (Ciudad Autónoma Buenos Aires, Argentina), Melina Sabán, Miguel Schiavone, Magali Blanco, Alejandro Salvado, Eduardo Borsini

Pre-congress content — Session 173 — 00:00 - 23:59

E-poster session: From pathophysiology to clinical consequences of sleep and breathing disorders

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

Method(s) : Physiology, General respiratory patient care, Respiratory intensive care, Surgery, Cell and molecular biology, Epidemiology

Chairs : Andrea Crespo Sedano (Vallodolid, Spain), Renata L. Riha (Edinburgh (Edinburgh), United Kingdom)

2540	**Impact of sleep-disordered breathing on sternal wound complications after elective coronary artery bypass grafting surgery** Johannes Zilch (Schwandorf, Germany), Maria Tafelmeier, Simon Lebek, Stephan Hirt, Bernhard Floerchinger, Daniele Camboni, Marcus Creutzenberg, Florian Zeman, Christof Schmid, Lars S. Maier, Stefan Wagner, Michael Arzt
2541	**Sleep perception in obstructive sleep apnoea: Is it worth to ask?** Bruno de Aguiar Mendes (Lisboa, Portugal), Carlos Lopes Figueiredo, Mariana Calheiros Cabral, Maria Alexandra Mineiro, Ricardo Luiz De Menezes Duarte, João Almeida Cardoso, Flávio José Magalhães Da Silveira
2542	**Performance of Brief ICF-Sleep Disorders and Obesity Core Set in OSA Patients** Liang Xie (Shanghai, China), Shanqun Li

2543 **Association between sleep hours and cardiovascular-cerebrovascular morbidity, mortality and cancer**
Diurbis Josefina Velasco Alvarez (Madrid, Spain), Carmen Rodriguez Calle, Andrea Perez Figuera, Beatriz Pintado Cort, Francisco Xavier Leon Roman, Edwin Mercedes Noboa, Laura Pozuelo Sanchez, Aldara Garcia Sanchez, Eva Mañas Baena, Patricia Druet Toquero, Olga Mediano San Andrés, Carlos Egea Santaolalla, Joaquin Durán Cantolla, Alfonso Muriel García, Irene Cano Pumarega

2544 **Influence of Obstructive Sleep Apnea on systemic inflammation in pregnancy**
Maria Cerda Moncadas (Palma de Mallorca, Spain), Andrea Herranz Mochales, Caterina Ribot Quetglas, Maria Barceló Nicolau, Ainhoa Álvarez Ruiz De Larriaga, Antònia Barceló Bennasar, Amanda Iglesias Coma, Daniel Morell Garcia, Mónica De La Peña Bravo, José Antonio Peña Zarza, Margarita Bosch Artigues, María Paloma Giménez Carrero, Joaquín Durán Cantolla, José María Marín Trigo, Mercedes Codina Marcet, Paula Rodríguez Rodríguez, Carla Pía Martínez, María Concepción Piñas Cebrián, Andrés Sánchez Barón, Alberto Alonso Fernández

2545 **Obstructive Sleep Apnea causes negative impact on parasympathetic modulation of patients with COPD**
Patrícia Camargo (Araraquara, Brazil), Luciana Di Thommazo-Luporini, Rayane Sebold, Cássia Goulart, Polliana Santos, Renan Marinho, Audrey Borghi-Silva

2546 **Structural cardiac changes during REM and non-REM sleep in patients with myocardial infarction.**
Elvira Bondia Real (Valencia, Spain), Jose Gavara, César Navarro, Vicente Bodí, María Pilar Bañuls, Paolo Racugno, María Pilar López-Lereu, Jose Vicente Mommeneu, Claudia Heras, Jaime Signes

2547 **Echocardiography findings in patients with obstructive sleep apnea syndrome**
Touil Imen (Mahdia, Tunisia), Keskes Boudawara Nadia, Bouchareb Soumaya, Ibn Hadj Amor Hassen, Chebbi Riheb, Hasnaoui Mohamed Taha, Ben Rhouma Chaima, Nemsi Elaa, Romdhani Raja, Bouchnak Iskander, Knani Jalel, Boussoffara Leila

2548 **Evaluation of the executive functions of the brain in adult patients with obstructive sleep apnea syndrome**
Ourania Kotsiou (Larissa, Greece), Dimitra Siachpazidou, Chaido Pastaka, Nicholas-Tiberio Economou, Chrissi Hatzoglou, Vasileios Stavrou, Evdoxia Gogou, Charalampos Varsamas, George Seitanidis, Konstantinos Gourgoulianis

2549 **Sleep-induced HRV changes and OSA in the ESADA cohort**
Carolina Lombardi (Milano (MI), Italy), Andrea Faini, Paolo Castiglioni, Elisa Perger, Ludger Grote, Johan Verbraecken, Gianfranco Parati

2550 **Prevalence of obstructive sleep apnea in patients weaned from prolonged mechanical ventilation**
barbara fusar poli (pavia, Italy), Cecilia Burattini, Cinzia Lastoria, Nicolino Ambrosino, Piero Ceriana, Annalisa Carlucci

2551 **Impact of obstructive sleep apnea and CPAP treatment on mortality and cardio and cerebrovascular consequences in men of the general population after 20 years of follow-up.**
Beatriz Pintado Cort (Madrid, Spain), Andrea Pérez Figuera , Carmen Rodríguez Calle , Diurbis Velasco Alvarez, Francisco Xavier León Román , Edwin Mercedes Noboa , Laura Pozuelo Sánchez , Aldara García Sánchez , Eva Mañas Baena , Carlos Egea Santaolalla , Joaquín Durán Cantolla , Alfonso Muriel, Irene Cano Pumarega

2552 **Impact of nocturnal oximetry on mortality and cardiovascular consequences in the general population after 20 years of follow up**
Andrea Carolina Perez Figuera (Madrid, Spain), Beatriz Pintado, Diurbis Velasco, Carmen Rodriguez, Aldara García, Eva Mañas, Carlos Egea, Irene Cano Pumarega

Pre-congress content Session 174 00:00 - 23:59

E-poster session: From respiratory physiology to diagnosis and treatment

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

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

Chairs : Danilo Cortozi Berton (Porto Alegre (RS), Brazil), Pierantonio Laveneziana (Paris, France)

2553 **Comparison of low-dose CT image registration-based metrics of regional ventilation distribution with global lung function and diffusion capacity in COPD patients**
Sam Bayat (Grenobe, France), Ludovic Broche, Mohammed Machichi, Sébastien Bailly, Bruno Degano, Renaud Tamisier, Gilbert R. Ferretti, Jean-Louis Pépin

2554 **The “right way” to the left chamber in non-severe chronic obstructive pulmonary disease**
Radostina Cherneva (Sofia, Bulgaria), Dimitur Kostadinov, Zheyna Cherneva

2555 **Role of lung hyperinflation on cardiac function during acute exacerbations of COPD**
Andrea Cristiano (Peschiera Borromeo (MI), Italy), Maurizio Rizzi, Dejan Radovanovic, Chiara Di Simone, Giuseppe Croce, Giangiuseppe Negretto, Pierachille Santus

2556 **Bronchodilator acutely reduces expiratory flow limitation during exercise in COPD demonstrated by dynamic hyperinflation, flow-volume curve analysis and impulse oscillometry**
Janos Porszasz (Torrance, United States of America), Min Cao, Fang Lin, Wei Yuan, Robert Calmelat, Harry Rossiter, Richard Casaburi, William Stringer

2557 **Respiratory muscle perfusion limitations and dyspnoea during cycling in chronic obstructive pulmonary disease**
Zafeiris Louvaris (Leuven, Belgium), Dacha Sauwaluk, Antenor Rodrigues, Wim Janssens, Rik Gosselink, Daniel Langer

2558 **A frame of reference for assessing the intensity of exertional dyspnoea during incremental cycle ergometry in men and women, aged 20 to 85**
J. Alberto Neder (Kingston (ON), Canada), Danilo Berton, Luiz Nery, Denis O'Donnell

2559 **Longitudinal follow-up of older former smokers reveals rapid decline in muscle oxidative capacity and physical activity**
Alessandra Adami (Kingston, United States of America), Harry B. Rossiter, Fenghai Duan, Robert A. Calmelat, Kelsey Williams, Richard Casaburi

2560 **Transcutaneous PCO2-based dead space ventilation is highly accurate to discriminate COPD patients from healthy controls at submaximal exercise**
Laurent Plantier (Tours Cedex 9, France), Thibault Leprat, Fabrice Ivanes, Marchand-Adam Sylvain

2561 **High altitude affects the heart**
Camilla Udjus (Oslo, Norway), Torbjørn Tunestveit, Pavel Hoffmann, Ivar Sjaastad, Karl-Otto Larsen, Ole Henning Skjønsberg, Ulla Hjørnholm, Morten Rostrup

2562 **Identifying a criterion heart rate recovery after 6 minute walk in COPD**
Dongxing Zhao (GUANGZHOU, China), Dongxing Zhao, Asghar Abbasi, Alessandra Adami, Christopher Yee, Nicholas B. Tiller, Wei Yuan, William W. Stringer, Janos Porszasz, Richard Casaburi, Barry J. Make, Russell P.. Bowler, Harry B. Rossiter

2563 **Dynamic hyperinflation, chronotropic intolerance and abnormal heart rate recovery in non-severe chronic obstructive pulmonary disease patients-reflections in the mirror**
Radostina Cherneva (Sofia, Bulgaria), Dimitur Kostadinov, Zheyna Cherneva

2564 **Sleep stages automatically scored from mandibular movement signal recorded by a unique chin sensor**
NHAT-NAM LE-DONG (Sorinnes, Belgium), Jean Louis Pépin, Clément Letesson, Antoine Dedave, Valérie Cuthbert, Jean Benoit Martinot

2565 **The sleepy phenotype in mild OSA patients: characteristics and their cardiometabolic risk. Data from the European Sleep Apnea Data Base (ESADA)**
Izolde Bouloukaki (Heraklion (Crete), Greece), Marisa Bonsignore, Ludger Grote, Walter Mcnicholas, Jan Hedner, Johan Verbraecken, Silke Ryan, Carolina Lombardi, Ozen Basoglu, Athanasia Pataka, Oreste Marrone, Sebastien Bailly, Jean-Louis Pepin, Paschalis Steiropoulos, Sophia Schiza

2566 **Transcutaneous electric stimulation: an alternative to CPAP**
Jose Belda Ramirez (Mislata (Comunidad Valenciana), Spain), Jose Belda, Vicente Macian

2567 **Sleep apnoea is not associated with the presence of coronary collaterals in patients with pending bypass surgery**
Verena Stallhofer (Regensburg, Germany), Michael Arzt, Maria Tafelmeier, Stephan Hirt, Daniele Camboni, Bernhard Floerchinger, Stefan Stadler

2568 **Can we increase CPAP compliance by performing a CPAP trial?**
Elif Torun Parmaksiz (Istanbul, Turkey), Gizem Türkeş, Gülten Aktın Güngör, Nesrin Kıral, Coşkun Doğan, Sevda Cömert

Pre-congress content Session 175 00:00 - 23:59

E-poster session: Physiological and cellular mechanisms affecting pulmonary pathologies

Disease(s) : Respiratory critical care | Interstitial lung diseases | Airway diseases | Sleep and breathing disorders

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

Chairs : Pieter S. Hiemstra (Leiden, Netherlands), Maria Granados Santiago (Alcaudete, Spain)

2569 **Correlation of bronchial inflammation pattern and airway response to cold stimulus in patients with uncontrolled asthma**
Juliy M. Perelman (Blagoveshchensk (Amur Oblast), Russian Federation), Aleksey B Pirogov, Anna G. Prikhodko, Victor P. Kolosov, Andrey N. Odireev

2570	**Are genetic defects of dienin a key link in the pathogenesis of COPD?** Vyacheslav Kobylyansky (Moscow, Russian Federation)
2571	**State of the cellular components of the surfactant system in case of experimental diabetes mellitus.** Yuliya Fedorchenko (Ivano-Frankivsk, Ukraine), Lubomyr Zaiats
2572	**Influence of nutritional features on the generation of reactive oxygen species in the lungs** Igor A. Klimanov (Moscow, Russian Federation), S.K. Soodaeva, E.A. Zaprudnova , M.A. Frolova, T.V. Li, L.Yu Nikitina, M.V. Glukhova, N.A. Popova, N.I. Kubysheva
2574	**PURINERGIC SIGNALING AND LYMPHOID ORGANS ARE INVOLVED IN THE BENEFICIAL EFFECTS OF AEROBIC TRAINING IN ASTHMA** Rodolfo De Paula Vieira (Sao Jose Dos Campos (SP), Brazil), Manoel C. Oliveira-Junior, Alana Santos-Dias
2575	**Absence of P2X2 purinergic receptors in human taste bud innervation** Thomas Finger (Aurora, United States of America), Brigit High
2576	**DYNAMICS OF GLUTATION SYSTEM INDICATORS IN CHRONIC LUNG DISEASES ON MODEL INHALED TREATMENT** Lilia Todoriko (Chernivtsi, Ukraine), Mykola Humenyuk, Ihor Semianiv, Tania Sprynsian
2577	**Identifying the impact of donor-origin on the therapeutic potential of umbilical cord MSCs to attenuate lung injury in a hyperoxic rodent model of bronchopulmonary dysplasia.** Chanèle Cyr-Depauw (Ottawa (ON), Canada), Arul Vadivel, David Cook, Ivana Mižíková, Laurent Renesme, Yupu Deng, Shumei Zhong, Marius Alexander Möbius, Bernard Thébaud
2578	**Physiological and Immunological Effects of Naïve and Pre-Activated Mesenchymal Stromal Cells in Klebsiella Pneumoniae-Induced Sepsis in Rats** Claire Masterson (Galway (Co Galway), Ireland), Declan Byrnes, Hector Gonzalez, Daniel O'Toole, Sean Mccarthy, Shahd Horie, Jack Brady, John Laffey
2579	**Therapeutic potential of mesenchymal stem cells to attenuate immune cell tolerance in a late stage model of sepsis** Declan Byrnes (Galway (County Galway), Ireland), Claire Masterson, Shahd Horie, Jack Brady, Hector Gonzalez, Sean Mccarthy, Daniel O'Toole, John Laffey
2580	**Stromal cell diversity and functions in lung epithelial regeneration** Paris Papagianis (Melbourne, Australia), Jonathan Mcqualter
2581	**Activation of WNT co-receptor LRP5 is required for WNT and TGF-ß1 induced fibroblast activation** Ewa Kolosionek (Göteborg, Sweden), Rajneesh Malthotra, Henric Olsson, Stephen Delaney
2583	**c-Met expression induction in immune cells modulates pulmonary fibrosis progression** Catarina Barbosa-Matos, Caroline Borges-Pereira, Sofia Libório-Ramos, Massimiliano Mazzone, Sandra Costa
2584	**¿Idiopathic pulmonary fibrosis or interstitial lung disease associated to connective tissue diseases? Endothelial progenitor cells as a potential tool for the differential diagnosis** Verónica Pulito-Cueto (Santander, Spain), Sara Remuzgo-Martínez, Fernanda Genre, Victor M. Mora Cuesta, David Iturbe Fernández, Sonia M. Fernandez Rozas, Leticia Lera-Gómez, Pilar Alonso Lecue, Javier Rodriguez-Carrio, Belén Atienza-Mateo, Virginia Portilla, Ricardo Blanco, Alfonso Corrales, Raquel Lopez-Mejías, Miguel A. González-Gay, Jose M. Cifrián
2585	**Stress protein expression in lung fibroblasts and BAL cells in COPD patients and healthy subjects.** Martin Ryde (Lund, Sweden), Nicole Van Der Burg, Julie Weidner, Jaro Ankerst, Gunilla Westergren-Thorsson, Leif Bjermer, Ellen Tufvesson
2586	**Role of the kinase-dependent functions of RIPK1 in COPD** Hannelore Van Eeckhoutte, Yves Dondelinger, Tom Delanghe, Peter Vandenabeele, Guy G. Brusselle, Mathieu J.M. Bertrand, Ken R. Bracke
2587	**Combined genome-wide transcriptomic and epigenetic profiling across disease stages identifies novel regulators of COPD in human lung fibroblasts** Renata Jurkowska (Cardiff (Wales), United Kingdom), Uwe Schwartz*, Maria Llamazares*, Stephanie Pohl, Mandy Richter, Michael Schuler, Corinna Keller, Vedrana Mijosek, Thomas Muley, Karsten Quast, Joschka Hey, Claus Peter Heußel, Arne Warth, Giuseppe Petrosino, Raluca Tamas, Dieter Weichenhan, Benedikt Brors, Vladimir Benes, Felix Hearth, Dawid Wyatt, Heiko Stahl, Christoph Plass
2588	**LSC - 2020 - The lung DNA methylation profile of patients with COPD: relationship with smoking and airflo w limitation severity.** Sandra Casas Recasens (Barcelona, Spain)

5382 **LSC - 2020 - Extracellular vesicles produced by bronchial epithelial cells in response to oxidative stress contain micr o-RNAs associated with senescence**
Justine Devulder (London, United Kingdom), Justine Devulder, Jonathan R Baker, Louise E Donnelly, Peter J Barnes

Pre-congress content Session 176 00:00 - 23:59

E-poster session: Prevalence and incidence of chronic lung diseases

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

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

Chairs : Lydia Finney (London, United Kingdom), Sundeep Santosh Salvi (Pune (Maharashtra), India)

2589 **The first years of the Swedish National Airway register**
Caroline Stridsman (Luleå, Sweden), Jon Konradsen, Lowie Vanfleteren, Christophe Pedroletti, Jonas Binnmyr, Peter Edfelt, Yvonne Sjöö, Kerstin Fjällman-Schärberg, Ann Lindberg, Alf Tunsäter, Ann Ekberg Jansson

2590 **Current state of respiratory disease in Suriname, a retrospective analysis of 4987 hospital files**
Jessica de Vries (Paramaribo, Suriname), Fitzgerald Gopie, Martijn Spruit, Jerry Toelsie

2591 **Effect of non-response on prevalence of respiratory symptoms in the West Sweden Asthma Study.**
Eivind Christian Borna (Moss, Norway), Cathrine Gennert Jakobsson, Bright Nwaru, Bo Lundbäck, Linda Ekerljung

2592 **Frequency of eosinophilic granulomatosis with polyangiitis in Europe by meta-analysis**
Rupert Jakes (London, United Kingdom), Namhee Kwon, Rebecca Goulding, Beth Nordstrom, Kyle Fahrbach, Melissa Van Dyke

2593 **Association between chronic obstructive pulmonary disease and endometriosis: a population-based cohort study**
Yi-Hao Peng (Taichung, Taiwan)

2594 **Prevalence of COPD in women in Tizi-Ouzou, Algeria**
Nadia Hammache (Alger, Algeria), Salim Nafti, Rachid Abdellaziz

2595 **Towards Optimum Reporting of Pulmonary Effectiveness Databases and Outcomes (TORPEDO): a modified Delphi exercise to identify a core dataset for asthma and COPD studies**
Job F.M. van Boven (Groningen, Netherlands), Sarah Lucas, Gary Parker, Katia Verhamme

2596 **SCREENING FOR UNDERDIAGNOSED CHILDHOOD ASTHMA IN BATUMI (GEORGIA)**
Grzegorz Brożek (Katowice, Poland), Vakhtang Beridze, Tamar Bakhtadze, Sophio Beridze, Megi Khabazi, Jan Zejda

2597 **Asthma program evaluation: Impact of tertiary Asthma Care Network on ED visits and hospitalizations**
Diane Lougheed (Kingston (ON), Canada), Delanya Podgers, Marlo Whitehead, Shelly Wei, Genevieve Digby, Teresa To, Andrea Gershon

2598 **Intraoperative ventilation management differs between genders – insights from a worldwide prospective cohort study**
Sunny Nijbroek (Amsterdam, Netherlands), Ary Serpa Neto, Sabrine Hemmes, Marcus Schultz

2599 **Discordant perception of global health between COPD outpatients and their physicians – real world data from the CLARA project**
Andreas Horner (Kirchschlag bei Linz, Austria), Otto C Burghuber, Sylvia Hartl, Michael Studnicka, Monika Merkle, Horst Olschewski, Bernhard Kaiser, Eva Maria Wallner, Bernd Lamprecht

2600 **Comparison of five major airflow limitation criteria to identify high-risk individuals with COPD in the general population**
Shoaib Afzal (Herlev, Denmark), Yunus Çolak, Børge G. Nordestgaard, Jørgen Vestbo, Peter Lange

2601 **Trends of asthma incidence over 80 years in Europe: preliminary results from the Ageing Lungs in European Cohorts (ALEC) study**
Simone Accordini (Verona (VR), Italy), Pierpaolo Marchetti, Alessandro Marcon, Giancarlo Pesce, Lucia Calciano, Christer Janson, Deborah Jarvis, Nicole Probst-Hensch, Cecilie Svanes, Giuseppe Verlato, Cosetta Minelli

2602 **European Trends in Chronic Obstructive Pulmonary Disease Mortality and Incidence rates 2001 to 2017**
Dominic Marshall (Oxford (Oxfordshire), United Kingdom), Justin Salciccioli, Peter Dobson, Fan Chung

2603 **The prevalence of COPD among lowlanders and highlanders in the Kyrgyz Republic.**
Meerim Cholponbaeva (Bishkek, Kyrgyzstan), Abdirashit Maripov, Almaz Akunov, Nursultan Baktybek, Nadira Kushubakova, Samat Satybaldyev, Kubat Muratali Uulu, Zhaynagul Kerimbekova, Gulira Kamal Kyzy, Akpay Sarybaev

2604 **Asthma and Ethnicity: Difference between the Galilee's Israeli Arabs and Jews in the Prevalence of Asthma Phenotypes – Eosinophilic Asthma and Asthma with Obesity**
Anat Amital (Nesher, Israel), Moran Braitstein

2605 **Prevalence of COPD in Nepal: findings from a community-based study >**
Tara Ballav Adhikari (Kathamndu, Nepal), Dinesh Neupane, Arjun Karki, Martin Rune Hassan Hansen, Arne Drews, Brendan Cooper, Marieann Högman, Torben Sigsgaard, Per Kallestrup

2606 **Asthma in Finnish competitive cross-country skiers**
Rikhard Mäki-Heikkilä (Tampere, Finland), Jussi Karjalainen, Jari Parkkari, Maarit Valtonen, Lauri Lehtimäki

2607 **Prevalence and factors associated with severe asthma among preschool children of rural Sri Lanka**
Shashanka Indeevara Rajapakse Rajapakse Mudiyanselage (Kandy, Sri Lanka), Lakmali Amarasiri, Duminda Yasaratne, Janith Warnasekara, Suneth Agampodi

2608 **Long-term trends in lung cancer incidence in non-smokers: a UK-based cohort study of 3.7 million people**
Laura Horsfall (London, United Kingdom), Greta Rait

Pre-congress content Session 177 00:00 - 23:59

E-poster session: Advances in asthma treatment

Disease(s) : Airway diseases

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

Chairs : Lies Lahousse (Ghent, Belgium)

2609 **Late Breaking Abstract - BENRALIZUMAB IN SEVERE ASTHMA: PRELIMINARY RESULTS FROM THE ITALIAN ANANKE STUDY**
Girolamo Pelaia (Tiriolo (CZ), Italy), Maria D'Amato, Pierluigi Bracciale, Elena Altieri, Maria Filomena Caiaffa, Fausto De Michele, Micaela Romagnoli, Elena Ansaldo, Giorgio Walter Canonica

2610 **Late Breaking Abstract - Defining a severe asthma super-responder: findings from a Delphi process**
John Upham (Brisbane (QLD), Australia), Chantal Le Lievre, David Jackson, Matthew Masoli, Michael Wechsler, David Price

2611 **Late Breaking Abstract - Pharmacological and clinical management of severe asthma in 9 countries: An international survey of clinicians.**
Olina Efthymiadou (London, United Kingdom), Bregtje Kamphuis, Victoria Tzouma, Panos Kanavos

2612 **Real life benralizumab effect in patients with severe eosinophilic asthma after 16 weeks of observation**
Elda Graziani (Fiumicino (RM), Italy), Arianna Sanna, Paola Scarano, Ilaria Menichini, Cecilia Cisternino, Roberto Flore, Corina Tomsa, Paolo Palange

2613 **Does use of hormonal contraceptives impact on exacerbations and control in reproductive-age women with asthma? A 17-year population-based cohort study**
Syed Ahmar Shah (Edinburgh, United Kingdom), Holly Tibble, Rebecca Pillinger, Susannah Mclean, Dermot Ryan, Hilary Critchley, David Price, Catherine M Hawrylowicz, Colin R Simpson, Ireneous N Soyiri, Francis Appiagyei, Aziz Sheikh, Bright Nwaru

2614 **Inter-rater reliability of a novel algorithm to calculate Global Initiative for Asthma (GINA) treatment steps**
Karen Hjerrild Andreasson (Næstved, Denmark), Trine Hjerrild Andreasson, Charlotte Suppli Ulrik, Kirsten Sidenius, Søren T Skou, Mike Thomas, Uffe Bodtger

2615 **DETERMINE THE OPTIMAL TIME TO ASSESS THE REVERSIBILITY OF THE LIMITATION TO AIRFLOW**
Andrea Carolina Perez Figuera (Madrid, Spain), Diurbis Velasco, Raquel Morillo, Aurora Solier, Carlos Almonacid

2616 **Effect of ABPA treatment in severe asthma patients with acute and relapsed disease**
Caterina Bucca (Torino (TO), Italy), Luisa Brussino, Irene Ridolfi, Francesca De Blasio, Stefania Nicola, Giovanni Rolla

2617 **Patient preferences for asthma management: a qualitative study**
Christina Baggott (Wellington, New Zealand), Amy Chan, Sally Hurford, James Fingleton, Richard Beasley, Matire Harwood, Helen Reddel, William Levack

2618 **Influence of asthma treatment during pregnancy on fetal biometry.**
Maria Barca Hernando (Sevilla, Spain), Diana Ramos Apoyala, María Auxiliadora Romero Falcón, Juan Francisco Gallardo Medina, Francisco Javier Álvarez Gutiérrez

2619	**SNPs in asthma patients: gender difference in anti-leukotriene therapy** Giuseppe Spaziano (Napoli (NA), Italy), Renata Esposito, Davida Mirra, Elena Piegari, Antonietta Rossi, Fiorentina Roviezzo, Luca Gallelli, Liberato Berrino, Bruno D'Agostino
2620	**THE IMPACT OF REFLEXOLOGY AND HOMEOPATHY ADDED TO CONVENTIONAL ASTHMA TREATMENT ON MARKERS OF AIRWAY INFLAMMATION– A RANDOMISED STUDY** Ayfer Topcu (Aarhus, Denmark), Anders Løkke Ottesen , Leila Eriksen, Lars Peter Nielsen , Ronald Dahl
2621	**Bronchial thermoplasty in Thailand: 3-year experience in real-world practice** Vorawut Thanthitaweewat (Bangkok, Thailand), Nophol Leelayuwatanakul, Thitiwat Sriprasart
2622	**Study to evaluate clinical burden related with oral corticosteroids treatment of severe asthma in Spain (LEVANTE)** Xavier Munoz Gall (Barcelona, Spain), Javier Dominguez Ortega, Silvia Pascual Erquicia, Carlos Cabrera Lopez, Cecilia Jacqueline Martin Panadero, Gema Monteagudo Ruiz, Gustavo Resler
2623	**Prescribing Trends of Oral Corticosteroids Among Young Adults with Active Asthma** Inge Skov (Odense, Denmark), Daniel Pilsgaard Henriksen, Anton Pottegård, Hanne Madsen, Jesper Rømhild Davidsen
2624	**Prevalence of alpha1-antitrypsin deficiency and its influence on lung function decline in patients with severe asthma** Gabriella Guarnieri (Padova (PD), Italy), Andrea Vianello, Beatrice Molena, Nicola Malacchini, Fulvia Chieco Bianchi, Ilaria Ferrarotti, Marco Caminati, Gianenrico Senna
2625	**Rates of major cardiovascular events in severe asthma: US real-world and clinical trial populations** Parul Dayal (South San Francisco, United States of America), Dorothy Cheung, Carlos Iribarren, Michael Rothenberg, Yingjie Ding, C. Victor Spain
2626	**The profile of poor ICS adherence in uncontrolled moderate to severe asthma.** Laurien Keulers (LEEUWARDEN, Netherlands), Kim De Jong, Anneke Ten Brinke, Akke-Nynke Van Der Meer
2627	**Effectiveness of Nebulized Budesonide in Iranian Patients with Asthma Attack** Atefeh Abedini (Tehran, Islamic Republic of Iran), Arda Kiani, Fatemeh Razavi, Mehrdad Farahani, Negar Bandegani, Javad Valizadeh, Habib Emami
2628	**Systematic review of the comparison between adrenaline (epinephrine) and selective ß2-agonist in the setting of adults or children with acute asthma** James Fingleton (Wellington, New Zealand), Christina Baggott, Jo Hardy, Jenny Sparks, Donah Sabbagh, Richard Beasley, Mark Weatherall

Pre-congress content — Session 178 — 00:00 - 23:59

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

Disease(s) : Airway diseases, Respiratory critical care

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

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

2629	**Late Breaking Abstract - Short-acting ß2-agonist use in asthma in Western societies** Jennifer Quint (Wimbledon, United Kingdom), Sofie Arnetorp, Christer Janson, Silvia Boarino, Jan Willem Kocks, Ileen Gilbert, Maciej Kupczyk, Javier Nuevo, Njira Lucia Lugogo, Erika Penz, Santiago Quirce, Chantal Raherison-Semjen, Ralf Van Der Valk
2630	**Late Breaking Abstract - The humanistic burden of asthma patients uncontrolled on ICS-LABA: a systematic literature review** Alexandrosz Czira (Brentford, United Kingdom), Amber Martin, Monica Turner, Wilhelmine Meeraus, Helen Birch, Shiyuan Zhang
2631	**CAPTAIN: Effects of age on response to triple therapy in patients with inadequately controlled asthma on ICS/LABA** Louis-Philippe Boulet (Québec (QC), Canada), Laurie Lee, Huib Kerstjens, Alberto Papi, Agne Zarankaite, Ian D Pavord, Zelie Bailes, Guy Brusselle, Neil Barnes, Nicola A Hanania, Steven Pascoe, John Oppenheimer, Emilio Pizzichini, Andrew Fowler
2632	**As needed therapies in mild to severe asthma: a systematic review and network meta-analysis** Paola Rogliani (Roma (RM), Italy), Beatrice Ludovica Ritondo, Josuel Ora, Mario Cazzola, Luigino Calzetta
2633	**Overuse of short-acting beta-agonists (SABA) and risk factors among patients with asthma** Heinrich Worth (Cadolzburg, Germany), Carl-Peter Criée, Claus Vogelmeier, Peter Kardos, Eva-Maria Becker, Karel Kostev , Ingo Mokros, Andrea Schneider

2634	**Lower ICS dose effect on symptoms and rescue medication use of indacaterol/glycopyrronium/mometasone (IND/GLY/MF) medium-dose vs salmeterol/fluticasone (Sal/Flu) high-dose plus tiotropium (Tio): ARGON study** Christian Gessner (Leipzig, Germany), Oliver Kornmann, Jorge Maspero, Richard Van Zyl-Smit, Matthias Krüll, Agustín Sojo, Anna Salina, Pritam Gupta, Lorena Garcia Conde
2635	**Adherence to FDC Budesonide/Formoterol treatment and lung function of Greek asthmatic patients–COMPLETE study** Despoina Simantiraki (Attica, Greece), Nikoletta Rovina, Nikolaos Grekas, Polyanthi Papanastasiou, Aikaterini Athanassiou, Alexandros Ginis
2636	**Long-term adherence to inhaled corticosteroids and asthma control in adult-onset asthma** Iida Vähätalo (Tampere, Finland), Hannu Kankaanranta, Leena Esteri Tuomisto, Onni Niemelä, Lauri Lehtimäki, Pinja Ilmarinen
2637	**Effect of triple therapy with extra-fine BDP/FF/GB pMDI during seasonal peaks of asthma exacerbations. A post-hoc analysis of the TRIMARAN and TRIGGER studies** Alberto Papi (Ferrara, Italy), Dave Singh, Christian J Virchow, Maxim Kots, Andrea Vele, George Georges, Giorgio W. Canonica
2638	**Predictors of excessive short-acting beta2-agonist use and asthma exacerbations: a retrospective analysis of a Polish prescription database.** Maciej Kupczyk (Lodz, Poland), Maciej Kupczyk, Wojciech Barg, Grażyna Bochenek, Grzegorz Brożek, Dorota Brzostek, Piotr Dąbrowiecki, Andrzej Dąbrowski, Rafał Dobek, Radosław Gawlik, Aleksandra Kucharczyk, Izabela Kupryś-Lipińska, Agnieszka Mastalerz-Migas, Edyta Zagrajek, Marek L Kowalski
2639	**Adherence to 6-month FDC Budesonide/Formoterol treatment and Quality of Life in Greek asthmatic patients-COMPLETE study** Despoina Simantiraki (Attica, Greece), Nikoletta Rovina, Nikolaos Grekas, Aikaterini Papataxiarchou, Aikaterini Athanassiou, Alexandros Ginis
2640	**Prescription behaviour of short-acting ß2-agonists in Switzerland** Claudio Schuoler (Zug, Switzerland), Claudia Steurer-Stey, Elke Ullmer, Romeo Providoli, Vitaly Chicherov, Maria Korobeynikova, Stefan Wetzel, Gunther Pendl
2641	**The effect of inhaled corticosteroids on airway hyperresponsiveness to mannitol in patients with Type 2 low asthma** Morten Hvidtfeldt (København V, Denmark), Alexis Pulga, Asger Sverrild, Morten Hostrup, Caroline Sanden, Ole B Nielsen, Daisy Bornesund, Carl-Magnus Clausson, Jonas S Erjefält, Celeste Porsbjerg
2642	**Change in asthma management recommendations is associated with reduction of reliever drugs in the real-world setting: a longitudinal retrospective claims data analysis in Burgenland** Marko Todorovic (Sokobanja, Republic of Serbia), Berthold Reichard, Michael Wolzt, Georg Duftschmid, Daniel Doberer
2643	**Efficacy and safety of as-needed corticosteroid plus fast or short-acting beta-agonists monotherapy in patients with mild asthma: a meta-analysis of randomised controlled trials.** Carla Emille Barbon (MANILA, Philippines), Lenora Fernandez
2644	**(in)Appropriate LAMA Prescribing in Asthma patients: a Cohort Analysis (the ALPACA study)** Esmé J. Baan (Rotterdam, Netherlands), Christina E. Hoeve, Maria A. J. De Ridder, Leis Demoen, Lies Lahousse, Katia M. C. Verhamme, Guy G. Brusselle
2645	**Adhesion to inhaled treatment in patients with asthma and COPD** Jacinto Hernandez Borge (Badajoz, Spain), Jacinto Hernandez Borge, María Teresa Gómez Vizcaino, Sebastian Hernández Gómez, Amparo Sanz Cabrera, María José Antona Rodriguez

Pre-congress content — Session 179 — 00:00 - 23:59

E-poster session: Clinical and functional evaluation of asthmatics

Disease(s) : Airway diseases

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

Chairs : Florence Schleich (Liège, Belgium), Deimante Hoppenot (Kaunas, Lithuania)

2646	**Assessment of asthma morbidity by US patients, specialists, Asthma Control Test™, and Asthma Impairment and Risk Questionnaire™** Kevin Murphy (London, United Kingdom), Robert S. Zeiger, David A. Beuther, Joan Reibman, Robert A. Wise, William Mccann, Ileen Gilbert, James M. Eudicone, Hitesh N. Gandhi, Karin S. Coyne, Melissa Ross, Maureen George, Bradley Chipps

2647	**Spirometry vs Impulse oscillometry in evaluation of children with asthma.** Varun Garg (New Delhi, India), Ankit Parakh
2648	**Bronchodilation test: Salbutamol or Ipratropium Bromide?** Liliana Raposo (Queijas, Portugal), Raquel Barros, Ana Sofia Oliveira, João Valença, Cristina Bárbara
2649	**Analysis of pollen composition and connection with sensitization of residents of Tashkent city** Elnara Ismailova (Tashkent, Uzbekistan), Stefania Katsamaki, Nigora Magbulova, Yuliya Levickaya, Gulnara Djambekova, Mokhigul Ismatova, Xonsuluv Sokhibnazarova, Mirzakamol Ayubov, Victoriya Garib
2650	**Predictors of asthma non control** Houda Snène (Tunis, Tunisia), Hana Blibech, Meriem Ben Rhouma, Asma Zaafouri, Donia Belkhir, Line Kaabi, Nadia Mehiri, Nozha Ben Salah, Bechir Louzir
2651	**The correlation of Fractional Exhaled Nitric Oxide (FeNO) level with the absolute Eosinophil count and level of Bronchial Asthma control: A prospective cross sectional study** Jamaica Ross David (Quezon CIty, Philippines)
2652	**Seasonal fluctuations in lung function and asthma control in patients with airway osmotic hyperresponsiveness** Evgenia Y. Afanaseva (Blagoveshchensk (Amur Oblast), Russian Federation), Anna G. Prikhodko, Juliy M. Perelman
2653	**Distribution of ACO among the Obstructive Airway Diseases (OADs) - 9 month study.** Rajesh Agrawal (Bareilly, India), Rajat Agarwal, Sonia Goel
2654	**Determine the relationship between fraction exhaled nitric oxide (FeNO) and mannitol challenge test in the diagnosis of suspected asthma patients.** Andrea Carolina Perez Figuera (Madrid, Spain), Carlos Almonacid Sanchez, Diurbis Rodríguez Calle Velasco Álvarez, Carmen Rodríguez Calle, Aurora Solier López, Alfonso Muriel García, Raquel Morillo Guerrero
2655	**Socioeconomic Status and Cleaning: Major Factors Affecting Asthma Control** Umran Ozden Sertcelik (Ankara, Turkey), Ebru Celebioglu, Gul Karakaya, Ahmet Ugur Demir , Alı Fuat Kalyoncu
2656	**Influence of asthma on hemodynamic parameters according to volume compression oscillometry.** Anton Shakhanov (Ryazan, Russian Federation), Oleg Uryasev, Irina Nikitina
2657	**Predictors of low-level disease-specific knowledge in patients with chronic obstructive pulmonary disease** Sang Hee Lee (Gunpo, Republic of Korea), Ki Uk Kim, Yun Seong Kim, Hye-Kyung Park, Min Ki Lee
2658	**Sensitization to Salsola kali pollen depends on the age of the patients** Nigora Magbulova (, Uzbekistan), Stefania Katsamaki, Elnara Ismailova, Mokhigul Ismatova, Gulnara Djambekova, Yuliya Levitskaya, Victoriya Garib
2659	**Exploring factors related to physical inactivity in asthma and COPD overlap (ACO)** Tsunahiko Hirano (Ube, Japan), Keiko Doi, Keita Murakawa, Ayumi Chikumoto, Yuichi Ohteru, Kazuki Matsuda, Kazuki Hamada, Ryo Suetake, Yoriyuki Murata, Keiji Oishi, Yoshikazu Yamaji, Maki Asami-Noyama, Nobutaka Edakuni, Tomoyuki Kakugawa, Kazuto Matsunaga
2660	**Characterization of asthma and COPD overlap: a single center study** Davide Piloni (Pavia, Italy), Amelia Grosso, Erica Gini, Federica Albicini, Alice Maria Balderacchi, Rita Di Domenica, Giulia Accordino, Manuela Coretti, Laura Saracino, Vanessa Ronzoni, Angelo Guido Corsico
2661	**EVALUATION OF SYSTEMATIC INFLAMMATION, OXIDATIVE STRESS AND ENDOTHELIAL DISFUNCTION IN COPD, ASTHMATIC AND ACO PATIENTS WITH OBESITY.** Olga Nesterovska (Chernivtsi, Ukraine), Ganna Stupnytska , Oleksandr Fediv , Oksana Prituliak, Iryna Nemish
2662	**Fixed obstruction in asthma patients – does it that matter?** Temenuzhka Ignatova-Danova (Rousse, Bulgaria), Ilia Krachunov, Pavlina Glogovska, Plamen Pavlov, Elena Borisova, Tsanya Popova, Nikolay Kyuchukov, Yavor Ivanov
2663	**Relationship of nutritional status and spirometric parameters in children with bronchial asthma** Igor A. Klimanov (Moscow, Russian Federation), R.N. Khramova, T.I. Eliseeva, E.V. Tush, D.Yu. Ovsyannikov, A.A. Khramov, V.A. Bulgakova , O.V. Khaletskaya, N.I. Kubysheva, S.K. Soodaeva, L.Yu. Nikitina, M.V. Glukhova

Pre-congress content — Session 180 — 00:00 - 23:59

E-poster session: Personalised treatment of obstructive diseases

Disease(s) : Airway diseases | Respiratory critical care

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

Chairs : Thomas Jones (Portsmouth (Hampshire), United Kingdom), Anneke Ten Brinke (Leeuwarden, Netherlands)

2664	**Late Breaking Abstract - Recurrent Neural Networks and environmental data for COPD exacerbation prediction** Cristobal Esteban Gonzalez (Bilbao (Bizkaia), Spain), Francisco Javier Moraza, Pedro García, Amaia Aramburu, Fernando Sancho, Leyre Chasco, José Antonio Gutiérrez, Francisco José Conde, Sergio Resino
2665	**Late Breaking Abstract - Reimbursement for asthma care is a universal barrier to achieving asthma symptom control: the SABINA III study** Eric D. Bateman (Cape Town, South Africa), David B. Price, Hao-Chien Wang, Adel Khattab, Patricia Schonffeldt, Angelina Catanzariti, Ralf J.P. Van Der Valk, Maarten J.H.I. Beekman
2666	**Telehealth vs. standard care in COPD – a randomized controlled trial** Frank Rassouli (Speicher, Switzerland), Florent Baty, Malcolm Kohler, Daiana Stolz, Robert Thurnheer, Thomas Brack, Christian Kähler, Sandra Widmer, Ursina Tschirren, Noriane A Sievi, Michael Tamm, Martin H Brutsche
2667	**Regulatory T cells and L-selectin in severe asthmatic patients treated with mepolizumab.** Laura Bergantini (siena, Italy), Miriana D'Alessandro, Paolo Cameli, Alfonso Carleo, Piersante Sestini, Elena Bargagli
2668	**Identifying subgroups of asthma patients for potential intervention using electronic medication monitors (EMM)** Rahul Gondalia (San Francisco, United States of America), Leanne Kaye, David Van Sickle, David Stempel, Meredith Barrett
2669	**Effect of increasing levels of pressure support (PS) with NIV on diaphragmatic function asessed using ultrasound and to identify indicators of NIV failure in patients of AECOPD with type 2 respiratory failure - Pilot study** Mohammad Nawaz S (Davangere (Karnataka), India), Priya Ramachandran, Uma Maheshwari, Uma Devaraj
2670	**Characterising symptom 'trajectotypes' in patients with COPD** Andreas Halner (OXFORD (Oxfordshire), United Kingdom), Dan Nicolau, Mona Bafadhel
2671	**Effectiveness of community-based interventions following multi disciplinary team discussion in COPD patients** Cecillia Rafique (Glasgow, United Kingdom), Stacey Smillie, Geesh Jayasekera, Hannah Bayes, David Anderson
2672	**Clinical characteristics and disease control of US asthma patients treated in specialty clinics** Bradley Elliott Chipps (Sacramento, United States of America), Robert S. Zeiger, David A. Beuther, Joan Reibman, Robert A. Wise, William Mccann, Ileen Gilbert, James M. Eudicone, Hitesh N. Gandhi, Gale Harding, Katelyn Cutts, Maureen George, Kevin Murphy
2673	**Educational Intervention to increase adherence to inhaler therapy - INSPIRO Project** Ruxandra Ulmeanu (Bucuresti (Sector 5), Romania), Ramona Elena Nedelcu, Roxana Maria Nemes, Florin Dumitru Mihaltan
2674	**Effectiveness of a panel of sputum markers in smokers with and without COPD to detect pulmonary progression towards functional impairment** Gregorino Paone (Roma (RM), Italy), Giulia De Rose, Ilaria Piergentili, Daniela Pellegrino, Jacopo Di Lorenzo, Ilaria Menichini, Ilaria Cuccaro, Gilda Giannunzio, Diana Giannarelli, Paolo Palange
2675	**Opioid use, perhaps a harbinger of worsening COPD?** Juanita Lestari (Singapore, Singapore), Huiying Xu, Han Yee Neo, Ser Hon Puah
2676	**Long-term omalizumab treatment – do drug concentration levels count?** Johannes A Kroes (Leeuwarden, Netherlands), Sander W Zielhuis, Akke-Nynke Van Der Meer, Kim De Jong, Eric N Van Roon, Anneke Ten Brinke
2677	**Proportion of complete responders after one year of treatment with biologics for severe asthma - Results from the nationwide Danish Severe Asthma Register.** Susanne Hansen (Frederiksberg, Denmark), Susanne Hansen, Ole Hilberg, Charlotte Ulrik, Marianne Søndergaard, Anna Von Bülow, Anders Christiansen, Linda Rasmussen, Claus Johnsen, Johannes Schmid, Anne Sofie Bjerrum, Alexandra Wimmer Aune, Karin Dahl Assing, Kirsten B Rasmussen, Niels Steen Krogh, Celeste Porsbjerg
2678	**The impact of maintenance oral corticosteroids (OCS) on disease burden and type-2 inflammatory signal in the Wessex Severe Asthma Cohort (WSAC)** Laura Wiffen (Portsmouth, United Kingdom), Thomas Brown, Lauren Fox, Thomas Jones, Kerry Gove, Clair Barber, Scott Elliott, Hitasha Rupani, Peter Howarth, Anoop Chauhan
2679	**Predictive factors of mechanical ventilation need after NIV during acute exacerbations of COPD.** Ahmed Ben Saad (Monastir, Tunisia), Samah Joobeur, Asma Migaou, Nesrine Fahem, Saousen Cheikh Mhamed, Naceur Rouatbi
2680	**Does the Outpatient Pulmonary Rehabilitation Program Affect Mortality in Patients with COPD?** Yelda Varol (Izmir, Turkey), Hulya Sahin, Gunseli Balci, Filiz Guldaval, Ozgur Batum, Gulru Polat, Ali Kadri Cirak

2681	**Gerd questionnaire as a tool for diagnosing GERD in patients with chronic obstructive pulmonary disease.** Alexandra Balitskya (Barnaul, Russian Federation), Elena Klester, Inna Weitzman, Karolina Klester

Pre-congress content Session 181 00:00 - 23:59

E-poster session: Diagnosis and management of airways disease in primary care

Disease(s) : Airway diseases Sleep and breathing disorders

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

Chairs : Ee Ming Khoo (Kuala Lumpur , Malaysia), Luke Daines (Edinburgh (Edinburgh), United Kingdom)

2682	**Food allergy logogram to facilitate the diagnosis of food allergy in primary care** Bertine Flokstra - De Blok (Groningen, Netherlands), Tina Van Der Velde, Liz Angier, Evangeline Clark, Pascal Demoly, Clara Gaudin, Radek Gawlik, Myriam Mamodaly, Luciana Tanno, Kerstin Romberg, Janwillem Kocks, Dermot Ryan
2683	**EAACI Task Force Logograms: Asthma logogram to facilitate the diagnosis of asthma in primary care** Janwillem W. H. Kocks (Groningen, Netherlands), Kerstin Romberg, Bertine Flokstra-De Blok, Liz Angier, Evangeline Clark, Pascal Demoly, Clara Gaudin, Radek Gawlik, Myriam Mamodaly, Luciana Tanno, Tina Van Der Velde, Dermot Ryan
2684	**The sensitivity and specificity of specific IgE in diagnosing asthma** Heinze Andringa (Groningen, Netherlands), Janwillem Kocks, Ellen Van Heijst, Renaud Louis, Iñigo Ojanguren Arranz, Roland Riemersma, Dermot Ryan, Omar Usmani, Bertine Flokstra-De Blok
2685	**Defining high probability of an asthma diagnosis in primary care: results from an expert consensus workshop** Luke Daines (Edinburgh (Edinburgh), United Kingdom), Steff Lewis, Antonius Schneider, Aziz Sheikh, Hilary Pinnock
2686	**ECG Abnormalities in Acute Exacerbation of Bronchiectasis** FATIMA ALHAMED ALDUIHI (ALEPPO, Syrian Arab Republic)
2687	**Patients with COPD prescribed inhaled corticosteroid in primary care – Time for re-assessment based on exacerbation rate and blood eosinophils?** Osman Savran (Hvidovre, Denmark), Nina Godtfredsen, Torben Sørensen, Christian Jensen, Charlotte Suppli Ulrik
2688	**Real world use of opioids in COPD patients** Katia Mc Verhamme (Rotterdam, Netherlands), Marie Clyncke, Lies Lahousse, Esme Baan, Guy Brusselle
2689	**FeNO testing for asthma diagnosis in primary care** Jayne Longstaff (Portsmouth (Hampshire), United Kingdom), Milan Chauhan, Ruth De Vos, Tom Brown, Mark Mottershaw, Hitasha Rupani, Anoop Chauhan
2690	**Targetted screening of chronic obstructive pulmonary disease in french primary care : the DISCO study** Emilie Andres (Rennes, France), Bruno Laviolle, Aurelie Veislinger, Fabienne Pele, Stéphane Jouneau, Anthony Chapron
2691	**Primary care spirometry with a new mobile phone-linked spirometer - a feasibility study.** Piotr Jankowski (Warszawa, Poland), Katarzyna Mycroft, Piotr Korczyński, Łukasz Kołtowski, Mateusz Soliński, Rafał Krenke, Katarzyna Górska
2692	**Prediction of lung hyperinflation by forced spirometry: Results from COSYCONET** Peter Alter (Marburg, Germany), Jan Orszag, Christina Kellerer, Kathrin Kahnert, Tim Speicher, Henrik Watz, Robert Bals, Tobias Welte, Claus Vogelmeier, Rudolf Jörres
2693	**Handling of inhalers by COPD patients in actual clinical practice** Hadeer S. Harb (Beni-Suef, Egypt), Nabila Ibrahim Laz, Hoda Rabea, Mohamed E.A. Abdelrahim
2694	**The impact of device education on patients with chronic obstructive pulmonary disease using different inhalers** CHANG SHUHUA (Yunlin, Taiwan), Ying-Ju Lin, Yen-Fu Chen
2695	**Predictors for treatment changes in COPD – A Swiss Cohort Study** Lea Kleinsorge (Basel, Switzerland), Giorgia Lüthi-Corridori, Nebal Abu Hussein, Pierre O. Bridevaux, Cordula Cadus, Prashant N. Chhajed, Thomas Geiser, Peter Grendelmeier, Ladina Joos Zellweger, Malcom Kohler, Sabrina Maier, David Miedinger, Michael Tamm, Robert Thurnheer, Anne Tschacher, Pascal Urwyler, Jörg D. Leuppi
2696	**An audit of salbutamol use before children are admitted to hospital with acute asthma** Stephanie Cheetham (Liverpool, United Kingdom), Connor Thompson, Lynsey Brown , Ian Sinha
2697	**Validity of the Nijmegen questionnaire for screening hyperventilation syndrome in primary care** Nathalie Pauwen (Bruxelles, Belgium), Thierry Colot, Françoise Boucharessas, Roger Sergysels, Jeanne Bertuit, Vincent Ninane, Vitalie Faoro

2698	**Diagnosis of persistent cough in patients with normal chest X-ray at ACOCU** Ho Lam Nguyen (Hồ Chí Minh, Vietnam), Duy To Truong
2699	**Understanding information needs of patients with asthma in the United Kingdom** Kirstie McClatchey (Edinburgh, United Kingdom), Tracy Jackson
2700	**Management of asthma exacerbations in the practice of general physicians (GP)** Anna V Demchuk (Vinnytsia, Ukraine), Tetyana V Konstantynovych, Yuriy M Mostovoy
2701	**Lack of knowledge regarding nasal inhaler technique in allergic rhinitis: results from a mixed methods study** Esther I. Metting (Groningen, Netherlands), Marije Peters, Corine Rollema, Job F.M. Van Boven, Robbert Sanderman

Pre-congress content Session 182 00:00 - 23:59

E-poster session: Intercellular communication in tissue remodelling of chronic lung diseases

Disease(s) : Airway diseases | Interstitial lung diseases | Pulmonary vascular diseases | Thoracic oncology

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

Chairs : Tania Maes (Ghent, Belgium), Aurelie Fabre (Dublin 4, Ireland)

2702	**Association between microbiome and plasma proteome profile in COPD** Mohammadali Yavari Ramsheh (Leicester (Leicestershire), United Kingdom), Thong Cao, Omer Elneima, Hamish Mcauley, Vijay Mistry, Koirobi Haldar, Michael Barer, Leong Ng, Christopher Brightling
2703	**Mouse tracheal epithelial cells (mTECs) for the study of influenza A infectio>** Fawaz ALJuhani (Sheffield , United Kingdom), Priyanka Anujan, Lynne Bingle , Colin Bingle
2704	**Comparison of the effectiveness of azithromycin and budesonide versus theophylline and budesonide in the suppression of pro-inflammatory cytokines in patients with COPD** Aliaksei Kadushkin (Minsk, Belarus), Anatoli Tahanovich, Tatsiana Kolesnikova, Elena Hodosovskaya
2705	**Evaluation of mitochondrial dysfunction of mononuclear leukocytes of smokers and ex-smokers in COPD exacerbation** Eduard Belskikh, Sabina Akhmedova, Natalia Popko, Oleg Uryasev, Valentiva Zvyagina, Olga Zhurina, Valery Demikhov
2706	**Lung tissue multi-omics integration in copd** Maria Rosa Faner Canet (Barcelona, Spain), Nuria Olvera, Guillaume Noell, Sandra Casas-Recasens, Alejandra López-Giraldo, Angela Guirao, Alvar Agusti
2707	**THE GENE SIGNATURE OF LUNGS FROM GUINEA PIGS EXPOSED TO CIGARETTE SMOKE OVERLAPS WITH THAT OF HUMAN WITH COPD** Adelaida Bosacoma Armora (Barcelona, Spain), Daniel Aguilar, Tanja Paul, Isabel Blanco, Olga Tura-Ceide, Joan Albert Barberà, Victor I. Peinado
2708	**Copy Number Variation (CNV) in Chronic Obstructive Pulmonary Disease (COPD) with and without ongoing smoking** Geetanjali Bade (New Delhi (Delhi), India), Anjali Trivedi, Anjana Talwar, Meghashree Sampath, Debabrata Ghosh, Randeep Guleria
2709	**Extracellular vesicle-derived muscle-specific miRNAs for the characterization of group B COPD patients** Tommaso Neri (Pisa (PI), Italy), Sara Carpi, Beatrice Polini, Dario Nieri, Valentina Scalise, Chiara Sanguinetti, Ilaria Passalacqua, Roberto Pedrinelli, Pierlugi Paggiaro, Paola Nieri, Alessandro Celi
2710	**Prediction of human orthologs to the Drosophila's COPD-associated genes.** Erasmia Rouka (Larissa, Greece), Chrissi Hatzoglou, Konstantinos Gourgoulianis, Sotirios Zarogiannis
2711	**LSC - 2020 - Longitudinal effect of smoking cessation on transcriptomics and epigenetics in the airways of COP D patients and asymptomatic controls** Alen Faiz (Ultimo (NSW), Australia)
2712	**Biomarkers to predict FEV1 decline in smokers and early-onset COPD.** Carolina Gotera (Madrid, Spain), Antonio Pereira Vega, Tamara García Barrera, José María Marín Trigo, Ciro Casanova Macario, Borja García-Cosío Piqueras, Isabel Mir Viladrich, Ingrid Solanes García, José Luis Gómez Ariza, José Luis López Campos, Luis Seijo Maceiras, Nuria Feu Collado, Carlos Cabrera López, Carlos Amado Diago, Amparo Romero Plaza, Juan Pablo De Torres Tajes, Luis Alejandero Padrón Fraysse, Eduardo Márquez Martín, Margarita Marín Royo, Eva Balcells Vilarnau, Antonia Llunell Casanovas, Cristina Martínez González, Juan Bautista Galdiz Iturri, Celia Lacárcel Bautista, Sandra García Garrido, Germán Peces-Barba

2713 **Versatile workflow for storage, characterization and cell-type resolved transcriptional and epigenetic profiles of human lung samples (LSC-2020).**
Renata Jurkowska (Cardiff (Wales), United Kingdom), Maria Llamazares, Elisa Espinet, Vedrana Mijosek, Uwe Schwartz, Sebastian Waszak, Pavlo Lustik, Raluca Tamas, Mandy Richter, Annika Behrendt , Stephanie Pohl, Naja Benz, Thomas Muley, Arne Warth, Claus Peter Heußel, Felix Hearth, Tinne Mertens, Harry Karmouty-Quintana , Ina Koch, Vladimir Benes, Jan Korbel, Andreas Trumpp, David Wyatt, Heiko Stahl, Christoph Plass

2714 **MicroRNA-26a expression in exhaled breath condensate correlates with pulmonary exacerbation in cystic fibrosis**
Zuzanna Stachowiak (Poznan, Poland), Irena Wojsyk-Banaszak, Katarzyna Jończyk-Potoczna, Joanna Goździk-Spychalska, Kamila Sobczak, Beata Narożna, Anna Breborowicz, Aleksandra Szczepankiewicz

2715 **Glucocorticoid signaling genes are altered in asthma subgroups – A potential role for mRNA-miRNA interactions**
Julie Weidner (Göteborg, Sweden), Carina Malmhäll, Aidan Barrett, Huda Hasan, Emma Boberg, Linda Ekerljung, Madeleine Rådinger

2716 **RNA sequencing in bronchial biopsies of wheezing infants developing asthma at school age reveals epithelial dysfunction**
Elin Kersten (Haren GN, Netherlands), Kristiina Malmström, Cornelis Vermeulen, Cheng-Jian Xu, Maarten Van Den Berge, Wim Timens, Martijn Nawijn, Mika Mäkelä, Gerard Koppelman

2717 **Osteopontin and interleukin-6 as biomarkers of interstitial lung disease**
SARA REMUZGO MARTINEZ (SANTANDER, Spain), David Iturbe Fernández, Víctor M. Mora Cuesta, Fernanda Genre, Verónica Pulito-Cueto, Sonia M Fernández Rozas, Leticia Lera-Gómez, Belén Atienza-Mateo, Raquel López-Mejías, Miguel A González-Gay, José M Cifrián

2718 **Lung function decline in patients with alpha1-antitripsin heterozygosis: preliminary data**
Paolo Gaboardi (Branzi, Italy), Elisa Franceschi, Andrea Cristiano, Andrea Airoldi, Maurizio Rizzi, Dejan Radovanovic, Pierachille Santus

2719 **PiS and PiS-plus alleles. The importance of phasing gene variants in Alpha-1 Antitrypsin Deficiency**
Beatriz Martinez-Delgado (Madrid, Spain), Nerea Matamala, Gema Gomez-Mariano, Jose Antonio Perez, Beatriz Baladron, María Torres-Durán, Francisco Javier Michel, Raquel Saez, Jose María Hernández-Pérez, Irene Belmonte, Francisco Rodriguez-Frias, Ignacio Blanco, Pavel Strnad, Sabina Janciauskiene

Pre-congress content — Session 183 — 00:00 - 23:59

E-poster session: Interesting clinical problems for the respiratory physician

Disease(s) : Respiratory critical care | Airway diseases | Sleep and breathing disorders | Thoracic oncology | Interstitial lung diseases

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

Chairs : Fabrizio Luppi (Modena, Italy), Stephanie Everaerts (Leuven, Belgium)

2720 **Late Breaking Abstract - Burden of disease, diagnostic work-up and management of bronchiectasis in outpatient clinics – a five-year prospective cohort study**
Kjell Erik Julius Håkansson (København N, Denmark), Katrine Fjaellegaard, Andrea Browatzki, Melda Sin, Rafal Wiater, Charlotte Suppli Ulrik

2721 **Late Breaking Abstract - HRQol and other health related variables of Spanish COPD patients**
Nina Granel (Bellaterra, Spain), Maite López, Francesc Orfila, Adrià Almazor, Dolors Miguel, M. Angeles Santos, Esther Ruiz, M.Jesús Vazquez, Guadalupe Ortega, Marta Chuecos, Leandra Dominguez, Purificación Jordana-Ferrando

2722 **Maternal and fetal problems during pregnancy in patients with non-cystic fibrosis bronchiectasis**
Sermin Borekci (Istanbul, Turkey), Bahar Kubat, Gizem Senkardesler, Benan Musellim

2723 **Identifying inconsistences in inpatient bronchiectasis management at a large university teaching hospital**
Louise Crowley (Birmingham (England), United Kingdom), Mohammad Mirza, Alice Gray, Farrukh Rauf

2724 **Prospective evaluation of cardio-metabolic comorbidities in a cohort of patients with non-cystic fibrosis bronchiectasis.**
Valentine Bonnefoy (Paris, France), Laurent Boyer, Etienne Audureau, Laurence Bassinet, Sonia Zebachi, Benoit Douvry, Isabelle Monnet, Gilles Mangiapan, Amel Boudjemaa, Caroline Touboul, Laura Ernande, Bruno Housset, Bernard Maitre, Frederic Schlemmer

2725 **Palliative care on non-oncologic patients in a pulmonology ward – a three year review**
Ana Da Cunha Fonseca (Peso da Régua, Portugal), Marta Sá Marques, Eloísa Silva, Teresa Shiang, Manuela Vanzeller, Ana Paula Costa, Márcia Oliveira, Ricardo Fernandes, Carla Ribeiro

2726	**Platypnea-Orthodeoxia syndrome, a rare case of unexplained hypoxemia** Grazia Mazzeo (Pozzuoli, Italy), Matilde Boccia, Valentino Allocca, Sergio Padula, Giancarlo Scognamiglio, Rosario Salvi, Gennaro Mazzarella, Andrea Bianco, Francesco Saverio Cerqua
2727	**Monitoring steroid-induced hyperglycaemia in respiratory inpatients** Gerald Riordan (Forest Lodge, Australia), Belinda Cochrane
2728	**Selection of blood samples in studies of respiratory diseases related to macrophage migration inhibitory factor** Hui-Yuan Zhu, Shao-Chun Yan, Jing-Shuo Wu, Zhong Zhang, Xiao-Lin Li, Zheng Liu, Xing Ma, Ya-Hong Lan, Li-Na Zhou, Lin Zhang, Ming-Ming Feng, Yi-Wei Geng, Ai-Xin Zhang, Hui-Feng Wu, Sabina Janciauskiene, Ai-Guo Xu
2729	**Long-term ventilation in the UK in patients 0-24 years – demographics and quality of care** Heather Freeth (London, United Kingdom), Kathy Wilkinson, Mark Juniper
2730	**Impeding progress or a useful test? Impedance studies in paediatric respiratory patients** Louise Selby (Cambridge (Cambridgeshire), United Kingdom), Robert Heuschkel
2731	**Impact of a dedicated specialist pleural in-reach service in a large teaching hospital** Sofian Youssef (Stafford, United Kingdom), Sana Iftikhar, Syed Zaidi, Tess Cusay, Mariet Antony, Shiva Bikmalla, Aka Abi Musa Asa'Ari, Muhammad B Ganaie, Muhammad Iqbal, Nadeem Maddekar, Shahul Khan, Mohammed Haris
2732	**How much of dyspnea is psychosocial and how much is biological?** Latinka Basara (Zagreb, Croatia), Nataša Jokić Begić, Sanja Popović Grle, Tanja Jurin, Miroslav Samaržija
2733	**Preliminary assessment of Acute Cough Scale** Peter Siu Pan Cho (London, United Kingdom), Hannah V Fletcher, Jocelin I Hall, Helena Nadolska, Robert Lovegrove, Richard D Turner, Surinder S Birring, Surinder S Birring
2734	**Chronic breathlessness and activities forgone: a cross-sectional, population prevalence study** Slavica Kochovska (Sydney, Australia), Sungwon Chang, Deidre Morgan, Diana Ferreira, Manraaj Sidhu, Rayan Saleh Moussa, Miriam Johnson, Magnus Ekström, David Currow
2735	**Perspective on the etiology of catamenial pneumothorax** Takafumi Kabuto (Kobe, Japan), Hiroshi Hamakawa, Takashi Indo, Yutaka Shishido, Akihiro Aoyama, Shigeo Hara, Yutaka Takahashi
2736	**First description of De Novo Inflammatory Bowel Disease (IBD) in two adolescent patients after lung transplant (LTX)** Doxa Kotzia (London, United Kingdom), Fevronia Kiparissi, Helen Spencer
2737	**The Role of Barium Swallow in Determining the Aetiology of Bronchiectasis. A RetrospectiveReview.** Christina D. Campbell (Dublin 6, Ireland), Robert M. Rutherford
2738	**Correlation between pleural fluid and serum C-reactive protein in patients with pleural effusion due to different etiologies** Yana Kogan (HAIFA, Israel), Edmond Sabo, Majed Odeh

Pre-congress content Session 184 00:00 - 23:59

E-poster session: Increase in health care utilisation of modern treatments compared with the increase in effectiveness

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

Method(s) : General respiratory patient care Public health Respiratory intensive care Epidemiology Palliative care Pulmonary rehabilitation

Chairs : Robab Breyer-Kohansal (Wien, Austria), Emiel F. M. Wouters (Maastricht, Netherlands)

2739	**Late Breaking Abstract - Consultation difficulties and service shortages of medicinal products used by home ventilated patients have been already detected during the first two weeks of social distancing and pandemic's quarantine** Stephan Josef Schließmann (Seligenstadt, Germany), Stefanie Rödig
2740	**Healthcare utilisation in chronic cough** Peter Siu Pan Cho (London, United Kingdom), James Shearer, Anna Simpson, Sanchika Campbell, Mark W Pennington, Surinder S Birring, Surinder S Birring

Pre-congress content Session 185 00:00 - 23:59

E-poster session: Experimental and laboratory studies in intensive care unit medicine

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

Method(s) : Respiratory intensive care | General respiratory patient care | Pulmonary function testing | Endoscopy and interventional pulmonology | Cell and molecular biology | Physiology

Chairs : Bernd Schönhofer (Laatzen, Germany), Lieuwe D.J. Bos (Amsterdam, Netherlands)

2741	**Late Breaking Abstract - Enhanced expression of IL-1ß in later stage of influenza A virus infection is independent of NLRP3 in vitro** Yunfeng Shi (GuangZhou, China), Yunfeng Shi, Xiaohan Shi, Jingjing Liang, Jinmei Luo, Junhui Ba, Benquan Wu
2742	**Late Breaking Abstract - Non-interventional monitoring of expiratory flow limitation during experimental mechanical ventilation** Giorgos Marinakis, Michael Paraschos, Maria Patrani, Theodoros Tsoutsouras, Athanasia Kotrotsou, Miltos Vassiliou
2743	**Uni- and bilateral diaphragm paralysis: an animal model** Antonella LoMauro (Milano (MI), Italy), Andrea Aliverti, Peter Frykholm
2744	**The relationship between AQ3 inferior vena cava diameter measured by bedside ultrasonography and central venous pressure value** Mohamed Fawzy Adam (Assiut, Egypt), Gamal Rabea, Safaa Mokhtar
2745	**Prognostic value of plasma level of high mobility group box-1 in sepsis and septic shock** Hongseok Yoo (Seoul, Republic of Korea), Jin Young Lee, June Sun Park, Chaiyoung Lee, Kyeongman Jeon
2746	**Diagnostic utility of serum KL-6 levels in acute respiratory failure with bilateral pulmonary infiltrates** Megumu Osaki (Kobe, Japan), Ryo Tachikawa, Yusuke Shima, Yuri Shimada, Atsushi Matsunashi, Kazutaka Hosoya, Ryosuke Hirabayashi, Yuki Sato, Kazuma Nagata, Atsushi Nakagawa, Keisuke Tomii
2747	**In-Vitro evaluation of the performance of some large volume spacer versus T-adapters** Haitham Saeed (fayoum, Egypt), Elnady M.A, Hoda Rabea, Salah M.Seif, Mohamed E. A. Abdelrahim
2748	**Inhibition of nitric oxide production during inflammation associated with hypoxemia reduces the survival after apnea in rats.** Elizaveta Baranova (St. Petersburg, Russian Federation)
2749	**NADPH oxidase 4 signaling in a ventilator-induced lung injury mice model** Mi Hwa Shin (Seoul, Republic of Korea), Ji Soo Choi, Eun Hye Lee, Ju Hye Shin, Sang Hoon Lee, Moo Suk Park
2750	**Serum bilirubin/fetuin-A ratio in critically ill septic patients: a prospective study** Irene Karampela (Athens, Greece), Evangelia Chrysanthopoulou, George Skyllas, Panagiotis Simitsis, Gerasimos Socrates Christodoulatos, Evangelia Kandri, George Antonakos, Apostolos Armaganidis, Maria Dalamaga
2751	**C-reactive protein/albumin ratio as a prognostic biomarker in critically ill septic patients: a prospective study** Irene Karampela (Athens, Greece), Evangelia Chrysanthopoulou, Panagiotis Simitsis, George Skyllas, Gerasimos Socrates Christodoulatos, George Antonakos, Evangelia Kandri, Apostolos Armaganidis, Maria Dalamaga
2752	**RAGE expression in lung tissue of ARDS and septic patients** Natália de Souza Xavier Costa (São Paulo, Brazil), Giovana Da Costa Sigrist, Marisa Dolhnikoff, Luiz Fernando Ferraz Da Silva
2753	**Alterations in serum lipid profile in critically ill septic patients: a prospective study** Irene Karampela (Athens, Greece), Evangelia Chrysanthopoulou, George Skyllas, Panagiotis Simitsis, Gerasimos Socrates Christodoulatos, Evangelia Kandri, George Antonakos, Apostolos Armaganidis, Maria Dalamaga
2754	**Lung-protective mechanical ventilation for 50 hours activates hippocampal astrocytes** Thiago Bassi (Burnaby, Canada), Elizabeth Rohrs, Marlena Ornowska, Karl Fernandez, Michelle Nicholas, Steve Reynolds
2755	**Novel swine ARDS model induced by Pseudomonas aeruginosa pneumonia and VILI** Ana Motos Galera (Barcelona, Spain), Enric Barbeta, Joaquim Bobi, Hua Yang, Minlan Yang, Giacomo Tanzella, Roberto Cabrera, Carmen Rosa Vargas, Pierluigi Di Ginnatale, Stefano Nogas, Marta Arrieta, Laia Fernandez-Barat, Ricard Mellado, Montserrat Rigol, Gerard Frigola, Miquel Ferrer, Gianluigi Li Bassi, Antonio Artigas, Antoni Torres
2756	**Relative performance of nebulizers used in acute care wards** Lois Slator (Southampton, United Kingdom), Adam Metcalf, Dirk Von Hollen, Steven P. Cowley, Lucy E. A. Hardaker
2757	**Effect of I:E ratio on the respirable delivered dose from nebulizers** Lois Slator (Southampton, United Kingdom), Adam Metcalf, Dirk Von Hollen, Steven P. Cowley, Lucy E. A. Hardaker
2758	**Nonsteroid anti-inflammatory agents depress inflammation-related respiratory disoders and hypoxia-induced mortality. Experimental model.** Zhanna Donina (St. Petersburg, Russian Federation)

Pre-congress content Session 186 00:00 - 23:59

E-poster session: Cystic fibrosis

Disease(s) : Airway diseases

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

Chairs : Nicholas Simmonds (London, United Kingdom), Stojka Fustik (Skopje, North Macedonia)

2759	**Temporal trends in costs of care for cystic fibrosis in France** Eric Van Ganse (Lyon, France), Faustine Dalon, Lydie Lemonnier, Clémence Dehillotte, Quitterie Reynaud, Marjorie Bérard, Déborah Walther, Manon Belhassen, Isabelle Durieu
2760	**Screening of Depression and Anxiety Disorders in Cystic Fibrosis Patients and Their Parents** Pinar Ergenekon (Istanbul, Turkey), Cansu Yilmaz Yegit, Hakan Mursaloglu, Yasemin Gokdemir, Ela Erdem Eralp, Fazilet Karakoc, Bulent Karadag
2761	**Should the D1152H variant be included in cystic fibrosis newborn screening programmes?** Carwyn Dafydd (Cardiff, United Kingdom), Kevin W. Southern, Stuart Moat, Iolo J.M. Doull
2762	**Cystic fibrosis newborn screening for R117H in England** Carwyn Dafydd (Cardiff, United Kingdom), Stuart Moat, Kevin W. Southern, Iolo J.M. Doull
2763	**Description of new CFTR gene's mutations in patients of Russia** Yulia Gorinova (Moscow, Russian Federation), Kirill Savostyanov, Olga Simonova, Stanislav Krasovskyi
2764	**First identified "severe" mutations and extended rearrangements in the CFTR gene in Russian cystic fibrosis patients** Elena Kondratyeva (Moscow, Russian Federation), Nika Petrova, Stanislav Krasovsky, Aysa Zodbinova, Yuliya Melyanovskaya, Marina Starinova, Alexander Chernyak, Rena Zinchenko, Sergey Kutsev
2765	**CFTR mutations unidentified in CFTR2 database and their phenotypic characteristics: Data from cystic fibrosis registry of Turkey** Güzin Cinel (Ankara, Turkey), Deniz Doğru, Erkan Çakır, Tuğba Şişmanlar Eyüboğlu, Nazan Çobanoğlu, Sevgi Pekcan, Ebru Yalçın, Nural Kiper, Velat Şen, Hadice Selimoğlu Şen, Ömür Ercan, Özlem Keskin, Sevgi Bilgiç Eltan, Lina Muhammed Al Shadfan, Hakan Yazan, Derya Ufuk Altıntaş, Şenay Şaşihüseyinoğlu, Nihat Sapan, Şükrü Çekiç, Haluk Çokuğraş, Ayşe Ayzıt Atabek, Tuğba Ramaslı Gürsoy, Ayşe Tana Aslan, Ayşen Bingöl, Abdurrahman Erdem Başaran, Ali Özdemir, Mehmet Köse, Melih Hangül, Nagehan Emiralioğlu, Gökçen Tuğcu, Hasan Yüksel, Özge Yılmaz, Fazıl Orhan, Zeynep Gökçe Gayretli aydın, Erdem Topal, Zeynep Tamay, Ayşe Süleyman, Demet Can, Cem Murat Bal, Gönül Çaltepe, Uğur Özçelik
2766	**Cystic Fibrosis: Clinical profile of 10 patients with R334W mutation compared to ?F508 homozigoty** Sara Carla Moura Cabral (Matosinhos, Portugal), João Pedro Oliveira Pereira, Bruno Gil Gonçalves, Fernanda Gamboa
2767	**Clinical presentation in CF patients with large deletions** Guergana Petrova (Sofia, Bulgaria), Nadezhda Yaneva, Malgorzata Libik, Dimitrinka Miteva, Boriana Gospodinova, Margarita Nikolova, Penka Perenovska, Milan Macek Jr, Alexey Savov
2768	**Spectrum of CFTR mutations in Republic of North Macedonia** Stojka Fustik (Skopje, North Macedonia), Dijana Plaseska Karanfilska, Marija Terzikj, Lidija Spirevska, Ana Stamatova
2769	**Bioenergetics of breathing in children with cystic fibrosis: a thermodynamic study** Jale Çatak (İstanbul, Turkey), Elif Develi, Serkan Bayram
2770	**Dehydration and electrolyte imbalance: a common presenting manifestation of cystic fibrosis in Cyprus** Pinelopi Anagnostopoulou (Nicosia, Cyprus), Andreas Matthaiou, Panayiotis Kouis, Vassos Neocleous, Tonia Adamidi, Phivos Ioannou, Pavlos Fanis, Constantina Costi, Andreas Georgiou, Leonidas A. Phylactou, Panayiotis Yiallouros
2771	**Low-dose chest CT for bone mineral density in pediatric patients with cystic fibrosis** Leonardo Pinto, Rubens Andrade, Gabriele Forte, Bruno Hochhegger
2772	**Midregional proadrenomedullin in patients with cystic fibrosis lung disease: a pilot study** Vassiliy Shmarin (Moscow, Russian Federation), Daria Pukhalskaya, Tatiana Kuznetsova , Stanislav Krasovsky, Sergey Semykin, Maria Usacheva, Galina Shmarina, Vladimir Alioshkin
2773	**PLEURO-PULMONARY COMPLICATIONS IN PATIENTS WITH CYSTIC FIBROSIS** Ludmila Balanetchi (Cluj-Napoca (Cluj), Romania), Rodica Selevestru, Eva Gudumac, Svetlana Sciuca
2774	**Impact of flash glucose monitoring system in cystic Fibrosis related diabetes** Safin Arafat Rahman (ESSEX, United Kingdom), Jacqueline Mcdermott2, Amanda Adler, Helen Barker, Christopher Johnson, Dorothy Grogono, Uta Hill, Charles Haworth

2775 **Expression and function of murine WFDC2 in the respiratory tract.**
Lynne Bingle (Sheffield (South Yorkshire), United Kingdom), Hannah Armes, Colin Bingle

2776 **Epidemiology and factors associated with overweight in adults with cystic fibrosis: an Italian multicenter experience.**
Andrea Gramegna (Milano (MI), Italy), Stefano Aliberti, Martina Contarini, Daniela Savi, Fabiana Ciciriello, Fabio Maio, Vincenzina Lucidi, Paolo Palange, Francesco Blasi

Pre-congress content — Session 187 — 00:00 - 23:59

E-poster session: Transthoracic and endobronchial ultrasound

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

Method(s) : Imaging | Endoscopy and interventional pulmonology | Respiratory intensive care | Surgery | General respiratory patient care | Physiology | Pulmonary rehabilitation | Palliative care

Chairs : Rachelle Asciak (Attard, Malta), Niels Jacobsen (Odense M, Denmark)

2777 **Late Breaking Abstract - Lung ultrasound for severity assessment and outcome prediction of COVID-19 patients.**
Pere Trias Sabria (Barcelona, Spain), Maria Molina-Molina, Samantha Aso-González, Marta Díez-Ferrer, Joan Sabater-Riera, Jordi Dorca-Sargatal, Salud Santos-Pérez, Guillermo Suárez-Cuartin

2778 **The lung sonography in the evaluation of a new airway clearance device**
Angelo Longoni (Mariano Comense (CO), Italy), Paolo Pozzi, Antonio Paddeu

2779 **The use of lung ultrasound in the postoperative period following cardiac surgery**
Foteini Chatzivasiloglou (Nikaia (Piraeus), Greece), Stavros Dimopoulos, Vasiliki Raidou, Konstantina Sakki, Dimitrios Elaiopoulos, Despoina Markantonaki, Kirillos Papadopoulos, Ioannis Kriaras, Aikaterini Marathia, Serapheim Nanas, Andreas Karabinis

2780 **Use of safety checklists for pleural procedures by Respiratory trainees**
Qaiser Abdullah (Stoke on trent, United Kingdom), Muhammad Arif Khalil, Maryam Ahmed, Atul Gulati

2781 **The role of Transthoracic Ultrasound in the study of interstitial lung disease: HRCT versus ultrasound pattern**
Federica Maci (Foggia, Italy), Carla Maria Irene Quarato, Donato Lacedonia, Giulia Scioscia, Pasquale Tondo, Angelamaria Giardinelli, Ernesto Giuffreda, Maria Pia Foschino Barbaro, Marco Sperandeo

2782 **Custom-made phantoms for thoracic ultrasound diagnostic and therapeutic applications in clinical practice**
Ana Belén Llanos-González (SANTA CRUZ DE TENERIFE, Spain), Natalia Arteaga-Marrero, Enrique Villa, Marta Elena Gómez Gil, Ana Martín Medina, Orlando Acosta Fernández, Nuria Mañes Bonet, Juan Bautista Ruiz-Alzola, Javier González-Fernández

2783 **Transthoracic Shear Wave Elastography (SWE) in lung subpleural lesions: a preliminary report**
Carla Maria Irene Quarato (Foggia, Italy), Mariapia Venuti, Donato Lacedonia, Lucia Dimitri, Anna Simeone, Salvatore De Cosmo, Anna Del Colle, Maria Pia Foschino Barbaro, Marco Sperandeo

2784 **Vertical Artifacts in Lung Ultrasonography**
Andrea Smargiassi (Roma (RM), Italy), Gino Soldati, Libertario Demi, Riccardo Inchingolo

2785 **Clinical applications of contrast-enhanced thoracic ultrasound (CETUS) compared to standard reference tests: a systematic review**
Niels Jacobsen (Odense M, Denmark), Lars Konge, Pia Iben Pietersen, Christian Pállson Nolsøe, Ole Graumann, Christian B. Laursen

2786 **Utility of thoracic ultrasound for detecting malignant pleural effusion: a systematic review and meta-analysis**
Sayumi Nozaki (Chiba-ken, Japan), Akihiro Shiroshita, Yu Tanaka, Yan Luo, Yuki Kataoka, Kei Nakashima

2787 **Diaphragm ultrasound examination before and after fluid drainage in patients with malignant pleural effusion**
Maged Hassan (Alexandria, Egypt), Olalla Castro-Anon, Radhika Banka, Rachel Mercer, Eihab Bedawi, Najib Rahman

2788 **Sonographic evaluation of the diaphragm as an educational reinforcement during adaptation to the Nimv**
Angelo Longoni (Mariano Comense (CO), Italy), Paolo Pozzi, Antonio Paddeu

2789 **Diagnostic yield and safety of image-guided pleural biopsy: a systematic review and meta-analysis**
Federico Mei (Ancona (AN), Italy), Martina Bonifazi, Matteo Rota, Lina Zuccatosta, Eihab O Bedawi, David Mccracken, Stefano Gasparini, Najib M Rahman

2790 **Ultrasonic elastography guided transthoracic pleural biopsy: a prospective pilot study**
Gang Hou (Shenyang (Liaoning), China), Yan Yin, Xian-Wei Ye, Jiang-Wei Ma, Guo-Wu Zhou, Bin Jiang

2791 **Study of ultrasound guided transthoracic fine needle aspirationand core needle biopsy in the diagnosis of peripheralpulmonary lesions**
Ragia Samir Sharshar (Tanta, Egypt), Wafaa El-Shimy, Amr Elbadry, Sara Elganzory

2792 **Usefulness of cytologic examination of bronchial washing samples in endobronchial ultrasound**
Susana Alvarez Lopez (Los Molinos, Spain), Luis Fernando Giraldo Cadavid, Almudena Batanero Rodríguez , Javier Alfayate Sánchez, Francisco De Borja Martínez Muñiz, Iker Fernández Navamuel Basozabal, Javier Flandes Aldeyturriaga

2794 **Treasure hunt in the mediastinum lesions or lung lesions by EBUS-TBNA or EUS-B-FNA : A road map for the best route**
Wen-Chien Cheng (Taichung, Taiwan), Meng-Fang Shen, Chia-Hung Chen, Chih-Yen Tu, Biing-Ru Wu, Wei-Chih Liao, Wei-Chun Chen, Chih-Yu Chen

2795 **Diagnostic utility of EBUS-TBNA according to lymph node stations in sarcoidosis**
Hongseok Yoo (Seoul, Republic of Korea), Byung Woo Jhun, Byeong-Ho Jeong, Kyungjong Lee, Sang-Won Um, O Jung Kwon, Man Pyo Chung

Pre-congress content Session 188 00:00 - 23:59

E-poster session: Non-tuberculous mycobacteria and latent tuberculosis infection

Disease(s) : Airway diseases Interstitial lung diseases

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

Chairs : André Filipe dos Santos Silva (Porto, Portugal), Jan Heyckendorf (Hamburg, Germany)

2796 **Identification and morphological features of non-tuberculous mycobacteriosis of patients operated on for pulmonary tuberculosis**
Vilayat Aliev (Moscow, Russian Federation), Larisa Lepeha, Tatyana Smirnova, Anna Sargsyan, Natalya Makaryants, Elena Krasnikova, Mamad Bagirov

2797 **Epidemiology of non tuberculous mycobacterial infection in five areas in nothern Spain**
Eva Tabernero Huguet (Bilbao (Bizkaia), Spain), Javier Ugedo Urruela, Lander Altube, Julia Garcia Fuertes, Jose Andres Molina Espejo, M. Victoria Leal Arranz

2798 **Treatment outcomes of non tuberculous mycobacterial (NTM) pulmonary disease. Multicenter study**
Beatriz Gonzalez Quero (bilbao, Spain), Eva Tabernero Huguet, Lander Altube, Javier Ugedo, Victoria Leal, Jone Solorzano Santobeña, Lorea Martinez Indart, Julia Garcia Fuertes

2799 **Differential diagnosis of destructive pulmonary tuberculosis in real clinical practice**
Natalya Karpina (Moscow, Russian Federation), Ruslan Asanov, Irina Shabalina, Ekaterina Shishkina, Atadzhan Ergeshov

2800 **Phenotyping and treatment of endobronchial Tuberculosis: A Case Series**
Shubham Sharma (Jaipur (Rajasthan), India), Aloke Gopal Ghoshal, Shyam Krishnan, Praveen Kumar Shahi, Raja Dhar

2801 **Research of apoptosis of bronchial epithelial cells in multidrug-resistant tuberculosis**
Yeremenchuk Inga (Chernivtsi, Ukraine), Todoriko Liliia, Semianiv Ihor

2802 **From environmental bacteria to obligate pathogen: the study of adaptations enhancing the persistence of tuberculosis bacilli**
Aideen C. Allen (Toulouse, France), Wladimir Malaga, Catherine Astarie-Dequeker, Ali Hassan, Céline Berrone, Flavie Moreau, Philip Supply, Roland Brosch, Christophe Guilhot

2803 **In-vitro effect of bioactive fractions of Cinnamomum verum(Cv) on cytokine levels in Mycobacterium tuberculosis (MTB) infected Macrophages.**
Shashikant Vaidya (Mumbai (Maharashtra), India), Jinesh Maniar, Jaishankar Sharma

2804 **Characteristics of smear-positive pulmonary tuberculosis patients with delayed diagnosis**
Chie Yamamoto (Fukuchiyama Kyoto, Japan), Atsushi Kawashima, Ryo Sawada, Shun Futamura

2805 **Anti-TB efficacy of PBTZ169 in mice with different genetic susceptibility to infection**
Boris Nikonenko (Moscow, Russian Federation), Vadim Makarov, Irina Bocharova, Maria Korotetskaya, Elena Kondratieva, Natalia Sterzhanova , Alex Apt

2806 **Different antimycobacterial activity of macrophages in various lung tuberculosis legions of patients**
Elena Ufimtseva (Novosibirsk, Russian Federation), Natalya Eremeeva, Diana Vakhrusheva, Sergey Skornyakov

2807 **Mycobacterium tuberculosis modulates mitochondrial function in human macrophages**
Claudio Bussi (London, United Kingdom), Mariana Silva Dos Santos, Elliott M. Bernard, Pierre Santucci, James I. Macrae, Maximiliano G. Gutierrez

2808	**Non-cytokine activation immunoprofiling to differentiate treatment status in latent tuberculosis infection** Patricio Escalante (Rochester, United States of America), Virginia Van Keulen, Courtney Erskine, Tobias Peikert
2809	**Screening for TB infection in children using skin tests with tuberculin and recombinant allergen (CFP-10-ESAT-6)** Ludmila Slogotskaya (Moscow, Russian Federation), Ludmila Slogotskaya, Elena Bogorodskaya, Mihail Sinitsyn, Dmitriy Kudlay, Luisa Shamuratova, Tatiana Sevostyanova
2810	**New in vitro model of Mycobacterium tuberculosis dormancy** Yana Batyrshina (Novosibirsk, Russian Federation), Yakov Schwartz
2811	**Tuberculosis contacts study in Spain: preliminary results** Juan Diego Alvarez Mavarez (Aviles, Spain), Jose Antonio Gullon Blanco, Teresa Rodrigo Sanz, Manuel Angel Villanueva Montes, Fernando Alvarez Navascues, Juan Rodríguez López, Eva Tabernero Huguet, Isabel Lopez Aranaga, Josefina Sabria Mestres, Luis Anibarro García, Angel Dominguez Castellano, Anton Penas Truque, Isabel Mir Viladrich, Silvia Dorronsoro Quintana, Lander Altube Urrengoetxea, Juan Francisco Medina Galardo, María Somoza González, María Otero Santiago, José María García Garcia
2812	**Clinical and functional features of pulmonary tuberculosis in young patients depending on the respiratory muscles strength** Elena Kokorina (Vsevolozhsk, Russian Federation), Sofia Kovaleva, Larisa Kiryukhina, Nina Denisova, Kirill Bolotov, Natalia Nefedova, Lyudmila Archakova
2813	**Efficacy of Russian immunologic skin test recombinant allergen Diaskintest - ten years (meta-analysis data)** Anna Starshinova (St. Petersburg, Russian Federation), Dmitriy Kudliy, Irina Dovgaluk
2814	**Latent tuberculosis assessment before biological agent use** Azad Güler (Eskişehir, Turkey), Hüseyin Yıldırım, Fusun Alatas, Sinan Erginel, Abdullah Kayıkcı, Tunahan Yüce

Pre-congress content — Session 189 — 00:00 - 23:59

E-poster session: Neonatal and paediatric intensive care: diagnosis, management and outcomes

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

Method(s) : General respiratory patient care | Pulmonary function testing | Imaging | Surgery | Epidemiology | Respiratory intensive care | Palliative care | Cell and molecular biology

Chairs : Emma Williams (London, United Kingdom), Sotirios Fouzas (Patras, Greece)

2815	**Late Breaking Abstract - Fetal thoracic circumference in mid-pregnancy and infant lung function** Hrefna Katrín Gudmundsdóttir (Oslo, Norway), Katarina Hilde, Karen Eline Stensby Bains, Martin Färdig, Kai-Håkon Carlsen, Guttorm Haugen, Marissa Leblanc, Live Solveig Nordhagen, Björn Nordlund, Eva Maria Rehbinder, Håvard O. Skjerven, Anne Cathrine Staff, Riyas Vettukattil, Karin C. Lødrup Carlsen
2816	**The preterm piglet as an animal model for bronchopulmonary dysplasia: preliminary findings** Kristien Vanhaverbeke (Berchem, Belgium), Annelies Van Eyck, Kristine Holgersen, Jacky De Leeuw, Miriam Ayuso, Isabel Pintelon, Chris Van Ginneken, Benedicte De Winter, Kim Van Hoorenbeeck, Stijn Verhulst, Thomas Thymann, Per Sangild, Antonius Mulder
2817	**Multiple breath washout measurement in patients with CDH at school age compared to Chest CT score and spirometry.** Marlies Dirickx (Onze-lieve-vrouw-waver, Belgium), Anne Debeer, Mieke Boon, Francois Vermeulen , Marijke Proesmans
2818	**Effective concentration of oxygen delivered to infants via nasal cannula: back to the model** Sotirios Fouzas (Patras, Greece), Aris Bertzouanis, Gabriel Dimitriou
2819	**Can chest radiograph(CXR) predict diagnosis and intervention of congenital thoracic malformations?** Lena Thia (Cardiff, United Kingdom), Laura Price, Emily King, Elisabeth Parks, Rhian Isaac, Iolo Doull, Julian Forton, Lena Thia
2820	**Closed loop automated oxygen control in optimisation of mechanical ventilation in preterm infants** HEMANT AMBULKAR (London, United Kingdom), Sarah Sturrock, Samantha Sweeney, Nadja Bednarczuk, Emma Williams, Theodore Dassios, Anne Greenough
2821	**Feasibility of less invasive surfactant administration (LISA) in the delivery suite** HEMANT AMBULKAR (London, United Kingdom), Emma Williams, Ann Hickey, Ravindra Bhat, Theodore Dassios, Anne Greenough
2822	**Impact of oral clonidine on duration of opioid and benzodiazepine use in mechanically ventilated children: a randomized, double-blind, placebo-controlled study** Bahador Bagheri (Tehran, Islamic Republic of Iran), Sara Salarian, Bahar Taherkhanchi

2823	**The effect of IGF-1 therapy on lung development in a preterm piglet model** Kristien Vanhaverbeke (Berchem, Belgium), Annelies Van Eyck, Kristine Holgersen, Jacky De Leeuw, Miriam Ayuso, Isabel Pintelon, Chris Van Ginneken, Benedicte De Winter, Kim Van Hoorenbeeck, Stijn Verhulst, Thomas Thymann, Per Sangild, Antonius Mulder
2824	**Application and diagnostic accuracy of nonbronchoscopic bronchoalveolar lavage for ventilator-associated pneumonia in the neonatal intensive care unit: a prospective randomized controlled trial** Ming Horng Tsai (Yunlin, Taiwan), Shih Ming Chu, Jen Fu Hsu
2825	**Predicting hospitalisation post-discharge in preterm infants by tPTEF/tE** Emanuela Zannin (Milano (MI), Italy), Anna Lavizzari, Marijke Ophorst, Francesca Ciuffini, Silvana Gangi, Mariarosa Colnaghi, Raffaele Dellacà, Fabio Mosca
2826	**Ten-year review of congenital thoracic malformations in Wales** Lena Thia (Cardiff, United Kingdom), Laura Price, Emily King, Elisabeth Parks, Rhian Isaac, Iolo Doull, Julian Forton, Lena Thia
2827	**How children on long term ventilation die** Anna Mulholland (Liverpool, United Kingdom), Clare Halfhide, Andrew Selby
2828	**Mechanical ventilation management during high-frequency oscillatory ventilation for premature infants with severe hypoxemic respiratory failure>** Shih Ming Chu (, Taiwan), Ming Horng Tsai, Jen Fu Hsu
2829	**Thoracoabdominal rebalancing method and conventional respiratory physiotherapy in removing airway secretions in newborns** Ingrid Guerra Azevedo (Natal (RN), Brazil), Bruno Henrique Silva De Souza, Ingrid Fonseca Damasceno Bezerra, Sabrinne Suelen Santos Sampaio, Silvana Alves Pereira
2830	**Outcomes following the use of inhaled nitric oxide rescue therapy in preterm infants less than 30 weeks gestation** Davina Sham (Leicestershire, United Kingdom), Sumit Mittal, Robin Miralles
2831	**A UK survey of the management of infants with bronchopulmonary dysplasia (BPD)** Emma Russell-Jones (London, United Kingdom), Eleanor Jeffreys, Emma Williams, Sarah Sturrock, Anne Greenough
2832	**Clinical Spectrum of Neonatal Respiratory Morbidity in Developing Country** Nisha Keshary Bhatta (Dharan, , Nepal), Sandeep Chauhan , Jyoti Agrawal, Shanker Yadav, Lok Raj Sah, Rupa Rajbhandarisingh
2833	**In-silico aerosol delivery to spontaneously-breathing paediatric patients via oral (south-facing) RAE endotracheal tubes** Natalie Anderson (Perth, Australia), Ryan Mead-Hunter, Britta S Von Ungern-Sternberg, Alexander Larcombe, Andrew King, Benjamin Mullins

Pre-congress content Session 190 00:00 - 23:59

E-poster session: Conventional bronchoscopy

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

Method(s) : Endoscopy and interventional pulmonology | Pulmonary function testing | Imaging | Respiratory intensive care

Chairs : Christophe von Garnier (Lausanne, Switzerland), Ria Shah (Mumbai (Maharashtra), India)

2834	**Molecular testing with Next Generation Sequencing on Bronchial Lavage from patients with suspect lung cancer** Luca Morandi (Ferrara (FE), Italy), Alberto Papi, Francesca Torsani, Roberta Roncarati, Laura Lupini, Massimo Negrini, Gian Luca Casoni
2835	**Bronchial brushing are still usefull in the diagnosis of peripheral lesions?** Elena Torricelli (Firenze (FI), Italy), Giulia Innocenti Bruni , Cecilia Marmai, Nirvana Stanflin
2836	**Utility of fiberoptic bronchoscopy in the critical care unit: howfar-reaching are the complications and outcomes?** Rana Helmy El-Helbawy (Shebin El-Kom, Egypt), Marwa . Khedr
2837	**Bronchoalveolar lavage: are we following ATS guidance?** Ivor Allon (London, United Kingdom), Stephen Joseph, Rahul Mogal, Rama Vancheeswaran
2838	**Utility of ultrathin bronchoscope in a bronchoscopy unit** Itziar Campo Esnaola (PAMPLONA, Spain), Sergio Curi Chércoles, Leire Albarrán De La Cruz, José Antonio Cascante Rodrigo, Javier Villuela Bayón, Javier Hueto Pérez De Heredia, Pilar Cebollero Rivas

2839	**Evaluation of regional pulmonary function using a bronchoscopic capnometer in patients with COPD** Shin Matsuzawa, Hiroki Nishine, Hirotaka Kida, Teruomi Miyazawa, Takeo Inoue, Masamichi Mineshita
2840	**Impairment of pulmonary function as a main risk factor for ineffective endobronchial valve placement in patients with chronic cavitary tuberculosis** Mikhail Chushkin (Moscow, Russian Federation), Lydia Popova , Elena Shergina, Olga Lovacheva, Irina Shabalina, Tatevik Bagdasaryan, Natalya Chernykh, Elena Krasnikova, Olga Gordeeva , Natalya Karpina
2841	**Hemorrhagic Endobronchial metastasis of renal cell carcinoma** Marcos Oliveira (Aguada de Cima, Portugal), Jorge Dionísio, Ambrus Szantho, Duro Da Costa
2842	**Impact of ROSE on the diagnostic yield of fluoroscopy guided bronchoscopy in diagnosing peripheral pulmonary lesions** Fausto Leoncini (Montespertoli (FI), Italy), Guido Levi, Mauro Novali, Luca Boni, Federico Quadri, Valentina Luzzi, Claudio Tantucci, Michela Bezzi
2843	**The role of bronchoscopy in the differential diagnosis of pulmonary lesions in end-stage renal disease patients** Olga Gordeeva (Moscow, Russian Federation), Natalia Karpina, Ilya Sivokozov, Yulia Turovtceva, Irina Shabalina, Dmitry Dedushkin
2844	**Spirometry as an integral part of benign tracheal stenosis management** Josué Pinto (Porto, Portugal), Bruno Chambel, Cláudia Freitas, Mariana Conceição, António Morais, Gabriela Fernandes, Adriana Magalhães, Hélder Novais Bastos
2845	**Different Processing method in each fractionation of bronchoalveolar lavage fluid indicated different diagnosis** Yuko Waseda (Yoshida-gun, Japan), Toshihiro Takeda, Masayuki Sato, Akikazu Shimada, Tomoaki Sonoda, Makiko Yamaguchi, Chisato Honjo, Maiko Kadowaki, Hiroko Shigemi, Yukihiro Umeda, Masaki Anzai, Keigo Saeki, Satoshi Watanabe, Kazuo Kasahara, Tamotsu Ishizuka
2846	**A visual estimate for hemorrhage during flexible bronchoscopy: A registered, cross-sectional study** Wendy Laijen (Leeuwarden, Netherlands), Kim De Jong, Jolanda Kuijvenhoven, Wouter Van Geffen
2847	**Potential of using probe-based confocal laser endomicroscopy (pCLE) in differential diagnosis of pulmonary TB and sarcoidosis.** Igor Mamenko (St. Petersburg, Russian Federation), Igor Vasilev, Irina Tabanakova, Sultan Gasanmagomedov, Gleb Beliaev, Tatiana Novickaya, Piotr Yablonskii
2848	**Use of an Extended Working Channel in high-risk Transbronchial Biopsy- A simple innovation to enhance safety** Hariprasad Kalpakam (, India), Pavankumar Biraris, Rajani Bhat, Pooja Bajaj, Rohan Aurangabadwala, Ravindra Mehta, Sameer Bansal
2849	**Endobronchial biopsy: a comparative study to evaluate alligator and cup forceps at Institute of Respiratory diseases, SMS medical college, Jaipur.** Vinayak Mangal (Jaipur (RJ), India), R. K. Jenaw, Sheetu Singh
2850	**To compare the effect of Dexmedetomidine as a premedication during flexible bronchoscopy with Tramadol and paracetamol- open label randomised control trial** Vijay Narain Tyagi (Meerut (Uttar Pradesh), India), Rahul Kathuria, Manish Katiyar, Anupum Samanta, Prashant Bendre, Amit Garg
2851	**Concordance between Rapid On-Site Cytology Evaluation (ROSE) and Final diagnosis in patients undergoing Endobronchial Ultrasound- guided Transbronchial Needle Aspiration (EBUS-TBNA)** Kashif Ali Khan (Manchester, United Kingdom), Nadira Narine, Simon Bailey, Miles Holbrook, David Shelton, Durgesh Rana
2852	**HOW RAPID CAN "RAPID ON-SITE EVALUATION (ROSE)" BE - OUR EXPERIENCE WITH TOLUIDINE BLUE STAINING - CONCORDANCE BETWEEN ROSE AND FINAL CYTOLOGICAL DIAGNOSIS ON EBUS TBNA SAMPLES** Umang C. Shah (Vadodara (Gujarat), India), Arpan C. Shah, Chandrakant M. Shah, Udayan Kachchhi, Hetal V. Shah, Palak U. Shah

Pre-congress content Session 191 00:00 - 23:59

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

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

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

Chairs : Karan Madan (New Delhi (Delhi), India), Chair to be confirmed

2853	**Late Breaking Abstract - Effect of endobronchial coil therapy-a lung volume reduction therapy-on hemorheological and oxidative parameters** Nazli Cetin (Denizli, Turkey), Erhan Ugurlu, Emine Kilic Toprak, Nilufer Yigit, Özgen Kilic Erkek, Hilmiye Pakyurek, Hande Senol, Göksel Altinisik, Melek Bor Kücükatay
2854	**The utility of elastography visual features to predict nodal malignancy during EBUS-TBNA** Ben Teng (Manchester, United Kingdom), Kashif Khan, Haider Al-Najjar
2855	**Feasibility and patient satisfaction with transnasal diagnostic EUS-b under conscious sedation** Gonçalo António Cintrão Samouco (Agualva-Cacém, Portugal), Michele De Santis, Paulo Matos, Lourdes Barradas
2856	**Interobserver agreement on EBUS and EUS-B cytological specimens in patients with sarcoidosis** Kirsten A. Mooij - Kalverda (Amsterdam, Netherlands), Laurence Crombag, Sybren Meijer, Alessandra Cancellieri, Jan Von Der Thüsen, Teodora Radonic, Rieneke Britstra, Rocco Trisolini, Jouke Annema
2857	**Evaluating the role of endobronchial ultrasound-guided transbronchial needle aspiration (EBUS-TBNA) in the diagnosis of mediastinal metastasis from extrapulmonary malignancies** João Nunes Caldeira Marinho Matos (Ponta Delgada, Portugal), Michele De Santis, Maria Inês Matias, Sofia Rodrigues Sousa, Paulo Matos, Ana Luisa Fonseca, Lourdes Barradas
2858	**Periferic located masses and the role of EBUS-TBNA and EUS–B-FNA** Eritjan Tashi (Fier, Albania), Alma Teferici, Fahri Kokici, Perlat Kapisyzi
2859	**What is the added diagnostic yield of mediastinoscopy following nondiagnostic EBUS-TBNA thoracic lymph node sampling?** Abdulrahman Hasan Almadani (Dublin 8, Ireland), Mohammad Aladaileh, Brian Mccullagh, Donna Eaton, Karen Redmond, Dermot O'Callaghan
2860	**Diagnosis of mediastinal adenopathies in patients with extrathoraic tumors: role of EBUS-TBNA** Francisco Guillermo Puig Sanchez (sevilla, Spain), Maria Barca Hernando, Lucas Román Rodríguez, Eduardo Márquez Martín, Beatriz Romero Romero, José Martín Juan
2861	**Utility of linear endobronchial ultrasound for diagnosis and mutational analysis in centrally located intrapulmonary tumours** Alison Stockbridge (Birmingham, United Kingdom), Muhammad Majid, Rosamond Nicholson, Muhammad Tufail, R K Panchal
2862	**EBUS-TBNA FOR HILIOMEDIASTINAL LYMPH NODES DIAGNOSIS IN NON-PULMONARY NEOPLASMS** Carolina España Dominguez (Cádiz, Spain), María Pérez Morales, María Morales González, Alfonso Marín Andreu, Cayo Garía Polo
2863	**Thoracic endosonography (EBUS/EUS-b). A single center retrospective analysis.** Serafeim Chrysikos (Athens, Greece), Theodoros Karampitsakos, Maria Anyfanti, Ourania Papaioannou, Georgios Hillas, Katerina Dimakou
2864	**Can the convex probe endobronchial ultrasound-assisted transbronchial needle method establish the diagnosis of anthracosis in patients with enlarged mediastinal lymph nodes?** Gülçehre Oğuztürk (Istanbul, Turkey), Ekrem Cengiz Seyhan, Halit Cinarka, Hasan Akin, Mehmet Atilla Uysal
2865	**Role of EBUS-TBNA in the study of PD-L1 expression in patients with non-small cell lung cancer (NSCLC)** Francisco Guillermo Puig Sanchez (sevilla, Spain), Lucas Román Rodríguez, María Barca Hernando, Eduardo Márquez Martín, Beatriz Romero Romero, José Martín Juan
2866	**Endosonography in diagnosis of mediastinal lymphoma - is it too weak to be used?** Ilya Sivokozov (Moscow, Russian Federation), Irina Shabalina, Dmitry Dedushkin, Galina Evgushenko, Yuri Berezovsky, Natalya Makaryants, Natalya Karpina
2867	**Utility & safety of endoscopic ultrasound guided sampling of mediastinal nodes or lesions with bronchoscope(EUSB).** Abhijit Vinod Ahuja (Mumbai (Maharashtra), India), Ankan Banerjee, Dhammdeep Kadam, Sagar Raiya, Jeenam Shah, Rajiv Goyal
2868	**Comparative efficacy of radial endobronchial ultrasound versus virtual bronchsocopy in patients with peripheral pulmonary lesions** Yana Chesalina (Moscow, Russian Federation), Dmitry Dedushkin, Irina Shabalina, Yuri Berezovsky, Galina Evgushenko, Natalya Karpina, Ilya Sivokozov
2869	**Role of radial EBUS cryobiopsy in peripheral pulmonary lesions: a case series** Sameer Arbat (Nagpur (Maharashtra), India), Ashok Arbat, Swapnil Bakamwar, Parimal Deshpande

2870 **EUS-B-FNA enhances the diagnostic yield of EBUS bronchoscopy examination for intrathoracic lesions**
Masahide Oki (Nagoya, Japan), Hideo Saka, Yoshihito Kogure, Hideyuki Niwa, Fumie Shigematsu, Akane Ishida, Atsushi Torii, Chiyoe Kigtagawa

Pre-congress content Session 192 00:00 - 23:59

E-poster session: Tapas of respiratory physiotherapy

Disease(s) : Airway diseases | Respiratory critical care | Interstitial lung diseases | Sleep and breathing disorders

Method(s) : General respiratory patient care | Pulmonary function testing | Pulmonary rehabilitation | Physiology | Cell and molecular biology | Surgery

Chairs : Christian Osadnik (Melbourne, Australia), Victoria Alcaraz Serrano (Barcelona, Spain)

2871 **Optoelectronic plethysmography: reference values for breathing pattern**
Liliane Mendes (Belo Horizonte (MG), Brazil), Raquel Britto, Guilherme Fregonezi, Vanessa Resqueti, Marina Fagundes, Armèle Dornelas, Renata De Souza, Daniella Brandão, Verônica Parreira

2872 **Thoracic/abdominal kinematics of children and adolescents with asthma before and after physical effort**
Evelim Gomes (São Paulo (SP), Brazil), Carla Cavassini, Maisi David, Josiane Luiz, Dirceu Costa

2873 **Effects of the elastic tape on dyspnea, health status, and health-related quality of life in individuals with COPD: a randomized controlled trial**
Eloise Santos (São Paulo, Brazil), Thiago Fernandes, Rafaella Xavier, Regina Carvalho-Pinto, Rafael Stelmach, Celso Carvalho

2874 **Decision tree models as a classifier of endothelial function based on strength, pulmonary and cardiac function in COPD: Preliminary analysis.**
Renata Mendes (Sao Carlos (SP), Brazil), Nathany Souza Schafauser, Jorge Manuel Oliveira Henriques., Erika Zavaglia Kabbach., Alessandro Domingues Heubel, Bruna Shara Vidal De Oliveira., Valéria Amorim Pires Di Lorenzo., Meliza Goi Roscani., Audrey Borghi-Silva.

2875 **Dynamic Balance, Exercise Capacity and Muscle Oxygenation in Children with Non Cystic Fibrosis Bronchiectasis**
Jan Dik (Ankara, Turkey), Haluk Tekerlek, Melda Saglam, Naciye Vardar Yagli, Ebru Calık Kutukcu, Deniz Inal Ince, Deniz Dogru Ersoz

2876 **Clinical characteristics of COPD Phenotypes**
Alda Sofia Pires De Dias Marques (Aveiro, Portugal), Ana Machado, Sara Souto-Miranda, Crsitina Jácome, Joana Cruz, Ana Oliveira, Vera Enes, Vera Afreixo, Vitória Martins, Lília Andrade, Carla Valente, Diva Ferreira, Paula Simão, Ana Tavares

2877 **The relationship of walking speed with clinical parameters in patients with non-cystic fibrosis bronchiectasis**
Buse Ozcan Kahraman (Izmir, Turkey), Melike Mese, Sema Savci, Aylin Tanriverdi, Damla Gündüz, Can Sevinc

2878 **The prevalence of poor fitness in children in a regional multidisciplinary severe asthma clinic, UK**
Claire Hepworth (Liverpool (Merseyside), United Kingdom), Neil Mingaud, Sioned Davies, Philip Lawrence, Andrew Lilley, Lucy Gait, Lynsey Brown, Victoria Worrall, Christopher Grime, Rebecca Thursfield, Ian Sinha, Mg Semple

2879 **Implementation of immersive virtual reality influences outcomes of exercise test**
Sebastian Rutkowski (Opole, Poland), Patryk Szary, Anna Rutkowska, Jerzy Sacha, Richard Casaburi

2880 **Could step and stepper tests be valid to assessing the exercise and functional capacities in patients with COPD? Results from a systematic review.**
Rui Vilarinho (Porto, Portugal), Cátia Caneiras, Antonio Mesquita Montes

2881 **COMPARISON OF PHYSICAL PERFORMANCE AND SPIROMETRY VALUES ACCORDING TO FALL RISK OF COPD SUBJECTS**
Beyza Nur Karadüz (Ankara, Turkey), Yasemin Cirak, Ebru Calik-Kutukcu, Gul Deniz Yilmaz-Yelvar, Nurgul Durustkan-Elbasi

2882 **Functional capacity categorization of pulmonary fibrosis patients according International Classification of Functioning, Disability and Health (ICF) qualifiers.**
Carina Nunes (São Paulo (SP), Brazil), Patricia Lira Dos Santos, Soraia Micaela, Frederico De Melo Cruz, João Carlos Ferrari Correa, Ivan Peres Costa, Luciana Maria Malosa Sampaio

2883 **Respiratory muscle function in patients with gastroesophageal reflux disease with extraesophageal symptoms**
Katerina Neumannova (Olomouc, Czech Republic), Jaromir Zatloukal, Pavla Horova, Tamara Michalcikova, Martin Dvoracek

2884 **Evaluation of respiratory muscle strength and functional capacity in patients with different oncological surgery**
Fatma Rümeysa Kasap (Ankara, Turkey), Naciye Vardar Yağlı, Melda Sağlam, Deniz Inal Ince, Derya Karakoç, Erhan Hamaloğlu

2885 **Hand grip strength is associated with maximal inspiratory pressure in patients with chronic obstructive pulmonary disease**
Akira Tamaki (Kobe, Japan), Mio Koizumi, Hiroshi Tamura

2886 **A comparison of respiratory functions, peripheral muscle strength and postural impairments between patients with different severity of obstructive sleep apnea syndrome (OSAS)**
Nurel Ertürk (Trabzon, Turkey), Ebru Calik-Kutukcu, Hulya Arikan, Hakan Caliskan, Deniz Inal-Ince, Sema Savci, Melda Saglam, Naciye Vardar-Yagli, Hikmet Firat, Melike Yuce-Ege, Sadik Ardic

2887 **Comparison of pulmonary functions and quality of life in patients with parkinson's disease and multiple system atrophy**
Begum Unlu (Istanbul, Turkey), Semra Oguz, Bayram Kapsigay, Eren Timurtas, Mïne Gülden Polat, Hülya Apaydın

2888 **Upper airway function in impair trunk motor control multiple sclerosis patients: an observational study.**
Esther Prados Román (Granada, Spain), Alejandro Heredia Ciuró, María Granados Santiago, Janet Rodríguez Torres, Irene Cabrera Martos, Marie Carmen Valenza

2889 **Exercise-induced bronchoconstriction in marathon runners is associated with higher nasal neutrophilic infiltrate after marathon**
Juliana Santos (Salvador (BA), Brazil), André Bachi, Luiz Luna Junior, Roberta Foster, Ana Sierra, Marino Benetti, José Araújo, Nabil Ghorayeb, Maria Kiss, Dominique Bullens, Rodolfo Vieira, Mauro Vaisberg

2890 **Marathon Running Modulates Lung Mechanics and Pulmonary and Systemic Immune Response in Amateur Athletes**
Thiago Alves (São José dos Campos, Brazil), Ana P Rennó-Sierra, Maysa A. R. Brandão-Rangel, Renilson Moraes-Ferreira, Ana Silva-Reis, Tiago Alencar-Lima, Rodolfo P. Vieira

Pre-congress content Session 193 00:00 - 23:59

E-poster session: Asthma science: novel targets and mechanisms

Disease(s) : Airway diseases Interstitial lung diseases

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

Chairs : Christopher E. Brightling (Leicester (Leicestershire), United Kingdom)

2891 **Identification of mechanism-specific biomarkers to guide development of the lung-selective inhaled pan-JAK inhibitor TD-8236**
Emma Gordon (South San Francisco, United States of America), Elad Kaufman, Reuben Sana, Alexander Mcnamara, Nathan Pfeifer, Edmund J. Moran, Glenn D. Crater, Melanie A. Kleinschek, Jacky Woo, Thomas Southworth, Thomas Scott, Dave Singh

2892 **Oligomeric proanthocyanidin attenuated asthma severity by rebalanced epithelial phenotypes and airway microenvironment**
Xiaoning Zeng (Nanjing, China), Yihang Gu, Xiuhua Zhong, Hao Gu, Yuan Ma

2893 **Precision-cut lung slices as an in vitro model for testing of novel therapeutic agents**
Daniela Belamaric (Zagreb, Croatia), Matea Cedilak, Vedrana Radovanović, Mihailo Banjanac, Lidija Pribolsan, Vesna Erakovic Haber, Martina Bosnar

2894 **Thrombin induces stomatin-like protein 2 (STOML2) expression and IL-8/CXCL8 release by ROCK, JNK, and PEA3 pathways in human lung epithelial cells**
Bing-Chang Chen (Taipei, Taiwan), Chien-Huang Lin

2895 **A CADSET WP4 transcriptomic analysis of Asthma and COPD overlap**
Ian M. Adcock (London, United Kingdom), Kai Sun, Nazanin Zounemat Kermani, Lies Lahousse, K Fan Chung, Rosa Faner, Gavin Donaldson, Jadwiga Wedzicha, Alvar Agusti, Maarten Van Den Berge

2896 **EP4 agonist increases myeloid derived suppressor cells activity and reduces airway inflammatory events in a murine model of asthma**
Saeed Kolahian (Tübingen, Germany), Chiel Van Geffen, Astrid Dießler, Sandra Beer-Hammer, Bernd Nürnberg

2897 **A novel protective role of prostaglandin D2 in antigen-induced bronchoconstriction**
Jesper Säfholm (Solna, Sweden), Willem Abma, Jieliu Liu, David Balgoma, Johan Kolmert, Alexander Fauland, Craig E. Wheelock, Mikael Adner, Sven-Erik Dahlén

2898	**Bronchial thermoplasty for the treatment of asthma patientswith COPD characteristics: an exploratory histopathological evaluation.** Eleni Papakonstantinou (Thessaloniki, Greece), Triantafyllia Koletsa, Michael Roth, Meropi Karakioulaki, Spasenija Savic, Leticia Grize, Michael Tamm, Daiana Stolz
2899	**Degeneration of nerve fibers in chronic obstructive lung disease and usual interstitial pneumonia** Johannes Leopold (, Austria), Luka Brcic, Sylvia Eidenhammer, Wim Timens, Helmut H. Popper
2900	**IND/GLY/MF: synergism in medium and small human hyperresponsive airways** Paola Rogliani (Roma (RM), Italy), Beatrice Ludovica Ritondo, Ivan Nikolaev, Mario Cazzola, Maria Gabriella Matera, Luigino Calzetta
2901	**The effect of inhaled corticosteroids on airway Na/K ATPase content in patients with asthma** Morten Hvidtfeldt (København V, Denmark), Alexis Pulga, Asger Sverrild, Morten Hostrup, Caroline Sanden, Ole B Nielsen, Daisy Bornesund, Carl-Magnus Clausson, Jonas S Erjefält, Celeste Porsbjerg
2902	**GB001 potently inhibits PGD2 metabolite-induced DP2-mediated cell signaling and eosinophil activation** Susan Murphy (San Diego, United States of America), Taylor Ismaili, Kristen Taylor Meadows, Sunil Sahdeo, Hector Ortega, Laura Carter, Luisa Salter-Cid
2903	**Differential effects of pharmacological leukotriene pathway modulators in a human lung tissue explant model** Henric Olsson (Lund, Sweden), Stefan Vollmer, Lisa Israelsson, Julia Lindgren, Zala Jevnikar Rojnik
2904	**Pioglitazone inhibits obesity-related airway hyperreactivity** Zhenying Nie (Portland, United States of America), David Jacoby , Allison Fryer
2905	**Anti-inflammatory properties of synthetic and endogenous Rev-Erb-alpha agonists.** Eva Sturm (Graz, Austria), David Roula, Petra Luschnig, Iris Red, Akos Heinemann
2906	**PI3K inhibitor add-on strategy improve glucocorticoid insensitivity in severe asthma** Zhihong Chen (Shanghai, China), Jin Bi, Zhihui Min, Chunling Du

Pre-congress content Session 194 00:00 - 23:59

E-poster session: Management issues in thoracic oncology

Disease(s) : Thoracic oncology Airway diseases

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

Chairs : Susanne Lang (Jena, Germany), Georgia Hardavella (Athens, Greece)

2907	**Evaluating the outcomes of patients with haemoptysis referred to two rapid-access lung cancer clinics in the UK** Jonathan Noble (Bristol, United Kingdom), Helen Mcdill, Clemency Clarke, Eleanor Barton, Martin Plummeridge, Anna Bibby, Andrew Low
2908	**Rationalising the lung cancer diagnostic pathway with CT triage; a single centre UK experience.** Eleanor Barton (Bristol, United Kingdom), Helen Mcdill, Jonathan Noble, Martin Plummeridge, Anna Bibby
2909	**The role of a dedicated chest x-ray reporting tool in the lung cancer diagnostic pathway** Helen Mcdill (Bristol (Avon), United Kingdom), Jon Noble , Eleanor Barton, Clemency Clarke, Martin Plummeridge, Anna Bibby, Andrew Low
2910	**The travel burden for patients diagnosed with lung cancer at a District General Hospital in South East London.** Nirav Shah (London, United Kingdom), Poppy Denniston, Ross Sayers, Edward Alveyn
2911	**Route of referral correlates to lung cancer stage and with outcomes at a District General Hospital in South East London.** Nirav Shah (London, United Kingdom), Poppy Denniston, Ross Sayers, Edward Alveyn
2912	**RAPID lung cancer diagnostic and care pathway from referral to treatment** Adnan Amir (Hull, United Kingdom), Alison Spray, Nicola Haley, Katheryn Gracie, Alison Gill
2913	**Transforming the Portsmouth Hospitals Lung Cancer Pathway (LCP)** Lauren Fox (Southampton, United Kingdom), David Lodge, Kate Bentley, Laura Wiffen, Clare Bradley, Mohamed Ibrahim, Alexander Hicks
2914	**Does a MultiDisciplinary Team approach affect time to treatment in NSCLC?** Fausto Leoncini (Montespertoli (FI), Italy), Guido Levi, Mauro Novali, Federico Quadri, Elsa Martinelli, Michela Bezzi

2915	**Factors associated with lung cancer in patients referred to a fast-track clinic** Helen Mcdill (Bristol (Avon), United Kingdom), Jon Noble, Eleanor Barton, Clemency Clarke, Martin Plummeridge, Andrew Low, Anna Bibby
2916	**Nutritional assessment for patients with lung cancer** abdmouleh khouloud (Sfax, Tunisia), Ayadi Hajer, Kallel Nessrine, Yangui Ilhem, Feki Walid, Kammoun Sami
2917	**Correlation of Imprint and Crush cytology with Bronchoscopic biopsy in the diagnosis of Bronchogenic carcinoma** Pratikchya Karki (Biratnagar, Nepal), Ashesh Dhungana, Samir Neupane
2918	**Evolution in the pathological study of lung cancer** Alvaro Martinez Mesa (Malaga, Spain), Nuria Reina Marfil, Eva Cabrera Cesar, Ana Aguilar Galvez, Esther Sanchez, Maria Carmen Fernandez Aguirre
2919	**Towards personalized treatment in non-small-cell lung carcinoma** Alvaro Martinez Mesa (Malaga, Spain), Nuria Reina Marfil, Eva Cabrera Cesar, Ana Aguilar Galvez, Ester Sanchez Alvarez, Maria Carmen Vera Sanchez
2920	**EQ-5D-3L questionnaire for quality of life assessment among lung cancer patients** Baraa Ben Bdira (Monastir, Tunisia), Imen Gargouri, Wafa Benzarti, Sana Aissa, Asma Knaz, Abdelaziz Hayouni, Ahmed Abdelghani, Abdelhamid Garrouch, Mohamed Benzarti
2921	**Characteristics of lung cancer in our hospital in the last two years** Sofía Jaurrieta Largo (Valladolid, Spain), Rafael López Castro, Marta Belver Blanco, Blanca De Vega Sánchez, Vicente Roig Figueroa, Carlos Disdier Vicente
2922	**Our experience and outcomes following indwelling pleural catheter (IPC) insertion at the University Hospital Coventry and Warwickshire (UHCW) and the effect of primary tumour site on outcomes.** Viren Ahluwalia (, United Kingdom), Vishal Nathwani, Joseph Glover
2923	**Assessing the role of pleural fluid in current cancer diagnostic pathway.** Catherine Doig (London, United Kingdom), Christopher Butter, Nikolaos Hadjisavvas, Sujoy Saikia, Ali Fawzi, Madeleine Hewish, Shashank Sharma
2924	**Quality of life and psycho-affective disorders in patients treated for lung cancer** Houda Snène (Tunis, Tunisia), Line Kaabi, Hana Blibech, Donia Belkhir, Asma Zaafouri, Meriem Ben Rhouma, Nadia Mehiri, Nozha Ben Salah, Bechir Louzir
2925	**Performance and safety of endoscopic procedures in superior vena cava syndrome** Catherine Boily-Daoust (Montréal (QC), Canada), Alexandre Plante, Cedrick Adam, Marc Fortin

Pre-congress content — Session 195 — 00:00 - 23:59

E-poster session: Aspects of pulmonary rehabilitation: part 1

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

Method(s) : Pulmonary rehabilitation | Surgery | General respiratory patient care

Chairs : Theresa Harvey-Dunstan (Loughborough (Leicestershire), United Kingdom), William Poncin (Bruxelles, Belgium)

2926	**Pulmonary rehabilitation in patients with pulmonary sarcoidosis: impact on exercise capacity and fatigue.** Anita Grongstad (Slattum, Norway), Martijn A Spruit, Line M Oldervoll, Nina K Vøllestad, Anne Edvardsen
2927	**The effect of PR on dyspnea during daily life: do we improve all self-reported items of the CRDQ-D?** Sofie Breuls (Leuven, Belgium), Thierry Troosters, Astrid Blondeel, Wim Janssens, Heleen Demeyer
2928	**Frailty in chronic respiratory disease: direction of response to pulmonary rehabilitation** Kola Akinlabi (London, United Kingdom), Binny Patel, Ken Johnston, Radoslav Trojak, Bunmi Adebajo, Gavin Sandercock
2929	**A profile of frailty in a population of stable COPD outpatients using supplemental oxygen** Ciara Gleeson (Co. Kildare, Ireland), Robert Keegan, Kate Devenney, Emer O'Shea, Julie Broderick
2930	**Outcomes of hospital-based pulmonary rehabilitation in patients with multimorbidity** Maria Koulopoulou (London, United Kingdom), Michelle Johnson, Gemma Kerslake, Peter Cho, Charles Reilly, Laura-Jane Smith, Irem Patel
2931	**Multi-dimensional evaluation of daily living activities in lung cancer** Hamide Sahin (Ankara, Turkey), Melda Saglam, Naciye Vardar Yaglı, Kübra Kılıc, Ebru Calık Kütükcü, Deniz Inal Ince, Saadettin Kılıckap

2932	**Activities of daily living: a comparison between patients with COPD and ILD** Sara Souto-Miranda (Aveiro, Portugal), Ana Alves, Miguel P. Almeida, Ângela Albuquerque, Carla Valente, Vitória Martins, Pedro Ferreira, Alda Marques
2933	**Occupational Performance in Patients with Bronchial Asthma** Melda Saglam (Ankara, Turkey), Husna Guzel, Serkan Pekcetin, Naciye Vardar Yagli, Hasim Boyaci
2934	**The Association Between BODEx Index and Activities of Daily Living, Occupational Performance, Psychosocial Status and Health Related Quality of Life in Patients with COPD** Beyza Nur Karadüz (Ankara, Turkey), Ebru Calik-Kutukcu, Cigdem Oksuz, Melda Saglam, Deniz Inal-Ince, Naciye Vardar-Yagli, Sema Savci, Tulin Duger, Hulya Arikan, Lutfi Coplu
2935	**Minimal clinically important difference of the Brief-BESTest in COPD** Cátia Paixão (Guarda, Portugal), Patrícia Rebelo, Ana Oliveira, Cristina Jácome, Joana Cruz, Vitória Martins, Paula Simão, Alda Marques
2936	**Predictive modelling for optimization of preoperative care in multimorbid patients undergoing major surgery** Anael Barberan-Garcia (Barcelona, Spain), Mar Montane-Muntane, Alicia Hervas, Pilar Hurtado, Betina Campero, Bárbara Romano-Andrioni, Silvia Teres-Belles, Elena Gimeno-Santos, Josep Roca, Graciela Martinez-Palli
2937	**Physical activity “responders” vs “non-responders” after exercise training with air or oxygen in people with COPD and exercise-induced desaturation** Zoe McKeough (Sydney (NSW), Australia), Regina Leung , Anne Holland, Kylie Hill, Norman Morris, Sue Jenkins, Lissa Spencer, Catherine Hill, Annemarie Lee, Helen Seale, Nola Cecins, Christine Mcdonald, Jennifer Alison
2938	**Integrating Ambulatory Oxygen assessments into a specialist Interstitial Lung Disease (ILD) clinic** Jennie Turnbull (Maidstone, United Kingdom), Lynn Mcdonnell, Wai Lam-Richardson, Alex West, Amy Dewar
2939	**Does pulmonary rehabilitation (PR) affect dysfunctional breathing (DB) in asthmatics?** Franziska Ebert (Bad Reichenhall, Germany), Michael Schuler, Dennis Nowak, Larissa Schwarzkopf, Boglárka Szentes, Konrad Schultz
2940	**Functional ability in patients with COPD** Ana Filipa Machado (Senhora da Hora, Porto, Portugal), Sara Souto-Miranda, Ana Tavares, Ana Oliveira, Cristina Jácome, Joana Cruz, Bruno Cabrita, Catarina Cascais Costa, Carla Valente, Vitória Martins, Lília Andrade, Paula Simão, Alda Marques
2941	**The effects of virtual reality on pulmonary functions, functional level and pain in the early period after open heart surgery** Zubeyr Tasci (İstanbul, Turkey), Yasemin Çirak, Nurgul Elbasi, Yunus Emre Tutuneken, Burcu Pamukcu, Aysegul Asalıoğlu

Pre-congress content — Session 196 — 00:00 - 23:59

E-poster session: Phenotyping sleep-disordered breathing and its impact on various diseases

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

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

Chairs : Johan Verbraecken (Edegem (Antwerp), Belgium), Athanasia Pataka (Thessaloniki, Greece)

2942	**Late Breaking Abstract - Incidence of Insomnia and its correlations with parameters of polysomnography** Athina Vlachou (Athens, Greece), Kallirroi Lambrou, Emmanouil Vagiakis
2943	**Sleep quality in patients with COPD: clinical and polysomnographic features** Julia Sampol Sirvent (Barcelona, Spain), Marc Miravitlles Fernández, Gabriel Sampol Rubio, Alexa Núñez Dubon, Odile Romero Santo Tomás, Jaume Ferrer Sancho
2944	**Assessment of Sleep Quality among Patients who Attended Pulmonary Rehabilitation Department in KAMC.** Jawaher AlOtaibi (Saudia Arabia, Saudi Arabia), Munirah Alhwaimel, Sara Al Rashidi, Basma Hawsawi, Yassin Ismaiel
2945	**Sleep disorders in a cohort of Amyotrophic Lateral Sclerosis patients** Bebiana Da Conceição Fernandes Palheiros Conde (Vila real, Portugal), Luisa Nascimento, Margarida Carvalho, Joelma Silva, Catarina Parra, Elsa Matos
2946	**ARE ANIMALS OUR BEST FRIENDS IN THE BEDROOM?** Alexandre Manuel Carvalho da Silva Almendra (Braga, Portugal), Vera Clérigo, João Carvalho, José Pereira, Paula Pinto, Raquel Matos, Helena Estevão, Joaquim Moita

2947 **EAT, BREATHE, SLEEP with Osteogenesis Imperfecta (OI)**
Antonella LoMauro (Milano (MI), Italy), Ramona De Amicis, Vittorio Landoni, Giulia De Carlo, Alice Delle Donne, Luana Vicentini, Paolo Fraschini, Simona Bertoli, Andrea Aliverti

2948 **Is there a mortality disadvantage in tracheobronchomalacia?**
Nneka Nwosu (Liverpool (Merseyside), United Kingdom), Hassan Burhan, Ari Manuel

2949 **Analysis of pulmonary function and obstructive sleep apnea in patients with COPD, asthma and idiopathic pulmonary fibrosis.**
Kostiantyn Bazyka (Kyiv, Ukraine), Liudmyla Shvaiko, Olena Stadniychuk, Tetiana Kharchenko, Tetiana Kuzmich, Tetiana Khvostenko

2950 **Working conditions and insomnia: the case of Greek hospital physicians**
Eirini-Sofia Karampi (Peristeri - Athens, Greece), Katerina Baou, Eleni Perraki, Adamantia Sotiriou, Martha Andritsou, Nicolaos Laschos, Spyridon Zakynthinos, Spyridon Mentzelopoulos, Eleni Loutrari, Emmanouil Vagiakis

2951 **Disturbed sleep and health-related quality of life among hospital physicians**
Eirini-Sofia Karampi (Peristeri - Athens, Greece), Katerina Baou, Adamantia Sotiriou, Eleni Perraki, Martha Andritsou, Foteini Dariotaki, Stavroula Koutsoumpou, Angeliki Giamarelou, Anastasios Makris, Spyridon Zakynthinos, Spyridon Mentzelopoulos, Eleni Loutrari, Emmanouil Vagiakis

2952 **Effects of non-invasive mechanical ventilation (NIV) on the upper airway (UA) in patients with amyotrophic lateral sclerosis (ALS) and role of respiratory endoscopy in their assessment**
Mikel Sarasate Azkona (Barcelona, Spain), Yuliana Pascual, Eva Farrero, Ana Cordoba, Noelia Cubero De Frutos, Marta Diez Ferrer, Cristina Martín Cabeza, Lídia Méndez Mangas, Rosa Lopez Lisbona, Enric Prats

2953 **Respiratory Sleep Disorders Among 37 Patients With Laryngeal Dysfunction.**
Kamila Sedkaoui (Toulouse Cedex 9, France), Emmanuelle Mouchon, Woisard Virginie, Sabine Crestani, Pascale Fichaux-Bourin, Marianne Lescouzeres, Alain Didier

2954 **Respiratory events and nocturnal hypercapnia in patients affected by Amyotrophic lateral sclerosis: the role of body mass index (BMI)**
Grazia Crescimanno (Palermo (PA), Italy), Maria Canino, Manuela Bertini, Oreste Marrone

2955 **Sleep disorders in patients with chronic obstructive pulmonary disease**
Bohdana Doskaliuk (Ivano-Frankivsk, Ukraine), Roman Yatsyshyn, Petro Gerych, Natalia Cherniuk

2956 **Characterisation of sleep disordered breathing & mood disorders in patients with heart failure**
Maitri Munsif (Melbourne, Australia), Rohit Srivatsa, Belinda Liu, Jyotika Prasad, Belinda Miller, Matthew Naughton, Eli Dabscheck

2957 **Sleep disorder and its associated risk of cardiac arrhythmia in Asian population**
I-Duo Wang (Taipei, Taiwan), Wu-Chien Chien, Pei-Yi Tsai, Chi-Hsiang Chung, Chung-Kang Peng

2958 **Rare cause of central hypoventilation: ROHHAD Syndrome**
Gizem Özcan (Ankara, Turkey), Elif Özsu, Fazılcan Zirek, Nazan Çobanoğlu

2959 **Nocturnal hypoxemia, ambulatory blood pressure and chronic mountains sickness in the highest city in the world**
Elisa Perger (Milano, Italy), Sebastien Baillieul, Francois Esteve, Aurelien Pichon, Davide Soranna, Stephane Doutreleau, Yann Savina, Mathilde Ulliele-Roche, Julien V Brugniaux, Emeric Stauffer, Laura Oberholzer, Connor Howe, Ivan Hannco, Carolina Lombardi, Grzegorz Bilo, Renaud Tamisier, Jean-Louis Pepin, Samuel Verges, Gianfranco Parati

2960 **The ALONNISOS STUDY: Cross-sectional study of the prevalence of Obstructive Sleep Apnea Syndrome (OSAS) and Chronic Obstructive Pulmonary Disease (COPD) in the general population of Alonissos.**
Sotirios Zarogiannis (Larisa, Greece), Petros Kassas, Evdoxia Gogou, Charalampos Varsamas, Konstantinos Vogiatzidis, Aggeliki Psatha, Maria Pinaka, Dimitra Siachpazidou, Alexandra Sistou, Eleftherios Papazoglou, Despoina Kalousi, Konstantina Vatzia, Kiriaki Astara, Nikolaos Tsiouvakas, Konstantinos Gourgoulianis

Pre-congress content — Session 197 — 00:00 - 23:59

E-poster session: A knowledge update on respiratory muscle function, assessment and training

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

Method(s) : Pulmonary function testing | Pulmonary rehabilitation | Respiratory intensive care | Physiology | General respiratory patient care | Imaging

Chairs : Melda Saglam (Ankara, Turkey), Zafeiris Louvaris (Leuven, Belgium)

2961 **Relationship between the respiratory function with motor functionality in Duchenne Mucular Dystrophy**
Vanessa Resqueti (Natal (RN), Brazil), Layana Marques, Pricila Rezende, Ilsa Priscila Santos, Karyna Fonseca, Marina Lyra, Mario Emilio Dourado, Guilherme Fregonezi

2962	**Correlations between respiratory function and functional status in Amyotrophic Lateral Sclerosis patients** Karen Pondofe (Natal, Brazil), Ozana Brito, Ana Aline Marcelino, Layana Marques, Pricila Rezende, Italo Nathan Silva, Antonio Sarmento, Mario Emilio Dourado, Guilherme Fregonezi, Vanessa Resqueti
2963	**Comparison of two different methods for assessing inspiratory muscle strength in patients with multiple system atrophy: a pilot study** Begum Unlu (Istanbul, Turkey), Semra Oguz, Mine Gulden Polat, Saadet Ufuk Yurdalan, Sibel Ertan, Hulya Apaydın
2964	**Expiratory muscle training improves pharyngeal muscles and swallowing function in patients with dysphagia** Yuichi Tawara (Hamamatsu, Japan), Ichiro Fujishima, Satoshi Hanai, Shinichi Arizono, Ryo Kozu
2965	**Mechanisms of exertional dyspnea in unilateral diaphragmatic dysfunction** Tin Gojevic (leuven, Belgium), Mayra Caleffi Pereira, Sauwaluk Dacha, Zafeiris Louvaris, Dries Testelmans, Ghislaine Gayan-Ramirez, Rik Gosselink, Daniel Langer
2966	**Is it more effective to begin with inspiratory muscle warm-up before inspiratory muscle training in COPD patients? Preliminary findings of a randomized controlled trial** Ridvan Aktan (balcova (izmir), Turkey), Sevgi Özalevli, Aylin Ozgen Alpaydin
2967	**Enhanced balance strategy after inspiratory muscle training in patients with COPD, an interim analysis** Lotte Janssens (Diepenbeek, Belgium), Daniel Langer, Sauwaluk Dacha, Zafeiris Louvaris, Simon Brumagne, Nina Goossens, Charlotte Amerijckx, Wim Janssens, Luc Janssens, Rik Gosselink
2968	**Effect of expiratory muscle training on peak cough flow in children and adolescents with cystic fibrosis** Cigdem Emirza (İstanbul, Turkey), Goksen Kuran Aslan, Ayse Ayzit Kilinc, Haluk Cezmi Cokugras
2969	**Respiratory Muscle Endurance, Peripheral Muscle Strength and Walking Parameters in Adult Cystic Fibrosis Patients** Rabia Bagci (Bursa, Turkey), Naciye Vardar Yaglı, Melda Saglam, Deniz Inal Ince, Fatma Gül Yazıcıoglu, Ebru Çelebioglu
2970	**Comparison of Respiratory Muscle Strength, Functional Capacity and Peak Oxygen Uptake In Patients With End-Stage Liver Disease and Liver Transplantation** Bilge Taşkın (Ankara, Turkey), Naciye Vardar-Yagli, Melda Saglam, Ebru Calik-Kutukcu, Deniz Inal-Ince, Onur Keskin, Ahmet Bulent Dogrul
2971	**Relationship of Respiratory Muscle Endurance Workload with Maximal Oxygen Consumption and Fatigue in Individuals Surviving Colorectal Cancer** Mehmet Fatih Sanver (Ankara, Turkey), Naciye Vardar Yağlı, Melda Sağlam, Haluk Tekerlek, Ebru Çalık Kütükçü, Deniz Inal Ince, Saadettin Kılıçkap
2972	**The effects of expiratory muscle training after colorectal surgery** Erhan Kizmaz (Denizli, Turkey), Orcin Tellï Atalay, Suleyman Gursoy, Ugur Sungurtekin
2973	**Relation of Respiratory Function and Functional Capacity, Body Composition in Individuals with Alzheimer's Disease** Kübra Nur Menengiç (İstanbul, Turkey), Feray Güngör, Uğur Ovacık, Nilgün Çınar, Ipek Yeldan
2974	**The immediate effect of manual diaphragmatic stretching technique on diaphragmatic mobility among cerebral palsy: a pilot study** Surussawadi Bennett (Khon Kaen, Thailand), Wantana Siritaratiwat, Nittaya Tanrangka, Michael Bennett, Jaturat Kanpittaya
2975	**Is the sniff value similar to PImax and inspiratory peak pressure in heathy adults?** Ana Lista-Paz (A Coruña, Spain), Sonia Souto Camba, Luz González Doniz, Alejandro Quintela Del Río, Ane Arbillaga Etxarri, Elena Gimeno-Santos, Jordi Vilaró, Rodrigo Torres-Castro, Cristina Serrano Veguillas, Ana B Varas De La Fuente , Pilar Bravo Cortés , Concepción Martín Cortijo , Esther García Delgado, José Luis Valera Felices , Carolina González Montáñez, Esther Giménez Moolhuijzen, Yolanda Sanesteban Hermida , Rocío Martín Valero, Guilherme A Fregonezi , Marina Francín Gallego, Beatriz Herrero Cortina, Jorge Álvarez Rivas , Antonio T Ríos Cortés
2976	**Intra- and inter-rater reliability of the manual method of measuring respiratory muscle coordination.** Antenor Rodrigues (Toronto, Canada), Yijun Xiong, Irene Telias, Ewan Goligher, Laurent Brochard, W. Darlene Reid
2977	**Inspiratory muscle timing activation during inspiratory loading in healthy adults- preliminary results.** Antenor Rodrigues (Toronto, Canada), Yijun Xiong, Irene Telias, Dmitry Rozenberg, Ewan Goligher, Laurent Brochard, W. Darlene Reid
2978	**Acute effects of inspiratory muscle training at different intensities in healthy young people** Aylin Tanrıverdi (Izmir, Turkey), Sema Savci, Buse Ozcan Kahraman, Ismail Ozsoy, Ebru Ozpelit

2979 **How is ultrasound imaging being used to assess respiratory musculature? A systematic review**
Selina M Parry (Parkville (VIC), Australia), Claire Baldwin, Catherine Granger, Kirby Mayer, Shaza Abo, Michael Paris, George Ntoumenopoulos, Amy Pastva, Doa El-Ansary, Marina Mourtzakis, Aarti Sarwal

Pre-congress content Session 198 00:00 - 23:59

E-poster session: Burden and predictive factors for chronic lung diseases and comorbidity

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

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

Chairs : Nicolas Kahn (Heidelberg, Germany), Elizabeth Sapey (Birmingham (West Midlands), United Kingdom)

2980 **Late Breaking Abstract - Switching from a disposable to a re-usable inhaler: patient satisfaction and preference**
Michael Dreher (Aachen, Germany), David Price, Asparuh Gardev, Pascale Peeters, Satish Arora, Simone Van Der Sar – Van Der Brugge, Richard Dekhuijzen, Omar Usmani

2981 **Late Breaking Abstract - Compare outcomes between COPD patients treated with tiotropium/olodaterol (TIO/OLO) and umeclidium/vilanterol (UMEC/VI)**
Swetha Palli (Ridgefield, United States of America), Caitlin Elliott, Bin Xie, Benjamin Chastek, Lindsay Bengston

2982 **Relationship of the polymorphism Lys198Asn endothelin-1 gene with COPD and coronary heart disease.**
Anastasiia Lilevska (Vinnitsa, Ukraine), Valentyna Sierkova, Olena Savytska

2983 **Arterial stiffness in patients with chronic obstructive pulmonary disease combined with arterial hypertension**
Ekaterina Makarova (Nizny Novgorod, Russian Federation), Marina Milutina , Vasily Fedotov, Nikolay Menkov, Nataliya Lyubavina, Svetlana Plastinina

2984 **Topical evaluation of growth factors in arterial remodeling in patients with COPD and osteoporosis**
Ludmila Ugay (Vladivostok (Primor'ye), Russian Federation), Evgenia A. Kochetkova, Vera Nevzorova, Tatyana Hairzamanova

2985 **The main predictors and consequences of osteosarcopenia in COPD patients**
Angelina Suleymanova (Moscow, Russian Federation), Irina Baranova

2986 **Correction of the anemia of chronic disease among COPD patients**
Anna Kovchun (Sumy, Ukraine), Vladyslava Kachkovska, Liudmyla Prystupa

2987 **Tolerability of inhalation of salt particles in COPD patients**
Ulla Møller Weinreich (Ålborg, Denmark), Sisse Dyrman Nielsen

2988 **Sputum microbiome richness is decreased in patients treated for acute exacerbations of eosinophilic chronic obstructive pulmonary disease**
Zhiyi He (Nan Ning, China), Yujing Qi

2989 **Mass spectrometry proteomic biomarkers identify acute COPD exacerbations**
Omer Elneima (Leicester, United Kingdom), Thong Huy Cao, Hamish Mcauley, Mohammadali Yavari Ramsheh, Vijay Mistry, Neil Greening, Leong Ng, Christopher Brightling

2990 **Clinical factors associated with baseline blood eosinophils among patients with asthma or COPD: NOVELTY study**
Hana Müllerová (Ickenham, United Kingdom), Donna K Finch, Alvar Agustí, Marianna Alacqua, Gary P Anderson, Richard Beasley, Laura Belton, Alex De Giorgio-Miller, J Mark Fitzgerald, Rod Hughes, Ian D Pavord, David Price, Eleni Rapsomaniki, Mohsen Sadatsafavi, Jørgen Vestbo, Elisabeth H Bel

2991 **The burden of emphysema on lung cancer prognosis**
Nieynaba N Diaye (, France), Julia Rubenstein , Hugues Begueret, Isabelle Dupin, Pauline Henrot, Elise Maurat, Remi Veillon, Chantal Raherison-Semjen, Patrick Berger, Maeva Zysman

2992 **Lung function and exercise capacity in COPD phenotypes with and without emphysema**
Øystein Rasch-Halvorsen (Trondheim, Norway), Erlend Hassel, Ben Brumpton, Haldor Jenssen, Martijn Spruit, Arnulf Langhammer, Sigurd Steinshamn

2993 **Effects of Diltiazem on pulmonary hemodynamics and right heart function in patients with chronic obstructive pulmonary disease (COPD)>**
Valentin Calancea (Chisinau, Codru, Republic of Moldova), Constantin Martiniuc, Ecaterina Luca, Nicolae Bodrug, Doina Barba, Eudochia Terna, Ion Sirbu, Nelea Ghicavii, Sergiu Matcovschi

2994 **Leptin levels and adiposity measures in overweight and obese asthma patients**
Armine Gasparyan (Moscow, Russian Federation), Nathalia Chichkova, Nathalia Serova, Evgeniy Gitel

2995	**Obesity and asthma: very long-term effect of bariatric surgery on lung function and asthma control** Yasemin Türk (Rotterdam, Netherlands), Harman K Singh, Astrid Van Huisstede, Erwin Birnie, Pieter S Hiemstra, Gert-Jan Braunstahl
2996	**A qualitative study of user perspectives on electronic monitoring devices for adherence in asthma** Ireti Adejumo (Nottingham (Nottinghamshire), United Kingdom), Mitesh Patel, Tricia M. Mckeever, Dominick E. Shaw, Manpreet Bains
2997	
2998	**Long-term echocardiographic changes with positive airway pressure therapy in obesity hypoventilation syndrome** Mª Angeles Sanchez Quiroga (Plasencia, Spain), Juan Fernando Masa Jiménez, Babak Mohklesi, Ivan Benitez, Maria Victoria Mogollón, Francisco Javier Gómez De Terreros, Auxiliadora Romero, Candela Caballero Eraso, María Luz Alonso Álvarez, Estrella Ordax Carballo, Teresa Gómez García, Mónica González, Soledad López Martín, José María Marín, Sergi Marti, Trinidad Diaz Cambriles, Eusebi Chiner, Carlos Egea , Javier Barca, Francisco José Vázquez Polo, Miguel Angel Negrin, María Martel Escobar, Jaime Corral

Pre-congress content Session 199 00:00 - 23:59

E-poster session: Clinical issues in granulomatous lung diseases

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

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

Chairs : Francesco Bonella (Düsseldorf, Germany), Chair to be confirmed

2999	**A comparison of the clinical profile of Sarcoidosis and Mediastinal TB: A prospective cohort study in a TB endemic population** Karan Madan (New Delhi (Delhi), India), Sryma Pb, Bijay Pattnaik, Saurabh Mittal, Pavan Tiwari, Vijay Hadda, Deepali Jain, Anant Mohan, Ravindra Pandey, Randeep Guleria
3000	**Pulmonary sarcoid-like granulomatosis during tumour necrosis factor-alpha inhibition: a scoping review** Allison Michaud (Calgary, Canada), Daniel Vis, Helen Lee Robertson, Jason Weatherald
3001	**Chronic Hypersensitivity Pneumonitis and mortality: impact of comorbidities** Ana Luisa Fernandes (Matosinhos, Portugal), Bruno Cabrita, Sara Dias, Jorge Ferreira, Inês Neves
3002	**Correlation among pulmonary function tests and radiologic involvement in the monitoring of sarcoidosis** Joel Francesqui (Barcelona, Spain), Marta Llabrés, Pilar Brito-Zerón, Mariana Benegas, Fernanda Hernandez-Gonzalez, Nuria Albacar, Xavier Bosch, África Muxí, Marc Boada, Marcelo Sánchez, José Ramírez, Carlos Agustí, Manuel Ramos-Casals, Jacobo Sellarés
3003	**Characterisation of patients with chronic hypersensitivity pneumonitis (CHP) - a seven year single centre experience** Abhinav Tiwari (Southampton, United Kingdom), Anna Donaldson, Thomas Jones, Vanessa Titmuss, Suresh Babu
3004	**Allergic diseases in patients with sarcoidosis- data from a tertiary pulmonary center** Piotr Lacwik (Lodz, Poland), Joanna Miłkowska-Dymanowska, Mateusz Kotecki, Łukasz Gwadera, Justyna Sobczak, Sebastian Majewski, Adam Bialas, Maciej Kupczyk, Piotr Kuna, Wojciech Piotrowski
3005	**Comorbidities in sarcoidosis: a retrospective Italian study** Ilaria Aredano (Parma (PR), Italy), Barbara Burgazzi, Elena Beneventi, Matteo Goldoni, Veronica Alfieri, Marina Aiello, Fabio Agusta, Giuseppina Bertorelli, Alfredo Antonio Chetta
3006	**The Profile of Sarcoidosis in Greece: Clinical characteristics, Extra-pulmonary manifestations, Long-term Follow-up** Ourania Koltsida (Athens, Greece), Anastasios Kallianos, Trakada Georgia, Maria Xarikiopoulou, Aggeliki Rapti
3007	**Relapse ratios and factors affecting relapse in sarcoidosis patients that are followed at least 5 years.** Nagihan Orhan Özer (istanbul, Turkey), Elif Yelda Niksarlioglu, Elif Altundas Hatman , Ayşe Yeter, Emine Şahin, Güngör Çamsarı
3008	**Clinical characteristics and prognosis of sarcoidosis in Western China: a retrospective study** Xiang Tong, Dongguang Wang, Sitong Liu, Hong Fan
3009	**Problems of diagnosis of pulmonary sarcoidosis** Zhanna Laushkina (Novosibirsk, Russian Federation)
3010	**Features of scar sarcoidosis: 20 years observation study in Kharkiv, Ukraine** Olha Konstantynovska (Kharkiv, Ukraine), Petro Poteiko, Valentyna Pyshynska

3011	**Cardiac symptoms are a survival predictor in sarcoidosis** Theresia Mikolasch (Cambridge (Cambridgeshire), United Kingdom), Henry Yung, Muhunthan Thillai
3012	**Predictors of Progression in Patients with Pulmonary Sarcoidosis** Kostiantyn Shvets (Ivano-Frankivsk, Ukraine), Mykola Ostrovskyy, Iryna Savelikhina, Oleksandr Varunkiv, Galyna Korzh, Kseniia Ostrovska
3013	**Clinical and radiological variants of fibrosis pulmonary sarcoidosis** Olga P. Baranova (St. Petersburg, Russian Federation), Alexsandra A. Speranskaya, Dali V. , Michail M. Ilkovich
3014	**Rescue administration of cyclophosphamide in patients with DAH - retrospective evaluation and outcome from our ICU** Jirí Blažek (Nezvěstice, Czech Republic), Olga Kirchnerová, David Havel, Jan Klaboch, Jan Baxa, Petra Moláčková
3015	**Personality and chronotype as predictors of sarcoidosis-associated fatigue - a cross-sectional study** Łukasz Mokros (Petrykozy-Osiedle, Poland), Joanna Miłkowska - Dymanowska, Łukasz Gwadera, Tadeusz Pietras, Paweł Górski, Wojtek J. Piotrowski
3016	**Correlation of King's Sarcoidosis Questionnaire with clinical parameters** Bjoern Frye (Freiburg, Germany), Erik Farin-Glattacker, Joachim Müller-Quernheim, Jonas C. Schupp
3017	**Methodology of improving compliance and psychoemotional stability of patients with sarcoidosis.** Marina Karuk (Smolensk, Russian Federation), Marina Karuk, Mariya Banyonis, Mariya Listopadova
3018	**Illness perceptions, coping and fatigue among patients with sarcoidosis** Linda Charvoz (Lausanne, Switzerland), Aline Tessari Veyre, Sandra Chatelain, Nicolas Domon, Dorrit Novel, Mary-Line Wiamsemsky, Selma Ahmetovic, Cécile Daccord, Adam Ogna, Laurent Nicod

Pre-congress content — Session 200 — 00:00 - 23:59

E-poster session: Physiotherapy in acute respiratory care

Disease(s) : Airway diseases | Respiratory critical care

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

Chairs : Selina M Parry (Parkville (VIC), Australia), Rik Gosselink (Leuven, Belgium)

3019	**Respiratory rate and tidal volume interaction among Venturi mask kits used at hospital settings: an in vitro study.** Luciana Chiavegato (São Paulo (SP), Brazil), Amanda Pagliocchi, José Jardim, Jorge Bonassa, Ilka Santoro
3020	**Feasibility of a NMES program in hypoxic severe hospitalized patients with COPD** Irene Torres Sanchez (Santa Fe, Spain), Andrés Calvache Mateo, Laura López López, Alejandro Heredia Ciuró, Araceli Ortiz Rubio, Marie Carmen Valenza
3021	**Postural balance and risk of falls in hospitalized individuals with exacerbation of COPD** Eloise Santos (São Paulo, Brazil), Pollyana Morais , José Lima, Rafaella Xavier, Celso Carvalho
3022	**Muscle function and functional exercise capacity during and after a severe acute exacerbation of COPD.** Kirsten Quadflieg (Maasmechelen, Belgium), Ana Machado, Marc Daenen, David Ruttens, Michiel Thomeer, Divya Mohan, Martijn A. Spruit, Chris Burtin
3023	**Determinants of COPD exacerbations by monitoring the peak expiratory flow rate and seasonal variation in Thailand: A retrospective study** Noppawan Charususin (Pathumthani, Thailand), Termpong Wongwiean, Wanupong Kitjawan, Thiti Sricharoenchai
3024	**Canadian consensus recommendations for a research agenda in pulmonary rehabilitation post-acute exacerbation of COPD** Tania Janaudis-Ferreira (Montréal (QC), Canada), Samantha Harrison, Sara Ahmed, Jean Bourbeau, Donna Goodridge, Helen-Maria Vasiliadis, Lauren Tracey, Pat Camp, Francine Campbell, Gail Dechman, Roger Goldstein, Suzanne Levitz, Gregory Moullec, Maria Sedeno, Jadranka Spahija, Michael Stickland, Joshua Wald
3025	**Acute exacerbation of COPD: A qualitative exploration of the incident symptomatic experience** Bedor Alkhathlan (Leicester, United Kingdom), Neil Greening, Theresa Harvey-Dunstan, Sally Singh
3026	**Caregivers experiences of mobilization immediately after abdominal surgery** Anna Svensson-Raskh (Huddinge, Sweden), Monika Fagevik Olsén, Malin Nygren-Bonnier, Anna Schandl
3027	**Measurement validity of an electronic inspiratory loading device during inspiratory muscle training in weaning failure patients** Marine Van Hollebeke (Leuven, Belgium), Diego Poddighe, Beatrix Clerckx, Greet Hermans, Rik Gosselink, Daniel Langer

3028	**Inspiratory muscle training with tapered flow resistive loading versus mechanical threshold loading in difficult to wean patients** Marine Van Hollebeke (Leuven, Belgium), Laura Muelas, Mariana Hoffman Barbosa, Beatrix Clerckx, Greet Hermans, Daniel Langer, Rik Gosselink
3029	**The effects of abdominal support in diaphragm function in critically ill patients: a pilot observational study** Caroline Gomes Mól (São Paulo, Brazil), Monize Alves Aquino, Renato Batista Dos Reis, Catherine Cely Oliveira, Clarice Tanaka
3030	**PHYSIOTHERAPY EARLY MOBILIZATION IN CARDIAC SURGICAL ICU.** Stefano Zampese (Ivrea, Italy), Camilo Corbellini, Floriana Pinto, Marta Lazzeri
3031	**ICU Physiotherapist's early mobilization theoretical and practical knowledge: What do they know?** Luciana Chiavegato (São Paulo (SP), Brazil), Marcella M M Fagundes Almeida, Ricardo Kenji Nawa, Natalia Ricci
3032	**Effects of muscle electrical stimulation on respiratory muscle in patients with prolonged mechanical ventilation** Yen-Huey Chen, Yi-Fei Hsin, Shu-Hsin Chen, Teng-Jen Yu, Chung-Chi Huang
3033	**Airway obstruction due to occluded cuffless tracheostomy: A prospective longitudinal study** JOSE SANCHEZ (Valencia, Spain), Maria Dels Angels Cebria I Iranzo, Sophie Périé
3034	**Severity Physiotherapeutic score applied in Intensive Care** Elisa Cristina Wendland Santos (Porto Alegre (RS), Brazil), Bilianderson Cardoso Alves, Guilherme De Moraes Maia, Natalia Coelho De Souza Maia

Pre-congress content — Session 201 — 00:00 - 23:59

E-poster session: From tobacco control policy to smoking cessation

Disease(s) : Respiratory critical care | Airway diseases | Thoracic oncology | Interstitial lung diseases | Pulmonary vascular diseases

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

Chairs : Athina Diamanti (Pefki, Greece), Elif Dagli (Istanbul, Turkey)

3035	**Trojan Horse of Tobacco Industry: Point of Sales** Elif Dagli (Istanbul, Turkey), Ummuhan Pece, Osman Elbek, Murat Guner, Pinar Ay, Tanzer Gezer, Murat Ceyhan, Fusun Yildiz
3036	**Smoke-free policy in Poland: a ten-year analysis** Mateusz Jankowski (Warsaw, Poland), Wojciech S. Zgliczyński, Jarosław Pinkas
3037	**The first report of tobacco industry interference index in Eastern Mediterranean countries: the experience of Iran based on Framework Convention on Tobacco Control (FCTC) Article 5.3** Gholamreza Heydari (Tehran, Islamic Republic of Iran)
3038	**Moist snuff a emerging trend - Regulations** Qamar Iqbal (Gujranwala, Pakistan)
3039	**Assessment of the change in burden of respiratory diseases in children and household smoking habits in Turkey after adoption of National Tobacco Control Program** Fatma Nazan Çobanoğlu (Ankara, Turkey)
3040	**Will plain packaging of cigarettes achieve the expected ? :Perception among Medical Students** Elif Dagli (Istanbul, Turkey), Pinar Ay, Yesim Yasin, Osman Elbek, Murat Guner, Tanzer Gezer, Murat Ceyhan, Fusun Yidiz
3041	**A decade after introducing WHO Report on the Global Tobacco Epidemic, trend analysis of implementation of the WHO FCTC MPOWER in Eastern Mediterranean Region** Gholamreza Heydari (Tehran, Islamic Republic of Iran)
3042	**A pilot training on tobacco brief intervention in UBI medical school: The WHO-ERS e-learning course.** Sofia Belo Ravara (Covilhã, Portugal), Hilson Cunha-Filho
3043	**Smoking cessation in secondary care: Can we do better or is this as good as it gets?** Nitika Kaushal (Bexleyheath (Kent), United Kingdom), Burhan Khan
3044	**Reasons for smoking' in patients from the pulmonology outpatient clinic of Brazil** Elisa Sebba de Souza Vega (Ribeirao Preto (SP), Brazil), Nelson De Araújo Vega, Eloisamaria Gatti Regueiro, Lucila Costa Zini Angelotti, Lucas Borges De Melo, Rafaela Maria D'Almeida E Silva De Toledo Ramos, Gabriela Vilasboas Navarro

3045	**The combined effects of announcing spirometric lung age and an education session about smoking harms on cigarette-smokers' attitudes** Helmi Ben Saad (Sousse, Tunisia), Khansa Derbal, Chiraz Maatoug, Samia Ernez, Khaoula Hadj Mabrouk
3046	**Smoking cessation program: a 10-year single-centre experience** Margarida V. Matias (Ajuda, Portugal), Ana Luísa Ramos, Marina Alves, Joana V. Carvalho, Ana Filipa Santos, Luciana Bento, Cristina Matos, Fernando Nogueira
3047	**Management of the outpatient smoking cessation consultation in a tertiary hospital** Diurbis Josefina Velasco Álvarez (Madrid, Spain), Carmen Rodriguez Calle, Andrea Perez Figuera, Beatriz Pintado Cort, Francisco León Roman, Edwin Mercedes Noboa, Deisy Barrios Barreto, Isabel Hornero De La Cruz, Rosa Mirambeaux Villalona
3048	**Diverse provenience in a smoking cessation program: is there a difference?** Margarida V. Matias (Ajuda, Portugal), Ana Luísa Ramos, Marina Alves, Luciana Bento, Cristina Matos, Fernando Nogueira
3049	**“Smoking cessation treatment without previous reduction has no benefits” – a patient’s myth or truth?** Bruno Miguel Oliveira Cabrita (Guimarães, Portugal), Maria Antónia Galego, Ana Luísa Fernandes, Sara Dias, Sílvia Correia, Paula Simão, Jorge Ferreira, Joana Amado
3050	**Profile of the tobacco consultation´s patient depending on the procedence of the service** Esther Sánchez Alvarez (Málaga, Spain), Eva Cabrera César, Álvaro Martínez Mesa, Ana Aguilar Gálvez, Nuria Reina Marfil , José Luis Velasco Garrido
3051	**EVOLUTION OF THE SEVERITY OF THE NICOTINE WITHDRAWAL SYNDROM (NWS) DEPENDING ON GENDER.** Virginia Guevara Velazquez (Salamanca, Spain), Miguel Ángel Hernández Mezquita, Miguel Barrueco Ferrero, Soraya Jodra Sánchez, Ana Sánchez Fernández, Jair Rauseo López, María Bartol Sánchez, Ruth García García, Laura Gil Pintor, Cristina Julia Alvarez
3052	**Smoking cessation according to nicotine dependence: experience of a smoking cessation program** Joana Raquel Monteiro Ferra (Cacém, Portugal), Ana Cláudia Vieira, Inês Oliveira, Joana Carvalho, Cristina Matos, Fernando Nogueira
3053	**The Future of Smoking Cessation** Catarina Cascais Costa (Oliveira de Azeméis, Portugal), Gilberto Teixeira, Lília Andrade
3054	**EVOLUTION OF CRAVING ACCORDING TO THE TREATMENT USED TO STOP SMOKING.** Miguel Angel Hernandez Mezquita (Aldeatejada, Spain), Cristina Julia Alvarez, Virginia Guevara Velazquez, Soraya Jodra Sánchez, Ruth García García, Jair Rauseo López, María Bartol Sánchez, Ana Sánchez Fernández, Miguel Barrueco Ferrero

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E-poster session: The role of health care systems in treating tobacco dependence

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

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

Chairs : Paraskevi Katsaounou (Athens, Greece), Keir E. Lewis (Llanelli (Dyfed), United Kingdom)

3055	**COPD patients continue to smoke after being diagnosed for COPD** Paraskevi Katsaounou (Athens, Greece), Sofia Pappa, Stavros Patrinos, Nikos Sakkas, Alexander Osarogue, Elpida Sakka, Filippos Filippidis
3056	**National epidemiological study of smoking cessation in danish patients with chronic obstructive pulmonary disease** Dea Kejlberg Andelius (Risskov, Denmark), Ole Hilberg, Rikke Ibsen, Anders Løkke
3057	**Fully financed smoking cessation for patients with chronic obstructive pulmonary disease (COPD)** Franziska Loth (Chemnitz, Germany), Stephan Mühlig, Jakob Bickhardt, Thomas Heindl
3058	**Room for improvement for smoking cessation support in asthma and COPD - a perspective from the Swedish National Airway Register** Lowie G.W. Vanfleteren (Gothenburg, Sweden), Jon R Konradsen, Christophe Pedroletti, Jonas Binnmyr, Peter Edfelt, Yvonne Sjöö, Kerstin Fjällman-Schärberg, Anne Lindberg, Alf Tunsäter, Ann Ekberg Jansson, Caroline Stridsman
3059	**Mental health disorders as barries to quit for asthmatic smokers** Paraskevi Katsaounou (Athens, Greece), Sofia Pappa, Stavros Patrinos, Elpida Sakka, Nikos Sakkas, Alexander Osarogue, Filippos Filipidis

3060	**Effect of smoking on atopic and non-atopic adult-onset asthma** Taina Lajunen (Oulu, Finland), Jouni J.K. Jaakkola, Maritta S. Jaakkola
3061	**Sleeping disorders during nicotinic withdrawal syndrome.** Virginia Guevara Velazquez (Salamanca, Spain), Cristina Julia Álvarez, Miguel Ángel Hernández Mezquita, Jair Rauseo López, María Bartol Sánchez, Laura Gil Pintor, Ana Sánchez Fernández, Soraya Jodra Sánchez, Ruth García García, Miguel Barrueco Ferrero
3062	**Smoking status and in-hospital outcomes of ST elevation myocardial infarction patients in a Brazilian public university hospital** Alessandra Hofstadler Deiques Fleig (Santa Maria (RS), Brazil), Isabella Brixner, Natalia Colissi, Alessandra Boesing, Andressa Seehaber, Luiz Fiori, Bruna Santos, Alexandra Cardoso, Alessandro Anversa, Matheus Donadel, Stefano Aita, Marcelo Silva, Clandio Marques, Jacqueline Vaz, Marcia Schmidt, Carlos Gottschall, Alexandre Quadros, Mateus Marques, Anibal Abelin
3063	**Participation in a targeted lung health check program and smoking cessation.** Nicholas Hopkinson (London, United Kingdom), Rebecca Mweseli, Ahmad Sadaka, Emily Bartlett, Anand Deveraj, Samuel Kemp, James Addis, Jane Derbyshire, Michelle Chen, Katie Morris
3064	**Changes in performance status in continued smokers vs quitters after a diagnosis of lung cancer: a cohort study** Rachel Gemine (llanelli (Dyfed), United Kingdom), Kirsty Lanyon, Gareth Davies, Keir Lewis
3065	**Smoking cessation in patients with Diabetes Mellitus (DM)** Aliki Korkontzelou (Athens, Greece), Stamatina Driva, Sotiria Schoretsaniti, Sotiris Gyftopoulos, Vasiliki Vasileiou, Zafeiria Barbaressou, Alexander Osarogue, Vasiliki Saltagianni, Martha Andritsou, Sofia Pappa, Vasiliki Papadopoulou, Serena Tonstad, Christina Gratziou, Nikolaos Tentolouris, Paraskevi Katsaounou
3066	**Using QI methodology to improve training & delivery of smoking cessation advice amongst Portsmouth inpatients to improve long term outcomes** Laura Wiffen (Portsmouth, United Kingdom), Ben Green, Cheryl Kay, Ellie Lanning, Alexander Hicks
3067	**The effectiveness of brief advice in ERS-WHO countrywide smoking cessation training in Ecuador** Sofia Belo Ravara (Covilhã, Portugal), Dongbo Fu, Charlotta Pisinger, Vinayak M Prasad, Rosa Sandoval, Adriana Bacelar Gomes , Pablo Analuisa, Adrian Diaz, Gustavo Giler Alacon , Christina Gratziouz, Paraskevi Katsaounou
3068	**A Quality Improvement Project to Increase Smoking Cessation in a Hospital Acute Cardio-Respiratory Admissions Unit** Daniela Nicoara (Leicester (Leicestershire), United Kingdom), Claire Chebbout, Mike Jones, Carl Guest, Nicola Baker, Caroline Anderson, Victoria Sarb, Samantha Halst, Lisa Clinch, Rachael Evans
3069	**Visualization and pattern detection in the dynamic of smoking lapse and relapse during smoking cessation** Maciej Paciorkowski (, Switzerland), Florent Baty, Martin Brutsche
3070	**Interdisciplinary smoking cessation school – a cognitive-behavioral approach** Latinka Basara (Zagreb, Croatia), Boris Gracin, Alma Rožman, Tajana Jalušić Glunčić, Miroslav Samaržija
3071	**Experience of an integrated smoking cessation practitioner on inpatient referral and treatment of tobacco dependency in a district general hospital** Dinesh Shrikrishna (Bristol (Avon), United Kingdom), Sarah Sneller, Caroline May

Pre-congress content Session 203 00:00 - 23:59

E-poster session: Advances in lung function testing

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

Method(s) : Pulmonary function testing | Imaging | Physiology | Epidemiology | Pulmonary rehabilitation | General respiratory patient care

Chairs : Anja Lena Thiebes (Aachen, Germany), Sam Bayat (Grenoble, France)

3072	**Discrepancy of airflow limitation diagnosis between FEV1/FVC** Tetsuo Kimura (Saku, Japan), Satoru Yanagisawa, Nariaki Ohura, Satoshi Wasamoto, Nobutoshi Morozumi
3073	**Impaired impulse oscillometry findings relate with respiratory symptoms in individuals with normal spirometry from Swedish CArdioPulmonary BioImage Study (SCAPIS)** Andrei Malinovschi (Uppsala, Sweden), Björn Qvarnström, Gunnar Engström, Xing Wu Zhou, Sophia Frantz, Johan Sundström, Christer Janson, Per Wollmer
3074	**Forced oscillation technique could make a difference in Sarcoidosis?** Joana Patrícia Almeida Borges (Coimbra, Portugal), Fátima Fradinho

3075	**Methacholine challenges: comparison of different tidal breathing challenge methods.** James Dean (Holmes Chapel, United Kingdom), Lucy Connor, Natalie Jackson, Brett Keidel-Morgan, Daniel Hamer, Dave Singh
3076	**A novel technique "slow spirometry" to estimate tidal volumes for use in AVAPS mode ventilation in children.** Clare Halfhide (Warrington (Cheshire), United Kingdom), Philip Lawrence, Amanda Reed, Meg Macdonald, Kim Lund, Liam Durkin
3077	**AN EVALUATION OF SLOW VITAL CAPACITY AND FORCED VITAL CAPACITY DIFFERENCE IN ACO PATIENTS WITH OBESITY** Olga Nesterovska (Chernivtsi, Ukraine), Ganna Stupnytska, Oleksandr Fediv, Oksana Pritulyak, Iryna Nemish
3078	**Effect of changing post gas-sampling point equipment dead space on MBW outcomes** Felix Ratjen (Toronto (ON), Canada), Renee Jensen, Michelle Shaw, Sanja Stanojevic, Julia Guido, Charles Clem, Sylvia Jara , Stephanie Davis, Hartmut Grasemann, Melinda Solomon, Neil Sweezey, Valerie Waters
3079	**Peak in- and expiratory flow rates: reproducibility and reference values in adults** Shane Hanon (Bruxelles, Belgium), Eef Vanderhelst, Walter Vincken, Daniël Schuermans, Sylvia Verbanck
3080	**Can the prediction point for FEV1 / FVC be determined in patients with insufficient expiratory maneuver to determine airflow obstruction?** Dildar Duman (Istanbul, Turkey), Fatma Merve Tepetam, Tuğçe Yakut, Şeyma Özden, Selver Seda Mersin, Ismet Bulut
3081	**Investigation of the Relationship Between Breath Retention Time and Blood Parameters in Stroke Patients** Abdurrahim Yildiz (Istanbul, Turkey), Rustem Mustafaoglu, Sensu Dincer
3082	**Closing volume predicts the FEV1 response to bronchodilators in patients with COPD** Dejan Radovanovic (Milano (MI), Italy), Matteo Pecchiari, Marina Saad, Pierachille Santus
3083	**Assessment of pulmonary vascular adaptation to exercise in emphysematous COPD patients with MRI – a pilot study** Thibaut Capron (Marseille, France), Stanislas Rappacchi, Clarisse Gautier, Faiza Bettayeb, Sophie Morange, Maxime Guye, Monique Bernard, Pascal Chanez, Jean-Yves Gaubert, Alexis Jacquier, Martine Reynaud-Gaubert
3084	**Adequateness of impulse oscillometry (IOS) reference values in the Swedish CArdioPulmonary bioImage Study (SCAPIS)** Jenny Hallberg (Stockholm, Sweden), Christer Janson, Johan Sundström, Xingwu Zhou, Per Wollmer, Andrei Malinovschi
3085	**Simplifying the measurement of neural respiratory drive index: parasternal electromyogram to measure respiratory rate** Grace McDowell (Glasgow (Glasgow), United Kingdom), Rebecca Dcruz, Nicholas Hart, Patrick Murphy, Christopher Carlin
3086	**Inter-observer reproducibility assessment of parasternal electromyogram(EMGpara) analysis: a tale of two cities** Grace McDowell (Glasgow (Glasgow), United Kingdom), Rebecca Dcruz, Nicholas Hart, Patrick Murphy, Christopher Carlin
3087	**The nonlinear volume-dependent extended RIC model for Forced Oscillation Technique measurements** Chuong Ngo (Aachen, Germany), Falk Dippel, Steffen Leonhardt
3088	**Reproducibility of Structured Light Plethysmography (SLP) in different positions** Eyas Alhuthail (Birmingham, United Kingdom), Brendan Cooper, Andrew Coney

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E-poster session: Lower respiratory tract infections in clinical practice

Disease(s) : Airway diseases Respiratory critical care

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

Chairs : Bin Cao (Beijing, China), Nathan Dean (Murray, United States of America)

3089	**Performing follow up chest x-rays for patients with a recent pneumonia leads to a significant number of other malignant and non-malignant pathologies being diagnosed.** Peter Dobson (Chichester, United Kingdom), Dominic Marshall, Amy Dewar, Alex West, Anne Collett
3090	**Inflammatory response to Streptococcus pneumoniae was attenuated by moderate aerobic exercise training.** CLARICE ROSA OLIVO (SAO PAULO, Brazil), Thamyres Castro, Roseane M. Laia, Luana D. Mendonça, Pietro Da Rocha Trindade, Jessica C. Souza, Beatriz M. Saraiva-Romanholo, Maria Leonor S. Oliveira, Eliane N. Miyagi, Carla M. Prado, Iolanda F.C.L. Tiberio

3091	**Influence of the infecting serotype on the development of complications in bacteriemic pneumococcal pneumonia with high inflammatory response** Francisco Sanz Herrero (Quart de Poblet (Valencia), Spain), Luis Alberto Ruiz Iturriaga, Marta María García Clemente, Pedro Pablo España Yandiola, Remedios Guna Serrano, Leyre Serrano Fernández, Julia Herrero Huertas, Amaia Artaraz Ereño, Noelia Carrión Collado, Estrella Fernández Fabrellas
3092	**Are carbapenems a better antibiotic than others for treat ICU-AP? A post-hoc analysis of a prospective cohort.** Adrian Ceccato (Ituzaingo (Prov. De Buenos Aires), Argentina), Pier Luigii Di Giannatale, Stefano Nogas, Albert Gabarrus, Miquel Ferrer, Antoni Torres
3093	**An RDW-based clinical model predicts long-term survival in patients hospitalized with community acquired pneumonia (CAP): a derivation and validation multicentric study** Jacopo Davide Giamello (Busca, Italy), Remo Melchio, Luis Alberto Ruiz Iturriaga, Leyre Serrano Fernandez, Piero Riva, Elisa Testa, Christian Bracco, Stefano Leccardi, Cristina Serraino, Andrea Falcetta, Alberto Silvestri, Massimo Porta, Luigi Fenoglio
3094	**Anti-Pseudomonas antibiotic use for hospitalized patients with community-acquired pneumonia** Marcos I. Restrepo (San Antonio, United States of America), Sergi Pascual-Guardia, Judith Marin-Corral, Manuela Carugati, Alejandro Rodriguez, Oriol Sibila, Francisco Sanz, Giovanni Sotgiu, Martin Kolditz, Stefano Aliberti, Glimp Investigators
3095	**The effects of antibiotic therapy at the pre-hospital stage on the in-hospital mortality in adults with community-acquired pneumonia in Russia: observational study results.** Daria Vinokurova (Tomsk, Russian Federation), Olga Kobyakova, Ivan Deev, Evgeny Kulikov, Nikolay Yarovoy
3096	**Respiratory diseases in HIV-infected patients in Novokuznetsk, Russia.** Irina Viktorova (Novokuznetsk (Kemerovo), Russian Federation), Vera Zimina, Inna Dadyka, Alexandra Galchin
3097	**Relationship between pectoralis muscle mass on chest CT and in-hospital death among patients with pneumonia** Ryohsuke Yokosuka (Tokyo, Japan), Ryosuke Imai, Syosei Ro, Manabu Murakami, Ryosuke Tugitomi, Kohei Okafuji, Atsushi Kitamura, Yutaka Tomishima, Jinta Torahiko, Naoki Nishimura, Tomohide Tamura
3098	**Assessment of the characteristics of community-acquired pneumonia in patients with chronic obstructive pulmonary disease** Nidhal Belloumi (la manouba, Tunisia), Hana Mrassi, Imene Bachouche, Fatma Chermiti Ben Abdallah, Soraya Fenniche
3099	**Streptococcus pneumoniae as a Cause of Community-Acquired Pneumonia in Portuguese Adults: A single-center retrospective study** Ana Luisa Ramos Costa e Silva (Lisboa, Portugal), Diogo Paixão Marques, Joana Carvalho, Ana Margarida Mestre, Maria Ana Pessanha, Cristina Toscano, José Melo Cristino
3100	**is hypercapnia associated with severe forms of community-acquired pneumonia?** Alia Ezzaouia (Tunis, Tunisia), Chirine Moussa, Houda Rouis, Amal Chanoufi, Wajih Ghribi, Ibtihel Khouaja, Amel Khattab, Ines Zendah, Habib Ghedira
3101	**Community-acquired pneumonia (CAP): differences between patients with chronic obstructive pulmonary disease (COPD) and those without COPD** Christian Reynaldo Castro Riera (Madrid, Spain), Javier De Miguel Diez, Zichen Ji, Ana López De Andrés, Valentín Hernández Barrera, Irene Milagros Domínguez Zabaleta, Virginia Parra León, Luis Puente Maestu, Rodrigo Jiménez García
3102	**Biological resistance to beta-lactamic antibiotics in patients with respiratory infection in the prediction of efficiency of antibacterial therapy** Irina Liverko (Tashkent, Uzbekistan)
3103	**Continuous detection and prediction model of bacteremia for in-patients: deep learning for time-series EHR data** Hyung Jun Park (Seoul, Republic of Korea), Chang-Min Choi
3104	**Aspiration risks factors, microbiology and empiric antibiotics for patients hospitalized with community-acquired pneumonia** Sergi Pascual Guardia (Barcelona, Spain), Judith Marin Corral, Francesco Amati, Stefano Aliberti, Joan Ramon Masclans, Nilam Soni, Alejandro Rodriguez, Oriol Sbila, Francisco Sanz, Giovanni Sotgiu, Antonio Anzueto, Katerina Dimakou, Miras Medenica, Roberta Petrino, Ewoudt Van De Garde, Marcos I Restrepo
3105	**Awareness and Pneumonia knowledge: where to start educating?** Catia Cilloniz Campos (Barcelona, Spain), Carmen Rosa Vargas, Cristina Dominedo, Carolina Garcia-Vidal, Laura Moreno
3106	**Risk Factors for Multidrug-resistant Bacteria in a Respiratory Intensive Care Unit** Marcos Oliveira (Aguada de Cima, Portugal), Carlos Lopes, Elsa Fragoso, Inês Claro, Catarina Martins, Pedro Falcão, Carla Mimoso, Pilar Azevedo

3107	**Good Practices for Prevention and Infection Control in Non-Invasive Ventilation on Hospital environment: knowledge and needs not covered among Healthcare professionals** Lucía Méndez González (Santa Maria da Feira, Portugal), Silvia Saldanha, Iolanda Mota, Cátia Caneiras

Pre-congress content Session 205 00:00 - 23:59

E-poster session: Epidemiology of paediatric respiratory diseases

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

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

Chairs : Marina Attanasi (Chieti (CH), Italy), Bülent Taner Karadag (Istanbul, Turkey)

3108	**Bacteriological profile of bronchoalveolar lavage in children at a university hospital in Brazil** Letícia Oliveira Dias (Niterói, Brazil), Ludmila Santos, Saulo Tinoco, Paula Soares, Douglas Guedes, Selma Sias
3109	**Clinical features of Mycoplasma pneumoniae infections in Bulgarian children** Dimitrinka Miteva (Sofia, Bulgaria), Snezhana Parina, Kristin Guenkova, Bilyana Georgieva, Penka Perenovska, Guergana Petrova
3110	**Clinical-epidemiological study of lipoid pneumonia in infants** Paula Serrano Soares (Niterói, Brazil), Ludmila Pereira Barbosa Dos Santos, Letícia Oliveira Dias, Robson De Alvarenga Facina, Thereza Fonseca Quirico Dos Santos, Selma Maria De Azevedo Sias
3111	**Morbi mortality of pulmonary hydatid cyst in children** amina abdelkbir (ben arous, Tunisia), Rime Essid, Imen Bouassida, Hazem Zribi, Sarra Maazaoui, Yoldez Houcine, Sonia Ouerghui, Adel Merghli
3112	**Marked Variability Observed in Inpatient Management of Bronchiolitis in a tertiarycenter. Can we do better?** Elpis Hatziagorou (Thessaloniki, Greece), Syrmo Styliani Kyrvasili, Maria Parisi, Fotios Kirvassilis, John Tsanakas
3113	**The spontaneous pneumothorax in children : about 30 cases** amina abdelkbir (ben arous, Tunisia), Imen Bouassida, Sarra Zairi, Hazem Zribi, Amani Ben Mansour, Aida Ayadi, Amira Dridi, Adel Marghli
3114	**A review of discharge of children with tracheostomy and long-term ventilation** Molla Imaduddin Ahmed (Leicester (Leicestershire), United Kingdom), Zaynab Chatoo, Maryam Hafeji, Ben Elkington, Kamini Jain, Helen Hickey
3115	**Prevalence of mechanical assisted cough in the Norwegian neuropediatric population** Brit Hov (Oslo, Norway), Tiina Andersen, Michel Toussaint, Maria Vollsæter, Ingvild Bruun Mikalsen, Solfrid Indrekvam, Vegard Hovland
3116	**Children on long term ventilation are prone to fragility fractures** Omendra Narayan (Manchester (Greater Manchester), United Kingdom), Abdulla Ali Dawaishan, Aditi Sinha, Stuart Wilkinson, Anna Hughes, Neville Wright, Zulf Mughal
3117	**Transitioning adolescents on long term ventilation from paediatric to adult services: Parents' and carers' understanding and expectations of the transition process.** Louise Brittenden (Leicester, United Kingdom), Molla Imaduddin Ahmed, Helen Hickey, Louise Mogford, Ben Elkington, Kamini Jain
3118	**The prevalence of respiratory diseases in children with birth weight less than 2,500 grams during the first year of life** Evgeny Kulikov (Tomsk, Russian Federation), Kristina Kulikova, Ivan Deev, Polina Khodkevich
3119	**Change in the prevalence of asthma and rhinitis related symptoms in school-aged children and adolescents in Costa Rica** Manuel Soto Martínez (San José, Costa Rica), Adriana Yock-Corrales, Fiorella Aglietti, Mariana Pacheco, Gloriana Villalobos, Lydiana Avila, Manuel Soto-Quiros
3120	**Reported symptoms differentiate diagnoses in children with exercise-induced respiratory problems** Eva Sophie Lunde Pedersen (Bern, Switzerland), Carmen Cornelia Maria De Jong, Cristina Ardura-Garcia, Maria Christina Mallet, Juerg Barben, Carmen Casaulta, Karin Hoyler, Anja Jochmann, Alexander Moeller, Dominik Mueller-Suter, Nicolas Regamey, Florian Singer, Myrofora Goutaki, Claudia E Kuehni
3121	**Is telephone monitoring as effective as home visit monitoring for technology dependent children?** Fotios Kirvassilis (Oraiokastro, Greece), Elisavet- Anna Chrysochoou, Elpis Hatziagorou, John Tsanakas

3122 **Multidisciplinary approach to paediatric Aerodigestive Disorders: A single centre longitudinal observational study**
Nitin Kapur (Brisbane (QLD), Australia), Amol Fuladi, Rahul Thomas, Matthew Wong, Sandra Schilling, Looi Ee, Kelvin Choo, Christopher Bourke, Craig Mcbride, Ian Brent Masters

3123 **Lipoid pneumonia in infants: treatment with multiple bronchoalveolar lavages**
Paula Serrano Soares (Niterói, Brazil), Ludmila Pereira Barbosa Dos Santos, Letícia Oliveira Dias, Robson De Alvarenga Facina, Thereza Fonseca Quirico Dos Santos, Selma Maria De Azevedo Sias

Pre-congress content Session 206 00:00 - 23:59

E-poster session: Thoracic surgery: malignancies

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

Method(s) : Surgery Pulmonary rehabilitation General respiratory patient care Endoscopy and interventional pulmonology Transplantation Respiratory intensive care

Chairs : Kalliopi Athanassiadi (Athens, Greece), Luca Bertolaccini (Milan, Italy)

3124 **Safety and risk factors for the morbidity and mortality of pneumonectomies: a retrospective 10-year study in a single institution**
Joana Cristina Ferreira Rei (Porto, Portugal), Susana Lareiro, Patrícia Castro, Pedro Fernandes, Miguel Guerra, Luís Vouga, José Miranda

3125 **Reconstructive surgery for bronchial fistulas after resections of the lung.**
Otabek Eshonkhodjaev (Tashkent, Uzbekistan), Shuhrat Khudaybergenov, Rustem Hayaliev, Sharif Rahimiy

3126 **Bronchial stump insufficiency after pneumonectomy.**
Shukhrat Khudaybergenov (Tashkent, Uzbekistan), Otabek Eshonkhodjaev, Rustem Hayaliev, Sharif Rahimiy, Dilyara Mazinova

3127 **Nebulised therapy in preventive maintenance of bronchial stumpinsufficiency after pneumonectomy.**
Shukhrat Khudaybergenov (Tashkent, Uzbekistan), Otabek Eshonkhodjaev, Rustem Hayaliev, Sharif Rahimiy, Dilyara Mazinova

3128 **Determinants of completion of a home-based rehabilitation program in patients awaiting lung surgery for lung cancer : a prospective observational multicenter study**
Héloïse Catho (Nantes, France), Sébastien Guigard, Anne-Claire Toffart, Gil Frey, Pierre-Yves Brichon, Linda Sakhri, Dominique Bertrand, Charles Aguirre, Sandy Gorain, François Arbib, Bernard Wuyam, Jean-Christian Borel

3129 **Lung expansion and alternation of low attenuation volume in lobectomized patients.**
Masanori Yokoba (Sagamihara (Kanagawa prefecture), Japan), Tsuyoshi Ichikawa, Shinya Harada, Takahiro Ozawa, Seiichiro Kusuhara, Tomoya Fukui, Satoshi Igawa, Hisashi Mitsufuji, Masaru Kubota, Jiichiro Sasaki, Katsuhiko Naoki, Yukitoshi Sato, Masato Katagiri

3130 **Use of polyvinyl alcohol sponge and cyanoacrylate glue in the treatment of bronchopleural fistula.**
Giovanni Galluccio (Roma, Italy), Gabriele Lucantoni, Sofia Romani, Raffaele Dello Iacono, Sandro Batzella

3131 **Surgical treatment of primary chest wall sarcomas: experiences in 19 cases**
amina abdelkbir (ben arous, Tunisia), Mahdi Abdennadher, Aymen Ben Ayed, Hazem Zribi, Sarra Zairi, Imen Bouassida, Mouna Mlika, Imen Sahnoun, Sonia Ouerghi, Adel Marghli

3132 **Intraoperative ventilation settings affect intraoperative fluid and vasopressor use in patients undergoing esophagectomy**
Margaretha van der Woude (Heerlen, Netherlands), Robert Slappendel, Valerie Van Meegen, Nina Laeven, Pascal Thomas, Laura Bormans, Peter Spronk, Ary Serpa Neto, Marcus Schultz

3133 **Results of surgical treatment of patients with inflammatory pseudotumors of thoracic localization**
Evgenii Zinchenko (Saint-Petersburg, Russian Federation), Vadim Pischik, Olga Maslak, Aleksander Kovalenko, Aleksander Obornev

3134 **Lung necrosectomy in pediatric patients with necrotizing pneumonia**
Jose Alfredo Santibanez-Salgado (México D.F, Mexico), Francina Valezka Bolaños-Morales, Patricio Javier Santillán-Doherty, Israel Hernández-Ramírez

3135 **Development of the Diaphragmatic Paralysis Questionnaire (DPQ)**
Sarah Schwarz (Köln, Germany), Nils Jurian Kosse, Wolfram Windisch, Aris Koryllos, Alberto Lopez, Stephan Strassmann, Denis Piras, Erich Stoelben

3136 **Investigation of bioresorbable porous implants based on polylactide and polycaprolactone**
K.I. Lukanina, K.V. Tokaev, I.A. Vasilieva, Ju.R. Zyuzya, T.E. Grigoriev, T.K. Tokaev, V.K. Tokaev, A.S. Bikbaev, Ju.D. Zagoskin, V.I. Sevastianov

3137 **Contralateral anterial mediastinal plasty with a polymer mesh implant - a new method of surgery for post -pneumonectomy mediastinal hernia in patients with widespread tuberculosis.**
Ruslan Tarasov (Moscow, Russian Federation), Elena Krasnikova, Vilayat Aliev, Georgiy Chitorelidze, Mamed Bagirov

3138 **Lung volume reduction surgery - an underutilised treatment?**
Sayed Alderazi (Birmingham (West Midlands), United Kingdom), Simon Gompertz, Mohammed Ziaullah Khan, Anita Sullivan

Pre-congress content Session 207 00:00 - 23:59

E-poster session: Occupational lung diseases

Disease(s) : Airway diseases Interstitial lung diseases

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

Chairs : Maritta S. Jaakkola (Oulu, Finland), Mª Jesus Cruz Carmona (Barcelona, Spain)

3139 **Asthma-COPD overlap prevalence among employed adults, United States, 2014–2018**
Jacek Mazurek (Morgantown, United States of America), Katelynn Dodd, Girija Syamlal

3140 **Occupation and subcategories of asthma: A population-based incident case-control study**
Maritta S. Jaakkola (Oulu, Finland), Taina K. Lajunen, Behzad Heibati, Jouni J.K. Jaakkola

3141 **OCCUPATIONAL EXPOSURES AND INCIDENCE OF ASTHMA OVER TWO DECADES IN THE ECRHS**
Sheikh Alif (Reservoir, Australia), Geza Benke , Hans Kromhout , Manolis Kogevinas , Deebie Jarvis , Nicole Le Moual , Vivi Schlünssen , Kjell Torén , Dan Norbäck , Theodore Lytras , Anne-Elie Carsin , Michael Abramson , Josep Maria Antó, Cecilie Svanes , Mario Olivieri , Sandra Dorado-Arenas, Isabel Urrutia , Sofie Acke , Hayat Bentouhami , Gunilla Wieslander , Nicola Muria , Jesús Martínez-Moratalla , Bénédicte Leynaert , Katja Radon , Jessica Gerlich , Dennis Nowak, Simona Villani, Mathias Holm , Amar Mehta , Giuseppe Verlato , Angelo D'Errico, Johanna Feary , Per Bekke, Trude Duelien Skorge , Torgeir Storaas, Anna Dahlman-Hoglund, Oistein Svanes, Johan Hellgren, David Miedinger, Silvia Pascual, Torben Sigsgaard, Paul Blanc, Jan-Paul Zock

3142 **Maternal preconception exposure to cleaning agents and disinfectants and offspring asthma**
Gro Tjalvin (Utne, Norway), Jannicke Igland, Bryndís Benediktsdóttir, Shyamali Dharmage, Bertil Forsberg, Mathias Holm, Christer Janson, Nils Oskar Jõgi, Ane Johannessen, Andrei Malinovschi, Kathrine Pape, Francisco Gomez Real, Torben Sigsgaard, Kjell Torén, Hilde Kristin Vindenes, Jan-Paul Zock, Vivi Schlünssen, Cecilie Svanes

3143 **Consequences of asthma on occupational and socio-economic characteristics in the Constances cohort**
Provost dorothée (Bordeaux, France), Delmas Marie-Christine, Chesneau Julie, Chérié-Challine Laurence, Golberg Marcel, Raherison Chantal, Iwatsubo Yuriko

3144 **Higher dyspnea score predicts antibiotic use in World Trade Center-exposed firefighters**
Barbara Putman (Brooklyn, United States of America), Lies Lahousse, Rachel Zeig-Owens, David Prezant, Michael Weiden

3145 **Airborne occupational exposures and the incidence of airway obstruction in the Lifelines Cohort Study**
Md Omar Faruque (Groningen (GR), Netherlands), Judith M Vonk, Ute Bültmann, H Marike Boezen

3146 **Altered lung mechanics after coal mine fire smoke exposure in adults**
Nicolette Holt (Mornington (VIC), Australia), Caroline Gao, Brigitte Borg, Kris Nilsen, David Brown, Jonathan Broder, Jillian Ikin, Annie Makar, Thomas Mc Crabb, Michael Abramson

3147 **Occupational risk factors for sarcoidosis in a multicenter case-control study**
Denis Vinnikov (Almaty, Kazakhstan), Leonid Strizhakov, Tatsyana Rybina, Sergey Babanov, Vadim Smirnov, Siarhei Makhnach, Ina Hinko, Siarhei Vasileuski, Michail Brovko, Liudmila Savich, Aliaksandra Rybina, Irina Mukatova, Marina Lebedeva

3148 **Lifetime occupational history and chronic obstructive pulmonary disease in a population-based study**
Denis Vinnikov (Almaty, Kazakhstan), Zhangir Tulekov, Aizhan Raushanova, Aizhan Kyzayeva, Zhanna Romanova

3149 **Occupational exposure and new onset chronic bronchitis in a general population sample from Telemark County, Norway.**
Anne Kristin Møller Fell (Skien, Norway), Nikola Zivadinovic, Geir Klepaker, Martin Veel Svendsen, Regine Abrahamsen, Johny Kongerud, Paul D. Blanc, Kjell Torén

3150 **Can persulfates cause hypersensitivity pneumonitis? A report of specific inhalation challenge test in 42 hairdressers**
Jens-Tore Granslo (Bergen, Norway), Jorunn Kirkeleit, Stein Håkon Låstad Lygre, William Horsnell, Thomas Blix Grydeland, Torgeir Storaas, Alexander Reyes-Lingjerde, Tor B Aasen, Cecilie Svanes

3151 **Occupational exposure to ceramic fibers and respiratory health among insulators**
Subhabrata Moitra (Edmonton, Canada), Ali Farshchi Tabrizi, Kawtar Idrissi Machichi, Samineh Kamravaei, Noushin Miandashti, Linda Henderson, Fadi Khadour, Muhammad Naseem, Lyle Melenka, Paige Lacy

3152 **Non tuberculous mycobacteria infections in patients with silicosis**
shimon izhakian (Petach Tikva, Israel), Oleg Gorelik, Mordechai Kramer

3153 **Lung transplantation in silicosis, still rare**
Thales Ishizaki (São Paulo (SP), Brazil), Philippe Colares , Yuri Parente, Ana Vasconcelos, Rafael Futoshi Mizutani, André Costa, Ricardo Teixeira, Silvia Campos, Marcos Samano, José Afonso Jr, Mário Terra-Filho, Ubiratan De Paula Santos

3154 **Follow-up of workers with silicosis related to quartz conglomerates**
Gabriella Guarnieri (Padova (PD), Italy), Leonardo Bianchi, Filippo Liviero, Paola Mason, Gianluca De Marchi, Andrea Martinelli, Mariella Carrieri, Piero Maestrelli

3155 **Silicosis : Role of Endobronchial Ultrasound and Transbronchial Needle Aspiration**
Vorawut Thanthitaweewat (Bangkok, Thailand), Nophol Leelayuwatanakul, Thitiwat Sriprasart

Pre-congress content Session 208 00:00 - 23:59

E-poster session: Occupational and environmental causes of respiratory disease

Disease(s) : Interstitial lung diseases Airway diseases

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

Chairs : Gareth Walters (Birmingham (West Midlands), United Kingdom), Vivi Schlünssen (Århus C, Denmark)

3156 **No evidence electric charge increases inhaled ultrafine particle deposition in human lungs**
Martyn Biddiscombe (London, United Kingdom), James Matthews, Matthew Wright, Sally Meah, Richard Underwood, Peter Barnes, Dudley Shallcross, Omar Usmani

3157 **Modulation of transient receptor potential vanilloid-1 (TRPV1) by inhaled prostaglandin-E2 (PGE2) and bradykinin (BK) is associated with increased cough sensitivity to capsaicin (CPS) and autonomic dysregulation of cardiac rhythm in healthy subjects**
Filippo Liviero (Padova (PD), Italy), Manuela Campisi, Paola Mason, Gabriella Guarnieri, Sofia Pavanello, Piero Maestrelli

3158 **Diesel exhaust particles induction of allergic asthma to low doses of soybean**
Miquel de Homdedeu Cortes (Barcelona, Spain), María Jesús Cruz, Sílvia Sánchez Díez, Susana Gómez, Iñigo Ojanguren, Christian Romero, Xavier Muñoz

3159 **Ozone and COPD: a systematic map of epidemiological and experimental studies**
Tianyu Zhao (Munich, Germany), Iana Markevych , Christian Janßen , Dennis Nowak , Nadine Steckling-Muschack , Joachim Heinrich

3160 **Pulmonary toxicity induced by electric charged soot particles in mice**
Hsiao-Chi Chuang (Taipei, Taiwan), Hsiao-Chi Chuang, Ta-Chih Hsiao, Tzu-Ting Yang, Chii-Hong Lee

3161 **A comparison of the cytotoxicity of different coals in lung epithelial cells**
Anna Yeung (Sydney (NSW), Australia), Yingying Sun, Andrew Kinsela, Alen Faiz, Mehra Haghi, Brian Oliver, David Waite

3162 **A comparison of 99mTc-DTPA clearance and translocation of nano particles in chronic obstructive pulmonary disease and idiopathic pulmonary fibrosis.**
Mikaela Qvarfordt (Huddinge, Sweden), Martin Anderson, Alejandro Sanchez-Crespo, Maria Diakopoulou, Magnus Svartengren

3163 **Risk occupations of irritant-induced occupational asthma.**
Irmeli Lindström (Helsinki, Finland), Jussi Lantto, Satu Soini, Katri Suuronen, Hille Suojalehto, Kirsi Karvala

3164 **In former asbestos-exposed workers TCT findings are more highly correlated to DLCO than to vital capacity**
Alexandra Marita Preisser (Hamburg, Germany), Katja Schlemmer, Robert Herold, Azien Laqmani, Claudia Terschüren, Volker Harth

3165 **CHARACTERISTICS OF PATIENTS EVALUATED IN SPECIALIZED POST-ASBESTOS EXPOSURE OUTPATIENT CLINIC**
Carolina España Dominguez (Cádiz, Spain), María Morales González, Antonio Hidalgo Molina, Isabel Muñoz Ramírez, Alfonso Marín Andreu, Fernándo Romero Valero, Juan Antonio Córdoba Doña, Antonio León Jiménez

3166 **Respiratory symptoms and induced sputum abnormalities in fuel pump workers.**
José Antônio Baddini Martinez (Ribeirao Preto (SP), Brazil), Tiago Henrique Silva, Ada Gastaldi, Marcel Koenigkam Santos, Bruno Spinosa Di Martinis

3167 **Interstitial Lung Disease (ILD) in aluminium welders**
Johanna Feary (London, United Kingdom), Helen Parfrey, Sherwood Burge, Andrew G Nicholson, Anand Devaraj, Paul Cullinan

3168 **Association of selected risk factors which affect Chronic Obstructive Pulmonary Disease (COPD)among patients in the National Hospital for Respiratory Diseases (NHRD), Sri Lanka**
Amitha Madushani, Shanaka Jayasinghe, Tharaka Siriwardhana, Kaushalya Kumari, Chathurika Wirasagoda, Piyumi Weerawardhana, Varuna Navaratne

3169 **Occupational asthma and work-exacerbated asthma: do they differ in terms of endotype at diagnosis?**
Paola Mason (Padova (PD), Italy), Diletta Arcidiacono, Aurora Ceccato, Gabriella Guarnieri, Piero Maestrelli, Filippo Liviero, Anna Chiara Frigo

3170 **Occupational exposure assessment to chromium using a job-exposure matrix based approach based on biomonitoring data**
Zehra Nur Toreyin (Izmir, Turkey), Lode Godderis

3171 **Specific inhalation challengetest results in occupational and non-occupational asthma patients: Is monitoring peak expiratory flow rate sufficient for diagnosis?**
Bilge Akgunduz Uzmezoglu (Ankara, Turkey), Ceprail Simsek, Gülden Sari

3172 **Prevalence and correlates of asthma in Indian children and their parents: data from Global asthma Network**
Nishtha Singh (Jaipur (Rajasthan), India), Sheetu Singh, Sundeep Salvi, Shally Awasthi, Nishtha Singh, Monica S Barne, Meenu Singh, Sabir Mohammad, Sanjay K Kochar, Sushil K Kabra, Sanjeev Sinha, Aloke G Ghoshal, Tu Sukumaran, Mahesh Pa, Daya K Mangal, Virendra Singh

Pre-congress content — Session 209 — 00:00 - 23:59

E-poster session: Asthma inhalers: devices and adherence studies

Disease(s) : Airway diseases | Respiratory critical care

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

Chairs : Federico Lavorini (Firenze (FI), Italy), Thomas Bahmer (Kiel, Germany)

3173 **Late Breaking Abstract - Dry Powder Inhaler Preference in asthma patients. Results of the DPI PREFER Study**
Diana Lucila Ramos Apolaya (Sevilla, Spain), Maria A. Romero Falcón, Juan F Medina Gallardo, Ana Gómez-Bastero Fernández, Francisco Alvarez Gutierrez, Julio Delgado Romero, Carlos Campos Sien, Paula Rytilä

3174 **Inhaler technique training of community pharmacists and common errors**
Branislava Milenković (Beograd, Republic of Serbia), Masa Roganovic , Milena Kovacevic, Milica Culafic, Marija Jovanovic, Katarina Vucicevic, Sandra Vezmar Kovacevic, Branislava Miljkovic

3175 **Peak inspiratory flow measured at different inhaler resistances in patients with asthma**
John Haughney (Glasgow, United Kingdom), Inna Pertsovskaya, Amanda J. Lee, Eddie McKnight , Michelle O'Driscoll, Omar S. Usmani

3176 **Bacterial colonization of home nebulizers used by children suffering from recurrent wheeze.**
Navkiran . (Zirakpur, India), Shivani Randev, Nidhi Singla

3177 **Comparing five antistatic valved holding chambers: how antistatic are they really?**
Paul Hagedoorn (Groningen, Netherlands), Floris Grasmeijer, Wasiq Bawari, Henderik Willem Frijlink, Floris Grasmeijer

3178 **Improvement of QVAR delivery through a better sorting of drug particles: development of an innovative and easy-to-use spacer**
Bastien Demouveaux (Valognes, France), Alison Vanlaeys, Thierry Porée

3179 **Long-term clinical effect of inhalation method with lowered tongue.**
Rieko Kondo (Nagoya, Japan), Takahiko Horiguchi, Yuji Tohda

3180 **How to assess inhalation technique in patients with asthma and COPD – comparison ofthree different methods**
Marta Miszczuk (Warszawa, Poland), Izabela Domagała, Marta Dąbrowska, Marta Maskey-Warzęchowska, Rafał Krenke

3181 **Patient centered development of a new valved holding chamber (VHC) designed specifically for on-the-go use**
Jason Suggett (London (ON), Canada), Alison Ellery

3182	**Efficacy and safety of new formulation of fluticasone propionate/salmeterol delivered via a HFA pMDI inhaler in patients with asthma** Maciej Kupczyk (Lodz, Poland), Maciej Kupczyk, Pawel Majak, Piotr Kuna, Beata Asankowicz-Bargiel, Eliza Baranska, Rafal Dobek, Slawomir Garbicz, Joanna Jerzynska, Anna Latos, Wojciech Machowiak, Bernadetta Majorek-Olechowska, Anna Olech-Cudzik, Iwona Poziomkowska-Gesicka, Miroslawa Rulewicz-Warniello, Anna Swiderska, Michal Tarnowski, Przemyslaw Kopyto
3183	**Life Cycle Assessment (LCA) and Cradle-to-Grave (CTG) Carbon Footprint of a Multidose Reservoir Dry Powder Inhaler** Tari Haahtela (Helsinki, Finland), Kristian Borenius, Ville Vartiainen, Aino Takala, Jussi Haikarainen, Grace Parker, Noora Paronen
3184	**Assessment of inhalation technique and satisfaction with inhalers in asthmatic patients** Hana Blibech (Ariana, Tunisia), Donia Belkhir, Houda Snene, Asma Zaafouri, Line Kaabi, Nadia Mehiri, Nozha Ben Salah, Bechir Louzir
3185	**In vitro fine particle dose of drug formulation used in asthma & COPD** Lois Slator (Southampton, United Kingdom), Dirk Von Hollen, Lucy E. A. Hardaker
3186	**The influence of inhalation flow and aerosol size on deposition: modelled vs. clinical data** Lianne C Tolboom (Hengelo, Netherlands), Wilbur De Kruijf, Frans H C De Jongh
3187	**Orally inhaled drug particle deposition efficiency in subjects with two-level laryngotracheal stenosis** Dennis Frank-Ito (Durham, NC, United States of America)
3188	**Assessment of inhalation technique in patients with bronchial asthma and chronic obstructive pulmonary disease** Natalia Trushenko (Moscow, Russian Federation), Anna Stoliarevichh, Boris Andryukov, Sergey Avdeev
3189	**Development of image processing-based smartphone App (Application Software) for self-management of inhaled medicines for patients with asthma or COPD** Yasuhiro Setoguchi (Tokyo, Japan), Yasunari Miyazaki, Yoshiki Nakayama, Len Matsuyama, Mari Ando, Seiji Matsuba, Masaki Uchida
3190	**Devise use errors among patients with asthma and COPD-A real-life study** Andriana Papaioannou (Vrilissia (Athens), Greece), Konstantinos Bartziokas, Georgios Hillas, Evangelia Fouka, Aikaterini Dimakou, Maria Kallieri, Stamatoula Tsikrika, Georgia Papadaki, Evgenia Papathanasiou, Anastasia Papaporfyriou, Vasiliki Apollonatou, Galateia Verykokou, Myrto Mplizou, Despina Papakosta, Effrosyni Manali, Spyridon Papiris, Stelios Loukides

Pre-congress content — Session 210 — 00:00 - 23:59

E-poster session: Lung function diagnostics

Disease(s) : Airway diseases Interstitial lung diseases

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

Chairs : Laurie Smith (Sheffield (South Yorkshire), United Kingdom), Jellien Makonga-Braaksma (Woudenberg, Netherlands)

3191	**In-vitro and in-vivo validation of Cosmed Q-box system** Mart N. van der Plas (Monster, Netherlands), Frans H.C. De Jongh
3192	**The within session repeatability of body plethysmography parameters in patients with chronic pulmonary diseases** Mikhail Chushkin (Moscow, Russian Federation), Lydia Popova , Elena Shergina, Elena Krasnikova, Olga Gordeeva , Natalya Karpina
3193	**Influence in outcome of the bodyplethysmography measurement performed with or without supporting cheeks and jaw.** Justine Wadners (Leusden, Netherlands), Jellien Makonga
3194	**Estimation of lung functional residual capacity by the multiple-breath washout test versus bodyplethysmography in healthy subjects** Galina Nekludova (Moscow, Russian Federation), Alexander Cherniak
3195	**Impulse oscillometry in the diagnosis of bronchoconstriction induced by acetylcholine inhalation** Elena Kokorina (Vsevolozhsk, Russian Federation), Larisa Kiryukhina, Nina Denisova, Natalia Nefedova, Sofia Kovaleva
3196	**Expiratory and inspiratory vital capacities and the ventilatory pattern severity** Raquel Barros (Lisboa, Portugal), Liliana Raposo, Nuno Moreira, Margarida Rocha, Paula Calaça, Ana Sofia Oliveira, Cristina Bárbara

3197	**Comparison of peak heart rate achievable using arm ergometry versus leg ergometry.** Joanna Shakespeare (Coventry (West Midlands), United Kingdom), Edward Parkes, David G Parr
3198	**Comparison of oxygen uptake obtained using arm and leg cycle ergometry.** Joanna Shakespeare (Coventry (West Midlands), United Kingdom), David G Parr
3199	**Comparison of anaerobic threshold obtained using arm and leg cycle ergometry.** Joanna Shakespeare (Coventry (West Midlands), United Kingdom), David G Parr
3200	**Community respiratory diagnosis: It's more than just spirometry** Ross Beech (Bury St Edmunds, United Kingdom), Luke Youngs, Matthew Rutter, Karl Sylvester
3201	**Is there an interest in modifying spirometric reference equations?** Nozha Ben Salah (Tunis, Tunisia), Houda Snen, Hana Blibech, Donia Belkhiria, Lyne Kaabi, Asma Zaaffouri, Nadia Mehiri, Bechir Louzir
3202	**GLI is a better predictor of airway obstruction in young, asymptomatic patients with Marfan syndrome** Abigél Margit Kolonics-Farkas (Budapest, Hungary), Zsuzsanna Kovats, Aniko Bohacs, Balazs Odler, Kalman Benke, Bence Agg, Zoltan Szabolcs, Veronika Müller
3203	**Bronchodilator reversibility is associated with non-adherence to inhalers in stable asthma patients, without airflow limitation.** Daniel Schuermans (Bruxelles, Belgium), Shane Hanon, Eef Vanderhelst
3204	**Characterization of peripheral airway obstruction by pulmonary function parameters** Liliana Raposo (Queijas, Portugal), Ana Sofia Oliveira, João Valença, Cristina Bárbara
3205	**Usefulness of physiological tests of small airways function in diagnosing asthma: a systematic review** Mohammed Almeshari (Birmingham, United Kingdom), Nowaf Alobaidi, Ross Edgar, James Stockley, Elizabeth Sapey
3206	**Diagnosis of small airways dysfunction in patients with asthma.** Olga Savushkina (Moscow, Russian Federation), Alexander Cherniak, Evgeniy Kryukov
3207	**Bronchodilator response in healthy subjects** Matthew Hegewald, Robert Jensen
3208	**Improvement patient safety during lung function testing through the implementation of a safety checklist** Ana Lutas (São Domingos de Rana, Portugal), Maria João Lage, Teresa Pequito, Marco Pereira, Ana Ladeira, Filipa Todo Bom, Sofia Furtado
3209	**Comparative analysis of the arterial oxygen saturation (SaO2) and pulse oximetry measurements (SpO2) in patients with pulmonary tuberculosis** Mikhail Chushkin (Moscow, Russian Federation), Lydia Popova , Elena Shergina, Elena Krasnikova , Olga Gordeeva , Natalya Karpina

Pre-congress content Session 211 00:00 - 23:59

E-poster session: From respiratory physiology to clinical practice: exercise and respiratory muscles

Disease(s) : Airway diseases Sleep and breathing disorders

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

Chairs : Michael Furian (Zürich, Switzerland), Gergely H. Fodor (Szeged, Hungary)

3210	**Actigraphy provides additional patient-centered outcome domains beyond those measured by survey questionnaires in COPD** Mehrdad Arjomandi (San Francisco, United States of America), Melissa Nishihama, Wendy Ching, Lemlem Weldemichael, Siyang Zeng, Warren Gold
3211	**Updated normative reference values for peak cardiopulmonary exercise test responses in adults 40 years and over** Hayley Lewthwaite (Montreal (QC), Canada), Andrea Benedetti, Michael K Stickland, Jean Bourbeau, Jordan A Guenette, Francois Maltais, Darcy D Marciniuk, J. Alberto Neder, Denis E O'Donnell, Benjamin M Smith, Wan C Tan, Dennis Jensen
3212	**Development of a prediction equation for maximal exercise capacity in normal Indian subjects** Rishabh Raj (Mumbai (Maharashtra), India), Uma Devaraj, Kavitha Venkatnarayana, Priya Ramachandran, Uma Maheshwari Krishnaswamy
3213	**Finding the best fitting reference values of VO2max in cardiopulmonary exercise testing** Mathijs Westra (Leeuwarden, Netherlands), Laurien Keulers, Jan Van Der Maten, Kim De Jong

3214 **Any role for cardiopulmonary exercise test as an outcome in severe asthmatic patients after the initiation of biological therapy?**
Marcelina Koćwin (Łódź, Poland), Rocco F. Rinaldo, Elena Parazzini, Simone Luraschi, Silvia Ruggeri, Fausta Alfano, Mirta Cavallini, Pierfrancesco Longo, Piotr Kuna, Fabiano Di Marco, Stefano Centanni

3215 **Improved small airway function by benralizumab in patients with severe eosinophilic asthma**
Tanya Badal (Camperdown, Australia), Nicola Reed, Leigh M Seccombe, Alice M Cottee, Cindy Thamrin, Gregory G King, Matthew J Peters, Claude S Farah

3216 **The impact of dyspnea on postural control in healthy subjects.**
Olivier Van Hove (Bruxelles, Belgium), Vasileios Andrianopoulos , Ana Maria Cebolla, Dimitri Leduc , Véronique Feipel, Gaël Deboeck , Bruno Bonnechère

3217 **The influence of various inspiratory loads on reaction time in healthy subjects**
Olivier Van Hove (Bruxelles, Belgium), Vasileios Andrianopoulos , Ana Maria Cebolla, Dimitri Leduc, Véronique Feipel, Gaël Deboeck , Bruno Bonnechère

3218 **Non-invasive assessment of ribcage inspiratory muscle fatigue during two endurance tests in healthy subjects**
Guilherme Fregonezi (Rio Grande do Norte, Brazil), Thiago Bezerra Wanderley E Lima, Antonio Jose Sarmento Da Nobrega, Rayane Grayce Silva Vieira, Andrezza A. Viana, Esmívany Lhara Freitas Castro, Andrea Aliverti, Vanessa R Resqueti

3219 **Feasibility, muscle activity, contraction and relaxation proprieties of reverse sniff test in healthy subjects**
Guilherme Fregonezi (Rio Grande do Norte, Brazil), Jackson Claudio Lima, Maria Lira, Esmivani Lhara Freitas Castro , Vanessa R Resqueti

3220 **Neural respiratory drive, respiratory mechanics and breathlessness in COPD patients with comorbid heart failure**
Caroline Jolley (London, United Kingdom), Luis Estrada, Emily Lau, Manuel Lozano-Garcia, Anna Moore, Peter Cho, Hannah Fletcher, Abel Torres, Gerrard F Rafferty, John Moxham, Raimon Jane

3221 **Numerical simulation study of the effects of expiratory tracheal collapse is a two-dimensional (at least) problem**
Emeline Fresnel (Bois-Guillaume, France), Jorys Achard, Adrien Kerfourn, François-Xavier Demoulin, Léa Razakamanantsoa, Christian Caillard, Antoine Cuvelier, Maxime Patout

3222 **What is the best marker of exercise limitation in patients with tracheobronchomalacia (TBM) ?**
Léa Razakamanantsoa (Rouen, France), Emeline Fresnel, Adrien Kerfourn, Bachar Chahine, Laurène Goument, Camille Germain, Julien Maris, Mathilde Le Brun, Jorys Achard, Tristan Bonnevie, Francis-Edouard Gravier, Antoine Cuvelier, Maxime Patout

3223 **Diaphragm dysfunction in isoproterenol-induced heart failure**
Ignacio Cabrera-Aguilera (Barcelona, Spain), Bryan Falcones, Ramon Farré, Isaac Almendros, Nuria Farré

3224 **Comparative study of Max-IMT atherosclerosis index for COPD with and without asthma**
Akinori Ebihara (Tokyo, Japan), Asuka Nagai, Tokuzen Iwamoto, Ichiro Kuwahira

Pre-congress content Session 212 00:00 - 23:59

E-poster session: Novel insights into exercise training

Disease(s) : Airway diseases | Interstitial lung diseases | Thoracic oncology | Respiratory critical care | Pulmonary vascular diseases

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

Chairs : Vinicius Cavalheri (Perth (WA), Australia), Jana De Brandt (Diepenbeek, Belgium)

3225 **Effect of exercise training in intracellular cytokine and the relationship with clinical aspects in patients with COPD**
Juliana Uzeloto (Anhumas, Brazil), Alessandra Toledo-Arruda, Marjorie Golim, Bruna Silva, Aline Braz, Fabiano Lima, Isis Grigoletto, Ercy Ramos

3226 **Effect of high-intensity exercise on respiratory and peripheral muscle oxygenation in HF and COPD-HF patients.**
Flavia Rossi Caruso (Sao Carlos (SP), Brazil), Cassia Luz Goulart, José Carlos Bonjorno Junior, Adriana Garcia Sanches Araújo, Renata Gonçalves Mendes, Audrey Borghi-Silva

3227 **Addition of functional exercises to conventional training in COPD: satisfaction and adherence**
Isis Grigoletto (Pirapozinho, São Paulo, Brazil), Fabiano De Lima, Juliana Souza Uzeloto, Dionei Ramos, Paulo Gomes, Carlos Augusto Camillo, Ercy Mara Cipulo Ramos

3228 **T-lymphocyte cytokines and the response to exercise training in patients with COPD**
Juliana Uzeloto (Anhumas, Brazil), Alessandra Toledo-Arruda, Marjorie Golim, Bruna Silva, Aline Braz, Fabiano Lima, Isis Grigoletto, Ercy Ramos

3229	**Elastic resistance training in people with COPD: a systematic review and meta-analysis** Fabiano Lima (Presidente Prudente (SP), Brazil), Vinicius Cavalheri, Bruna Silva, Isis Grigoletto, Juliana Uzeloto , Dionei Ramos, Carlos Augusto Camillo, Ercy Ramos
3230	**Comparisons of effects of high-flow and nasal cannula oxygen on exercise performance in patients with COPD** Yen-Huey Chen, Shiao-Lan Cheng, Huang-Pin Wu, Hui-Ling Lin
3231	**Influence of resistance training on heart rate variability in the difficult-to-control asthmatic patients.** Ivan Peres Costa (São Paulo, Brazil), Lawrence Patrick Cahalin, Henrique De Oliveira Galli, Priscila Sillis Da Silva, Angela Mendonça, Valquiria Almeida Straforini, Roberto Stirbulov, Luciana Maria Malosá Sampaio
3232	**Effects of quadriceps muscle strengthening on muscle endurance, functional capacity, dyspnea and quality of life in older patients with asthma** Elif Develi (istanbul, Turkey), Rasmi Muammer, Yasar Kucukardali
3233	**Effectiveness of a home-based pre-habilitation program for lung transplant candidates.** Tania Janaudis-Ferreira (Montréal (QC), Canada), Daniela Massierer, Nicholas Bourgeois, Agnes Rakel, Karina Prevost, Larry Lands, Charles Poirier
3234	**The effect of pulmonary rehabilitation before bronchoscopic volume reduction on post-procedure clinical status and follow-up compliance** Esra Pehlivan (Istanbul, Turkey), Demet Turan, Esra Yazar, Arif Balcı, Erdoğan Çetinkaya
3235	**Outcomes in exercise-based interventions in interstitial lung diseases** Ana Oliveira (Hamilton, Canada), Razanne Habash, Alda Marques, Dina Brooks
3236	**Outcomes measures used in studies of exercise rehabilitation in pulmonary hypertension: a systematic review** Carol Keen (Sheffield (South Yorkshire), United Kingdom), Deborah Harrop, David G Kiely, Molly Hashmi-Greenwood, Karen Sage
3237	**Who is able to adhere to exercise during non-surgical treatment for lung cancer?** Lara Edbrooke (Melbourne (VIC), Australia), Linda Denehy, Catherine Granger
3238	**Aerobic and Weightlifting Training Improves Lung Function and Mechanics and Pulmonary and Systemic Immune Response in Overweight Women** Anamei Silva Reis (São José dos Campos, Brazil), Anamei Silva-Reis, Maysa A. R. Brandao-Rangel, Renilson Moraes-Ferreira, Thiago G. Gibson-Alves, Victor H.Souza Palmeira, Helida C. Aquino-Santos, Claudio Ricardo Frison, Rodolfo P. Vieira
3239	**Physical Training Improves Lung Function and Mechanics and Pulmonary and Systemic Immune Response in Eutrophic Women** Anamei Silva Reis (São José dos Campos, Brazil), Anamei Silva-Reis, Maysa A. R. Brandao-Rangel, Renilson Moraes-Ferreira, Thiago G. Gibson-Alves, Victor H. S.Palmeira, Helida C. Aquino-Santos, Claudio R. Frison, Rodolfo P. Vieira
3240	**Resistance Training Alone Improves Lung Inflammation and Respiratory Muscle Strenght but not Lung Function and Mechanics in Mid-Age Women** Rodolfo De Paula Vieira (Sao Jose Dos Campos (SP), Brazil), Adriano A Da Silva, Daniel S F Magalhães, José C Cogo
3241	**Physical function in multimorbid elderly patients undergoing major surgery** Monique Messaggi Sartor (Barcelona, Spain), Anael Barberan-Garcia, Manuel Lopez-Baamonde, Betina Campero, Barbara Romano-Andrioni, Pilar Hurtado, Silvia Teres-Belles, Antonio Lopez, Raquel Sebio, Josep Roca, Graciela Martinez-Palli

Pre-congress content — Session 213 — 00:00 - 23:59

E-poster session: COPD : inhaled corticosteroids, bronchodilators and eosinophils

Disease(s) : Airway diseases, Respiratory critical care

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

Chairs : Hye Yun Park (Seoul, Republic of Korea), Dimitrios Toumpanakis (Athens, Greece)

3242	**Trends in primary outcome parameters for respiratory trials.** Robert Lins (Antwerpen, Belgium), Muriel Lins, Haiko Pillu, Bram Volckaert, Arash Ghalamkarpour, Katrien Timmermans
3243	**Effect of association with Indacaterol/Glycopirronium on Atrial Electromechanical Delay in patients with COPD and hyperinflation** Maria Rosaria Valentino (Napoli (NA), Italy), Alessandro Saglia, Maria D'Amato, Mauro Maniscalco, Pasquale Ambrosino, Matteo Conte, Vincenzo Russo, Antonio Molino

3244	**Revefenacin (REV) improves health status and dyspnea regardless of baseline symptom status in chronic obstructive pulmonary disease (COPD): a post hoc analysis of phase 3 trials** Glenn D. Crater (Raleigh, United States of America), Gary T. Ferguson, Thomas M. Siler, David A. Lombardi
3245	**Evaluation of the clinical efficacy of the fluticasone-salmeterol fixed dose combination (FDC) in Greek patients with Chronic Obstructive Pulmonary Disease-AEOLOS study** Ioanna-Laoutselnta Markou (Pikermi, Greece), Stavros Tryfon, Paschalis Steiropoulos, Alexandros Ginis, Aikaterini Athanassiou, Nikolaos Grekas
3246	**Comparison of a dry powder inhaler (DPI) to a pressurized metered-dose inhaler (pMDI) formulation of extra fine beclomethasone dipropionate/formoterol fumarate/glycopyrronium bromide (BDP/FF/GB) in patients with COPD: The TRI-D study.** Kai Michael Beeh (Wiesbaden, Germany), Piotr Kuna, Isabelle Viaud, Alessandro Guasconi, Massimo Corradi, George Georges
3247	**Role of inhaled corticosteroids on recurrent bronchial infection by potentially pathogenic bacteria in patients with COPD** Lluisa Ramon Clar (Palma, Spain), Francisco Javier Verdu Rivera, Nuria Toledo Pons, Amanda Iglesias Coma, Carlos Juan Nicolau, Carla López Causape, Pablo A Fralie Ribot, Antonio Oliver , Francisco De Borja García Cosío
3248	**The distribution of blood eosinophil count in the IMPACT South America population** Jose R Jardim (São Paulo, Brazil), Valentina Di Boscio, Gur Y Levy, Alejandro Raimondi, Adrian Lijavetzky, Laura Jotimliansky, Sally Kilbride, Claudia Soares, David Lipson
3249	**Stability of eosinophils in blood in patients with chronic obstructive pulmonary diseasee (COPD) and one hospital admission** Elena Garay Llorente (Barakaldo, Spain), Eva Tabernero Huguet, Beatriz Gonzalez Quero, Laura Ansola Marlasca, Joseba Andia Iturrate, Borja Ortiz De Urbina Antia, Milagros Iriberri Pascual, Patricia Sobradillo Ecenarro
3250	**Stability of sputum and blood eosinophil levels in COPD** Augusta Beech (Manchester, United Kingdom), Simon Lea, Umme Kolsum, Natalie Jackson, Paul Hitchen, Sophie Wolosianka, Dave Singh
3251	**The impact of eosinophil levels on current prescribing in COPD** Louise Ann Flint (Leeds, United Kingdom), Doytchin Dimov
3252	**Burden of disease among exacerbating patients with eosinophil COPD treated with triple therapy in Spain** Esther Mariscal (madrid, Spain), Marc Miravitlles, Guadalupe Sánchez, Andrea García, Maribel Cuesta, Estefany Uría, Bernardino Alcázar, Francisco García-Río
3253	**Microbiome Use to Stratify Inhaled Corticosteroids in Chronic Obstructive Pulmonary Disease (MUSIC) trial: baseline data and impact of inhaled corticosteroid withdrawal in severe COPD with frequent exacerbations** Hollian Richardson (Dundee, United Kingdom), Clare Clarke, Mike Lonergan, Heather Barclay, Megan Crichton, Jennifer Pollock, Simon Finch, Pauline Billingham, Furrah Hussain, Andrew Mackenzie, Diane Cassidy, Margaret Band, Andrew Smith, Mohammad Paracha, Gourab Chowdhury, Devesh Dhasmana, Rekha Chaudhuri, Philip M Short, Holly R Keir, Alison J Dicker, James D. Chalmers

Pre-congress content — Session 214 — 00:00 - 23:59

E-poster session: Organising respiratory disease management in primary care

Disease(s) : Airway diseases, Pulmonary vascular diseases

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

Chairs : Claudia Vincente (Coimbra, Portugal), Luke Daines (Edinburgh (Edinburgh), United Kingdom)

3254	**Evidence-implementation gaps in low- and middle-income countries' COPD guidelines** Job F.M. van Boven (Groningen, Netherlands), Aizhamal Tabyshova, John R. Hurst, Joan B. Soriano, William Checkley, Erick Wan-Chun Huang, Antigona C. Trofor, Oscar Flores Flores, Patricia Alupo, Gonzalo Gianella, Tarana Ferdous, David Meharg, Jennifer Alison, Jaime Correia De Sousa, Maarten J. Postma, Niels H. Chavannes
3255	**SWAAS - The first state level public health program for COPD and Asthma in India - an early evaluation>** Sanjeev Nair (Trivandrum (Kerala), India), M S Manu, R Kamala, Soumya Gopakumar, Mathew Valamparampil, Bipin Gopal
3256	**COPD integrated disease management, from controlled trial to real-world primary care; a cohort study.** Anna Hussey (Windsor, Canada), Kevin Wing, Madonna Ferrone, Christopher Licskai

3257	**Barriers and motivators to use eHealth in primary care asthma and COPD patients according to health care professionals** Esther I. Metting (Groningen, Netherlands), Claudine Dobelaar
3258	**Primary care management of asthma in Malaysia: findings of the Klang Asthma Cohort Study** Norita Hussein (Kuala Lumpur, Malaysia), Norita Hussein, Su May Liew, Nik Sherina Hanafi, Ahmad Ihsan Abu Bakar, Ee Ming Khoo, Hilary Pinnock, Yong Kek Pang, Asiah Kassim, Ping Yein Lee, Sazlina Shariff Ghazali, Ai Theng Cheong, Azainorsuzila Mohd Ahad, Rizawati Ramli, Izan Ishak, Bee Kiau Ho, Salbiah Mohd Isa, Harzana Harrun, Zuzana Aman, Asnita Nordin, Siow Foon Tan, Chiu Wan Ng, Karuthan Chinna
3259	**What motivates primary healthcare practitioners to refer patients with Chronic Obstructive Pulmonary Disease (COPD) to Pulmonary Rehabilitation? A survey using the Theoretical Domains Framework.** Jane Watson (Cambridge (Cambridgeshire), United Kingdom), Rachel Jordan, Peymane Adab, Alex Enocson, Sheila Greenfield, Ivo Vlaev
3260	**Methodological insights from pre-pilot phases of two complex respiratory interventions (IMP2ART; TANDEM)** Liz Steed (London, United Kingdom), Kirstie McClatchey, Susan Morrow, Ratna Sohanpal, Stephanie Taylor, Hilary Pinnock,
3261	**Tackling COPD misdiagnosis in primary care through integrated care** Ketan Patel (Colchester, United Kingdom), Andy Dickens, Alice M Turner
3262	**Planned primary health care asthma contacts during 12-year follow-up after Finnish National Asthma Programme: focus on spirometry** Jaana Takala (Seinäjoki, Finland), Pinja Ilmarinen, Leena Tuomisto, Iida Vähätalo, Onni Niemelä, Hannu Kankaanranta
3263	**Exploring the provision of supportive care for patients with severe, life-limiting COPD in Malaysia** Su May Liew (Kuala Lumpur, Malaysia), Ee Ming Khoo, Hilary Pinnock, Sylvia Mccarthy, Zee Nee Lim, Yong Kek Pang, Nik Sherina Hanafi, Norita Hussein, Ahmad Ihsan Abu Bakar, Aziz Sheikh
3264	**QUALITY OF LIFE OF PATIENTS WITH CHRONIC OBSTRUCTIVE PULMONARY DISEASE AND THEIR CAREGIVERS** Manuel Abraham Gómez Martínez (Mexico City, Mexico), Karla Leticia Rosales Castillo, Viridiana Peláez-Hernández , Laura Arely Martínez-Bautista , Arturo Orea-Tejeda , Karen Santillán-Reyes , Guadalupe Lizzbett Luna-Rodríguez , Martha Elena Quintero Martínez
3265	**Non-participant observation of medical screening for Malaysian Hajj pilgrims with asthma** Ahmad Ihsan Abu Bakar (Kuala Lumpur, Malaysia), Su May Liew, Ee Ming Khoo, Nik Sherina Hanafi, Norita Hussein, Ping Yein Lee, Sazlina Shariff Ghazali, Ai Theng Cheong, Suhazeli Abdullah, Azah Abdul Samad, Rizawati Ramli, Azainorsuzila Mohd Ahad, Hilary Pinnock, Sheikh Aziz
3266	**Impact of guideline awareness on the counseling of patients with acute cough among general practitioners and pharmacy personnel** Ulrike Sent (Frankfurt, Germany), Ulrike Sent, Guido Bissmann, Peter Kardos, Kai Michael Beeh
3267	**Respiratory Improvement programme: COPD reviews in Primary Care by Physician Associates** Sarah Sibley (Altrincham (Cheshire), United Kingdom), Emma Rickards, Dennis Wat, Cenk Alhan, Xi Chen, Laura Pilling, Hannah Sefton, Kate Mottershead, Sonika Jalota, Hannah Alderson
3268	**Chronic cough in routine clinical practice: a UK retrospective cohort study** James H. Hull (London, United Kingdom), Zia Ul-Haq, Haya Langerman, Tahereh Kamalati, Amazigom Mayes, Amanda Lucas, Mark L. Levy
3269	**Recognition and management of chronic wet cough in Aboriginal children: a knowledge translation approach** Pamela Laird (Perth, Australia), Mary Lane, Roz Walker, James Totterdell, Anne Chang, André Schultz
3270	**Long-term condition (LTC) review templates in clinical consultations: A mixed-methods systematic review** Kirstie McClatchey (Edinburgh, United Kingdom), Mary Morrissey, Elizabeth Shepherd, Emma Kinley, Hilary Pinnock
3271	**COPD diagnosis and treatment in the primary care setting: adherence to GOLD guidelines is far away** Ioanna Tsiouprou (Thessaloniki, Greece), Dionisios G. Spyratos, Diamantis Chloros, Dionisia Michalopoulou, Konstantinos Christoglou, Lazaros Sichletidis
3272	**Selection of patients with chronic obstructive pulmonary disease for participation in self-management programs.** Lidiya Koukol (St. Petersburg, Russian Federation)
3273	**Major global discrepancies in guidelines for sore throat (acute pharyngitis)** Graca Coutinho (Slough, United Kingdom), Graca Coutinho, Martin Duerden, Aurelio Sessa, Attila Altiner, Sergio Caretta-Barradas

Pre-congress content Session 215 00:00 - 23:59

E-poster session: Investigations of COPD

Disease(s) : Airway diseases Interstitial lung diseases

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

Chairs : Franziska Trudzinski (Homburg (Saar), Germany), James Fingleton (Wellington, New Zealand)

3274	**Late Breaking Abstract - Differences in forced oscillation measurements in different ventilatory defects** Sabina Kostorz-Nosal (Tarnowskie Góry, Poland), Dariusz Jastrzębski, Dariusz Ziora
3275	**Automated volumetric quantification of lung emphysema: comparative analysis of different software products results.** Nadezda Griva (Saint-Petersburg, Russian Federation), Pavel Gavrilov
3276	**Triple therapy with Fluticasone furoate/Umeclidinium/Vilanterol compared with dual bronchodilation or triple therapy with inhaled corticosteroids/dual bronchodilation in patients with chronic obstructive pulmonary disease** Naoko Harada (Kawasaki, Japan), Kengo Otsuka, Atsuo Horiuchi, Yoko Shinka, Hiroyuki Yamamura, Naoki Miyao
3277	**The clinical characteristics of eosinophilic chronic obstructive pulmonary disease:A cohort study** Ying Ju Lin (Yunlin County, Taiwan), Shu-Hua Chang, Yen-Fu Chen
3278	**The clinical importance of centrilobular enfisema in COPD patients: its impact on the BODE index.** Rosa Plana Bolba (lleid, Spain), Anna Montcusi Moix, Sally Santisteve, Juan Pablo De Torres Tajes, Ferran Barbe Illa, Jessica González Gutiérrez
3279	**The differences between Helium Dilution and Body Plethysmography and its relationship with airway resistance** Michela D'Ascanio (Roma (RM), Italy), Fausta Viccaro, Noemi Calabro, Dario Pizzirusso, Giulio Guerrieri, Claudia Salvucci, Alberto Ricci
3280	**The role of neutrophil/lymphocyte ratio in acute exacerbations of chronic obstructive pulmonary disease COPD** Bogdana Basina (Dnipropetrovsk, Ukraine), Ludmila Konopkina
3281	**Sputum rheology and bacteriology in stable and exacerbated chronic obstructive pulmonary disease** Wei-Chih Chen (Taipei, Taiwan), Desiree Schumann, Michael Tamm, Daiana Stolz
3282	**Relationship between serum levels of testosterone and the severity of chronic obstructive pulmonary disease** Azza Slim (Tunis, Tunisia), Abir Hedhli, Meriem Mjid, Yassine Ouahchi, Sana Cheikh Rouhou, Jouda Cherif, Sonia Toujani, Samira Merai
3283	**Prognostic markers of COPD patients followed by 10 years in a specialized center in Brazil.** Julia Fortes Cré (Cotia, Brazil), Ana Carolina Borges Amaral, Luis Otavio Buassali Fredini, Leonardo Polito Bianchini, Soraia Quaranta Damião, Ana Julia Consuli Alvarez, Guilherme Meira Sacardo, Elie Fiss, Monica Silveira Lapa
3284	**Prediction of vascular-platelet hemostasis disorders in patients with chronic obstructive pulmonary disease (COPD)** Lyudmyla Konopkina (Dniepropetrovsk, Ukraine), Yuliia Huba, Viktoriia Yakovlieva
3285	**Radiological prevalence of emphysema on low dose computed tomography(LDCT) in ever-smokers with a normal spirometry** Lancelot Pinto (Mumbai (Maharashtra), India), Lancelot Pinto, Aditi Joshi, Reyma Raju, Ashok Mahashur
3286	**The Extended Salford Lung Study: an EHR-based extension of the SLS trials** Jeanne Pimenta (Middlesex, United Kingdom), Wilhelmine Meeraus, Richard Yeatman, Alan Barth, Tanith Hjelmbjerg, Jamila Astrom, Loretta Jacques, Sheila Mccorkindale, Mark Fry
3287	**Low level of serum free triiodothyronine can be a predictor of long-term mortality after COPD exacerbations** Paulina Laskowska (Łódź, Poland), Joanna Miłkowska - Dymanowska, Piotr Łacwik, Sebastian Majewski, Paweł Górski, Wojciech J. Piotrowski, Adam J. Białas
3288	**Prevalence of infradiagnosis of COPD in women by screening with a portable COPD-6 device in Primary Care** Miguel Santibañez (Santander (Cantabria), Spain), Juan Carlos Lopez Caro, Estíbaliz Arroita, Jesús Sainz , Francisca Gómez , Pablo Gonzalez , Nicanor Valle , Mariano Rodríguez , Margarita Hierro , Mª Concepción Astruga , Montse Gonzalez , Juan Luis García-Rivero
3289	**Benralizumab effectiveness on quality of life of severe eosinophilic asthmatics in real life** Carla Maria Irene Quarato (Foggia, Italy), Giulia Scioscia, Donato Lacedonia, Mariapia Venuti, Santamaria Sonia, Fuso Paolo, Maria Cristina Colanardi, Giovanna Elisiana Carpagnano, Maria Pia Foschino Barbaro
3290	**TLCO is associated with phenomenological ageing markers in COPD patients of the COSYCONET cohort** Stefan Karrasch (Munich, Germany), Veronika Graf, Angelika Kronseder, Tanja Lucke, Rudolf A. Joerres

3291	**Cognitive decline following an acute exacerbation of COPD (AECOPD)** Grace France (Leicester, United Kingdom), Mark W Orme, Neil J Greening, Michael C Steiner, Sally J Singh
3292	**Pulmonary hemodynamics and clinical manifestations of COPD patients: is there a relationship?** Elena Klester (Barnaul (Altai Region), Russian Federation), Alexandra Balitskaya, Karolina Klester, Alexander Zharikov , Maria Nikolayeva, Valeriy Elykomov

Pre-congress content Session 216 00:00 - 23:59

E-poster session: Scientific advances in airway pharmacology

Disease(s) : Airway diseases Respiratory critical care

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

Chairs : Reinoud Gosens (Groningen, Netherlands), Loes E. M. Kistemaker (Groningen, Netherlands)

3293	**Late Breaking Abstract - Inhaled corticosteroids in bronchiectasis is associated to increased morbidity, Pseudomonas colonization and mortality – a five-year prospective cohort study** Kjell Erik Julius Håkansson (København N, Denmark), Katrine Fjaellegaard, Andrea Browatzki, Melda Sin, Charlotte Suppli Ulrik
3294	**Late Breaking Abstract - Anti-inflammatory and anti-fibrotic effect of novel, pan-PDE inhibitors in human bronchial epithelial cells** Katarzyna Wójcik-Pszczoła (Kraków, Poland), Bogdan Jakieła, Hanna Plutecka, Agnieszka Jankowska, Marietta Ślusarczyk, Grażyna Chłoń-Rzepa, Krzysztof Pociecha, Artur Świerczek, Elżbieta Wyska, Paulina Koczurkiewicz-Adamczyk, Elżbieta Pękala, Reinoud Gosens
3295	**Late Breaking Abstract - Add-on mepolizumab for chronic rhinosinusitis with nasal polyps: SYNAPSE study**
3296	**Safety, pharmacokinetics and pharmacodynamics of BI 1323495 in healthy males** Michael Desch (Biberach, Germany), Regina Sennewald, Anastasia Eleftheraki, Harald Kögler, Claudia Diefenbach
3297	**Arrhythmogenic and chronotropic effects of bronchodilator drugs on human cardiomyocytes** Martin Scurek (Brno, Czech Republic), Martin Pešl, Jan Přibyl, Šimon Klimovič, Tomáš Urban, Šárka Jelínková, Vladimír Rotrekl, Kristián Brat
3298	**Transient receptor potential vanilloid 4 channels mediate resistive breathing-induced acute lung injury.** Dimitrios Toumpanakis (Athens, Greece), Athanasia Chatzianastasiou, Vyronia Vassilakopoulou, Eleftheria Mizi, Stamatios Theocharis, Theodoros Vassilakopoulos
3299	**Resolvin E1 and E3 dampens asthmatic inflammation in a murine model** Makiko Sato (Gunma, Japan), Haruka Aoki-Saito, Masakiyo Yatomi, Hiroaki Tsurumaki, Yasuhiko Koga, Noriaki Sunaga, Toshitaka Maeno, Kunio Dobashi, Satoshi Shuto, Masataka Yamada, Takeshi Hisada
3300	**Characterisation of type two immune responses in a murine model of allergic airway disease** Nadja Kobold (London, United Kingdom), Bilel Dekkak, Pauline Flajolet, Dhiren Patel, Rober Snelgrove, Maria Belvisi, Mark Birrell
3301	**Evaluating a CD63 assay as a biomarker for SYK inhibitor activity** David Lamb (Biberach an der Riss, Germany), Katherina Sewald, Ewald Benediktus, Armin Braun
3302	**Profiling the impact of two JAK inhibitors in a pre-clinical model of allergic asthma** James Pinkerton (New Lambton Heights (NSW), Australia), Bilel Dekkak, Dimitrios Zervas, Thomais Markou, Annika Borde, Anders Cavallin, Therese Ericsson, Ramon Hendrickx, Ann Aurell Holmberg, John Steele, Maria Belvisi, Mark Birrell
3303	**In vitro and in vivo characterisation of the novel neutrophil elastase inhibitor BI 1323495** Stefan Kreideweiss (Biberach, Germany), Annette Schuler-Metz, Christian Gnamm, Stefan Peters, Thorsten Oost
3304	**Long-acting bronchodilators improve lipopolysaccharide-induced swine airway hypersecretion as well as the abnormal acidification in pH** Hidemi Aritake (Sendai, Japan), Tsutomu Tamada, Koji Murakami, Shunichi Gamo, Masayuki Nara, Hisatoshi Sugiura, Masakazu Ichinose
3305	**Beclomethasone, formoterol and glycopyrronium: effect on an ex vivo model of COPD exacerbation** Luigino Calzetta (Roma (RM), Italy), Beatrice Ludovica Ritondo, Francesco Cavalli, Matteo Matino, Mario Cazzola, Paola Rogliani

3306	**Plant protease inhibitors compared to corticosteroids in mice with Asthma-COPD** Edna Leick (Praia Grande, Brazil), Juliana Morelli Lopes Gonçalves João, Jessica Anastácia Silva Barbosa, Luana Laura Sales Da Silva, Tabata Maruyama Dos Santos, Leandr Do Nascimento Camargo, Elaine Cristina De Campos, Thiago Tafarel Galil, Beatriz Mangueira Saraiva- Romanholo, Suellen Karoline Moreira Bezerra, Sara Sumie Sobral Hamaguchi, Milton De Arruda Martins, Maria Luiza Vilela Olivo, Renato Fraga Righetti, Iolanda De Fatima Lopes Calvo Tibério
3307	**The effects of Nrf2 activators and oxidative stress on COPD alveolar macrophages** Simon Lea (Manchester (Greater Manchester), United Kingdom), Jian Li, James Baker, Clare Murray, Nicky Cooper, Cathy Lucas, Craig Fox, Dave Singh
3308	**Glucocorticoid-induced adrenal suppression and metabolic syndrome in glucocorticoid treated AECOPD patients related to different gene polymorphisms of the glucocorticoid receptor gene** Pradeesh Sivapalan (Hellerup, Denmark), Stina W. Borresen, Josefin Eklöf, Marianne Klose, Torgny Wilcke, Ulla Feldt-Rasmussen, Maria Rossing, Freja S. Holm, Rasmus L. Marvig, Niklas R. Jørgensen, Niels Seershom, Theresia S. Eriksen, Jørgen Vestbo, Jens-Ulrik Jensen

Pre-congress content — Session 217 — 00:00 - 23:59

E-poster session: Monitoring of inflammation in remodelling

Disease(s) : Airway diseases

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

Chairs : Stylianos Loukides (Athens, Greece), Antonio Spanevello (Milan, Italy)

3309	**Late Breaking Abstract - Biological determinants of sputum rheology in chronic airway diseases** Jérémy Charriot (Montpellier Cedex 5, France), Mathilde Volpato, Jérôme Vialaret, Christophe Hirtz, Carey Suehs, Eric Matzner-Lober, Isabelle Vachier, Nicolas Molinari, Arnaud Bourdin
3310	**Exogenous HSP60 stimulates airway smooth muscle cell remodeling via MAPK p38 pathway** Junling Li (Basel, Switzerland), Lei Fang, Daiana Stolz, Michael Tamm, Michael Roth
3311	**Adipokine mediators in asthma and COPD are affected by sex and age** Lars I. Andersson (Stockholm, Sweden), Anna James, Sven-Erik Dahlén, Apostolos Bossios, On Behalf Of The Bioair Consortium
3312	**Correlation of serum Matrix metalloproteinase-9 and clinico-functional parameters in COPD patients** Sanja Dimic-Janjic (Beograd, Republic of Serbia), Branislava Milenkovic, Mihailo Stjepanovic, Jelena Jankovic, Jelena Cvejic, Ivan Milivojevic
3313	**Endothelial injury in COPD assessed by microalbuminuria (MAB) and von Willebrand factor levels (vWf:Ag) and activity (vWf:Ac)** Athanasios Konstantinidis (Ioannina, Greece), Christos Chronis, Christos Kyriakopoulos, Evaggelia Papapetrou, Christina Tsaousi, Athina Tatsioni, Athina Gogali, Christos Katsanos, Katerina Vaggeli, Vanesa Bellou, Maria Kosta, Aggeliki Spanou, Charikleia Tselepi, Alexandros Charisis, Georgios Daskalopoulos, Stavros Constantopoulos, Konstantinos Kostikas
3314	**Establishing normal ranges for induced sputum cell counts in Singapore** Yu Ling Ng (Singapore, Singapore), Tunn Ren Tay, Mariko Siyue Koh, Xue Ning Choo, Anthony Yii
3315	**How different operators performing sputum eosinophil differential cell counts may affect clinical decisions for severe asthma patients.** Gaël Tavernier (Manchester (Greater Manchester), United Kingdom), Phillipa Aspin, Stephen, J Fowler, David Allen, Robert Niven
3316	**Eosinophil-derived neurotoxin concentrations indicate lower circadian variation than eosinophils in healthy volunteers and patients with asthma** Simon Young (Baddiley, United Kingdom), Farhat Syed, Nisha Kurian, Bert Rutten, Rikard Isaksson, Adam Platt, Glen Hughes
3317	**Comparison of demographic, functional and inflammatory features between atopic and non atopic asthmatics. Retrospective study on a large cohort of patients.** Sara Gerday (Liège, Belgium), Florence Schleich, Monique Henket, Virginie Paulus, Françoise Guissard, Renaud Louis
3318	**Streptococcus pneumoniae augments inflammatory process in asthma model without changing Th2 profile** CLARICE ROSA OLIVO (SAO PAULO, Brazil), Roseane M. Laia, Thamyres B.P Castro, Camila A. Santos, Beatriz M. Saraiva-Romanholo, Maria Leonor S. Oliveira, Eliane N. Miyagi, Iolanda F.C.L. Tiberio
3319	**Correlation between Blood Eosinophilia and Fractional Exhaled Nitric Oxide in the diagnosis of Asthma within Primary Care.** Lesley Farrell (, United Kingdom), Sudip Ghosh, Gailash Panray

3320	**The association between airway and systemic eosinophilia and symptoms and exacerbations differ between asthma and COPD patients** Celeste Michala Porsbjerg (Copenhagen, Denmark), Ditte Klein, Therese Sophie Lapperre, Uffe Bødtger, Kerstin Romberg, Leif Bjermer, Jonas Erjefält, Karsten Kristiansen
3321	**Lower muscle mass is related to poorer clinical outcomes in moderate to severe asthma** Edith Visser (Leeuwarden, Netherlands), Ari-Jan Azad, Tim Van Zutphen, Huib Kerstjens, Anneke Ten Brinke, Kim De Jong
3322	**Distribution of T2 markers in real-life patients with asthma, COPD and asthma+COPD from the BREATHE study** Celeste Michala Porsbjerg (Copenhagen, Denmark), Ditte Klein, Therese Sophie Lapperre, Laurits Frøssing, Alexander Silberbrandt, Uffe Bødtger, Kerstin Romberg, Leif Bjermer, Jonas Erjefält, Karsten Kristiansen
3323	**Relationship between clinical and radiological signs of bronchiectasis in COPD patients: Results from COSYCONET** Kathrin Kahnert (München, Germany), Rudolf Jörres, Hans-Ulrich Kauczor, Bertram Jobst, Jürgen Biederer, Frank Biertz, Peter Alter, Jürgen Behr, Pontus Mertsch, Franziska Trudzinski, Robert Bals, Tanja Lucke, Henrik Watz, Claus Vogelmeier, Tobias Welte
3324	**Genotyping and phenotyping of alpha1-antitrypsin deficiency Greek patients under augmentation therapy: a multicenter study** Vasiliki Apollonatou (Piraeus, Greece), Spyros A. Papiris, Argyrios Tzouvelekis, Vasilios Tzilas, Theodoros Karampitsakos, Irini Gerogianni, Zoe Daniil, Lykourgos Kolilekas, Aimilia Tsaroucha, Andriana I Papaioannou, Stavros Tryfon , Stamatia Markou, Ioanna Korbila, Katerina Vlami , Aikaterini Dimakou, Ilias C. Papanikolaou, Michael Kitrou, Zafeirios Sardelis, Eleni Stagaki, Gerasimos Apollonatos, Galateia Verykokou, Maria Kallieri, Athena Prapa, Zoe Tsilogianni, Nikolaos Roussakis, Elvira-Markela Antonogiannaki, Georgia Papadaki, Gerasimina Tsinti, Matthaios Speletas, Timm Greulich, Demosthenes Bouros, Effrosyni D. Manali
3325	**Polymorphisms for epoxide hydrolase, glutathione transferase and genetic susceptibility to COPD** Ariuntungalag Tumurbaatar (ulaanbaatar, Mongolia), Ichinnorov Dashtseren, Sarantuya Jav, Chimedlkhamsuren Ganbold
3326	**Acute exacerbations of chronic obstructive pulmonary disease: current recommendations review and quality of evidence analysis.** Jordi Rello (Barcelona, Spain), Sofia Tejada, João Ferreira-Coimbra, Miguel Gallego, Candela Solé-Lleonart, Antonio Anzueto

Pre-congress content — Session 218 — 00:00 - 23:59

E-poster session: New investigations of bronchiectasis and non-tuberculous mycobacteria

Disease(s) : Airway diseases

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

Chairs : Arietta Spinou (London, United Kingdom), Michal Shteinberg (Haifa, Israel)

3327	**Salivary SLPI and disease severity in bronchiectasis** Lídia Perea Soriano (Barcelona (CT), Spain), Elisabet Cantó, Jordi Giner, Stefano Aliberti, James D Chalmers, Silvia Vidal, Oriol Sibila
3328	**Proteinase-3 as a biomarker of exacerbations in bronchiectasis.** Hani Abo-Leyah (Perth (Perthshire), United Kingdom), Yonghua Gao, Hollian Richardson, Holly Keir, Alison Dicker, Kelly Moffitt, Amelia Shoemark, James Chalmers
3329	**Bronchiectasis: prevalance of asthma diagnosis and asthma-associated factors** Tjeerd van der Veer (Amsterdam, Netherlands), Marleen Bakker, Lieke Kamphuis, Alain Vincent François Dubois, Rogier A S Hoek, Joachim G J V Aerts, Menno E Van Der Eerden
3330	**Alpha-1 antitrypsin deficiency in patients with bronchiectasis: data from the European Bronchiectasis Registry EMBARC** Michael Loebinger (London, United Kingdom), Stefano Aliberti, Rosario Menendez, Francesco Blasi, Pierre-Regis Burgel, Felix Ringshausen, Marion Trautmann, Angela Davis, Anthony De Soyza, Michal Shteinberg, Amelia Shoemark, Josje Altenburg, James D Chalmers, Montserrat Vendrell, Eva Polverino, Sabina Skrgat, Menno Van Der Eerden, Wim Boersma, Oriol Sibila, Melissa Mcdonnell, Luiz Maiz, Paula Kauppi, Victor Botnaru, Eva Van Braeckel, Natalie Lorent, Jessica Rademacher, Charles Haworth, Katerina Dimakou, Antoni Torres, Tobias Welte, Stuart Elborn, Pieter Goeminne
3331	**Factors associated with one-year mortality in hospitalized patients with exacerbation of bronchiectasis.** Giulia Scioscia (Lucera (FG), Italy), Rosanel Amaro, Victoria Alcaraz-Serrano , Albert Gabarrus, Laia Fernandez-Barat , Patricia Oscanoa Huamán , Rosario Menendez, Raul Mendez , Maria Pia Foschino Barbaro, Antoni Torres

3332 **Heterogeneity of treatment response in bronchiectasis clinical trials**
Oriol Sibila Vidal (Barcelona, Spain), Elena Laserna, Amelia Shoemark, Diana Bilton, Megan L Crichton, Anthony De Soyza, Wim G Boersma, Josje Altenburg, James D Chalmers

3333 **Results of Tobramycin inhalation therapy in patients with noncystic fibrosis bronchiectasis with Pseudomonas Aeruginosa colonization: Real Life Management**
Elif Tanriverdi (Istanbul, Turkey), Binnaz Zeynep Yildirim, Sule Gul, Efsun Gonca Ugur Chousein, Demet Turan, Halit Cinarka, Mehmet Akif Ozgul, Erdogan Cetinkaya

3334

3335 **Sex related differences in aetiology, severity and quality of life in bronchiectasis: data from the EMBARC, EMBARC-India and Australian bronchiectasis registries**
Amelia Shoemark (Dundee (Angus), United Kingdom), Simon Finch, Antoni Torres, Stuart Elborn, Felix Ringhausen, Anthony De Soyza , Stefano Aliberti, Francesco Blasi, Katerina Dimakou, Charles Haworth, Adam Hill, Michael Loebinger, Montse Vendrell, Tobias Welte, Robert Wilson, Megan Crichton, Pieter Goeminne, Pierre-Régis Burgel , Eva Polverino, Raja Dhar, Sheetu Singh, Deepak Talwar, Murali Mohan, Surya Kant Tripathi, Rajesh Swarnakar, Sonali Trivedi, Srinivas Rajagopala, George D'Souza, Arjun Padmanabhan , B Archana, P.A Mahesh, Babaji Ghewade, Girija Nair, Aditya Jindal, Gayathri Devi H. Jayadevappa, Honney Sawhney, Kripesh Ranjan Sarmah, Kaushik Saha, Suresh Anantharaj, Arjun Khanna, Samir Gami, Arti Shah, Arpan Shah, Naveen Dutt, Himanshu Garg, Sunil Vyas, Kummannoor Venugopal, Rajendra Prasad, Aleemuddin Naveed M, Shubham Sharma, Saurabh Karmakar , Sundeep Salvi, Rachel Thomson, Daniel Smith, Justin Waring, Lata Jayaram, Lucy Burr, Conroy Wong, Paul King, Peter Middleton, Grant Waterer, Anne Chang , Chien-Li Holmes-Liew, Simone Visser, Enna Salama, Lucy Morgan, James D Chalmers

3336 **Placebo effects in pharmaceutical clinical trials in bronchiectasis: an EMBARC study**
Yonghua Gao (zhengzhou, China), Mike Lonergan, Hani Abo-Leyah, Stefano Aliberti, Rosario Menendez, Francesco Blasi, Pierre Regis-Burgel, Felix Ringshausen, Anthony De Soyza, Montserrat Vendrell, Eva Polverino, Sabina Skrgat, Menno Van Der Eerden, Wim Boersma, Oriol Sibila, Melissa Mcdonnell, Paula Kauppi, Victor Botnaru, Eva Van Braeckel, Natalie Lorent, Jessica Rademacher, Charles Haworth, Katerina Dimakou, Michael R Loebinger, Antoni Torres, Tobias Welte, J Stuart Elborn, Megan L Crichton, Pieter C Goeminne, Michal Shteinberg, Amelia Shoemark, Josje Altenburg, James D Chalmers

3337 **Evaluation of Neutrophlil to Lymphocyte Ratio (NLR) in bronchiectasis exacerbation.**
Vasiliki Georgakopoulou (Athens, Greece), Konstantinos Mantzouranis, Despina Melemeni, Georgios Petsinis, Dimitrios Mermigkis, Agathi Lekkakou, Evgenia Karakou, Rea Chatzikyriakou, Nikolaos Trakas, Xanthi Tsiafaki

3338 **What's important for people with NTM? An EMBARC-ELF patient survey**
Michal Shteinberg (Haifa, Israel), Jeanette Boyd, Bridgette Harris, Pieter Goemmine, Amelia Shoemark, Josje Altenburg, Thomas Ruddy, Tobias Welte, Francesco Blasi, Barbara Crossley, Stefano Aliberti, Ernie Lloyd, Eva Polverino, James Chalmers

3339 **Clinical outcome of multiple nontuberculous mycobacteria infection among people with bronchiectasis in Taiwan: a cohort study**
Hung Yu Huang (Taipei, Taiwan), Chun-Yu Lin, Yu-Tung Huang, Chih-Hsin Yeh, Chun-Hua Wang, Horng-Chyuan Lin

3340 **The level of MDA in BALF might reflect oxidative tissue damage in patients with mild MAC pulmonary disease.**
Shuji Oh-Ishi (Naka-gun, Japan), Kenji Nemoto, Hisayuki Oshima, Kai Kawashima, Yuki Yabuuchi, Takafumi Shimada, Yuka Kitaoka, Hitomi Hirano, Naoki Arai, Kentaro Hyodo, Atsuto Nakazawa, Jun Kanazawa, Yukiko Miura, Shingo Usui, Kenji Hayashihara, Shimao Fukai, Takefumi Saito

3341 **The difference of airway microbiota between nontuberculous mycobacteria lung disease and bronchiectasis**
Chin-Chung Shu (Taipei, Taiwan)

3342 **Non-tuberculous mycobacteria: five year experience**
Mariana Conceição (Covilhã, Portugal), Ângela Dias Cunha, Rita Ferro, Sónia Guerra, Joana Batista Correia, António Reis, António Simões Torres

Pre-congress content Session 219 00:00 - 23:59

E-poster session: Translational therapeutic advances

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

Method(s) : Cell and molecular biology | General respiratory patient care | Respiratory intensive care

Chairs : Pieter S. Hiemstra (Leiden, Netherlands), Manuela Platé (London, United Kingdom)

3343 **Late Breaking Abstract - Mapping fibroblast activity in IPF– the instructive lung ECM**
Anna Löfdahl (Lund, Sweden), Linda Elowsson Rendin, Xiao-Hong Zhou, Göran Dellgren, Martin Silverborn, Leif Bjermer, Gunilla Westergren-Thorsson

3344	**Late Breaking Abstract - Copper-heparin counteracts elastase-induced emphysema formation** Rob Janssen (Nijmegen, Netherlands), Ianthe Piscaer, Loes E.M. Kistemaker, Reinoud Gosens, Frits M.H. Franssen, Emiel F.M. Wouters, Hendrik W. Frijlink
3345	**Modelling alveoli on a breathing lung-on-chip in health and disease** Clémentine Richter (Saarbrücken, Germany), Alberto Hidalgo, Patrick Carius, Nuria Roldan, Janick Stucki, Nina Hobi, Nicole Schneider-Daum, Calus-Michael Lehr
3346	**Modeling alveolar barrier disruption in vitro for sepsis-induced ARDS preclinical studies** Nuria Roldan (Bern, Switzerland), Giulia Raggi, Kleanthis Fytianos, Jessica Petracca, Janick Stucki, Fabian Käsermann, Nina Hobi
3347	**Combined cell therapy and anticoagulants for acute respiratory distress syndrome** Marta Camprubí-Rimblas (Molins de Rei, Spain), Aina Areny, Raquel Guillamat-Prats, Luis Morales-Quinteros, Neus Tantinyà, Josep Bringué, Lluís Blanch, Antonio Artigas
3348	**LSC - 2020 - pSTAT5-SOCS1 signalling as a novel pathway in macrophage metabolic reprogramming b y Mesenchymal Stromal Cells (MSCs) in ARDS** Yue Su (Belfast (Northern Ireland), United Kingdom)
3349	**Intratracheal application of healthy lung derived Mesenchymal Stem Cells (DON-MSC) in the form of biospheres (BS) as potential therapeutic agents for chronic lung disease** Andreas Jahn (Palma De Mallorca, Spain), Carlos Rio, Aina Martin-Medina, Amanda Igleasias Coma, Josep Mercader Barceló, Orlando Gigirey, Christina Villena, Ernest Sala Linas
3350	**CCR2:A potential target for lung injury resolution>** Andres Felipe Villabona-Rueda (Baltimore, United States of America), Qiong Zhong, Ye Xiong, Tsvi Palmer , Franco D'Alessio
3351	**Azithromycin maintains barrier integrity in a cell model of ventilator induced lung injury** Jon Joelsson (Garðabær, Iceland), Iwona Myszor, Snaevar Sigurdsson, Fredrik Lehmann, Clive Page, Gudmundur Gudmundsson, Thorarinn Gudjonsson, Sigurbergur Karason
3352	**Transforming growth factor beta (TGF-ß) pathway activation by IPF fibroblast-derived soluble factors is mediated by IL-6 trans-signaling** Gali Epstein Shochet (Kfar-Saba, Israel), Becky Bardenstein-Wald, Elizabetha Brook, David Shitrit
3353	**Growth hormone releasing hormone-receptor antagonist MIA-602 modulates lung inflammation, cellular signal transduction, and promotes apoptosis of mouse lung fibroblasts** Jason Zhang (, United States of America), Roger Cui, Tian Runxia, Ren-Zhi Cai, Mehdi Mirsaeidi, Andrew Schally, Robert M. Jackson
3354	**6-aminonicotinamide ameliorates pulmonary fibrosis by suppressing the TGF-beta1 activated Smad signalling pathway** Jin Woo Song (Seoul, Republic of Korea), MIAE KIM, Hak-Su Kim, Su-Jin Moon, Hyun Ju Yoo
3355	**Antifibrotics effects of nintedanib on lung fibroblasts derived from patients with progressive fibrosing intertitial lung diseases** Audrey Joannes (RENNES, France), Claudie Morzadec, Francisco Llamas Gutierrez, Dan Cristian Chiforeanu, Bertrand Richard De Latour, Lutz Wollin, Stéphane Jouneau, Laurent Vernhet
3356	**Profibrotic implication of platelet-activating factor in tuberculous pleural effusion** Chi-Li Chung (Taipei, Taiwan), Mei-Chuan Chen, Jie-Heng Tsai, Cheng-Ying Hsieh
3357	**SDF-1 is an antifibrotic mediator in vivo** Amiq Gazdhar (Schliern b. Köniz, Switzerland), Kleanthis Fytianos, Ronja Schliep, Sofia Mykoniati , Petra Khan, Katrin Hostettler, Lars Knudsen, Thomas Geiser
3358	**Curcumin alleviates alveolar apoptosis and epithelial mesenchymal transition in bleomycin induced lung injury and fibrosis through IL-17A and TGFß1 pathways** Yashodhar Bhandary (Derlakatte , Dakshina Kannada, South Karnataka, India), Manhesh Gouda, Sadiya Shaikh, Ashwini Prabhu, Mohd Altaf Najar, Ts Keshava Prasad, Irfan K, Prashant K Modi
3359	**FGFR4 has pro fibrotic properties in Idiopathic Pulmonary Fibrosis** Mada Ghanem (Paris, France), Aurélien Justet, Madeleine Jaillet, Mouna Hachem, Tiara Boghanim, Aurélie Vadel, Arnaud Mailleux, Bruno Crestani
3360	**Fibrosis-specific stem-like cells in peripheral IPF lung: Characteristics and potential role** Katrin Esther Hostettler (Basel, Switzerland), Petra Khan, Julien Roux, Spasenija Savic, Lars Knudsen, Danny Jonigk, Mark Kuehnel, Amiq Gazdhar, Thomas Geiser, Michael Tamm

3361 **LSC - 2020 - The transcriptome of IPF fibrotic foci identifies the fatty acid metabolism as a critical pathway i n fibrogenesis**

Pre-congress content Session 220 00:00 - 23:59

E-poster session: Imaging evaluation of chronic lung diseases

Disease(s) : Interstitial lung diseases | Airway diseases | Sleep and breathing disorders

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

3362 **Using Dynamic Chest Radiography to Assess the Impact of Endobronchial Valve Treatment on Lung Volumes and Diaphragm Motion in Severe Emphysema**
Thomas Simon FitzMaurice (Liverpool, United Kingdom), Caroline Mccann, Mike Shackcloth, Ram Bedi, Dilip Nazareth, Martin Walshaw, Kamlesh Mohan

3363 **Frequency and patterns of lung involvement in patients with vascular Ehlers Danlos Syndrome: Chest computed tomography features and histological comparisons**
Amira Benattia (Paris (Île-de-France), France), Amira Benattia, Samia Boussouar, Jean-Baptiste Escudié, Laure Gibault, Frederique Capron, Pierre-Yves Brillet, Philippe Grenier, Xavier Jeunemaitre, Elie Mousseaux, Michael Frank, Olivier Sanchez

3364 **Digital tomosynthesis in diagnostics and monitoring of chronic obstructive pulmonary disease**
Irina Sincarenco (Chisinau, Republic of Moldova), Nicolae Nalivaico, Anna Moscovciuc, Valentina Bolotnicova

3365 **Diaphragm Efficiency Evaluation in Patients with Connective Tissue Diseases**
Enikő Bárczi (Budapest, Hungary), Noémi Eszes, Anikó Bohács, Krisztina Vincze, Bence Fejér, Ádám Domonkos Tárnoki, Dávid László Tárnoki, Kinga Karlinger, Veronika Müller

3366 **Impact of Computed Tomography during Chronic Obstructive PulmonaryDisease Exacerbation**
rihab JEBALI (ARIANA, Tunisia), Amani Ben Mansour, Soumaya Ben Saad, Samia Essebaa, Nouha Guediri, Hafaoua Daghfous, Fatma Tritar

3367 **Small-scale clinical validation of structured light plethysmography (SLP) preliminary reference equations**
Shayan Motamedi Fakhr (Ely (Cambridgeshire), United Kingdom), Nicki Barker, John Alexander, Richard Iles, Brendan G Cooper

3368 **Assessing Diaphragm Motion Using Dynamic Chest Radiography: a Case Series**
Thomas Simon FitzMaurice (Liverpool, United Kingdom), Caroline Mccann, Ram Bedi, Dilip Nazareth, Martin J Walshaw

3369 **Correlation between chest CT features and clinical characteristics of patients with bronchiectasis.**
Alia Ezzaouia (Tunis, Tunisia), Houda Rouis, Chirine Moussa, amal chennoufi, Alia Ezzaouia, Wajih Gheribi, Nada Akrimi, Ibtihel Khouaja, Amel Khattab, Ines Zendah, Habib Ghedira

3370 **Oropharyngeal swallowing pathophysiology in patients with idiopathic pulmonary fibrosis: A consecutive descriptive case series.**
Amal Alamer (newcastle upon tyne , United Kingdom), Amal Alamer, Rhys Jones, Chris Ward, Michael Drinnan, Alexander John Simpson, Michael Griffin, Joanne Patterson , Ian Forrest

3371 **Structural changes on high resolution computed tomography (HRCT) in adult individuals with a history of bronchopulmonary dysplasia (BPD)**
Melvin Pourbazargan (Sundbyberg, Sweden), Sven Nyren, Petra Um-Bergström, Eva Berggren-Broström, Erik Melén, Rebecka Steern, Åsa M Wheelock, Anders Lindén, Reza Karimi, C Magnus Sköld

3372 **Ttransradial bronchial artery embolization for massive hemoptysis secondary to tuberculosis**
Zili Meng (Shijiazhuang, China), Jia Meng, Yi Bai

Pre-congress content Session 221 00:00 - 23:59

E-poster session: Translational aspects of idiopathic pulmonary fibrosis

Disease(s) : Airway diseases | Interstitial lung diseases | Pulmonary vascular diseases

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

Chairs : Argyris Tzouvelekis (Athens, Greece), Manuela Funke-Chambour (Bern, Switzerland)

3373 **The novel oligonucleotide therapeutics PK-7010 for TGF-ß1 ameliorates bleomycin-induced pulmonary fibrosis in mice**
naoki takahashi (tokushima, Japan), Seidai Sato, Takeshi Imakura, Kojin Murakami, Nobuhito Naito, Kozo Kagawa, Kazuya Koyama, Hiroshi Kawano, Kazuaki Tanigawara, Wataru Toriumi, Yasuhiko Nishioka

3374	**PDGFRa and aSMA mark two distinct mesenchymal cell populations involved in parenchymal and vascular remodeling in pulmonary fibrosis.** Valentina Biasin (Graz, Austria), Slaven Crnkovic , Anita Sahu-Osen , Anna Birnhuber , Elie El Agha , Katharina Sinn , Walter Klepetko , Andrea Olschewski , Saverio Bellusci, Leigh M. Marsh, Grazyna Kwapiszewska
3375	**DPP-4 is overexpressed in lung tissue from idiopathic pulmonary patients and activates lung fibroblasts** Paula Montero Magalló (valencia, Spain), Javier Milara , Inés Roger, Cristina Estornut, Julio Cortijo
3376	**Altered ECM niche in IPF affect structural remodeling** Linda Elowsson Rendin (Lund, Sweden), Anna Löfdahl, Liang Xiong, Barbora Michaliková, Xiaohong Zhou, Göran Dellgren, Gunilla Westergren-Thorsson
3377	**Elevated apoptosis rate of alveolar lymphocytes (AL) in idiopathic pulmonary fibrosis (IPF) and nonspecific interstitial pneumonitis (NSIP) – strong positive correlation with bronchoalvoelar lavage (BAL) neutrophil count.** Piotr Kopinski (Bydgoszcz, Poland), Tomasz Wandtke, Tomasz Senderek, Ewelina Wędrowska, Joanna Golińska, Karina Szabłowska, Grzegorz Przybylski
3378	**IL-11 promotes pulmonary vascular remodeling and lung fibrosis through the activation of endothelial to mesenchymal transition.** Ines Roger (Valencia, Spain), Javier Milara, Paula Montero, Pilar Ribera, Julio Cortijo
3379	**Decreased mitochondrial complex I activity in blood lymphocytes of patients with idiopathic pulmonary fibrosis** Ilias Dimeas (Larissa, Greece), Emily Zifa, Andreas Mouikis, Aglaia Pozantzi, Konstantina Rossi, Anna-Maria Psarra, Sotirios Sinis, Foteini Bardaka, Foteini Malli, Konstantinos Gourgoulianis, Zoe Daniil
3380	**What cells are replacing the epithelium in cystic remodeling in UIP and COPD** Florian Gallob (Graz, Austria), Luka Brcic, Tamas Zombori, Sylvia Eidenhammer, Wim Timens, Helmut H. Popper
3381	**Danshenextract salt Inhibits bleomycin-induced experimental pulmonary fibrosis** Handong Jiang (Shanghai, China), Fangfang Wang, Xueqing Liu
3382	**Effect of Tunisian Olive Leaf Extract on oxidative stress and lung fibrosis in rats** Sana BAHRI (Tunis, Tunisia), Raed Abdennabi, Afef Nahdi, Ridha Ben Ali, Mona Mlika, Saloua Jameleddine
3383	**In depth mass spectrometry based proteomic approach to explore the effect of curcumin in IL17A mediated alveolar barrier injury** Sadiya Shaikh (Mangalore, India), Yashodhar P Bhandary, Mohd Altaf Najar, Ashwini Prabhu, Ts Keshava Prasad, Mahesh M Gouda, Irfan K, Prashant K Modi, Yashodhar P Bhandary
3384	**Aging decreases pulmonary fibrosis reversibility via remodeling fatty acid metabolism of fibroblasts modulated by PRDM16** Yue Zhang (, China), Ying Meng
3385	**Analysis of localization of nintedanib and cyclophosphamide in pulmonary fibrosis using the iMScope TRIO** Seidai Sato (Hamilton (ON), Canada), Takushi Yamamoto, Kana Waki, Yuki Morimoto, Takeshi Imakura, Kojin Murakami, Naoki Takahashi, Nobuhito Naito, Kozo Kagawa, Kazuya Koyama, Hiroshi Kawano, Koichi Tsuneyama, Yasuhiko Nishioka
3386	**The pulmonary microbiome and immunological activity in IPF patients.** Kristel Svalland Knudsen (Bergen, Norway), Sverre Lehmann, Pieter S Hiemstra, Rune Nielsen, Tomas Mikal Eagan
3387	**Inhalation of thoron (Tn) gas in controlled conditions of high background radiation (HBR) using natural thorium: Radioactive dose deposition and acute pneumocystis changes in mouse** Debajit Chaudhury (Mangalore, India), Utsav Sen, Nagesh N. Bhat, Bijay K. Sahoo, Sudheer Shenoy P., Siddhartha Biswas, Karunakara N, Bipasha Bose
3388	**Validation of 18F-Fluorodeoxyglucose Positron Emission Tomography as a Translational Biomarker to Support the Development of Novel Anti-fibrotic Drug Therapies** Mary Mcelroy (Edinburgh (Edinburgh), United Kingdom), Juliana Maynard, Sally Price, Peter Simpson
3389	**Bronchoalveolar lavage differential cell count on assessment of patients with pulmonary fibrosis** Johanna Salonen (Oulu, Finland), Henri Lampela, Eerika Keskitalo, Hannu Vähänikkilä, Minna Purokivi, Riitta Kaarteenaho
3390	**Role of Exosome associated miRNA in IPF** Silvia Romana Stornelli (Roma, Italy), Donato Lacedonia, Federica Maci, Cosimo De Pace, Ernesto Giuffreda, Giulia Scioscia, Piera Soccio, Maria Pia Foschino Barbaro

3391	**Correlation of response to antifibrotic treatment with adverse events to antifibrotic drugs in IPF patients from the real-world EMPIRE registry** Dragana M. Jovanović (Beograd, Republic of Serbia), Martina Šterclová, Nesrin Mogulkoc, Katarzyna Lewandowska, Veronika Müller, Marta Hájková, Mordechai Kramer, Jasna Tekavec-Trkanjec, Michael Studnicka, Natalia Stoeva, Biserka Jovkovska Kaeva, Simona Littnerová, Marina Roksandić Milenković, Martina Vašáková

Pre-congress content Session 222 00:00 - 23:59

E-poster session: Addressing unresolved questions in rare diffuse parenchymal lung diseases: interdisciplinary research is the key

Disease(s) : Interstitial lung diseases Respiratory critical care

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

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

3392	**Incidence and prevalence of Systemic Sclerosis-associated Interstitial Lung Disease in a multicenter prospective cohort study.** Koen Verbeke (Berchem, Belgium), Els Vandecasteele, Karin Melsens, Daniel Blockmans, Charlotte Carton, Filip De Keyser, Ellen De Langhe, Bernard Lauwerys, Yves Piette, Amber Vanhaecke, Wim Wuyts, Guy Brusselle, Vanessa Smith
3393	**Effects of nintedanib in patients with SSc-ILD and preserved and highly impaired lung function** Wim A Wuyts (Leuven, Belgium), Arata Azuma, Jörg H W Distler, Klaus Sondergaard, Susanna Proudman, Vincent Cottin, Elvira Erhardt, Manuel Quaresma, Martina Gahlemann, Margarida Alves, Toby M Maher
3394	**FVC decline in patients with SSc-ILD by use of anti-acid therapy** Michael Kreuter (Heidelberg, Germany), Hilario Nunes, Gerard J Criner, Petros Sfikakis, Wendy Stevens, Corinna Miede, Manuel Quaresma, Margarida Alves, Ganesh Raghu
3395	**Rerationship between interstitial pneumonia related systemic sclerosis and esophageal motility abnormalities** KENICHIRO HARA (Maebashi, Gunma, Japan), Kouichi Yamaguchi, Masakiyo Yatomi, Hiroaki Tsurumaki, Takeshi Hisada, Toshitaka Maeno
3396	**Interstitial lung disease with ANCA-associated vasculitis (AAV-ILD): Clinical features and survival compared to patients with ILD associated with systemic sclerosis and IPF** Felipe Reyes (Peñalolén, Chile), Silvana Saavedra, Karen Vergara, Pamela Wurmann
3397	**Lung involvement in primary biliary cholangitis (PBC)** Michael Brovko (Moscow, Russian Federation), Victoria Sholomova, Larisa Akulkina, Michael Kalashnikov, Denis Konovalov, Alisa Yanakaeva, Sergey Moiseev
3398	**Effect of anti-IL-17 biologics on KL-6 level and coexisting interstitial pneumoniain patients with psoriasis** Hiromichi Hara (Tokyo, Japan), Hanae Miyagawa, Jun Araya, Shunsuke Minagawa, Takanori Numata, Yoshinori Umezawa, Akihiko Asahina, Kazuyoshi Kuwano
3399	**Clinical characteristics of lymphangioleiomyomatosis and application of a novel automated cyst burden score** Evelyn Lynn (Blackrock (Co. Dublin), Ireland), Joseph Morrow, Alan Kelly, Aurelie Fabre, Jonathan Dodd, Michael Keane, David Murphy, Cormac Mccarthy
3400	**Comparison of pulmonary function tests (PFTs) and 6-minute walk test (6MWT) in patients with lymphangioleiomyomatosis (LAM)** Rémi Diesler (Lyon, France), Vincent Cottin, Ségolène Turquier, Mouhamad Nasser, Kais Ahmad, Julie Traclet, Jean-Charles Glerant
3401	**Design of phase II, randomized, placebo-controlled study of loratadine associate with rapamycin in patients with lymphangioleiomyomatosis (LAM)** Jaume Bordas-Martínez (barcelona, Spain), Carmen Herranz, Vanesa Vicens-Zygmunt, Antonio Román, Cristina Berastegui , Piedad Ussetti, Rosalía Laporta, Julio Ancochea, Claudia Valenzuela, Alvaro Casanova , Emilio Ansótegui, Jose Antonio Rodríguez-Portal, Guadalupe Bermudo, Patricio Luburich, Roger Llatjós, Salud Santos, Jordi Dorca, Pilar Hereu, Miquel Àngel Pujana * Sharing Senior Position, Maria Molina-Molina * Sharing Senior Position
3402	**Birt Hogg-Dubé syndrome in Poland** Elżbieta Radzikowska (Warszawa, Poland), Lucyna Opoka, Jolanta Winek, Katarzyna Błasińska, Elzbieta Wiatr
3403	**Pivotal role of the HMGB1/sRAGE axis in drug-induced lung injury in advanced lung cancer with pre-existing interstitial lung disease** Satoshi Nakao (hiroshima, Japan), Yamaguchi Kakuhiro, Shinjiro Sakamoto, Yasushi Horimasu, Takeshi Masuda, Shintaro Miyamoto, Taku Nakashima, Hiroshi Iwamoto, Shinichiro Ohshimo, Kazunori Fujitaka, Hironobu Hamada, Noboru Hattori

3404	**Clinical characteristics of a Diffuse Idiopathic Pulmonary Neuroendocrine Cell Hyperplasia (DIPNECH) Cohort** Margaret Gleeson (Limerick, Ireland), Aurelie Fabre, Dermot O' Toole, Rachel Crowley, David Murphy, Cormac Mc Carthy
3405	**Effectiveness of chemotherapy treatment for patients with pulmonary Langerhans cell histiocytosis during long-term follow-up** Arina Zinchenko (St. Petersburg, Russian Federation), Lubov' Novikova, Mikhail M. Ilkovich
3406	**Mini-whole lung lavage to treat pulmonary alveolar proteinosis (PAP)** Elena Salvaterra (Riva Del Garda (TN), Italy), Sara Lettieri, Francesca Mariani, Davide Piloni, Federica Meloni, Ilaria Campo
3407	**Novel method of whole lung lavage therapy using biphasic cuirass ventilator for pulmonary alveolar proteinosis; the retrospective observational study.** daisuke tamanoi (kumamoto-shi, Japan), Chieko Yoshida, Toshiki Kimura, Takayuki Jodai, Tatsuhiro Isimura, Shinichiro Okamoto, Hidenori Ichiyasu, Tatsuro Yamamoto, Takuro Sakagami
3408	**A single-centre retrospective study to phenotype unclassifiable interstitial lung disease** Laura Fabbri (Nottingham, United Kingdom), Mouhamad Nasser, Kais Ahmad, Julie Traclet, Vincent Cottin
3409	**Comorbidities in unclassifiable interstitial lung disease** Charlotte Hyldgaard (Åbyhøj, Denmark), Sebastiano Torrisi, Sissel Kronborg-White, Claudia Ganter, Elisabeth Bendstrup, Michael Kreuter

Pre-congress content — Session 223 — 00:00 - 23:59

E-poster session: Non-invasive ventilation during acute and chronic respiratory failure: technical aspects, adherence and effects

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

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

Chairs : Marieke L. Duiverman (Groningen, Netherlands), Dimitrios Toumpanakis (Athens, Greece)

3410	**Late Breaking Abstract - Non-invasive ventilation for COVID-19 at a North East London NHS Trust: a retrospective analysis** Matthew Birch (BRENTWOOD, United Kingdom), Charlotte Toms, Harish Shankar Kumar, Claire Calderwood, Adam Ainley
3411	**Late Breaking Abstract - Retrospective analysis of CPAP using home NIV machines outwith ICU for COVID-19** Varun Sharma (, United Kingdom), Grace Mcdowell, Daniel Rodgers, Elizabeth Routledge, Thomas French, Jill Selfridge, Dagshagini Taylor, David Colville, Allan Cameron, Pauline Grose, Joris Van Der Horst, Douglas Cowan, Mark Cotton
3412	**1-Year mortality in patients with home mechanical ventilation** Roy T.M. Sprooten (Cadier en Keer, Netherlands), Bettine A.H. Vosse, Anne Q.R. Visser, Sander C.M. Steyns, Marijke Rutten, Nicolle A.M. Cobben, Geertjan Wesseling
3413	**Survival estimates in patients with home non-invasive ventilation** Ana Da Cunha Fonseca (Peso da Régua, Portugal), Marta Sá Marques, Ana Rita Gigante, Carla Nogueira, Daniela Ferreira, Sara Conde, Carla Ribeiro
3414	**The utility of esophageal pressure measurement in non-invasive ventilation weaning in severe COPD exacerbation** Alexandru Tudor Steriade (Bucuresti, Romania), Mihai Gologanu, Daniela Necula, Nicoleta Sargarovschi, Diana Radu, Diana Ionita, Cornelia Tudose, Dragos Bumbacea
3415	**Onset and clinical predictors of delirium in patients undergoing non-invasive mechanical ventilation for acute respiratory failure – NIVILIUM multicenter trial** Luca Tabbì (MODENA, Italy), Roberto Tonelli, Ivana Castaniere, Riccardo Fantini, Sara Sorgentone, Maria Cristina Paonessa, Marianna Sacchi, Antonella Spacone, Roberto Dongilli, Elisa Boni, Laura Falsini, Viviana Ribuffo, Alessandro Marchioni, Lara Pisani, Stefano Nava, Enrico Clini
3416	**High Flow Nasal Therapy (HFNT) in Pediatric patients at the Home** Adel Bougatef (San Antonio, United States of America), Guadalupe Martinez, Derrick Watson, Shannon Hardy, Ashley Phillips, Rodney Gray
3417	**Nusinersen for Spinal Muscular Atrophy type 1: Real-World Respiratory Experience** Moran Lavie (Tel-Aviv, Israel), Nir Diamant, Efraim Sadot, Aviva Fatal, Liora Sagi, Keren Armoni Domany, Israel Amirav

3418 **Integrated Respiratory Care for Patients on Prolonged Home mechanical Ventilation: Preliminary Results of the CAI_Vent Program**
Margarida Torres Redondo (Matosinhos, Portugal), Daniela Rodrigues, David Araujo, Tiago Pinto, Arnaldo Fernandes, Carol Pinto, Pedro Pinheiro, Manuela Sousa, Antonio Loureiro, Paulo Costa, Teresa Honrado, Miguel Gonçalves

3419 **HOW OUR AMYOTROPHIC LATERAL SCLEROSIS PATIENTS DIE**
Natalia Pascual Martinez (Cordoba, Spain), María Melgar Herrero, Cristina Gómez Rebollo, Elisa Martínez Repiso

3420 **The minimal clinical important difference of the severe respiratory insufficiency questionnaire in stable hypercapnic COPD patients on chronic NIV.**
Tim Raveling (Groningen, Netherlands), Janine Kort, Gerrie Bladder, Peter Wijkstra, Marieke Duiverman

3421 **Usage of a mobile BiPAP device for reducing dyspnea during exercise in patients with moderate to severe COPD naive to mechanical ventilation- a randomized crossover trial –**
Daniel Majorski (Cologne, Germany), Sarah Schwarz, Friederike Magnet, Jens Callegari, Claudia Schmoor, Wolfram Windisch

3422 **Compliance to domiciliary noninvasive ventilation in stable hypercapnic COPD patients**
Mariem Ferchichi (Tunis, Tunisia), Hafoua Daghfous , Amani Ben Mansour, Soumaya Ben Saad , Fatma Tritar

3423 **Development of the Severe Respiratory Insufficiency application-a randomized controlled trial-**
Daniel Majorski (Cologne, Germany), Jens Callegari, Sarah Schwarz, Friederike Magnet, Tim Mathes, Hüseyin Ates, Rebar Ahmad, Navid Fazel, Wolfram Windisch

3424 **Objective sleep quality is altered by the systematic adjunction of a humidification system during home non-invasive ventilation (NIV): a randomized controlled trial**
Maxime Patout (Mont-Saint Aignan, France), Astrid Bertier, Emeline Fresnel, Adrien Kerfourn, Jean-François Muir, Adriana Portmann, Elodie Lhuillier, Antoine Cuvelier

3425 **Non Invasive Ventilation in adult CF patients: a single centre experience in last two decades.**
Barbara Messore (Torino (TO), Italy), Carlotta Biglia, Sara Demichelis, Cristina Bena, Roberta Di Tria, Anna Maria Rella, Paolo Maria Trovato, Martina Sciolla, Cinzia Ferrero, Alessio Mattei

3426 **Overnight EPAP Adjustments Addressing Expiratory Flow Limitation**
Chris Procyk (, United States of America), Chuck Cain, Jim Mckenzie, Michael Kissel, Bill Hardy, Parul Nisha, Sidney Cannon-Bailey

3427 **Adherence to Home Mechanical Ventilation over 10-Years:A Retrospective, Single-Centre Cohort Study**
Omar Masoud (London, United Kingdom), Michelle Ramsay, Eui-Sik Suh, Georgios Kaltsakas, Shelley Srivastava, Hina Pattani, Philip Marino, Patrick Murphy, Nicholas Hart, Joerg Steier

3428 **Microbiological contamination of humidifiers used for home noninvasive ventilation (NIV)**
Maxime Patout (Mont-Saint Aignan, France), Justine Dampierre, Christine Chefson Girault, Andre Gillibert, Elise Fiaux, Edouard Dantoing, Juliette Da Cunha, Gwenaelle Maclaud, Remy Dubian, Adeline Dunet, Maryline Lefort, Elodie Lhuillier, Jean Francois Muir, Martine Pestel-Caron, Antoine Cuvelier

3429 **Improving response times for acute non-invasive ventilation (NIV) set-ups**
Max Thomas (Birmingham, United Kingdom), Pearlene Antoine-Pitterson, Alice Robinson, Bethany Jones, Anushka Shanmugarajah, Alain Al Helou, Rahul Mukherjee

Pre-congress content Session 224 00:00 - 23:59

E-poster session: Novel findings regarding acute respiratory distress syndrome, extra corporeal membrane oxygenation and weaning from mechanical ventilation

Disease(s) : Respiratory critical care Interstitial lung diseases

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

Chairs : Dominic Dellweg (Schmallenberg Grafschaft, Germany), Patrick B. Murphy (Oxted (Surrey), United Kingdom)

3430 **Late Breaking Abstract - Abdominal Muscle Function During Spontaneous Breathing Trials to Predict Extubation Failure**
Annia Fleur Schreiber (Torino (TO), Italy), Michele Bertoni, Benjamin Coiffard, Samira Fard, Jenna Wong, W. Darlene Reid, Laurent Brochard, Simone Piva, Ewan C. Goligher

3431 **Late Breaking Abstract - High volume, low PEEP and passive hyperventilation without sedatives instead of low tidal volume, high PEEP and deep sedation in COVID19.**
Gerhard Laier-Groeneveld (Bochum, Germany), Bernd Kurz, Carl-Peter Criée, Gert Hasenfuß

3432	**Predictors for successful weaning from V-V ECMO** Christoph Fisser (Regensburg, Germany), Felix Gerhardinger, Thomas Müller, Maximilian Malfertheiner, Alois Philipp, Maik Foltan, Dirk Lunz, Matthias Lubnow
3433	**Comparison of anticoagulation strategies for veno-venous ECMO support in acute respiratory failure** Benjamin Seeliger (Hannover, Germany), Robert Friedrich, Michael Döbler, Klaus Stahl, Julius J Schmidt, Heiko Schenk, Christian Kühn, Johann Bauersachs, Tobias Welte, Marius M Hoeper, Christian Bode, Sascha David
3434	**Open-lung biopsy identifies airway morphological changes in distal airways of patients with ARDS.** Ludovic Gerard (Bruxelles, Belgium), Delphine Hoton, Pierre-Francois Laterre, Charles Pilette
3435	**Cerebral cortex and respiratory muscle perfusion and oxygenation responses between patients failing or succeeding the SBT** Zafeiris Louvaris (Leuven, Belgium), Marine Van Hollebeke, Philippe Meersseman, Joost Wauters, Alexander Wilmer, Rik Gosselink, Greet Hermans, Daniel Langer
3436	**Prognostic score of prone positioning to predict outcome in paients with moderate to severe acute respiratory distress syndrome** Pin-Kuei Fu (Taichung, Taiwan), Po-Hsin Lee
3437	**Oxygen saturation index as a surrogate to oxygenation index in predicting outcomes in ARDS** Sushmitha Jakka (Visakhapatnam (Andhra Pradesh), India), Sateesh Chandra, Dhruva Chaudhry, Manjuunath B.G, Diksha Tyagi, Athul Thulasi
3438	**Study of relation between weaning failure from mechanical ventilation and cardiac dysfunction in Intensive Care patients.** Radwa Elhefny (Cairo, Egypt), Sherif Zaki, Osama Momtaz, Rabab Fawzy
3439	**Early gas exchange effect of prone positioning is not associated with intensive care unit survival in moderate to severe acute respiratory distress syndrome** You-Yi Chen (Yunlin County 6, Taiwan)
3440	**Extracorporeal membrane oxygenation for adults with active malignancy: Is there difference to clinical outcome between hematologic and oncologic?** Chul Park (Iksan, Jeollabuk-do, Republic of Korea), Eun Taek Jung, Ki Eun Hwang, Jae Wan Jung, Hyun Im, Hak Ryul Kim
3441	**Use of digital auscultation in patients with ARDS: a correlation study with CT imaging** Angelo Calabrese (ROMA, Italy), Davide Chiumello, Martina Gurgitano, Arianna Ciabattoni, Francesco Lombardi, Giacomo Sgalla, Luca Richeldi
3442	**Go Easy with the Fluids? Increased Mortality in Acute Respiratory Distress Syndrome with Hypervolemia** Kam S Ho (New York, United States of America), Paaras Kohli, Yasmin Herrera, Archana Pattupara, Joseph Poon, Shabnam Nasserifar, Andre Sotelo, Raymonde Jean
3443	**Electrical stimulation of the expiratory muscles to maintain muscle activity during the acute stages of mechanical ventilation: a pilot RCT** Annemijn Jonkman (Raalte, Netherlands), Tim Frenzel, Angus Mc Lachlan, Euan Mc Caughey, Jeroen Schouten, Pieter R. Tuinman, Jane Butler, Leo Heunks
3444	**Inadequate assessment of patient-ventilator interaction due to suboptimal diaphragm electrical activity signal filtering** Annemijn Jonkman (Raalte, Netherlands), Lisanne Roesthuis, Esmée De Boer, Heder De Vries, Armand Girbes, Hans Van Der Hoeven, Pieter R. Tuinman, Leo Heunks
3445	**Central venous oxygen saturation as a predictor of failure of weaning from mechanical ventilation** Muhammad Essam Nagy (Portsaid, Egypt), Samiha Ashmawi, Hala Salem
3446	**Using the Rox index for Nasal High Flow therapy in patients with interstitial lung disease and severe acute respiratory failure.** Ana Cysneiros (Lisboa, Portugal), Diana Organista, Daniela Machado, Daniela Rodrigues, Francisca Lopes, Catarina Antunes, Fernanda Paula, Filipe Froes
3447	**Risk factors of reintubation in patients receiving post-extubation nasal high flow therapy** Jo Min Ju (Seoul, Republic of Korea), Yun Jung Huh, Yoomi Yeo, Ji-Yong Moon, Tae-Hyung Kim, Sung Jun Chung, Hyun Lee, Dong Won Park, Sang Heon Kim, Jang Won Sohn, Ho Joo Yoon, Tai Sun Park

Pre-congress content Session 225 00:00 - 23:59

E-poster session: Pulmonary embolism and beyond

Disease(s) : Airway diseases | Respiratory critical care | Pulmonary vascular diseases | Sleep and breathing disorders | Thoracic oncology

Method(s) : Public health | Pulmonary function testing | Respiratory intensive care | Imaging | General respiratory patient care | Surgery | Pulmonary rehabilitation | Cell and molecular biology

Chairs : Laurent Bertoletti (Saint Etienne Cedex, France), Jorge Moisés Lafuente (Barcelona, Spain)

3448	**In-hospital and long term (10-year) outcomes of thromboembolic disease in a single tertiary center in Greece: "Real world data"** Evangelia Serasli (Thessaloniki, Greece), Stavros Tryfon, Marianna Moyseos, Alexia Stavrati, Eleni Kerezidou, Athina Georgopoulou, John Zarifis, Adamantios Chloros
3449	**Prevalence of Pulmonary Embolism Among Systemic Lupus Erythematosus patients** Biljana Lazovic (Beograd, Republic of Serbia), Sanja Sarac, Rade Milic, Vladimir Zugic
3450	**How many patients recover from acute kidney injury after pulmonary embolism?** Laurent Bertoletti (Saint Etienne Cedex, France), Martin Murgier, Léa Fouillet, Edouard Ollier, Adel Merah, Nathalie Moulin, Sandrine Accassat, Cécile Duvillard, Elodie De Magalhaes, Patrick Mismetti, Manuel Monreal
3451	**Obstructive sleep apnea and prognosis in acute pulmonary embolism** Thomas M. Berghaus (Augsburg, Germany), Fabian Geissenberger, Sabine Haberl, Martin Schwaiblmair, Wolfgang Von Scheidt, Dirk Von Lewinski, Michael Probst, Thomas Kroencke, Florian Schwarz
3452	**Interventional Treatment in Chronic Thromboembolic Pulmonary Hypertension with Microvasculopathy** Hiroyuki Onishi (Kobe City, Japan), Yu Taniguchi, Yoichiro Matsuoka, Yu Izawa, Yasunori Tsuboi, Hiromasa Otake, Seimi Satomi-Kobayashi, Noriaki Emoto, Ken-Ichi Hirata
3453	**Diagnostic value of d-dimer in the diagnosis of pulmonary embolism in pregnancy** Somayeh Sadeghi (Isfahan, Islamic Republic of Iran), Bahareh Safaian
3454	**Clinical in-hospital mortality profile of pulmonary embolism** Loreta Karaulli(Agolli) (Tirana, Albania), Juliana Gjerazi, Silvana Bala, Jul Bushati
3455	**Venous thromboembolic disease in patients with small cell lung cancer: incidence and clinicopathological risk factors** Andriani Charpidou (Athens, Greece), Konstantinos Livanios, Evangelos Dimakakos, Dimitrios Vassos, Panagiota-Elisavet Polydorou, Dimitra Grapsa, Elias Kainis, Konstantinos Syrigos
3456	**Original, simplified, and modified pulmonary embolism severity indices in risk stratification of pulmonary embolism** Maha Yousif (Menoufia Gavornorate, Egypt), Sabah A. Hussein
3457	**Factors associated with thromboembolic events in patients with pulmonary tuberculosis** Abir Hedhli Ep Cherni (tunis, Tunisia), Safa Marzouki, Meriem Mjid, Yacine Ouahchi, Sana Cheikhrouhou, Jouda Cherif, Sonia Toujeni, Samira Merai
3458	**Hydatid pulmonary embolism** amina abdelkbir (ben arous, Tunisia), Imen Bouassida, Hazem Zribi, Asma Saad, Amani Ben Mansour, Sonia Ouerghi, Aida Ayadi, Adel Marghli
3459	**Improvements in short- and long-term outcomes in patients with pulmonary embolism after outpatient pulmonary rehabilitation** Stephan Nopp (Vienna, Austria), Frederikus A. Klok, Florian Moik, Milos Petrovic, Irmgard Derka, Cihan Ay, Ralf H. Zwick
3460	**DIFFERENCES IN PSYCHOLOGICAL FACTORS BETWEEN PATIENTS WITH LEFT HEART FAILURE AND RIGHT HEART FAILURE ASSOCIATED WITH CHRONIC OBSTRUCTIVE PULMONARY DISEASE** Manuel Abraham Gómez Martínez (Mexico City, Mexico), Karla Leticia Rosales Castillo, Viridiana Peláez Hernández, Laura Arely Martínez-Bautista , Arturo Orea-Tejeda , Karen Aide Santillán-Reyes , Guadalupe Lizzbett Luna-Rodríguez , Yael Ramiro Gastelum Ayala
3461	**Endothelin-1 gen (EDN1) regulating miRNAs are downregulated in Idiopathic Pulmonary Arterial Hypertension** Adolfo Baloira Villar (Pontevedra, Spain), Mauro Lago Docampo, Carlos López, Carlos Vilariño, Joan Albert Barberá, Isabel Blanco, Diana Valverde
3462	**Differences of functional capacity between patients with left heart failure and rightheart failure associated with chronic pulmonary diseases** Manuel Abraham Gómez Martínez (Mexico City, Mexico), Arely Martínez , Viridiana Peláez Hernández, Arturo Orea Tejeda, Rocio Sánchez Santillán, Karen Santillán Reyes, Karla Leticia Rosales Castillo , Guadalupe Lizzbett Luna Rodríguez, Manuel Abraham Gomez Martínez

Pre-congress content Session 226 00:00 - 23:59

E-poster session: Current and contemporary practices in endobronchial ultrasound

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

Method(s) : Imaging | Endoscopy and interventional pulmonology | Respiratory intensive care | Physiology

Chairs : Prashant Nemichand Chhajed (Mumbai, India)

3463	**Late Breaking Abstract - The impact of COPD on hypercapnia during flexible bronchoscopy with EBUS-TBNA in analgosedation** Daniel Strohleit (Essen, Germany), Erich Stoelben, Friederike Magnet, Thomas Galetin
3464	**Safety and diagnostic yield of echobronchoscopy guided transvascular punction** Marwan Mohamed Choukri (Madrid, Spain), Andrés Giménez Velando, Francisco José Laso Del Hierro, Ainhoa Izquierdo Pérez, Andrés Mauricio Morales García, Javier Flandes Aldeyturriaga
3465	**Variability of sedation controlled by pulmonologists during EBUS in Spain** Juan A. Cascón Hernández (Gijón, Spain), Blanca De Vega Sánchez, María Pavón Masa, Carmen Lucena Pozo, Lucía Ferreiro, Chunshao Hu Yang, Aurelio Luis Wangüemert Pérez, Francisco Muñiz González, Paola Antonella Benedetti, Ignacio Lobato Astiárraga, Beatriz Amat Humaran, Virginia Leiro Fernández
3466	**Is EBUS sampling adequate for molecular testing in patients with advanced NSCLC?** Dawar Rizavi (Watford, United Kingdom), Thushara Bandara, Jaymin Morjaria
3467	**An usefulness of combined endobronchial and endoscopic ultrasound-guided needle aspiration in the diagnosis of sarcoidosis: a prospective, multicenter trial** Maciej Gnass (Myślenice, Poland), Anna Filarecka, Jacek Wojtacha, Jerzy Soja, Juliusz Pankowski, Damian Czyżewski, Wojciech Zajęcki, Arkadiusz Joks, Adam Ćmiel, Artur Szlubowski
3468	**Elastography A Double-Edged Knife in Countries with High Prevalence Anthracosis** Arda Kiani (Tehran, Islamic Republic of Iran), Atefeh Abedini, Fatemeh Razavi, Mehrdad Farahani, Marzieh Hashemi, Habib Emami, Forouzan Mohammadi
3469	**Balanced propofol-based analgosedation performed by pulmonologist in interventional procedures: an Italian"real-life" study** Rosalba Maffucci (Napoli (NA), Italy), Uberto Maccari, Carmela Martinez, Lucia Nardelli, Andrea Bianco, Raffaele Scala
3470	**Endobronchial microcoil fiducial markers for stereotactic radiation therapy** Leslie Noirez (Lausanne, Switzerland), Alessio Casutt, Catherine Beigelman-Aubry, Maurizio Bernasconi, Remy Kinj, André-Dante Durham, Christophe Von Garnier, Alban Lovis
3471	**Comparative diagnostic accuracy of thoracic endosonography (EBUS/EUS-b) and integrated PET-CT in mediastinal staging of potentially operable patients with NSCLC.** Serafeim Chrysikos (Athens, Greece), Ioannis Gkiozos, Katerina Dimakou, Eleftherios Zervas, Theodoros Karampitsakos, Maria Anyfanti, Argyrios Tzouvelekis, Nikolaos Koulouris, Ioannis Vasileiadis, Konstantinos Syrigos
3472	**Randomised controlled trial on optimal sampling sequence in radial guide sheath endobronchial ultrasound (R-EBUS) transbronchial lung biopsy** Chinthaka Samaranayake (Brisbane, Australia), Craig Wright, Shiv Erigadoo, Maree Azzopardi, Michael Putt, Michael Bint
3473	**Endobronchial Ultrasound (EBUS) for T4 staging in patients with resectable NSCLC** Jolanda C. Kuijvenhoven (Leeuwarden, Netherlands), Vanina Livi, Artur Szlubowski, Maarten Ninaber, Daniel Korenvaar, Lauran Stoger, Ralph Widya, Jerry Braun, Wim Jan Van Boven, Rocco Trisolini, Jouke Annema
3474	**The impact of needle choice on molecular analysis of ultrasound-guided transbronchial needle aspiration (EBUS-TBNA) in NSCLC** Kaid Darwiche (Essen, Germany), Dirk Theegarten, Hans-Ulrich Schildhaus, Martin Schuler, Marcel Wiesweg, Clemens Aigner, Ruediger Karpf-Wissel
3475	**Multicenter, Prospective Trial: Comparing Yield and Performance of Virtual Bronchoscopic Navigation With and Without Radial-EBUS** Felix J.F. Herth (Heidelberg, Germany), A Vachani, Gerard Criner, Shiyue Li, Daniel Nader, Lisa M Kopas, Momen Wahidi, Adnan Majid, Jiayuan Sun
3476	**DIAGNOSIS OF HISTOPLASMOSIS USING EBUS-TBNA IN PATIENTS WITH SUSPECTED LUNG CANCER: CASE SERIES OF A REFERENCE CENTER IN BRAZIL** Joao Pedro Steinhauser Motta (Rio De Janeiro (RJ), Brazil), Caroliny Samary Silva Lobato, Amir Szklo
3477	**Negative predictive value of EBUS-TBNA in mediastinal staging of lung cancer** Maria Morales Gonzalez (Jerez de la Frontera, Spain), Cayo García Polo , Carolina España Domínguez, Isabel Muñoz Ramírez, María Pérez Morales

Pre-congress content Session 227 00:00 - 23:59

E-poster session: Clinical aspects and new treatment strategies for rare interstitial lung diseases in adults and children

Disease(s) : Interstitial lung diseases Airway diseases

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

Chairs : Clairelyne Dupin (Paris, France), Elisabetta Balestro (Padova (PD), Italy)

3478	**DIAGNOSTICS, THERAPY, COURSE AND RESULTS IN PATIENTS WITH CHRONIC EXTRINSIC ALLERGIC ALVEOLITIS.** Francesco Bini (Pavia (PV), Italy), Daniele Colombo, Maria Chiara Papetti, Bruno Bodini, Angelo De Lauretis, Adriano Vaghi
3479	**The effects of oral corticosteroid treatment (OCS) on sequential lung function tests in a cohort of patients with acute hypersensitivity pneumonitis (AHP)** Abhinav Tiwari (Southampton, United Kingdom), Vanessa Titmuss, Suresh Babu, Anna Donaldson
3480	**Fibrosing cases of chronic eosinophilic pneumonia** Naoko Takeuchi (Sakai, Japan), Toru Arai, Kazunobu Tachibana, Takayuki Takimoto, Yoshinobu Matsuda, Yu Kurahara, Kanako Katayama, Yukihiro Nakamura, Reiko Sugawara, Chikatoshi Sugimoto, Seiji Hayashi, Masanori Akira, Takahiko Kasai, Yoshikazu Inoue
3481	**Rheumatoid arthritis-related interstitial lung disease (RA-ILD): Clinical, functional features, and variables associated poor initial prognosis in a chilean cohort** Felipe Reyes (Peñalolén, Chile), Silvana Saavedra, Karen Vergara, Matias Florenzano , Veronica Wolff
3482	**Characterization of pleuroparenchymal fibroleastosis in two respiratory reference centers in santiago, chile.** Gina Miranda (santiago, Chile), Laura Mendoza, Nadia Herrera, Vivianne Agar, Claudio Silva, Ivan Caviedes
3483	**Pleural effusion in patients with IgG4-related disease: Investigated features and compared to tuberculous pleurisy** Masafumi Shimoda (Tokyo, Japan), Yoshiaki Tanaka, Kozo Morimoto, Kiyomi Shimoda, Tamiko Takemura, Mikio Saotome, Kozo Yoshimori, Ken Ohta
3484	**Clinical evolution and diagnosis in neuroendocrine cell hyperplasia of the infancy (NEHI): a 12-year follow-up of ten children** Diannet Quintero García (Valencia, Spain), Diannet Quintero García, Sergio Iniesta González, Andrés Piolatti, Silvia Castillo Corullón
3485	**Trachea stenosis in Keutel syndrome** Pilar Caro Aguilera (Malaga, Spain), Yazmina Martínez García, Inmaculada Gómez Garrido, Javier Pérez Frías, Estela Pérez Ruiz
3486	**Should there be a management plan of children with post-infectious bronchiolitis obliterans and bronchiectasis?** Carolina Arez Constant (Lisboa, Portugal), Luísa Pereira, Ana Saianda, Rosário Ferreira, Ana Margarida Silva, Andreia Descalço, Teresa Bandeira
3487	**Case report: Hermansky-Pudlak syndrome (HPS) and single lung transplantation (LUTX)** Bettina Weingard (Homburg (Saar), Germany), Franziska C. Trudzinski, Frederik Seiler, Philipp M. Lepper, Martin Hetzel, Hans-Joachim Schäfers, Robert Bals, Heinrike Wilkens, Frank Langer
3488	**Extracorporeal photopheresis: an effective treatment for pulmonary graft versus host disease** Vicky Taylor (London, United Kingdom), Matthias Klammer, Raminder Aul
3489	**Chronic Pulmonary GVHD in adults undergoing hematopoietic stem cell transplant in a tertiary care hospital in South India** Vimi Varghese (Vellore (Tamil Nadu), India), Barney Isaac T. J, D.J Christophe, Biju George, Sharon Anbumalar Lionel
3490	**Pulmonary alveolar microlithiasis: genetic disorder and concomitant altered calcium metabolism** Yuliana Pascual-González (L'Hospitalet de Llobregat, Spain), Ester Cuevas, Patricio Luburich, Vanesa Vicens-Zygmunt
3491	**Effect of Disodium Etidronate in Patient With Pulmonary Alveolar Microlithiasis** Mina Gharibzadeh Hizal (Ankara, Turkey), Sanem Eryılmaz Polat, Gokcen Dilsa Tugcu, Altan Gunes, Guzin Cinel
3492	**Dendriform pulmonary ossification as a rare and unusual complication associated with interstitial lung disease** Michael Kuchuk (Kiryat-Ono, Israel)
3493	**Comparative transcriptomic profiling of CD4+ T cells in two models of lung fibrosis in mice** Marie Moog (Hannover, Germany), Christopher A. Hinze, Regina Maus , David S. Deluca, Tobias Welte , Martin Kolb, Ulrich A. Maus

3494 **Role of regulatory T cells in S. pneumoniae-induced exacerbation of lung fibrosis in mice**
Tina Bormann (Hannover, Germany), Steffi Moyé, Regina Maus, Tobias Welte, Jack Gauldie, Martin Kolb, Ulrich A. Maus

3495 **Effect of rifampin, a potent organic-anion-transporting polypeptide inhibitor (OATPi), on the PK of BMS-986278, a lysophosphatidic acid receptor (LPA1) antagonist**
Giridhar Tirucherai (Princeton, United States of America), Qian Ruan, Dara Hawthorne, Dale Yu, Ratna Revankar, Edgar D Charles

Pre-congress content Session 228 00:00 - 23:59

E-poster session: Worldwide respiratory disease across the full spectrum

Disease(s) : Airway diseases Sleep and breathing disorders

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

Chairs : Myrofora Goutaki (Bern, Switzerland), Rosalie Mensink-Bout (Rotterdam, Netherlands)

3496 **Healthy children's sputum – a marker of exposure to air pollution at school?**
Abigail Whitehouse (London, United Kingdom), Jonathan Grigg

3497 **Parent-child agreement in reporting of current wheeze: can we trust questionnaires?**
Rebeca Mozun (Bern, Switzerland), Cristina Ardura-Garcia, Eva S. L. Pedersen, Myrofora Goutaki, Jakob Usemann, Florian Singer, Philipp Latzin, Alexander Moeller, Claudia E. Kuehni

3498 **Operational definitions of paediatric asthma used in epidemiological studies: A systematic review**
Mohammad Shahidul Islam (Edinburgh, United Kingdom), Samin Huq, Salahuddin Ahmed, Sudipto Roy, Steve Cunningham, Samir K Saha, Harish Nair

3499 **Meta-analysis of the prevalence of asthma and asthma symptoms in Russia**
Bairma Batozhargalova (Moscow, Russian Federation), Yuriy Mizernitskiy

3500 **Asthma treatment for children in tertiary care in Switzerland**
Cristina Ardura-Garcia (Bern, Switzerland), Eva Sophie Lunde Pedersen, Carmen De Jong, Jürg Barben, Anja Jochmann, Andreas Jung, Dominik Mueller-Suter, Nicolas Regamey, Florian Singer, Claudia Elisabeth Kuehni

3501 **Epidemiology of severe respiratory syncytial virus infection in Ethiopian infants : A prospective study**
Abate Yeshidinber Weldetsadik (Addis Ababa, Ethiopia), Frank Riedel

3502 **Mortality in preterm infants with bronchopulmonary dysplasia associated pulmonary hypertension: a systematic literature review**
Laura Downham (Allschwil, Switzerland), Sofija Cerovic, Catherine Lesage, Sandrine Leroy

3503 **Primary ciliary dyskinesia and non-CF bronchiectasis in the 100,000 Genomes Project**
Jane Lucas (Southampton (Hampshire), United Kingdom), Gabrielle Wheway, Jelmer Legebeke, Siobhan B Carr, Mary Carroll, Philip Chetcuti, Robert Hirst, John Holloway, David Hunt, Priti Kenia, Michael Loebinger, Jenny Lord, Deborah Morris-Rosendal, Eduardo Moya, Manjith Narayanan, Christopher O'Callaghan, Daniel Peckham, Evie Robson, Amelia Shoemark, Simon Thomas, Woolf Walker, Diana Baralle, Hannah M Mitchison, Claire Hogg, Jane Lucas

3504 **Prescriptions for treatment in patients with PCD: does clinical routine match recommendations?**
Eugénie Noémie Rachel Collaud (Grolley, Switzerland), Agatha Wisse, Eva Sophie Lunde Pedersen , Barben Juerg, Christian Clarenbach, Andreas Jung, Philipp Latzin, Romain Lazor , Lurà Marco, Isabelle Rochat , Myrofora Goutaki , Claudia Kuehni

3505 **Management of congenital lung malformations in Scottish paediatric centres**
Louise Thomson (Glasgow (Glasgow), United Kingdom), Kenneth Macleod

3506 **Prevalence and risk factors of chronic cough in Swiss schoolchildren**
Maria Christina Mallet (Basel, Switzerland), Rebeca Mozun, Cristina Ardura-Garcia, Philipp Latzin, Alexander Moeller, Claudia E Kuehni

3507 **Increased infant food diversity and the risk of asthma and allergic rhinitis up to 12 years of age**
Emma Goksör (Molnlycke, Sweden), Bright Nwaru, Göran Wennergren

3508 **Urgency consultations for respiratory diseases in children 5-14 years old and their association with environmental factors in the town of Calama, Chile**
Orietta Nicolis (, Chile), Juan Carrillo, Francisco Muñoz, Ivan Silva, German Ibacache

3509 **Epidemiology of Robin sequence in the United Kingdom and Ireland: findings of a national surveillance study**
Marie Wright (Vancouver (BC), Canada), Felicity Mehendale, Patricia Jackson, Edile Murdoch, Sheila Javadpour, Don Urquhart

3510 **A systematic review of the impact of food insecurity on the risk of developing asthma, or having poor asthma control, in childhood**
Samra Mahmood (Bradford, United Kingdom), Stephanie Cheetham , Lynsey Brown , Daniel Hawcutt , Philip Lawrence, Sarah Mayell, Omendra Narayan, Justus Simba , Matthew Thomas, Ian Sinha

3511 **The prevalence of tracheobronchomalacia in children with Primary Ciliary Dyskinesia**
Synne Sperstad Kennelly (, Norway), Ketil Heimdal, Finn P. Reinholt, Suzanne Crowley

Pre-congress content Session 229 00:00 - 23:59

E-poster session: From the bronchoscope to the clinic: paediatric bronchology at a glance

Disease(s) : Airway diseases Interstitial lung diseases

Method(s) : General respiratory patient care Imaging Epidemiology Surgery Endoscopy and interventional pulmonology Public health

Chairs : Dirk Schramm (Düsseldorf, Germany), Elias Seidl (München, Germany)

3512 **Foreign Body Removal by Flexible Bronchoscopy Using Retrieval Basket in Children**
Elpis Hatziagorou (Thessaloniki, Greece), Fotios Kirvassilis, Andreas Ntaflos, Athanasios Skouras, George Kontzoglou, John Tsanakas

3513 **Lymphoid interstitial pneumonia should be suspected in children with autoimmune disease and immune deficiency**
Nagehan Emiralioğlu (Ankara, Turkey), Busra Köseoğlu, Dilber Ademhan, Beste Özsezen, Birce Sunman, Guzin Cinel, Nursun Özcan, Berna Oğuz, Diclehan Orhan, Ebru Yalçın, Deniz Doğru, Uğur Özçelik, Nural Kiper

3514 **Clinical characteristics and radiological findings of children with hypersensitivity pneumonitis?**
Nagehan Emiralioğlu (Ankara, Turkey), Beste Ozsezen, Nursun Ozcan, Dilber Ademhan, Birce Sunman, Berna Oguz, Diclehan Orhan, Guzin Cinel, Ebru Yalçın, Deniz Doğru, Uğur Özçelik, Nural Kiper

3515 **Severity of Bronchiectasis and Lung Functions Related with the Genotype of Primary Ciliary Dyskinesia Patients**
Nagehan Emiralioğlu (Ankara, Turkey), Berna Oğuz, Beste Özsezen, Dilber Ademhan, Birce Sunman, Ebru Yalçın, Deniz Doğru, Nural Kiper, Uğur Özçelik

3516 **Bronchial wall biopsy for ciliary samples in children with primary ciliary dyskinesia**
Adnan Zafar (Rawalpindi, Pakistan), Muhammad Amin Ur Rahman, Mohammad Alzaid, Wadha Alotaibi

3517 **Bronchiectasis in children: a risky evolution of recurrent respiratory infection**
Michele Ghezzi (Bergamo, Italy), Giulia Maria Luisa Cammi, Laura Paradiso, Emma Longoni, Marco Morelli , Andrea Farolfi, Enza Carmina D'Auria, Gianvincenzo Zuccotti

3518 **Comparison of patient care pathway between primary ciliary dyskinesia and cystic fibrosis**
Ralph Epaud (Creteil, France), Noemie Salaun-Penquer, Camille Jung, Celine Delestrain, Natascha Remus, Benoit Douvry, Salome Epaud, Matthieu Ortala, Bernard Maitre

3519 **Pulmonary Hypertension in Childhood**
Ayse Tana Aslan (Ankara, Turkey), Tuğba Şişmanlar Eyuboglu, Tugba Ramaslı Gursoy, Zeynep Reyhan Onay, Pelin Asfuroglu, Serdar Kula, Fatma Incedere, Semiha Tokgoz, Deniz Oguz, Sedef Tunaoğlu

3520 **An unusual cause of congenital stridor**
Anna Wiemers (Düsseldorf, Germany), Dirk Schramm, Peter Amrhein

3521 **Follow-up of children after resection for congenital thoracic malformations**
Michele Ghezzi (Bergamo, Italy), Emma Longoni, Giulia Maria Luisa Cammi, Laura Paradiso, Marco Morelli, Andrea Farolfi, Enza Carmina D'Auria, Gianvincenzo Zuccotti

3522 **Review of a children's complex airway clinic**
Teresa MacCarrick (Chester, United Kingdom), Ravi Sharma, Andrew Selby

3523 **A case of Stevens-Johnson Syndrome associated with bronchiolitis obliterans**
Ayse Tana Aslan (Ankara, Turkey), Tugba Ramasli Gursoy, Hacer Ilbilge Ertoy Karagol, Zeynep Reyhan Onay, Rana Beyoglu, Gulcin Durukan Gunaydın, Oznur Boyunaga, Tugba Sismanlar Eyuboglu

3524 **Tracheomalacia: our ten years experience in Milan**
Michele Ghezzi (Bergamo, Italy), Laura Paradiso, Giulia Maria Luisa Cammi, Emma Longoni, Marco Morelli, Andrea Farolfi, Enza Carmina D'Auria, Gianvincenzo Zuccotti

3525 **Longitudinal bronchoscopy findings in children with mucopolysaccharidosis II (MPS II)**
Marianne Muhlebach (Chapel Hill, United States of America), Joseph Muenzer

3526	**A Novel Mutation in Primary Ciliary Dyskinesia: c. 2511dupC p.(Thr838Hisfs*15)** Ayse Tana Aslan (Ankara, Turkey), Tuğba Şişmanlar Eyuboglu, Fatma Kurt Colak, Tugba Ramaslı Gursoy
3527	**Progressive lung disease caused by ABCA3 mutation** Ayse Tana Aslan (Ankara, Turkey), Tuğba Şişmanlar Eyuboglu, Tugba Ramaslı Gursoy, Zeynep Reyhan Onay, Sevgi Pekcan, Matthias Griese
3528	**Clinical features of surfactant metabolism disorders in children** Ayse Tana Aslan (Ankara, Turkey), Tugba Ramasli Gursoy, Zeynep Reyhan Onay, Pelin Asfuroglu, Tugba Sismanlar Eyüboglu
3529	**Clinical features and factors affecting late diagnose of Primary Ciliary Dyskinesia in childhood** Ayse Tana Aslan (Ankara, Turkey), Pelin Asfuroglu, Tugba Ramasli Gursoy, Zeynep Reyhan Onay, Tugba Sismanlar Eyuboglu
3530	**Pleural tuberculosis in a Tunisian serie:On what diagnostic tools we rely?** BAILI HASSENE (sousse, Tunisia), Hamdi Besma, Jrad Sonia, Khalfallah Ikbel, Louhaichi Sabrine, Allouch Asma, Radhouani Alaa, Ammar Jamel, Hamzaoui Agnès

Pre-congress content Session 230 00:00 - 23:59

E-poster session: Diagnostic and prognostic markers for disease-associated interstitial lung disease and hypersensitivity pneumonitis

Disease(s) : Interstitial lung diseases Respiratory critical care

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

Chairs : Veronica Alfieri (Parma (PR), Italy), George Margaritopoulos (London, United Kingdom)

3531	**Immune alveolitis profile in bronchoalveolar lavage of infiltrative lung diseases: not just counting matters.** Antoine Moui (Nantes, France), Stéphanie Dirou, Christine Sagan, Renan Liberge, Claire Defrance, Pierre-Paul Arrigoni, Olivier Morla, Christine Kandel-Aznar, Adrien Tissot, Emmanuel Eschapasse, Thomas Goronflot, Antoine Magnan, François-Xavier Blanc
3532	**Connective tissue disease-associated interstitial lung diseases and interstitial pneumonia with autoimmune features: different entities?** Martín Nikolai Sánchez Mitacc (Lima, Peru), Hernando Torres-Zevallos, Nuria Albacar, Joel Francesqui, Sandra Cuerpo, Carmen Lucena, Marc Boada, Gerard Espinosa, Raúl Castellanos, Odette Viñas, Estibaliz Ruiz, Albert Pérez, Carlos Agustí, Sergio Prieto, José Ramírez, Marcelo Sánchez, Fernanda Hernández-Gonzáles, Jacobo Sellares
3533	**Idiopathic pulmonary fibrosis and gastroesophageal reflux disease: A population-based case-control study** Misbah Baqir (Rochester, United States of America), Ann Vu, Teng Moua, Amit Vasireddy, Alanna Chamberlain, Ryan Frank, Jay Ryu
3534	**The relationship between GAP stage and quality of life in IPF and systemic sclerosis-related ILD is diagnosis-dependent** Michael Thomas Durheim (Eiksmarka, Norway), Anna-Maria Hoffman-Vold, Tomas Mikal Eagan, Arnt-Ove Hovden, May Brit Lund, Gisle Bjerke, Trygve Müller Jonassen, Odd Erik Johansen, Tone Sjåheim
3535	**Factors associated with right ventricular dysfunction among patients with chronic hypersensitivity pneumonitis** Elena Leonova (Moscow, Russian Federation), Evgeny Shmelev, Elena Shergina
3536	**Evaluation of cardiac function by echocardiography in patients with interstitial lung disease, divided by ILD group** Manuel Abraham Gómez Martínez (Mexico City, Mexico), Valeria Ariadna Martínez Vázquez, Arturo Orea Tejeda, Dulce González Islas, Martha Elena Quintero Martínez, Rocío Sánchez Santillan, Yael Ramiro Gastelum Ayala, Oscar Ubaldo Martínez Reyna, Ilse Pérez García, Nathalie Martínez Luna, Leslie Verdeja Vendrell, Ivette Buendía Roldan , Mayra Mejía Ávila , Robinson Robles Hernández , Alejandra Velázquez Montes
3537	**Prognostic significance of pathologically proven chronic fibrosing interstitial lung diseases with a progressive phenotype (PF-ILDs): single center retrospective cohort** Yukihiro Nakamura (nagasone city, Japan), Takayuki Takimoto, Toru Arai, Naoko Takeuchi, Reiko Sugawara, Kanako Katayama, Shojiro Minomo, Chikatoshi Sugimoto, Kazunobu Tachibana, Masanori Akira, Takahiko Kasai, Seiji Hayashi, Yoshikazu Inoue
3538	**Criteria for PF-ILD in a cohort of patients with chronic hypersensitivity pneumonitis** Eduarda Salomé Soares Seixas (Lourosa, Portugal), Paula Serra, Margarida Ferreira, Renata Aguiar, Pedro Gonçalo Ferreira
3539	**Prognostic characteristics in chronic hypersensitivity pneumonitis.** Daniel Neville (Portsmouth (Hampshire), United Kingdom), Thomas Jones, Abhinav Tiwari, Vanessa Titmuss, Anna Donaldson, K Suresh Babu

3540 **Longitudinal functional evaluation of interstitial lung disease in systemic sclerosis**
Erik Palmer (Eger, Hungary), Veronika Müller, Anikó Bohács, Krisztina Vincze, Noémi Eszes

3541 **Progressive phenotype in primary Sjögren's syndrome-associated interstitial lung diseases: Prognostic significance**
Reiko Sugawara (Osaka, Japan), Toru Arai, Chikatoshi Sugimoto, Kazunobu Tachibana, Masanori Akira, Takahiro Kasai, Seiji Hayashi, Yoshikazu Inoue

3542 **Six-Minute Walk Test in Interstitial Lung Disease : various outcomes for various causes**
Khadija Ayed (Nabeul, Tunisia), Asma Chaker, Salma Mokaddem, Soumaya Khaldi, Saloua Benkhamsa Jameleddine

3543 **Short-term dynamic lung function and predictors of lung function decline in systemic sclerosis-related interstitial lung disease**
Punchalee Kaenmuang (Songkhla, Thailand), Asma Navasakulpong

3544 **Comparative analysis of collagen quantification in the bleomycin mouse model of lung fibrosis**
Maria Gloria Pittelli (PARMA (PR), Italy), Paola Caruso, Maria Laura Faietti, Vanessa Pitozzi, Silvia Pontis, Martina Bonatti, Barbara Pioselli, Caterina Frati, Denise Madeddu, Federico Quaini, Costanza Lagrasta, Maurizio Civelli, Silvia Catinella, Gino Villetti, Marcello Trevisani

3545 **Exhaled Volatile Organic Compounds are Able to Diagnose Systemic Sclerosis**
Julien Guiot (Liège, Belgium), Delphine Zanella, Pierre-Hugues Stefanuto, Laurie Giltay, Monique Henket, Francoise Guissard, Catherine Moermans, Florence Schleich, Renaud Louis, Jean-Francois Focant

3546 **The Warrick score for the evaluation of chest CT scan manifestations of rheumatoid arthritis**
Houda Snène (Tunis, Tunisia), Monia Attia, Hana Mrassi, Hana Blibech, Nadia Mehiri, Ahmed Laater, Nozha Ben Salah, Bechir Louzir

3547 **Idiopathic pulmonary fibrosis and systemic sclerosis-interstitial lung disease: features at admission to a tertiary pulmonology unit.**
Serena Vettori (San Sebastiano al Vesuvio, Italy), Maurizia Lanza, Anna Annunziata, Rosa Cauteruccio, Antonietta Coppola, Valentina Di Spirito, Francesco De Simone, Sara Gioia, Pasquale Imitazione, Francesco Stefanelli, Giuseppe Fiorentino

3548 **Corticosteroids affect skeletal muscle strength in mild level of breathlessness of patients with interstitial lung disease**
Masatoshi Hanada (nagasaki, Japan), Yuji Ishimatsu, Noriho Sakamoto, Hiroki Nagura, Masato Oikawa, Yosuke Morimoto, Hiroshi Mukae, Ryo Kozu

Pre-congress content Session 231 00:00 - 23:59

E-poster session: Pathophysiology of pulmonary hypertension

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

Method(s) : Physiology Cell and molecular biology Epidemiology

Chairs : Emilia Swietlik (Cambridge, United Kingdom), Martin Wilkins (London, United Kingdom)

3549 **Exhaled breath olfactory signature of pulmonary arterial hypertension (PAH) and chronic thromboembolic pulmonary hypertension (CTEPH)**
Sylvia Cohen-Kaminsky (Paris, France), Shay Sherbo, Zhen Wang, Etienne Marie Jutant, David Montani, Barbara Girerd, Edmund Lau, Laurent Becquemont, Yoav Y. Broza, Hossam Haick, Marc Humbert

3550 **Pharmacologic characterization of GB002, a novel inhaled PDGFR kinase inhibitor in development for pulmonary arterial hypertension (PAH)**
Anna Galkin (San Diego, United States of America), Ravi Sitapara, Bryan Clemons, Eduardo Garcia, Michael Kennedy, Laura Carter, Debbie Slee, Luisa Salter-Cid, Larry Zisman

3551 **GCN2 regulates BMP signaling: consequence for PVOD pathobiology and therapeutic management**
Grégoire Manaud (Paris, France), Mélanie Lambert, Bahgat Soilih, Barbara Girerd, Florent Soubrier, Juliette Bignard, Olivier Claude, Florence Lecerf, Monica Florio, Banghua Sun, Sophie Nadaud, Stjin Verleden, Séverine Rémy, Ignacio Anegon, Olaf Mercier, Elie Fadel, Gérald Simmoneau, Marc Humbert, David Montani, Fabrice Antigny, Frédéric Perros

3552 **Smoking history and pulmonary arterial hypertension (PAH) onset and clinical outcomes (REVEAL)**
Adaani Frost (Houston, United States of America), Carol Zhao, Harrison Farber, Raymond Benza, Mona Selej, Greg Elliott

3553 **Gut microbiota and pulmonary hypertension:a Mendelian randomization study**
Yilin Chen (Guangzhou, China), Jing Liao, Tingting Zhang, Chenting Zhang, Kai Yang, Jian Wang

3554 **Multi-Omics Analysis of the PDGF Response in Pulmonary Vascular Smooth Muscle Cells from Patients with Pulmonary Arterial Hypertension: Implication of the NMDAR**
FIRMIN AKOUMIA (Paris, France)

3555 **SERCA2a gene therapy ameliorates pulmonary hypertension in a pig model: comparison of different delivery methods and therapeutic effect**
Olympia Bikou (New York, United States of America), Serena Tharakan, Kelly Yamada, Taro Kariya, Jaime Aguero, Kenneth Fish, Kiyotake Ishikawa

3556 **HDAC inhibitor quisinostat reduces pulmonary vascular remodeling in experimentally induced pulmonary arterial hypertension**
Xiao-Qing Sun (Amsterdam, Netherlands), Eva L Peters, Ingrid Schalij, Frances S De Man, Marie-José Goumans, Kondababu Kurakula, Harm-Jan Bogaard

3557 **Regulation of Type I cytokine receptors as a target for pulmonary arterial hypertension treatment?**
Etienne-Marie Jutant (Paris, France), Ly Tu, Benjamin Le Vely, Raphael Thuillet, Marc Humbert, Christophe Guignabert, Alice Huertas

3558 **Loss of Bmp9 does not lead to spontaneous pulmonary hypertension, but attenuates vascular remodeling in experimental models**
Nihel BERREBEH (Le Plessis-Robinsonillacoublay, France), Raphaël Thuillet, Ly Tu, Benjamin Le Vely, Amélie Cumont, Ignacio Anegon, Alice Huertas, Marc Humbert, Sabine Bailly, Christophe Guignabert

3559 **Role of c-Abelson in the loss of genome integrity in endothelial cells in pulmonary arterial hypertension**
Benjamin Le Vely (Le Plessis-Robinson, France), Nihel Berrebeh, Carole Phan, Raphael Thuillet, Marc Humbert, Alice Huertas, Christophe Guignabert, Ly Tu

3560 **Effect of zamicastat, a dopamine beta-hydroxylase inhibitor, on the monocrotaline rat model of pulmonary arterial hypertension**
Eduardo Moura (S. Romão e S. Mamede, Portugal), Cristina Costa, Bruno Igreja, Nuno Pires, Vânia Batalha, Maria-Joao Bonifacio, Patricio Soares-Da-Silva

3561 **SUR1/Kir6.2 potassium channel a new actor involved in pulmonary arterial hypertension**
Hélène Le Ribeuz (Paris, France), Mélanie Lambert, Angèle Boet, David Montani, Wendy K Chung, Marc Humbert, Fabrice Antigny

3562 **The modulatory effects of Nrf2 activators in a pulmonary arterial hypertension model**
Jian Li (, China), James Baker, Clare Murray, Nicky Cooper, Cathy Lucas, Dave Singh, Simon Lea

3563 **Hemodynamic and histological progression in the Sugen-Hypoxia Rat Model**
Michel Corboz (Bridgewater, United States of America), Sandra Gagnon , Annie Bouchard , C Brodeur , Charles E Laurent, Dany Salvail, David Cipolla, Walter R Perkins, Richard W Chapman

3564 **Effects of Long Term Exogenous Apelin Application in Experimental Pulmonary Hypertension Model Created with Monocrotaline**
ONDER OZTURK (Isparta, Turkey), Rahime Aslankoc, Mustafa Saygin , Özlem Özmen, Y.Sînan Sirin

3565 **NGF induces pulmonary arterial hyperreactivity through connexin 43 increased expression**
guillaume Cardouat (Talence, France), Matthieu Douard, Lukas Roubenne, Zuzana Kmecová, Paul Robillard, Christophe Guignabert, Ly Tu, Frederic Delcambre, Roger Marthan, Bernard Muller, Christelle Guibert, Veronique Freund-Michel

Pre-congress content Session 232 00:00 - 23:59

E-poster session: Epidemiology, diagnosis and management of pulmonary embolism

Disease(s) : Pulmonary vascular diseases Respiratory critical care

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

Chairs : Nousheen Akhter (Karachi, Pakistan)

3566 **Correlation between the cross-sectional area of the lung area and pulmonary haemodynamics in chronic thromboembolic pulmonary hypertension**
Ayaka Kuriyama (Ichihara City, Japan), Hajime Kasai, Toshihiko Sugiura, Hiroshi Tajima, Yukiko Takahashi, Ayako Shigeta, Seiichiro Sakao, Koichiro Tatsumi

3567 **Agreement between transthoracic echocardiography and computed tomography pulmonary angiography for detection of right ventricular failure**
Serhat Erol (Ankara, Turkey), Sumeyye Ayoz, Aslihan Gurun Kaya, Fatma Ciftci, Aydin Ciledag, Zeynep Pinar Onen, Akin Kaya, Ozlem Ozdemir Kumbasar, Aysegul Gursoy, Melahat Kul

3568 **A multicentre observational study of the prevalence, management and outcomes of subsegmental pulmonary embolism**
Christopher C. Huntley (Kingswinford (West Midlands), United Kingdom), Ketan Patel, Aishah Z Mughal, Vishanna Balbirsingh, Sunera Khan, Alice M Turner, Daniel S Lasserson, Michael Newnham

3569	**UTILITY OF THE SIMPLIFIED PESI SCALE IN ELDERLY PATIENTS WITH ACUTE SYMPTOMATIC PULMONARY THROMBOEMBOLISM** Carmen Rodriguez Calle (Madrid, Spain), Diurbis Velasco Alvarez, Beatriz Pintado Cort, Andrea Perez Figuera, Edwin Mercedes Noboa, Francisco Xavier Leon Roman, David Jiménez Castro
3570	**Prognostic significance of computed tomography-assessed right ventricular enlargement in low-risk patientes with pulmonary embolism: systematic reviw and meta-analysis.** Beatriz Pintado Cort (Madrid, Spain), Andrea Pérez Figuera, Carmen Rodríguez Calle, Diurbis Velasco Alvarez, Diego Durán Barata , Ana Ana Retegui García, David Jiménez Castro
3571	**Venous thromboembolism in solid-organ transplant recipients: findings from the RIETE registry.** Alberto García Ortega (Valencia, Spain), Raquel López Reyes, Gabriel Anguera De Francisco, Grace Oscullo Yépez, Remedios Otero Candelera, Manuel López-Meseguer, Andrés Quezada, Luis Jara-Palomares, Manuel Monreal
3572	**In-vitro modeling of micro-emboli and their effect on microvascular circulation and endothelium mechanics** Lucilla Piccari (Barcelona, Spain), Andrea Malandrino, Diego A Rodríguez, James Sharpe
3573	**Efficacy of age adjusted d-dimer in excluding pulmonary embolism in patients with cancer.** Ahsan Zahid (Stoke-on-Trent, United Kingdom), Raisa Khan, Arhum Baloch, Sana Shahzad, Muhammad Badar Ganaie
3574	**Does platelet index examination provide clinical benefit in coexistence of pulmonary thromboembolism and cancer?** Nesrin Öcal (Ankara, Turkey), Ramazan Ocal
3575	**Dismantling the Obesity Paradox in Acute Pulmonary Embolism** Kam S Ho (New York, United States of America), Shabnam Nasserifar, Paaras Kohli, Joseph Poon, Yasmin Herrera, Archana Pattupara, Andre Sotelo, Raymonde Jean
3576	**The profile of lung scintigraphy in systemic lupus erythematosus with chronic pulmonary embolism:a cross-section** Flávia Marin (Pato Branco, Brazil), Sonia Moriguchi, Katia Koga, Robson Prudente, Karina Malagutte, Silmeia Bazan, Luis Cuadrado, Hugo Yoo
3577	**Could pulmonary thromboembolism be associated with air pollution ?** Merve Atilgan Ala (Izmir, Turkey), Ali Calisir, Onay Furtun, Ali Karadeniz, Baris Ozkilic, Bahar Samli, Murat Yilmaz, Asli Suner Karakulah, Abdullah Sayiner
3578	**Hypercoagulability in patients with stable COPD assessed by coagulation factor levels** Chris Kyriakopoulos (Ioannina, Greece), Christos Chronis, Athena Tatsioni, Evangelia Papapetrou, Athena Gogali, Katerina Vaggeli, Christos Katsanos, Christina Tsaousi, Charikleia Tsalepi, Alekos Charisis, Maria Kosta, Aggeliki Spanou, Konstantinos Kostikas, Athanasios Konstantinidis
3579	**Venous thromboembolism prophylaxis in hospitals in China: a nationwide survey** Kaiyuan Zhen (Beijing, China), Fen Dong, Qian Gao, Cunbo Jia, Zhenguo Zhai
3580	**Identification of patients with intermediate-high-risk PE with poor evolution** Marta Acosta Davila (Valencia, Spain), Sergio Calvache Castillo, Cristina De Juana Izquierdo, Alberto Herrejón Silvestre, Ildefonso Furest Carrasco
3581	**Hokusai post-PE study: a follow-up study on long-term outcomes of pulmonary embolism in patients treated with edoxaban vs warfarin** Wim Boersma (Alkmaar, Netherlands), Ingrid Bistervels, Roisin Bavalia, Karina Meijer, Peter Verhamme, Hugo Ten Cate, Jan Beyer-Westendorf, Sebastian Schellong, Barbara Hutten, Michael Kovacs, Marco Cattaneo, Waleed Ghanima, Amanda Hugman, Michiel Coppens, Marije Ten Wolde, Dominique Stephan, Nicolas Falvo, Dominique Brisot, Isabelle Quere, Saskia Middeldorp
3582	**Intermediate High Risk (IHR) PE: The value of a PE Lysis Team (PELT)** Charlotte Carter (London, United Kingdom), Thomas Mason, Boris Lams, Bhashkar Mukherjee, Narayan Karunanithy, Beverley Hunt, Karen Breen, Alex West
3583	**TEMPORAL RESOLUTION OF RIGHT VENTRICLE DYSFUNCTION IN PATIENTS WITH ACUTE SYMPTOMATIC PULMONARY EMBOLISM** Andrea Carolina Perez Figuera (Madrid, Spain), Beatriz Pintado, Edwin Mercedes, Francisco León, Carmen Rodríguez, Diurbis Velasco, Ana Retegui, Diego Durán, David Jiménez

Pre-congress content — Session 233 — 00:00 - 23:59

E-poster session: COVID-19 clinical studies

Disease(s) : Respiratory critical care

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

Chairs : Lieuwe D.J. Bos (Amsterdam, Netherlands), Gregor S. Zimmermann (München, Germany)

3584	**Late Breaking Abstract - Thoracic Cancers International COVID-19 Collaboration (TERAVOLT): Impact of type of cancer therapy and COVID therapy on survival.** Jan van Meerbeeck (Edegem (Antwerp), Belgium), Anne Marie Dingemans, Leora Horn, Valter Torri, Jennifer Whisenant, Heather Wakelee, Solange Peters, Marina Garassino, Jacques Cadranel, Joanna Chorostowska
3585	**Late Breaking Abstract - Demographic characteristics of patients with COVID-19 admitted to a North East London NHS Trust** Kiran Desai (Chelmsford, United Kingdom), Daryl Cheng, Claire Calderwood, Anastasia Otamas, Natasha O'Sullivan, Adam Ainley
3586	**Late Breaking Abstract - Corticosteroids reduce mortality and prevent ICU admission in Covid-19 pneumonia – results from a rapid clinical review of 191 patients** Joanne Heaton (Warrington (Cheshire), United Kingdom), Puneet Malhotra, Paul Stockton, Laurie Rossiter
3587	**Late Breaking Abstract - CNN-RNN network to classify COVID, Influenza and non-infectious cases on CT imaging** Akshayaa Vaidyantahan (Liege, Belgium), Julien Guiot, Fadila Zerka, Primakov Sergey, L Deprez, D Danthine, G Canivet, P Lambin, S Walsh, P Meunier, Wim Vos, R.T.H Leijenaar, P Lovinfosse
3588	**Late Breaking Abstract - Knowledge, anxiety and use of hydroxychloroquine prophylaxis among healthcare students and professionals regarding COVID-19 pandemic in India: An observational cross-sectional study** Avneet Garg (Mansa (Punjab), India), Vinita Jindal , Tanvir Sidhu , Avtar Singh Bansal , Prabhjot Kaur, Gurmeet Kaur, Hem Chandra Sati
3589	**Late Breaking Abstract - Clinical variation in presenting characteristics of COVID-19 at St George's Hospital, London** Jessica Gates (Tunbridge Wells, United Kingdom), Dagan Lonsdale, Ashwini Maudhoo, Ashwin Sundaram, Joseph Salem, Victoria Taylor, Emma Lombard, Hannah Gardiner, Natasha Benons, Anne Dunleavy, Adrian Draper, Yee-Ean Ong
3590	**Late Breaking Abstract - Co-infections, an unexplored branch in the COVID-19 pandemic.** David Noivo (Peniche, Portugal), Ana Alfaiate, Vera Clérigo, Lígia Fernandes, Margarida Castanho, Susana Sousa, Vera Durão, Fernando Durão, Paula Duarte
3591	**Late Breaking Abstract - Continuous positive airway pressure (CPAP) as an intervention for acute hypoxia in not -for-escalation (NFE) COVID-19 pneumonia patients: a single-centre observational study with retrospective cohort analysis** Jake Cowen (Liverpool, United Kingdom), Thomas Humphries, Rebecca Talbutt, Briony Dean, Laura White, Alexander Jackson, Paul Plant, Nick Duffy
3592	**Late Breaking Abstract - Impact of an improvised system on preserving oxygen supplies in patients with COVID-19.** William Poncin (Bruxelles, Belgium), Lia Baudet, Gregory Reychler, Frederic Duprez, Giuseppe Liistro, Leila Belkhir, Lucie Pothen, Halil Yildiz, Jean-Cyr Yombi, Julien De Greef
3593	**Late Breaking Abstract - Atypical clinical and radiological presentation of SARS-CoV-2 infection in the elderly.** Antonella Arcadu (Forlì (FC), Italy), Silvia Puglisi, Alessandra Dubini, Sara Piciucchi, Fabio Sultani, Sabrina Martinello, Lara Bertolovic, Stefano Oldani, Luca Donati, Christian Gurioli, Claudia Ravaglia, Venerino Poletti
3594	**Late Breaking Abstract - Risk factors of mortality for COVID-19 patients in a North East London cohort: a retrospective analysis** Daryl Cheng (London, United Kingdom), Kiran Desai, Claire Calderwood, Anastasia Otamas, Natasha O'Sullivan, Adam Ainley
3595	**Late Breaking Abstract - Validation of a clinical score predictive of SARS-CoV-2 infection in pneumonia inpatients** Ana Catarina da Silva Alfaiate (Lisboa, Portugal), David Noivo, Vera Clérigo, Vera Durão, Margarida Castanho, Susana Sousa, Fernando Durão, Paula Duarte
3596	**Late Breaking Abstract - Increased risk of pulmonary embolism in patients with radiological severe COVID-19 pneumonia** Cristiano van Zeller (London, United Kingdom), Claudette Phillips, Adrian Draper, Michael Bridgett, Yee-Ean Ong, Sisa Grubnic

Pre-congress content Session 234 00:00 - 23:59

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

Aims : To understand how physicians and patients manage to work and communicate together in the purpose of producing a successful Clinical research Collaboration; to discuss how physicians and patients manage to keep the same aims and visions.

Disease(s) : Airway diseases

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

Tag(s) : Basic science, Clinical

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

00:00	**Challenge and success in a patient centered Clinical Research Collaboration** Dominique Hamerlijnck (Amsterdam, Netherlands), Ratko Djukanovic (Southampton (Hampshire), United Kingdom)	**3597**

Pre-congress content Session 235 00:00 - 23:59

Expert view: Palliative care in tuberculosis

Aims : To describe the aims of medical and palliative care; to contrast sociological and biological explanations of tuberculosis as a disease and define patient-centred care; to answer the question « How do people die from tuberculosis ? »; to match palliative care to the different modes and duration of dying from tuberculosis (case illustrations).

Disease(s) : Respiratory infections

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

Tag(s) : Clinical

Target audience : Clinical researcher, Adult pulmonologist/Clinician, Respiratory critical care physician, General practitioner, Nurse, Paediatrician, Patient, Medical Student, Respiratory therapist, Respiratory physiotherapist

00:00	**Palliative care in tuberculosis** Graham H. Bothamley (London, United Kingdom)	**3598**

Pre-congress content Session 236 00:00 - 23:59

Expert view: Replacement of animal models in respiratory medicine

Aims : To describe and highlight the use of animal-free methods in respiratory research. Animal experiments have been widely used in respiratory research, and have provided important information. In the last decade, numerous in vitro, ex-vivo and in-silico methods and models have been developed that are useful in respiratory research and that can at least in part replace animal models. This is important not only in view of the ethical issues concerning the use of animal models, but also because of the difficulty in translating observations made in animals to the human situation.

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

Method(s) : Cell and molecular biology

Tag(s) : Basic science

Target audience : Pathologist, Scientist (basic, translational)

00:00	**Replacement of animal models in respiratory medicine** Pieter S. Hiemstra (Leiden, Netherlands)	**3599**

Pre-congress content Session 237 00:00 - 23:59

Expert view: Preprints: growth and evolution in the medical publishing space

Aims : To introduce and explain the increasing role of preprints in medical publishing.

Tag(s) : Translational

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

00:00	**Preprints: growth and evolution in the medical publishing space** Martin Kolb (Hamilton (ON), Canada)	**3600**

Pre-congress content Session 238 00:00 - 23:59

Expert view: Lung cancer or cancer of the lung

Aims : to be able to name and compare advantages and challenges of the holistic versus the fragmented care pathways of lung cancer; to discuss who should be in charge of the care of lung cancer patients and whether pulmonologists are enough trained into the art of modern oncology to keep pace with a rapidly changing spectrum of molecular tests and targeted treatments.

Disease(s) : Thoracic oncology

Method(s) : Surgery Imaging Endoscopy and interventional pulmonology

Tag(s) : Clinical

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

00:00 **Lung cancer or cancer of the lung: a view from the bridge** **3601**
Pieter E. Postmus (LEIDEN, Netherlands)

Pre-congress content Session 239 00:00 - 23:59

Expert view: Changing to Global Lung Function Initiative (GLI) reference will help my patient

Aims : To enable clinicians to understand the important issues around reference values in lung function and how adopting the relatively new GLI values together with LLN will alter diagnosis of lung disorders in certain patient groups; to outline what are the weaknesses and strengths of GLI reference values; to explore what is the future for GLI reference values.

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

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

Tag(s) : Clinical

Target audience : Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Technical Assistant, Nurse, Paediatrician, Physiologist, Scientist (basic, translational)

00:00 **Changing to Global Lung Function Initiative (GLI) reference will help my patient** **3602**
Brendan Cooper (Edgbaston (Birmingham), United Kingdom)

Channel 1 Session 241 09:00 - 09:30

COVID-19: Keynote: COVID-19 - recapitulation

Aims : This opening keynote will outline the current situation, timeline and key events related to the unprecedented and ongoing coronavirus global pandemic.

Method(s) : Public health

Tag(s) : Translational

Target audience : Adult pulmonologist/Clinician, General practitioner, Nurse, Paediatrician, Physician in Pulmonary Training, Scientist (basic, translational), Respiratory therapist, Respiratory critical care physician, Thoracic oncologist

Chairs : Christopher E. Brightling (Leicester (Leicestershire), United Kingdom), Anita Simonds (London, United Kingdom)

09:00	**COVID-19 overview, timeline and key events** Tobias Welte (Hannover, Germany)	**COV3603**
09:20	**Discussion and questions and answers**	**COV3604**

Channel 1 Session 242 09:40 - 10:40

COVID-19: Basic science

Aims : This session will explain the basic science behind the SARS CoV 2 virus, covering factors from the structure, viral entry, genomic epidemiology, immune response, and lung effects.

Key references:
1: McCallum M, Walls AC, Bowen JE, Corti D, Veesler D. Structure-guided covalent stabilization of coronavirus spike glycoprotein trimers in the closed conformation. Nat Struct Mol Biol. 2020 Aug 4. doi: 10.1038/s41594-020-0483-8.Epub ahead of print. PMID: 32753755.
2: Walls AC, Park YJ, Tortorici MA, Wall A, McGuire AT, Veesler D. Structure, Function, and Antigenicity of the SARS-CoV-2 Spike Glycoprotein. Cell. 2020 Apr 16;181(2):281-292.e6. doi: 10.1016/j.cell.2020.02.058. Epub 2020 Mar 9. PMID:32155444; PMCID: PMC7102599.

Method(s) : Cell and molecular biology

Tag(s) : Basic science

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

Chairs : Christopher E. Brightling (Leicester (Leicestershire), United Kingdom)

09:40	**Introduction**	**COV3605**
09:50	**Virus biology (structure and viral entry)** Speaker to be confirmed	**COV3606**
10:00	**Virus biology (genomic epidemiology of virus)** Marion Koopmans (Rotterdam, Netherlands)	**COV3607**
10:10	**Host response (immune response)** Tracy Hussell (Manchester (Greater Manchester), United Kingdom)	**COV3608**
10:20	**Host response (airway/lung effects)** Gisli Jenkins (Nottingham (Nottinghamshire), United Kingdom)	**COV3609**
10:30	**Discussion and questions and answers**	**COV3610**

Channel 1 Session 243 10:50 - 11:50

COVID-19: Epidemiology

Aims : This session will discuss the evolving epidemiology of coronavirus disease 2019 (COVID-19), covering the global view from the World Health Organisation (WHO), updates on symptom tracking, risk factors and the severity biomarkers post infection.

Key references:
1: Menni C, Valdes AM, Freidin MB, Sudre CH, Nguyen LH, Drew DA, Ganesh S, Varsavsky T, Cardoso MJ, El-Sayed Moustafa JS, Visconti A, Hysi P, Bowyer RCE, Mangino M, Falchi M, Wolf J, Ourselin S, Chan AT, Steves CJ, Spector TD. Real-time tracking of self-reported symptoms to predict potential COVID-19. Nat Med.2020 Jul;26(7):1037-1040. doi: 10.1038/s41591-020-0916-2. Epub 2020 May 11.PMID: 32393804.

2: Drew DA, Nguyen LH, Steves CJ, Menni C, Freydin M, Varsavsky T, Sudre CH, Cardoso MJ, Ourselin S, Wolf J, Spector TD, Chan AT; COPE Consortium. Rapid implementation of mobile technology for real-time epidemiology of COVID-19. Science. 2020 Jun 19;368(6497):1362-1367. doi: 10.1126/science.abc0473. Epub 2020 May 5. PMID: 32371477; PMCID: PMC7200009.
3: Docherty AB, Harrison EM, Green CA, Hardwick HE, Pius R, Norman L, Holden KA, Read JM, Dondelinger F, Carson G, Merson L, Lee J, Plotkin D, Sigfrid L, Halpin S, Jackson C, Gamble C, Horby PW, Nguyen-Van-Tam JS, Ho A, Russell CD, Dunning J, Openshaw PJ, Baillie JK, Semple MG; ISARIC4C investigators. Features of 20 133 UK patients in hospital with covid-19 using the ISARIC WHO Clinical Characterisation Protocol: prospective observational cohort study. BMJ. 2020 May 22;369:m1985. doi: 10.1136/bmj.m1985. PMID: 32444460; PMCID: PMC7243036.

Method(s) : Epidemiology Public health

Tag(s) : Basic science

Chairs : Daiana Stolz (Basel, Switzerland)

10:50	**Introduction**	**COV3611**
11:00	**European and world-view** Nahoko Shindo (Geneva, Switzerland)	**COV3612**
11:10	**Tracking symptoms** Speaker to be confirmed	**COV3613**
11:20	**Risk factors for severe COVID-19, evidence from the ISARIC Coronavirus Clinical Characterisation Consortium** Malcolm (Calum) Semple (Liverpool, United Kingdom)	**COV3614**
11:30	**Severity biomarkers once infected** Eva Polverino (Barcelona, Spain)	**COV3615**
11:40	**Discussion and questions and answers**	**COV3616**

Channel 1 Session 244 12:00 - 13:00

COVID-19: Management prevention

Aims : This session will explain the public health approaches recommended by the European Centre for Disease Prevention and Control (ECDC) including surveillance, epidemic intelligence, response, preparedness, training, and communication. This session will also describe the different vaccine approaches (whole-virus, genetic, viral vector, protein based) and highlight key vaccine clinical trials currently underway.

Key references:
1: Folegatti PM, Ewer KJ, Aley PK, Angus B, Becker S, Belij-Rammerstorfer S, Bellamy D, Bibi S, Bittaye M, Clutterbuck EA, Dold C, Faust SN, Finn A, Flaxman AL, Hallis B, Heath P, Jenkin D, Lazarus R, Makinson R, Minassian AM, Pollock KM, Ramasamy M, Robinson H, Snape M, Tarrant R, Voysey M, Green C, Douglas AD, Hill AVS, Lambe T, Gilbert SC, Pollard AJ; Oxford COVID Vaccine Trial Group. Safety and immunogenicity of the ChAdOx1 nCoV-19 vaccine against SARS-CoV-2: a preliminary report of a phase 1/2, single-blind, randomised controlled trial. Lancet. 2020 Jul 20:S0140-6736(20)31604-4. doi: 10.1016/S0140-6736(20)31604-4. Epub ahead of print. PMID: 32702298.

Tag(s) : Basic science, Translational , Clinical

Chairs : Tobias Welte (Hannover, Germany)

12:00	**Introduction**	**COV3617**
12:10	**Public health approaches** Pasi Penttinen (Stockholm, Sweden)	**COV3618**
12:20	**Strategies for vaccines - immuno-preservation and risk of re-infection** Peter Openshaw (London, United Kingdom)	**COV3619**
12:35	**Vaccines - early clinical trials** Speaker to be confirmed	**COV3620**
12:50	**Discussion and questions and answers**	**COV3621**

Channel 1 Session 245 13:15 - 14:15

Assembly members' meeting: Assembly 1: General pneumology

Chairs : Hilary Pinnock (Edinburgh (Edinburgh), United Kingdom), Ioannis Vogiatzis (Newcastle upon Tyne, United Kingdom), Laura Fregonese (London, United Kingdom), Frits M.E. Franssen (Horn, Netherlands), Janwillem W. H. Kocks (Groningen, Netherlands), Vitalii Poberezhets (Vinnytsia, Ukraine), Lowie G.W. Vanfleteren (Gothenburg, Sweden)

13:15 **Presentation by Assembly Officers** **3622**
Hilary Pinnock (Edinburgh (Edinburgh), United Kingdom)

Channel 2 Session 246 13:15 - 14:15

Assembly members' meeting: Assembly 2: Respiratory intensive care

Chairs : Marcus Schultz (Amsterdam, Netherlands), Leo Heunks (Amsterdam, Netherlands), Christian Karagiannidis (Cologne, Germany), João Carlos Winck Fernandes Cruz (Vila Nova de Gaia, Portugal), Maxime Patout (Mont-Saint Aignan, France)

13:15 **Presentation by Assembly Officers** **3623**
Leo Heunks (Amsterdam, Netherlands)

Channel 3 Session 247 13:15 - 14:15

Assembly members' meeting: Assembly 3: Basic and translational sciences

Chairs : Catherine Greene (Dublin 9, Ireland), Silke Meiners (München, Germany), Aurelie Fabre (Dublin 4, Ireland), H. Irene Heijink (Groningen, Netherlands), Agnes W. Boots (Maastricht, Netherlands), Niki Ubags (Epalinges, Switzerland)

13:15 **Presentation by Assembly Officers** **3624**
Catherine Greene (Dublin 9, Ireland)

Channel 4 Session 248 13:15 - 14:15

Assembly members' meeting: Assembly 4: Sleep and breathing disorders; and clinical physiology

Chairs : Andrea Aliverti (Milan, Italy), Pierantonio Laveneziana (Paris, France), Samuel Vergès (Grenoble, France), Sophia E. Schiza (Heraklion, Greece), Andrea Crespo Sedano (Vallodolid, Spain)

13:15 **Presentation by Assembly Officers** **3625**
Andrea Aliverti (Milan, Italy)

Channel 6 Session 250 13:15 - 14:15

Assembly members' meeting: Assembly 6: Epidemiology and environment

Chairs : Christer Janson (Uppsala, Sweden), Charlotte Suppli Ulrik (Virum, Denmark), Joan B Soriano (Madrid, Spain), David Fishwick (Sheffield (South Yorkshire), United Kingdom), Sofia Belo Ravara (Covilhã, Portugal), Ian P. Hall (Nottingham (Nottinghamshire), United Kingdom), Ane Johannessen (Bergen, Norway), Andre F.S. Amaral (London, United Kingdom)

13:15 **Presentation by Assembly Officers** **3627**
Christer Janson (Uppsala, Sweden)

Channel 7 Session 251 13:15 - 14:15

Assembly members' meeting: Assembly 7: Paediatrics

Chairs : Marielle W.H. Pijnenburg (Rotterdam, Netherlands), Jonathan Grigg (London, United Kingdom), Refika Hamutcu Ersu (Ottawa, Canada), Sejal Saglani (London, United Kingdom), Jürg Barben (St. Gallen, Switzerland), Marijke Proesmans (Leuven, Belgium), Theodore Dassios (Beckenham (Kent), United Kingdom), Liesbeth Duijts (Rotterdam, Netherlands), Deborah Snijders (Ponzano Veneto (TV), Italy), Alexander Möller (Zürich, Switzerland), Cristina Ardura-Garcia (Bern, Switzerland)

13:15 **Presentation by Assembly Officers** **3628**
Jonathan Grigg (London, United Kingdom)

Channel 5 Session 256 13:15 - 14:15

Assembly members' meeting: Assembly 12: Interstitial lung diseases

Chairs : Venerino Poletti (Forlì, Italy), Katerina Antoniou (Heraklion, Greece), Michael Kreuter (Heidelberg, Germany), Elisabetta Renzoni (London, United Kingdom), Hilario Nunes (Bobigny, France), Francesco Bonella (Düsseldorf, Germany), Tiago Alfaro (Coimbra, Portugal)

13:15 **Presentation by Assembly Officers** **3633**
Venerino Poletti (Forlì, Italy)

Channel 5 Session 249 14:30 - 15:30

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

Chairs : Omar S. Usmani (London, United Kingdom), Antonio Spanevello (Milan, Italy), Dave Singh (Manchester, United Kingdom), Florence Schleich (Liège, Belgium), Marco Idzko (Wien, Austria), Apostolos Bossios (Stockholm, Sweden), Carolina Gotera (Madrid, Spain)

14:30 **Presentation by Assembly Officers** **3626**
Antonio Spanevello (Milan, Italy)

Channel 1 Session 252 14:30 - 15:30

Assembly members' meeting: Assembly 8: Thoracic surgery and transplantation

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

14:30 **Presentation by Assembly Officers** **3629**
Stefano Elia (Roma (RM), Italy)

Channel 2 Session 253 14:30 - 15:30

Assembly members' meeting: Assembly 9: Allied respiratory professionals

Chairs : Martijn A. Spruit (Horn, Netherlands), Daniel Langer (Leuven, Belgium), Aisling McGowan (Dublin 15, Ireland), Chris Burtin (Diepenbeek, Belgium), Andreja Sajnic (Zagreb, Croatia), Jana De Brandt (Diepenbeek, Belgium)

14:30 **Presentation by Assembly Officers** **3630**
Martijn A. Spruit (Horn, Netherlands)

Channel 3 Session 254 14:30 - 15:30

Assembly members' meeting: Assembly 10: Respiratory infections

Chairs : Eva Polverino (Barcelona, Spain), Graham H. Bothamley (London, United Kingdom), James D. Chalmers (Dundee (Angus), United Kingdom), Raquel Duarte (Porto, Portugal), Cristina Calarasu (Craiova (Dolj), Romania)

14:30 **Presentation by Assembly Officers** **3631**
Graham H. Bothamley (London, United Kingdom)

Channel 4 Session 255 14:30 - 15:30

Assembly members' meeting: Assembly 11: Thoracic oncology

Chairs : Torsten Gerriet Blum (Berlin, Germany), Jan van Meerbeeck (Edegem (Antwerp), Belgium), Rudolf M. Huber (Munich, Germany), Najib M. Rahman (Oxford, United Kingdom), Adrien Costantini (Paris, France)

14:30 **Presentation by Assembly Officers** **3632**
Jan van Meerbeeck (Edegem (Antwerp), Belgium)

Channel 6 Session 257 14:30 - 15:30

Assembly members' meeting: Assembly 13: Pulmonary vascular diseases

Chairs : Anton Vonk Noordegraaf (Amsterdam, Netherlands), Marion Delcroix (Leuven, Belgium), Olivier Sitbon (Le Kremlin-Bicêtre, France), David Jiménez Castro (Madrid, Spain), Harm Jan Bogaard (Amsterdam, Netherlands), Sheila Ramjug (Altrincham, United Kingdom)

14:30 **Presentation by Assembly Officers** **3634**
Marion Delcroix (Leuven, Belgium)

Channel 7 Session 258 14:30 - 15:30

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

Chairs : Jouke T. Annema (Amsterdam, Netherlands), Walter De Wever (Leuven, Belgium), Prashant Nemichand Chhajed (Mumbai, India), Simon Walsh (London, United Kingdom), Christian B. Laursen (Odense, Denmark), Daniela Gompelmann (Heidelberg, Germany)

14:30 **Presentation by Assembly Officers** **3635**
Jouke T. Annema (Amsterdam, Netherlands)

Channel 1 Session 259 15:40 - 16:40

COVID-19: Management

Aims : This session will explain the most up-to-date advice for the clinical management of patients with COVID-19, including respiratory support and the pharmacological management.

Key references:
1: RECOVERY Collaborative Group, Horby P, Lim WS, Emberson JR, Mafham M, Bell JL, Linsell L, Staplin N, Brightling C, Ustianowski A, Elmahi E, Prudon B, Green C, Felton T, Chadwick D, Rege K, Fegan C, Chappell LC, Faust SN, Jaki T, Jeffery K, Montgomery A, Rowan K, Juszczak E, Baillie JK, Haynes R, Landray MJ. Dexamethasone in Hospitalized Patients with Covid-19 - Preliminary Report. N Engl J Med. 2020 Jul 17. doi: 10.1056/NEJMoa2021436. Epub ahead of print. PMID: 32678530.

2: Beigel JH, Tomashek KM, Dodd LE, Mehta AK, Zingman BS, Kalil AC, Hohmann E, Chu HY, Luetkemeyer A, Kline S, Lopez de Castilla D, Finberg RW, Dierberg K, Tapson V, Hsieh L, Patterson TF, Paredes R, Sweeney DA, Short WR, Touloumi G, Lye DC, Ohmagari N, Oh MD, Ruiz-Palacios GM, Benfield T, Fätkenheuer G, Kortepeter MG, Atmar RL, Creech CB, Lundgren J, Babiker AG, Pett S, Neaton JD, Burgess TH, Bonnett T, Green M, Makowski M, Osinusi A, Nayak S, Lane HC; ACTT-1 Study Group Members. Remdesivir for the Treatment of Covid-19 – Preliminary Report. N Engl J Med. 2020 May 22. doi: 10.1056/NEJMoa2007764. Epub ahead of print. PMID: 32445440; PMCID: PMC7262788.

Disease(s) : Respiratory critical care

Method(s) : Respiratory intensive care

Tag(s) : Basic science

Chairs : Leo Heunks (Amsterdam, Netherlands), Anita Simonds (London, United Kingdom)

15:40	**Introduction**	**COV3636**
15:50	**Respiratory support (pre-ventilation, ventilation and ECMO)** Paolo Navalesi (Padova, Italy)	**COV3637**
16:00	**Drugs anti-virals** John Beigel (Baltimore, United States of America)	**COV3638**
16:10	**Drugs anti-inflammatories** Richard Haynes (Oxford, United Kingdom)	**COV3639**
16:20	**Other drugs and convalescent plasma** Maxime Patout (Mont-Saint Aignan, France)	**COV3640**
16:30	**Discussion and questions and answers**	**COV3641**

Channel 1 Session 260 16:50 - 17:50

COVID-19: Impact in children and in adults with premorbid respiratory disease (acute and long-term)

Aims : COVID-19 can affect anyone, and the disease can cause symptoms ranging from mild to severe. This session will discuss the impact for patients with pre-existing respiratory disease including how children react to the virus, ILD, lung cancer, and airways disease.

Tag(s) : Basic science

Chairs : Fabio Midulla (Roma (RM), Italy), Katerina Antoniou (Heraklion, Greece)

16:50	**Introduction**	**COV3642**
17:00	**Children** Alexander Möller (Zürich, Switzerland)	**COV3643**
17:10	**ILD** Sergio Harari (Milano (MI), Italy)	**COV3644**
17:20	**Lung cancer** Joanna Chorostowska-Wynimko (Warsaw, Poland)	**COV3645**
17:30	**Airways disease** Guy Brusselle (Ghent, Belgium)	**COV3646**
17:40	**Discussion and question and answers**	**COV3647**

Channel 1 Session 261 18:00 - 19:00

COVID-19: Post-COVID

Aims : As COVID-19 was only recently discovered, the long-term effects are still relatively unknown, researchers are looking into parallels with other diseases and trialling long-term management options. This session will explore the current care pathways, rehabilitation options, long-term impact on the lung, risks of re-infection and palliative care.

Method(s) : Palliative care Pulmonary rehabilitation General respiratory patient care

Tag(s) : Basic science, Clinical, Translational

Chairs : Thierry Troosters (Leuven, Belgium), Anita Simonds (London, United Kingdom)

18:00	**Introduction**	**COV3648**
18:10	**Care pathways and virtual consultations** Ioannis Vogiatzis (Newcastle upon Tyne, United Kingdom)	**COV3649**
18:20	**Rehabilitation recovery** Sally J. Singh (Leicester (Leicestershire), United Kingdom)	**COV3650**
18:30	**Long-term impact the lung and beyond** Francesco Blasi (Milan, Italy)	**COV3651**
18:40	**Palliative care** Daisy J.A. Janssen (Horn, Netherlands)	**COV3653**
18:50	**Discussion, question and answers and closing** Thierry Troosters (Leuven, Belgium), Anita Simonds (London, United Kingdom)	**COV3654**

08:00-09:00
INDUSTRY EARLY MORNING SYMPOSIUM SEE PAGE 1

08:15-09:15
INDUSTRY EARLY MORNING SYMPOSIUM SEE PAGE 1

Channel 1 Session 267 09:30 - 11:00

Language session: Chinese programme 2020: Part I
Joint ERS/CTS session

Aims : To allow experienced speakers from the ERS leadership and Chinese leaders in respiratory medicine to describe new advances in respiratory medicine; and to present an overview of respiratory diseases, including early diagnosis, public health, sleep, and pulmonary embolism, in Europe and China.
This programme will be available in Chinese and English.

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

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

Tag(s) : Clinical

Target audience : Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Nurse, Scientist (basic, translational), Thoracic oncologist

Chairs : Rongchang Chen (Guangzhou (Guangdong), China), Ay e Arzu Yorganc o lu (Izmir, Turkey)

09:30	**Introduction**	**3681**
09:35	**Strategy for early diagnosis and intervention in chronic respiratory disease** Nanshan Zhong (Guangzhou (Guangdong), China)	**3682**
09:45	**Global Alliance Against Chronic Respiratory Diseases (GARD): Beijing call to action to promote lung health** Chen Wang (Beijing, China)	**3683**
09:55	**A randomized, controlled, open-label study to evaluate the efficacy and safety of oral lopinavir-ritonavir in adults hospitalized with COVID-19 virus infection** BIN CAO (BEIJING, China)	**3684**
10:05	**Lessons shared and perspectives in mechanical ventilation for COVID-19** Anita Simonds (London, United Kingdom)	**3685**
10:15	**ERS advocacy priorities: air pollution, lung cancer screening, new nicotine delivery products and others** Ayşe Arzu Yorgancıoğlu (Izmir, Turkey)	**3686**
10:25	**Outdoor air pollution and the burden of childhood asthma across Europe** David Rojas-Rueda (fort collins, United States of America)	**3687**
10:35	**Discussion and Q&A**	**3688**

Channel 2 Session 268 09:30 - 10:30

Oral presentation: Asthma pharmacology: clinical trials and mechanistic insights
Abstracts presented in this session are also available as E-posters from 24 August 2020

Disease(s) : Airway diseases

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

Chairs : Charlotte Suppli Ulrik (Virum, Denmark), Renaud Louis (Liège, Belgium)

3689	**Introduction**
3690	**Late Breaking Abstract - Efficacy of CSJ117 on allergen-induced asthmatic responses in mild atopic asthma patients** Gail Gauvreau (Hamilton (ON), Canada), Jens Hohlfeld, Louis-Philippe Boulet, Donald Cockcroft, Beth Davis, J Mark Fitzgerald, Stephanie Korn , Oliver Kornmann , Richard Leigh, Irvin Mayers, Hendrik Watz, Sarah Grant, Monish Jain , Maciej Cabanski , Peter Pertel , Ieuan Jones , Jean Lecot , Paul O'Byrne

3691	**Late Breaking Abstract - Target populations for type 2 asthma biologics in a real-life population in Spain (BRAVO 2)** Christian Domingo Ribas (Sabadell (Barcelona), Spain), Ana Sogo Sagardia, Daniel-Ross Monserrate Mitchell, Antoni Sicras Mainar, Aram Sicras Navarro, Clara Engroba Teijeiro
3692	**Late Breaking Abstract - Cardiovascular adverse events of drugs targeting IL-5 in severe asthma: a pharmacovigilance study** Jean Baptiste Quinta (Le Lamentin, Martinique), François Montastruc, Vanessa Rousseau, Agnès Sommet, Anthony Touafchia, Michel Galinier, Laurent Guilleminault
3693	**Pharmacogenetics of inhaled corticosteroid response in adults with asthma** Mohamed Ahmed Edris (, Belgium), Emmely De Roos, Michael Mcgeachie, Katia Verhamme, M. Arfan Ikram, Guy Brusselle, Kelan Tantisira, Carlos Iribarren, Meng Lu, Ann Wu, Bruno Stricker, Lies Lahousse
3694	**Benralizumab restored expression of key molecules involved in steroid-resistance in patients with severe asthma** Keita Hirai (Shizuoka, Japan), Toshihiro Shirai, Taisuke Akamatsu, Sekiko Uehara, Yuka Rachi, Kanami Tamura, Yutaro Kishimoto, Mika Saigusa, Kazuhiro Asada, Kunihiko Itoh
3695	**Does airway microbiology predict response to azithromycin in severe asthma? Analysis of the AMAZES trial** Steven Taylor (Bedford park, Australia), Kerry Ivey, Peter Gibson, Jodie Simpson, Geraint Rogers
3696	**Bronchial thermoplasty may increase steroid sensitivity by upregulating the expression of the glucocorticoid receptor** Liang Zhou (Basel, Switzerland), Liang Zhou, Lei Fang, Daiana Stolz, Michael Tamm, Michael Roth
3697	**Inflammatory phenotypes of asthma determine effect of inhaled corticosteroids on anti-viral immunity** Mandy Menzel (Lund, Sweden), Juan José Nieto-Fontarigo, Morten Hvidtfeldt, Samuel Cerps, Sangeetha Ramu, Asger Sverrild, Celeste Porsbjerg, Lena Uller
3698	**The effect of inhaled corticosteroids on airway mast cells in type 2 low asthma** Morten Hvidtfeldt (København V, Denmark), Alexis Pulga, Asger Sverrild, Morten Hostrup, Caroline Sanden, Ole B Nielsen, Daisy Bornesund, Carl-Magnus Clausson, Jonas S Erjefält, Celeste Porsbjerg
3699	**Risankizumab in severe asthma: A Phase IIa, placebo-controlled study** Christopher E. Brightling (Leicester (Leicestershire), United Kingdom), Parameswaran Nair, Renaud Louis, Dave Singh
3700	**Discussion**

Channel 3 Session 269 09:30 - 10:30

Oral presentation: Metabolic alterations and ageing in lung disease

Abstracts presented in this session are also available as E-posters from 24 August 2020

Disease(s) : Airway diseases Interstitial lung diseases

Method(s) : Cell and molecular biology

Chairs : H. Irene Heijink (Groningen, Netherlands), Silke Meiners (München, Germany)

3701	**Introduction**
3702	**LSC - 2020 - Epithelial-mesenchymal transition induced by cigarette smoke in lung epithelial cells is associated wit h metabolic reprogramming and senescence** Serena Di Vincenzo (Palermo (PA), Italy)
3703	**LSC - 2020 - Fluorescence-activated cell sorting of senescent fibroblasts** Catherine Wrench (London, United Kingdom)
3704	**LSC - 2020 - Investigating the effect of Z alpha-1 antitrypsin expression on mitochondrial injury** Arlene Glasgow (Dublin 9, Ireland)
3705	**LSC - 2020 - Altered metabolic activity and redox balance are associated with a proliferative phenotype in COP D airway smooth muscle cells.** Charalambos Michaeloudes (London, United Kingdom)
3706	**Metabolic differences in bronchial epithelium from asthma patients and impact of bronchial thermoplasty** Abilash Ravi (Leiden, Netherlands), Annika Goorsenberg, Annemiek Dijkhuis, Barbara Dierdorp, Tamara Dekker, Yanaika Sabogal Piñeros, Peter J. Sterk, Frédéric Vaz, Jouke Annema, Peter Bonta, Rene Lutter
3707	**Altered iron metabolism and elevated cellular senescence in COPD small airway epithelial cells** Jonathan R. Baker (London, United Kingdom), Peter. S Fenwick, Louise.E Donnelly, Peter. J Barnes, Suzanne. M Cloonan

3708	**Impaired NK activity in the IPF lungs.** Tamara Cruz (Barcelona, Spain), Minxue Jia, Tracy Tabib, John Sembrat, Nayra Cardenes, Tullia Bruno, Ana Mora, Robert Lafyatis, Takis Benos, Mauricio Rojas
3709	**Discussion**

Channel 4 Session 270 09:30 - 10:30

Oral presentation: New clinical insights into idiopathic pulmonary fibrosis

Abstracts presented in this session are also available as E-posters from 24 August 2020

Disease(s) : Interstitial lung diseases

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

Chairs : Wim A Wuyts (Leuven, Belgium), Marlies S. Wijsenbeek (Rotterdam, Netherlands)

3710	**Introduction**
3711	**Late Breaking Abstract - Combinative analysis of RNA-seq and proteomics reveals potential molecular targets in TGF-beta1-induced fibroblast-myofibroblast transition** Zheng Wang (, China), Li Meng, Zhang Jingjing, Shang Junyi, Zhang Quncheng, An Yunxia, Zhang Xiaoju
3712	**Monounsaturated Fatty Acid diet associates less gastrointestinal adverse events of pirfenidone: phase IV clinical trial** Eva Fontanilles Arbones (Hospitalet de Llobregat, Spain), Carlo Vancheri, Marlies Wijsenbeek, Katerina Antoniou, Pilar Rivera, Francesco Bonella, Elisabeth Renzoni, Anne-Marie Anne-Marie , Vanesa Vicens-Zygmunt, Guillermo Suarez-Cuartin, Jordi Dorca, Josep Palma, Anna Bachs, Victoria Avilés, Christian Tebé, Jess Shull, Maria Molina Molina
3713	**To be or not to be – the uncertainty of PF-ILD** Michael Kreuter (Heidelberg, Germany), Nicolas Kahn, Francesca Maria Sambataro, Claus Heussel, Gianluca Sambataro, Carlo Vancheri, Sebastiano Emanuele Torrisi
3714	**Genetic susceptibilty and manifestation of progressive fibrosing interstitial lung diseases.** Martina Šterclová (Praha, Czech Republic), Kateřina Sikorova, Martin Petrek, Martina Vasakova
3715	**Historical eye on idiopathic pulmonary fibrosis: redefining the mortality scenario.** Sara Tomassetti (Florence, Italy), Claudia Ravaglia, Athol Wells, Martina Marchi, Antonella Arcadu, Silvia Puglisi, Luca Donati, Alessandra Dubini, Sara Piciucchi, Jay Ryu, Catherine Klersy, Venerino Poletti
3716	**Development of an artificial intelligence software to detect interstitial pneumonias** Hirotaka Nishikiori (Sapporo, Japan), Hirofumi Chiba, Kenichi Hirota, Tomohiro Suzuki, Seiwa Honda, Naoya Yama, Kimiyuki Ikeda, Yuki Mori, Yuichiro Asai, Naomi Koyama, Koji Kuronuma, Masamitsu Hatakenaka, Hiroki Takahashi
3717	**Discussion**

Channel 5 Session 271 09:30 - 10:30

Oral presentation: New insights into mechanical ventilation in the intensive care unit

Abstracts presented in this session are also available as E-posters from 24 August 2020

Disease(s) : Respiratory critical care Airway diseases

Method(s) : Respiratory intensive care Epidemiology Public health Cell and molecular biology

Chairs : Christian Karagiannidis (Cologne, Germany), Ignacio Martin-Loeches (Dublin, Ireland)

3718	**Introduction**
3719	**Late Breaking Abstract - Positive end-expiratory pressure affects geometry and function of the human diaphragm** Diana Jansen (Herpen, Netherlands), Annnemijn H. Jonkman, Heder J. De Vries, J. Tim Marcus, Coen A. C. Ottenheijm, Leo M. A. Heunks
3720	**Late Breaking Abstract - Mesenchymal stromal cells as a salvage treatment for persistent ARDS** Haijin Lyu (, China), Jianrong Liu, Xiaomeng Yi, Xiaofeng Yuan, Yuling An, Xuxia Wei, Yanhong Wang, Ying Xian, Huimin Yi
3721	**Gender differences in tidal volume limitation - an ICU database analysis** Pien Swart (Amstelveen, Netherlands), Marcus J Schultz, Ary Serpa Neto
3722	**Diversity of the lung mycobiome is associated with severity of disease in acute respiratory distress syndrome** Noel Britton (Pittsburgh, United States of America), Georgios Kitsios, Adam Fitch, Barbara Methe, Bryan Mcverry, Alison Morris

3723	**Time to advanced airway management and neurologically favorable survival after out-of-hospital cardiac arrest** Tatsuma Fukuda (Okinawa, Japan), Naoko Ohashi-Fukuda, Yutaka Kondo, Hiroshi Sekiguchi, Ichiro Kukita	
3724	**The predictive validity for mortality of driving pressure and mechanical power of ventilation** David van Meenen (Leiden, Netherlands), Ary Serpa Neto, Frederique Paulus, Coen Merkies, Laura Schouten, Lieuwe Bos, Janneke Horn, Nicole Juffermans, Olaf Cremer, Tom Van Der Poll, Marcus Schultz	
3725	**Ventilation management in Asian middle–income countries** Luigi Pisani (Amsterdam, Netherlands), Ary Serpa Neto, Arjen Dondorp, Marcus J. Schultz	
3726	**Patient ventilator asynchrony as a predictor of weaning failure in mechanically ventilated COPD patients.** Marwa Abdulmoez (assuit, Egypt), Maha Elkholy, Samiaa Sadek, Reham Elmorshedy	
3727	**Variation in ventilation management and outcome in ICU patients without ARDS – an IPD metaanalysis of 4 worldwide observational studies** Anna Geke Algera (Amsterdam, Netherlands), Luigi Pisani, Frederique Paulus, Ary Serpa Neto, Marcus Schultz	
3728	**Discussion**	

Studio Madrid Session 272 09:30 - 10:30

State of the art session: Paediatric respiratory diseases

Aims : To describe current information about four important paediatric respiratory areas and to highlight future changes in diagnosis and management.
This session will be part of the second study of the PhD funded by ERS. More information can be found here

Disease(s) : Airway diseases | Paediatric respiratory diseases | Sleep and breathing disorders

Tag(s) : Clinical

Target audience : Clinical researcher, Medical Student, Nurse, Paediatrician, Physician in Pulmonary Training, Radiologist, Respiratory physiotherapist

Chairs : Marielle W.H. Pijnenburg (Rotterdam, Netherlands), Ernst Eber (Graz, Austria)

09:30	**Introduction**	3729
09:35	**Congenital malformations** Petr Pohunek (Praha, Czech Republic)	3730
09:45	**Bronchiolitis obliterans** Geoffrey Kurland (Pittsburgh, PA, United States of America)	3731
09:55	**Assessing and improving the lung function growth trajectory in infants and children** Peter D. Sly (Brisbane (QLD), Australia)	3732
10:05	**Sleep disordered breathing and non invasive ventilation** Daniel Trachsel (Basel, Switzerland)	3733
10:15	**Discussion and Q&A**	3734

Studio Milan Session 273 09:30 - 10:30

Joint session: Frontiers of lung cancer screening
A joint ERS/Industry session

Aims : Please note that this session is not CME accredited.

Chairs : Reinoud Gosens (Groningen, Netherlands), Otto Chris Burghuber (Wien, Austria)

09:30	**Introduction** Jan van Meerbeeck (Edegem (Antwerp), Belgium)	3735
09:35	**Cost-effectiveness of lung cancer screening with CT-scan** Harry De Koning (Rotterdam, Netherlands)	3736
09:45	**The role of artificial intelligence in lung cancer screening** Colin Jacobs (Nijmegen, Netherlands)	3737
09:55	**Radiation injury and second primary cancer: risk or asset?** Caro Franck (Edegem, Belgium)	3738
10:05	**Discussion and Q&A**	3739

Studio Paris Session 274 09:30 - 10:30

Symposium: New developments in pandemic medicine

An update from the PREPARE EU research project

Aims : To describe the latest developments in antiviral therapy for influenza and the growing clinical problem of arbovirus infection in Europe; to evaluate the rationale for adaptive trials investigating critical care interventions in a pandemic; and to describe a collaborative strategy for increasing clinical and research capacity in Europe for pandemic care.

Disease(s) : Respiratory infections

Tag(s) : Clinical

Target audience : Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Respiratory critical care physician, Pathologist, Physician in Pulmonary Training, Respiratory physiotherapist, Scientist (basic, translational)

Chairs : Tobias Welte (Hannover, Germany), Elisabeth H.D. Bel (Amsterdam, Netherlands)

09:30	**Introduction**	**3740**
09:35	**Antiviral therapy for influenza: latest trial results** Christopher Butler (Oxford (Oxfordshire), United Kingdom)	**3741**
09:45	**New approaches to designing trials for pandemics: setting up an adaptive trial for management strategies in community acquired pneumonia** Lennie P. G. Derde (Utrecht, Netherlands)	**3742**
09:55	**ISARIC Covid-19 pandemic research response, tools and outcomes from clinical characterisation studies** Louise Sigfrid (Brighton (East Sussex), United Kingdom)	**3743**
10:05	**What's next - preparing for the ongoing COVID response and future pandemics** Gail Carson (Oxford (Oxfordshire), United Kingdom)	**3744**
10:15	**Discussion and Q&A**	**3745**

Studio Vienna Session 275 09:30 - 11:40

Grand round: Imaging grand round

Emerging imaging technologies and innovative study fields in respiratory diseases

Aims : To describe the latest advances in imaging technology with a focus on diagnosis of early disease and prevention; to evaluate the role of artificial intelligence in imaging and the integration of artificial intelligence with emerging imaging techniques, such as magnetic resonance imaging (MRI) and quantitative computed tomography (CT), as well as deep learning; to evaluate the use of radiogenomics in classifying patients who will benefit from cancer treatment and predict outcomes using texture analysis; and to describe the results of imaging twin studies in estimating the role of genetic, epigenetic and environmental effects on respiratory diseases.

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

Tag(s) : Clinical

Target audience : Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Respiratory critical care physician, Paediatrician, Radiologist, Scientist (basic, translational), Thoracic oncologist, Thoracic surgeon, Journalist

Chairs : Christopher E. Brightling (Leicester (Leicestershire), United Kingdom), Torsten Gerriet Blum (Berlin, Germany)

09:30	**Introduction**	**3746**
09:35	**Deep learning and its applications to lung imaging** Maria Vakalopoulou (Saint-Aubin, France)	**3747**
09:55	**Discussion and Q&A**	**3748**
10:05	**Artificial intelligence in lung cancer: where are we now?** Fergus Gleeson (Oxford (Oxfordshire), United Kingdom)	**3749**
10:25	**Discussion and Q&A**	**3750**
10:35	**The future is here in thoracic oncologic imaging: role of radiogenomics** Zuhir Bodalal Elkarghali (, Netherlands)	**3751**
10:55	**Discussion and Q&A**	**3752**
11:05	**Imaging twin studies to unravel the genetic, epigenetic and environmental background of lung diseases: Part I** Ádám Domonkos Tárnoki (Budapest, Hungary)	**3753**

11:15	**Imaging twin studies to unravel the genetic, epigenetic and environmental background of lung diseases: Part II** David Laszlo Tarnoki (Budapest, Hungary)	**3754**
11:25	**Discussion and Q&A**	**3755**

Channel 2 Session 276 10:40 - 11:40

Oral presentation: New tools for risk stratification of obstructive diseases

Abstracts presented in this session are also available as E-posters from 24 August 2020

Disease(s) : Airway diseases Respiratory critical care

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

Chairs : Stylianos Loukides (Athens, Greece), Fabio L. M. Ricciardolo (Orbassano (TO), Italy)

3756	**Introduction**
3757	**Collating data from major European population studies – The CADSET (Chronic airway disease early stratification) clinical research collaboration** James Allinson (London, United Kingdom), Shoaib Afzal, Yunus Colak, Helena Backman, Maarten Van Den Berghe, Marike Boezen, Marie Breyer, Robab Breyer-Kohansal, Otto C. Burghuber, Rosa Faner, Sylvia Hartl, Deborah Jarvis, Lies Lahouse, Arnulf Langhammer, Bo Lundback, Bright Nwaru, Eva Ronmark, Sigrid Vikjord, Judith Vonk, Sara Vijnant, Viktoria Szabo, Alvar Agusti, Gavin Donaldson, Jadwiga Wedzicha, Jorgen Vestbo, Lowie Vanfleteren
3758	**Measurement of peripheral airspaces by nanoparticles in a group of 618 subjects** Jakob Löndahl (Lund, Sweden), Madeleine Petersson Sjögren, Laura Aaltonen, Jonas Jakobsson, Hanna Nicklasson, Jenny Rissler, Per Wollmer
3759	**Comparison of spirometric markers of severity and reversibility in patients with asthma and/or COPD in NOVELTY** Rod Hughes (Sheffield (South Yorkshire), United Kingdom), Ricardo Del Olmo, Barry Make, David Price, Alvar Agustí, Eleni Rapsomaniki, Hana Müllerová, Jørgen Vestbo
3760	**Risk Score for Subclinical COPD: The NHLBI Pooled Cohorts Study** Surya Bhatt (Birmingham, United States of America), Pallavi Balte, Joseph Schwartz, Patricia Cassano, Paulo Chaves, David Couper, David Jacobs, Elina Jerschow, Ravi Kalhan, Robert Kaplan, Donald Lloyd-Jones, Anne Newman, George O'Connor, Jason Sanders, Benjamin Smith, Jason Umans, Wendy White, Sachin Yende, Elizabeth Oelsner
3761	**Validation of the codex index in patients with COPD enrolled in randomized clinical trials: A post-hoc analysis of the trilogy, trinity and tribute studies.** Pere Almagro (Terrassa, Spain), Paola Vaghi, Silva Tommasini, Diego González-Segura , Eva Topole, George Georges
3762	**Phenotypes, treatable traits, GOLD groups and grades – how they predict mortality risk in COPD patients? (data from the Czech Multicenter Research Database of COPD)** Kristian Brat (Brno, Czech Republic), Vladimir Koblizek, Michal Svoboda, Marek Plutinsky, Jaromir Zatloukal, Eva Volakova, Barbora Novotna, Patrice Popelkova, Tomas Dvorak, Ondrej Kudela, Michal Kopecky, Pavlina Musilova, Eva Kocova, Petr Vanik, Lucie Heribanova
3763	**Discussion**

Channel 3 Session 277 10:40 - 11:40

Oral presentation: Respiratory diseases, hypoxia and cardiovascular function

Abstracts presented in this session are also available as E-posters from 24 August 2020

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

Method(s) : Pulmonary function testing Imaging Epidemiology Physiology Pulmonary rehabilitation General respiratory patient care Respiratory intensive care

Chairs : Samuel Vergès (Grenoble, France), Zafeiris Louvaris (Leuven, Belgium)

3764	**Introduction**
3765	**Late Breaking Abstract - The affinity of haemoglobin for oxygen is not altered in the course of Covid-19** Thomas Gille (Bobigny, France), Sesé Lucile, Eric Aubourg, Emmanuelle E. Fabre, Florence Cymbalista, Caroline Ratnam, Dominique Valeyre, Hilario Nunes, Jean-Paul Richalet, Carole Planès
3766	**Echocardiographic predictors of stress induced right ventricular diastolic dysfunction in non-severe chronic obstructive pulmonary disease** Radostina Cherneva (Sofia, Bulgaria), Dimitur Kostadinov, Zheyna Cherneva

3767	**Autonomic dysfunction, cardio-pulmonary parameters and masked heart failure in non-severe chronic obstructive pulmonary disease** Radostina Cherneva (Sofia, Bulgaria), Dimitur Kostadinov, Zheyna Cherneva
3768	**Assessing cardiocirculatory compensation capacity in COPD: impact of disease severity.** Ruddy Richard (Clermont-Ferrand, France), Aurélien Mulliez, Ludivine Boudieu, Julianne Touron, Frédéric Costes, Tanja Taivassalo, Jean Bourbeau, Wan Tan, Dennis Jensen, Helene Perrault
3769	**Effect of oral sildenafil on physiological and sensory response to exercise in patients with mild-to-moderate COPD** Nathalia Mendes (Porto Alegre, Brazil), Ricardo Gass, Franciele Plachi, Talmir Ribeiro Nolasco, Paulo T Muller, Marli M Knorst, Jose Alberto Neder, Danilo C Berton
3770	**Electrocardiographic changes and cardiac ischemia in lowlanders with COPD travelling to 3100m** Arcangelo Friedrich Carta (Zürich, Switzerland), Michael Furian, Mona Lichtblau, Konstantinos Bitos, Simon Raphael Schneider, Maamed Mademilov, Ulan Sheraliev, Nuriddin H. Marazhapov, Talant Sooronbaev, Konrad Ernst Bloch, Silvia Ulrich
3771	**Physiological phenotypes of COPD: the role of resting lung volumes** J. Alberto Neder (Kingston (ON), Canada), Danilo C. Berton, Mathieu Marillier, Anne-Catherine Bernard, Denis E. O'Donnell
3772	**Obstructive sleep apnea is associated with the presence of coronary collaterals in patients with acute myocardial infarction** Verena Summerer (Wenzenbach, Germany), Stefan Stadler, Henrik Fox, Andrea Hetzenecker, Olaf Oldenburg, Okka Hamer, Florian Zeman, Leonhard Bruch, Mirko Seidel, Stefan Buchner, Michael Arzt
3773	**Discussion**

Channel 4 Session 278 10:40 - 11:40

Oral presentation: The hot and cold of interventional pulmonology

Abstracts presented in this session are also available as E-posters from 24 August 2020

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

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

Chairs : Jouke T. Annema (Amsterdam, Netherlands), Michael Tamm (Basel, Switzerland)

3774	**Introduction**
3775	**Targeted lung denervation in patients with moderate to severe COPD: AIRFLOW-2 crossover patient outcomes.** Pallav L. Shah (London, United Kingdom), Arschang Valipour, Christophe Pison, Christian Schumann, Peter Bonta, Romain Kessler, Wolfgang Gesierich, Kaid Darwiche, Bernd Lamprecht, Dirk Skowasch, Dirk-Jan Slebos
3776	**Pre-treatment lung function decline stabilizes up to 3 year after targeted lung denervation in COPD** Jorine E. Hartman (Groningen, Netherlands), Sonja W.S. Augustijn, Karin Klooster, Nick H.T. Ten Hacken, Dirk-Jan Slebos
3777	**Impact of endoscopic valve therapy on hypercapnia in patients with chronic hypercapnic failure based on a severe lung emphysema** Matthias Rötting (Rodenbach, Germany), Markus Polke, Katharina Kriegsmann, Nilab Sarmand, Ralf Eberhardt, Felix Herth, Daniela Gompelmann
3778	**Endoscopic lung volume reduction with endobronchial valves in very low DLCO patients** Pavlina Lenga (Berlin, Germany), Christian Grah, Christoph Ruwwe-Glösenkamp, Jens-Carsten Rückert, Joachim Pfannschmidt, Stephan Eggeling, Sylke Kurz, Gunda Leschber, Bernd Schmidt, Paul Schneider, Andreas Gebhardt, Birgit Becke, Ralf-Harto Hübner
3779	**Value of Transbronchial Lung Cryobiopsy in Patients Suspicious of Peripheral Lung Cancer** Felix J.F. Herth (Heidelberg, Germany), J Sun, Max Mayer, Jonas Herth, Ralf Eberhardt, Konstantinna Jkontogianni, Lonny Yarmus
3780	**Clinical management implications of histologic information provided by lung biopsy in the multidisciplinary evaluation of interstitial lung diseases.** Sara Tomassetti (Florence, Italy), Mauro Pavone, Claudia Ravaglia, Athol Wells, Carlo Vancheri, Elisabetta Rosi, Alberto Cavazza, Thomas Colby, Giulio Rossi, Jay Ryu, Silvia Puglisi, Antonella Arcadu, Alessandra Dubini, Sara Piciucchi, Federico Lavorini, Venerino Poletti
3781	**A randomised trial of transbronchial mediastinal cryobiopsy for the diagnosis of mediastinal disease** Ye Fan (, China), Felix J.F. Herth, Zan-Sheng Huang, Jie-Ru Guo, Jing Zhang, Wan-Lei Fu

3782	**Discussion**

Channel 5 Session 279 10:40 - 11:40

Oral presentation: Quality improvements in lung function and sleep diagnostics

Abstracts presented in this session are also available as E-posters from 24 August 2020

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

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

Chairs : Karl Sylvester (Cambridge (Cambridgeshire), United Kingdom), Rachel Ong-Salvador (Amsterdam, Netherlands)

3783	**Introduction**
3784	**Quality Improvement in a Sleep Clinic: To increase the capacity and reduce the time to treatment for patients with Obstructive Sleep Apnoea** Peter Coss (Dublin 8, Ireland), Alanna Martin, Orla Gavin, Rebecca Mc Loughlin, Tracey Matthews , Anne Marie Mc Laughlin
3785	**Early effect of Continuous Positive Airway Pressure therapy on Right Ventricular Function in patients with newly diagnosed Obstructive Sleep Apnoea** Peter Coss (Dublin 8, Ireland), Gerard King, Ross Murphy, Ann Marie Mc Laughlin
3786	**Quality control of cardiopulmonary exercise equipment** Tjeu Souren (Utrecht, Netherlands), Erwin De Bliek, Johan Roeykens, Kevin De Soomer, Ellie Oostveen
3787	**An RER of 1.05 should not be used to determine maximal effort during CPET** Max Thomas (Birmingham, United Kingdom), Karl Sylvester
3788	**A comparison of 3 sets of paediatric reference values for Cardio-Pulmonary Exercise Testing using cycle ergometry.** Paul Burns (Glasgow (Glasgow), United Kingdom), James Y Paton
3789	**Deep learning automates complete quality control of spirometric manoeuvre** Nilakash Das (Leuven, Belgium), Kenneth Verstraete, Marko Topalovic, Jean-Marie Aerts, Wim Janssens
3790	**Differences between % predicted and z-score. The impact on severity classification in spirometry.** Ana Silva (Queluz, Portugal), Andreia Descalço, Ângela Martins, Carolina Constant, Teresa Bandeira
3791	**Discussion**

Studio Madrid Session 280 10:40 - 11:40

Symposium: Respiratory diseases in children and adults

Aims : To describe pre- and postnatal early life origins of airway diseases in children and adults; to describe risk factors for the progression of lung disease in patients with cystic fibrosis; and to describe the challenges of lower respiratory tract infections in children and adults.

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

Tag(s) : Clinical

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

Chairs : Marielle W.H. Pijnenburg (Rotterdam, Netherlands), Ernst Eber (Graz, Austria)

10:40	**Introduction**	**3792**
10:45	**The early life origins of asthma** Sejal Saglani (London, United Kingdom)	**3793**
10:55	**The early life origins of chronic obstructive pulmonary disease** Alvar Agusti Garcia-Navarro (Barcelona, Spain)	**3794**
11:05	**Risk factors for progression of cystic fibrosis lung disease from childhood to adulthood** Stephen M. Stick (Perth (WA), Australia)	**3795**
11:15	**Lower respiratory tract infections: challenges in children and adults** Jessica Rademacher (Hannover, Germany)	**3796**
11:25	**Discussion and Q&A**	**3797**

Studio Milan Session 281 10:40 - 11:40

Clinical trials session: ALERT: Pneumothorax, cough, PAH, alveolar proteinosis

Chairs : Reinoud Gosens (Groningen, Netherlands), Otto Chris Burghuber (Wien, Austria)

Discussants : Daiana Stolz (Basel, Switzerland), Marc Humbert (Le Kremlin-Bicêtre, France)

3798	**Introduction**
3799	**Late Breaking Abstract - Randomised trial of ambulatory management of primary spontaneous pneumothorax** Rob Hallifax (Oxford (Oxfordshire), United Kingdom), Rob Hallifax, Edward Mckeown, Parthipan Sivakumar, Ian Fairburn, Christy Peter, Andrew Leitch, Matthew Knight, Andrew Stanton, Azim Ijaz, Stefan Marciniak, James Cameron, Amrithraj Bhatta, Kevin Blyth, Raja Reddy, Marie-Clare Harris, Nadeem Maddekar, Steven Walker, Alex West, Magda Laskawiec-Szkonter, John Corcoran, Stephen Gerry, Corran Roberts, John Harvey, Nick Maskell, Robert Miller, Najib Rahman
3800	**Late Breaking Abstract - Two Phase 3 Randomized Clinical Trials of Gefapixant, a P2X3 Receptor Antagonist, in Refractory or Unexplained Chronic Cough (COUGH-1 and COUGH-2)** Lorcan McGarvey (Belfast, United Kingdom), Lorcan McGarvey, Surinder Birring, Alyn Morice, Peter Dicpinigaitis, Ian Pavord, Jonathan Schelfhout, Allison Martin Nguyen, Qing Li, Anjela Tzontcheva, Beata Iskold, Stuart Green, Carmen La Rosa, David Muccino, Jaclyn Smith
3801	**Wrap-up by discussant and discussion** Daiana Stolz (Basel, Switzerland)
3802	**Late Breaking Abstract - Switching from PDE5i to riociguat in patients with PAH: The REPLACE study** Marius M. Hoeper (Hannover, Germany), Marius M. Hoeper, Hossein-Ardeschir Ghofrani, Hikmet Al-Hiti, Raymond L. Benza, Sung-A Chang, Paul A. Corris, Simon Gibbs, Ekkehard Grünig, Pavel Jansa, James R. Klinger, David Langleben, Vallerie V. Mclaughlin, Gisela Meyer, Jaquelina S. Ota-Arakaki, Andrew Peacock, Tomás Pulido, Stephan Rosenkranz, Dario Vizza, Anton Vonk-Noordegraaf, James White, Mikyung Chang, Frank Kleinjung, Christian Meier, Karen Paraschin, Gérald Simonneau
3803	**Inhaled Molgramostim Therapy in Autoimmune Pulmonary Alveolar Proteinosis (APAP)** Bruce Trapnell (Cincinnati, United States of America), B Trapnell, Y Inoue, F Bonella, C Morgan, S Jouneau, E Bendstrup, I Campo, S A Papiris, E Yamaguchi, E Cetinkaya, M Ilkovich, M Kramer, M Veltkamp, M Kreuter, T Baba, C Ganslandt, I Tarnow, G Waterer, T Jouhikainen
3804	**Wrap-up by discussant and discussion** Marc Humbert (Le Kremlin-Bicêtre, France)

Studio Paris Session 282 10:40 - 11:40

Symposium: Antibiotic resistance: the way forward

A joint ERS/ESCMID symposium

Aims : To describe factors associated with antibiotic resistance and the use of innate immunity to improve antibiotic effectiveness: to determine the optimal dose of antibiotics to eliminate infections and prevent the development and resistance; and to describe methods of eliminating biofilms.

Disease(s) : Respiratory infections

Tag(s) : Translational

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

Chairs : Tobias Welte (Hannover, Germany), Elisabeth H.D. Bel (Amsterdam, Netherlands)

10:40	**Introduction**	**3805**
10:45	**Patient perspective: video** Barbara Crossley (Buxton, United Kingdom)	**3806**
10:50	**Antibiotics kill some but not all pathogens: persistent populations and how they arise** Speaker to be confirmed	**3807**
11:00	**Better diagnostics for targeted antibiotic therapy** Herman Goossens (Edegem (Antwerp), Belgium)	**3808**
11:10	**Improving the innate immune response in respiratory infections: the use of repurposed drugs** Victor Nizet (La Jolla, United States of America)	**3809**
11:20	**Biofilms and how to combat them: examples from cystic fibrosis** Thomas Bjarnsholt (Copenhagen, Denmark)	**3810**

11:30	**Discussion and Q&A**	**3811**

Channel 1 Session 283 11:50 - 12:50

Respiratory medicine meets other disciplines: Breathing disorders and cardiovascular diseases
A joint ESC/ERS session

Aims : To describe the need for intense collaboration among pneumologists, cardiologists and intensive care specialists for the proper care of patients with pulmonary hypertension.

Disease(s) : Pulmonary vascular diseases

Tag(s) : Clinical

Target audience : Adult pulmonologist/Clinician, Respiratory critical care physician, Physician in Pulmonary Training

Chairs : Olivier Sitbon (Le Kremlin-Bicêtre, France), Stephan Rosenkranz (Köln, Germany)

11:50	**Introduction**	**3812**
11:55	**Keeping the kidney and heart in balance: management of end-stage right heart failure** Laurent Savale (Le Kremlin-Bicêtre, France)	**3813**
12:05	**Interventional treatment of pulmonary hypertension: where are we now?** Nazzareno Galiè (Bologna (BO), Italy)	**3814**
12:15	**Journeys to high altitude: risks and recommendations for travellers with/without pre-existing cardiopulmonary conditions** Konrad E. Bloch (Zurich, Switzerland)	**3815**
12:25	**ERS statement on chronic thromboembolic pulmonary hypertension** Marion Delcroix (Leuven, Belgium)	**3816**
12:35	**Discussion and Q&A**	**3817**

Channel 2 Session 284 11:50 - 12:50

Oral presentation: New and integrated tools for respiratory diagnosis and care
Abstracts presented in this session are also available as E-posters from 24 August 2020

Disease(s) : Respiratory critical care Airway diseases

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

Chairs : Nicoletta R. Morelli (Den Haag, Netherlands), Laura Fregonese (London, United Kingdom)

3818	**Introduction**
3819	**A new statistical diagnostic tool for respiratory diseases** Martin Wiegand (Cambridge, United Kingdom), Saralees Nadarajah, Jaclyn Smith, Kimberley Holt, Kevin Mcguinness
3820	**Effectiveness of a breathlessness service for patients suffering from breathlessness in advanced disease: pragmatic fast-track randomized controlled trial** Claudia Bausewein (München, Germany), Michaela Schunk, Lien Le, Zulfiya Syunyaeva, Birgit Haberland, Susanne Tänzler, Ulrich Mansmann, Bergtold Nastassja, Larissa Schwarzkopf , Hildegard Seidl, Streitwieser Streitwieser, Miriam Hofmann, Thomas Müller , Tobias Weiß, Philipp Morawietz , Eva Annette Rehfuess, Rudolf Maria Huber , Ursula Berger
3821	**Efficiency of a home follow-up program after a COPD exacerbation as a way to reduce hospital readmissions** Laura Nuñez Garcia (Madrid, Spain), María De Los Ángeles Zambrano Chacón, Carlos Lopez Chang, Laura De La Dueña Muñoz, Marwan Mohamed Choukri, Itziar Fernández Ormaechea, Diana Sánchez Mellado, Felipe Villar Álvarez
3822	**Healthcare utilization and cost associated with chronic cough in the United Kingdom: a retrospective observational study** Surinder S. Birring (London, United Kingdom), Sarah E. Holden, Sara Jenkins-Jones, Bethan I. Jones, Ellen R. Berni, Vasileia Topaloudi, Craig J. Currie, James H. Hull, Zia Ul-Haq, Haya Langerman
3823	**How do differences in the definition of good quality care affect classification of hospital performance?** Alexander Adamson (London, United Kingdom), Sophie Robinson, C Mike Roberts, Jennifer K Quint, James Calvert
3824	**Lean methodology implemented in pneumology hospitalized patients (Neumolean)** Maria De Los Angeles Zambrano Chacon (MADRID, Spain), Laura Ñúñez García, Diana Sánchez Mellado, Itziar Fernández Ormaechea, Rebeca Armenta Fernández, Teresa Gómez Del Pulgar Murcia, Sandra Pelicano Vizuete, Felipe Villar Álvarez

3825	**Discussion**

Channel 3 Session 285 11:50 - 12:50

Oral presentation: Novel methods, diagnostics and biomarkers of chronic lung diseases

Abstracts presented in this session are also available as E-posters from 24 August 2020

Disease(s) : Airway diseases | Sleep and breathing disorders | Thoracic oncology | Respiratory critical care

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

Chairs : Aurelie Fabre (Dublin 4, Ireland), Arnaud Mailleux (Paris, France)

3826	**Introduction**
3827	**Differential mast cell activation by transcriptomic signature analysis in the U-BIOPRED severe asthma cohort** Angelica TIOTIU (Nancy, France), Yusef Badi, Nazanin Zounemat Kermani, Phillip Hansbro, Craig Wheelock, Sven-Erik Dahlen, Yi-Ke Guo, Peter Sterk, Ratko Djukanovic, Ian Adcock, Fan Kian Chung
3828	**Alteration of Plasma Exosome Content in Acute Respiratory Distress Syndrome: a miRNA signature associated to lung fibrosing process.** Gilles Parzibut (Liege, Belgium), Julien Guiot, Benoit Misset, Michel Malaise, Renaud Louis, Edouard Louis, Monique Henket, Catherine Moermans, Sebastien Njock
3829	**Profiling of airway epithelial proteome reveals sex differences in early stage COPD linked to xenobiotic metabolism and ER stress** Åsa Wheelock (Stockholm, Sweden), Tina Heyder, Mingxing Yang, Maxie Kohler, Heta Merikallio, Helena Forsslund, Chuan-Xing Li, Reza Karimi, Johan Grunewald, Riitta Kaarteenaho, Carina Sihlbom, C. Magnus Skold
3830	**Impact of histaminergic H3 receptor antagonist on hypoglossal nucleus in chronic intermittent hypoxia conditions** Liang Xie (Shanghai, China), Shanqun Li
3831	**Differentiation of NSCLC patients and healthy controls by a urinary microRNA panel** Aniek J.M. Wilke - Raamsteeboers (Enschede, Netherlands), C.G.M. Groothuis-Oudshoorn, A.G.J. De Moor , J.A.M. Van Der Palen, J. De Rooij, E. Citgez
3832	**LSC - 2020 - Transcriptome signatures of tobacco carcinogens hint the alteration of TAF6 as a specific feature i n smokers lung cancer** Mario Pepe, Anne-Sophie Lamort, Georgos Stathopoulos
3833	**Discussion**

Channel 4 Session 286 11:50 - 12:50

Challenging clinical cases: Interstitial lung diseases

Aims : To describe the history, pathology, analysis and treatment of complex clinical cases in respiratory critical care. The session leaders will facilitate discussions among the case presenters and audience.

Disease(s) : Interstitial lung diseases

Tag(s) : Clinical

Target audience : Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Respiratory critical care physician, Thoracic oncologist, Thoracic surgeon, Nurse, Radiologist

Chairs : Michael Kreuter (Heidelberg, Germany), Maria Molina Molina (Barcelona, Spain)

11:50	**Introduction**	**3834**
11:55	**A challenging complex complication in common variable immune deficiency** Sabine Zimmermann (Sydney (NSW), Australia)	**3835**
12:01	**Discussion and Q&A**	**3836**
12:06	**Granulomatous lung disease in lymphoma patient after rituximab treatment** Piotr Janowiak (Gdańsk, Poland)	**3837**
12:12	**Discussion and Q&A**	**3838**
12:17	**A crazy conundrum** Nazia Imambaccus (London, United Kingdom)	**3839**
12:23	**Discussion and Q&A**	**3840**

12:28	**A rare cause of recurrent pneumothorax** João Oliveira Pereira (Coimbra, Portugal)	**3841**
12:34	**Discussion and Q&A**	**3842**
12:39	**Pleural effusion in Niemann Pick Disease - associated Interstitial Lung Disease** Emma Boynton (Cambridge, United Kingdom)	**3843**
12:45	**Discussion and Q&A**	**3844**

Channel 5 Session 287 11:50 - 12:50

Oral presentation: Workplace and outdoor air quality: from sensitisation to social media

Abstracts presented in this session are also available as E-posters from 24 August 2020

Disease(s) : Airway diseases Pulmonary vascular diseases Interstitial lung diseases

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

Chairs : David Fishwick (Sheffield (South Yorkshire), United Kingdom), Rafael E. de la Hoz (New York, United States of America)

3845	**Introduction**	
3846	**The mediating role of lung function on air pollution-induced cardiopulmonary mortality** Andrea Dalecka (Ostrava, Czech Republic), Claudia Wigmann, Hicran Altug, Sara Kress, Vítězslav Jiřík, Joachim Heinrich, Michael Abramson, Tamara Schikowski	
3847	**Foetal exposure to heavy metals and risk of asthma and allergic diseases in early childhood: a population-based birth-cohort study** Isabella Annesi Maesano (Paris, France), Giancarlo Pesce, Nour Baiz, Guy Huel	
3848	**Change in body mass index and expiratory flow in World Trade Center workers** Rafael E. de la Hoz (New York, United States of America), Amaal Alruwaily, Akshay Sood, Xiaoyu Liu, John Doucette, Yunho Jeon, Juan Celedón	
3849	**Exposure-response relationships for platinum salt sensitization in platinum refinery workers: a 17-year retrospective study** Lidwien A.M. Smit (Utrecht, Netherlands), José Jacobs, Lützen Portengen, Juliete Da Silva, Dick Heederik, Frits Van Rooy, Remko Houba	
3850	**Occupational exposure and new onset asthma in the Telemark study: a five-year follow up.** Nikola Zivadinovic (Skien, Norway), Geir Klepaker, Martin Veel Svendsen, Toren Kjell, Paul Henneberger, Johny Kongerud, Anne Kristin Møller Fell	
3851	**IPF risk: two's company, three's a crowd? Asbestos exposure, cigarette smoke, and MUC5B promoter polymorphism rs35705950. Findings from the idiopathic pulmonary fibrosis job exposures study (IPFJES).** Carl Reynolds (London, United Kingdom), Vyshnavi Thanaraaj, Rupa Sisodia, Chris Barber, Paul Cullinan	
3852	**Using digital and social media to highlight the risks of occupational exposures as a cause of lung diseases** David Fishwick (Sheffield (South Yorkshire), United Kingdom), Emma Thompson, Dick Heederik, Martie Van Tongeren, Sara De Matteis, Saskia Weldam, Jade Sumner, Dan Smyth, Ewelina Szmytke, Paul Blanc, Pippa Powell	
3853	**Discussion**	

Studio Madrid Session 288 11:50 - 12:50

Symposium: Which paediatric asthma guidelines are the most appropriate for children and adolescents?

Aims : To describe the evidence supporting current international guidelines on treatment of children with asthma steps 1–3 and the dependence of this evidence on healthcare settings; and to describe evidence for individualised/stratified treatment in childhood asthma.

Disease(s) : Airway diseases Paediatric respiratory diseases

Method(s) : General respiratory patient care

Tag(s) : Clinical

Target audience : Clinical researcher, General practitioner, Respiratory therapist, Medical Student, Nurse, Paediatrician, Patient

Chairs : Marielle W.H. Pijnenburg (Rotterdam, Netherlands), Ernst Eber (Graz, Austria)

11:50	**Introduction**	**3854**

11:55	**Low dose inhaled corticosteroids (ICS) and short-acting beta-agonists (SABA) or long-acting beta-agonists (LABA) need in children and adolescents with asthma steps 1 and 2: what is the evidence?** Louise Fleming (London, United Kingdom)	**3855**
12:05	**Asthma treatment in step 3: the cases for adding LABA or doubling ICS** Stephen Turner (Aberdeen (Aberdeenshire), United Kingdom)	**3856**
12:15	**Comorbidities in asthma: the role of obesity in children with asthma** Erick Forno (Pittsburgh, United States of America)	**3857**
12:25	**From guidelines to personalized treatment of children with asthma** James Y. Paton (Glasgow (Glasgow), United Kingdom)	**3858**
12:35	**Discussion and Q&A**	**3859**

Studio Milan — Session 289 — 11:50 - 12:50

Symposium: Lung cancer screening: are we back to the individualised decision-making process?

Ground glass opacities, subsolid and part-solid nodules: have we returned to individualised decisions about and management of pulmonary nodules?

Aims : To describe the morphology of suspicious nodules and the clinical factors associated with lung cancer risk; and to evaluate the latest guidelines on a multidisciplinary approach to early lung cancer diagnosis and treatment.

Disease(s) : Thoracic oncology

Method(s) : Endoscopy and interventional pulmonology Imaging Surgery

Tag(s) : Clinical

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

Chairs : Reinoud Gosens (Groningen, Netherlands), Otto Chris Burghuber (Wien, Austria)

11:50	**Introduction**	**3860**
11:55	**The new perspectives in chest imaging: back to the future?** Hans-Ulrich Kauczor (Heidelberg, Germany)	**3861**
12:05	**The influence of nodule evaluation on management recommendations** Georgia Hardavella (Athens, Greece)	**3862**
12:15	**Sublobar resections vs lobectomy for early stage lung cancer: where do we stand?** René Horsleben Petersen (Copenhagen, Denmark)	**3863**
12:25	**The role of robotic surgical management in early stage lung cancer** Gulia Veronesi (Milan, Italy)	**3864**
12:35	**Discussion and Q&A**	**3865**

Studio Paris — Session 290 — 11:50 - 12:50

Journal session: The European Respiratory Journal editor's view: our best papers of last year

Aims : To present the best papers published in 2019–2020 in the European Respiratory Journal (ERJ) in the fields of paediatric pulmonology, pulmonary infections, thoracic oncology and airways diseases; and to provide experts' opinions about the importance of these articles.

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

Tag(s) : Clinical

Target audience : Adult pulmonologist/Clinician, Clinical researcher, Paediatrician, Physician in Pulmonary Training, Thoracic oncologist

Chairs : Elisabeth H.D. Bel (Amsterdam, Netherlands), Tobias Welte (Hannover, Germany)

11:50	**Introduction** Martin Kolb (Hamilton (ON), Canada)	**3866**
11:55	**The best papers in the ERJ: infectious diseases in the respiratory system** Grant Waterer (Perth (WA), Australia)	**3867**
12:05	**The best papers in the ERJ: paediatric pulmonary diseases** Claudia E. Kuehni (Bern, Switzerland)	**3868**

12:15	**The best papers in the ERJ: chronic airways diseases, including asthma and COPD** Mina Gaga (Athens, Greece)	**3869**
12:25	**The best papers in the ERJ: malignant thoracic disorders** Jose Porcel (Lleida, Spain)	**3870**
12:35	**Discussion and Q&A**	**3871**
12:45	**Conclusion** Martin Kolb (Hamilton (ON), Canada)	**3872**

Studio Vienna Session 291 11:50 - 12:50

Lungs on fire: Airway diseases?

Aims : To describe real-life clinical cases during the innovative interactive session, including the presentation of cases that have various levels of difficulty and often necessitate a differential diagnosis. This session will be led by a discussant, who will present the cases to a panel of experts and the audience. The discussant will encourage discussion among the panel of experts, who are encountering these cases for the first time. To further determine diagnostic and therapeutic options for these patients, the discussant will also invite audience participation in the reflexion and discussion of these cases.

Disease(s) : Airway diseases

Tag(s) : Clinical

Target audience : Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Paediatrician, Nurse, Radiologist, Respiratory critical care physician, Respiratory physiotherapist

Chairs : Daiana Stolz (Basel, Switzerland), Christopher E. Brightling (Leicester (Leicestershire), United Kingdom), Torsten Gerriet Blum (Berlin, Germany)

Discussants : Dave Singh (Manchester, United Kingdom)

	Case 1 - Author: Lennart H. Conemans (Netherlands)	**3873**
	Discussion and Q&A	**3874**
	Case 2 - Author: Anna Trojnar (Poland)	**3875**
	Discussion and Q&A	**3876**
	Case 3 - Author: Abdul Majeed Arshad (India)	**3877**
	Discussion and Q&A	**3878**
	Case 4 - Author: Yuri De Deus Montalverne Parente (Brazil)	**3879**
	Discussion and Q&A	**3880**
11:50	**Introduction**	**3881**
11:52	**Presentation of cases by the session facilitator** Dave Singh (Manchester, United Kingdom)	**3882**

13:15-14:15
INDUSTRY DEVICE MINI SYMPOSIA SEE PAGE 1

13:15-14:15
INDUSTRY LUNCHTIME SYMPOSIUM SEE PAGE 1

Studio Vienna Session 301 14:20 - 15:20

Symposium: Severe thoracic sarcoidosis : where do we stand ?

Aims : to provide an overview of severe thoracic sarcoidosis, from basic research to clinical management, with a focus on most recent data on two severe complications: pulmonary fibrosis and cardiac involvement

Disease(s) : Interstitial lung diseases

Method(s) : General respiratory patient care

Tag(s) : Clinical

Target audience : Adult pulmonologist/Clinician, Clinical researcher, Scientist (basic, translational)

Chairs : Richard Costello (Dublin 9, Ireland), Katerina Antoniou (Heraklion, Greece), Marc Humbert (Le Kremlin-Bicêtre, France)

14:20	**Introduction**	**3925**
14:25	**Pathogenesis of pulmonary fibrosis in sarcoidosis** Jan C. Grutters (Nieuwegein, Netherlands)	**3926**
14:35	**Genetic and non-genetic risk factors for severe pulmonary sarcoidosis** Paolo Spagnolo (Padova (PD), Italy)	**3927**
14:50	**Severe pulmonary sarcoidosis: definition and risk stratification** Daniel Culver (Cleveland, United States of America)	**3928**
14:55	**Management of cardiac sarcoidosis** Vasileios Kouranos (London, United Kingdom)	**3929**
15:10	**Discussion and Q&As**	**3930**

Channel 1 Session 302 14:30 - 15:30

Joint session: Updates in cystic fibrosis

A joint ERS/ECFS symposium

Aims : To give an update about scientific and clinical development in different aspects of cystic fibrosis (CF) over the last 12 months; to present the major updates in treatment of cystic fibrosis patients to non-CF specialists.

Disease(s) : Paediatric respiratory diseases Respiratory infections

Chairs : Stefano Aliberti (Milano (MI), Italy), Susan Madge (London, United Kingdom)

14:30	**Introduction**	**3931**
14:35	**Update on management of lung infection in cystic fibrosis** Patrick Flume (Charleston, United States of America)	**3932**
14:45	**Update on pancreatic and liver disease in cystic fibrosis** Philippe Sogni (Paris, France)	**3933**
14:55	**Living with cystic fibrosis: challenges in treatment adherence and social emotional well-being** Mandy Bryon (London, United Kingdom)	**3934**
15:05	**Update on new treatments for cystic fibrosis** Damian Downey (Belfast, Ireland)	**3935**
15:15	**Discussion and Q&A**	**3936**

Channel 2 Session 303 14:30 - 15:30

Oral presentation: Biological aspects of lung cancer

Abstracts presented in this session are also available as E-posters from 24 August 2020

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

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

Chairs : Jacques Cadranel (Paris Cedex 20, France), Ilona Tietzova (Praha, Czech Republic)

3937	**Late Breaking Abstract - Induction of the transcriptional repressor B lymphocytes-induced maturation protein-1 (Blimp-1) in lung cancer** Susetta Finotto (Erlangen, Germany), Laura Neurath, Denis Trufa, Carol Geppert, Ralf Rieker, Horia Sirbu	
3938	**Late Breaking Abstract - Transient Receptor Potential Vanilloid subtype 4 in patients with lung cancer** Ieva Bajoriuniene (Kaunas, Lithuania), Vytis Bajoriunas, Edgaras Stankevicius	

3939	**Late Breaking Abstract - Anaplastic Lymphoma Kinase inhibition as an effective treatment strategy against the enhanced lung carcinogenesis and cancer angiogenesis related to decreased PTPRZ1 expression** Despoina Ntenekou (Patra, Greece), Pinelopi Kastana, Maria Hatziapostolou, Christos Polytarchou, Antonia Marazioti, Sophia Nikou, Gonzalo Herradon, Eleni Papadaki, Georgios Stathopoulos, Constantinos M. Mikelis, Evangelia Papadimitriou
3940	**LSC - 2020 - Comprehensive characterization of the immune landscape within different molecular subtypes of smal l cell lung cancer (SCLC)** Angel Nuñez Buiza (Madrid, Spain)
3941	**Prediction of long-term effect of anti-angiogenic therapy in lung cancer patients by monitoring early changes in circulating-tumor DNA (ctDNA).** Barbora Belsanova (, Czech Republic), Miloš Pešek, Benesova Lucie, Martin Svatoň, Renata Ptackova, Ondrej Fiala, Masrek Minarik
3942	**Long-term prognosis of patients with cancer-related mutations in non-tumoral lung.** Roberto Chalela (Barcelona, Spain), Karys Khilzi, Joaquín Gea, Albert Sánchez-Font, Lara Pijuan, Jose Gregorio González-García, Diana Badenes-Bonet, Beatriz Bellosillo, Víctor Curull
3943	**Interactions of lung cancer with adipose and muscle tissue in the development of cancer cachexia** Armin Frille (Leipzig, Germany), Nicolas Linder, Johanna Pappisch, Teresa Kerkhoff, Jonas Meyer, Hartmut Kuhn, Claudia Hänel, Harald Busse, Karen Geva Steinhoff, Michael Rullmann, Thomas Ebert, Sebastian Krämer, Johannes Broschewitz, Osama Sabri, Swen Hesse, Hans-Jürgen Seyfarth, Hubert Wirtz
3944	**Role of extracellular vesicles in chemotherapy-induced lung metastasis** Nahal Mansouri (Boston, United States of America), Ioanna Keklikoglou, Sina Nassiri, Bruno Torchia, Alan Guichard, Michele De Palma
3945	**Exosomes from Intermittent Hypoxia Treated Lung Adenocarcinoma Cell Line Up-regulate Programmed Death Ligand 1 Expression through HIF-1a Pathway in Macrophages** yuanling liu (GuangZhou, China), Xinglin Gao, Minzhen Lu, Jianan Chen, Siqi Li
3946	**Introduction**
3947	**Discussion**

Channel 3 Session 304 14:30 - 15:30

Oral presentation: Respiratory physiology and sleep: from neonates to adults

Abstracts presented in this session are also available as E-posters from 24 August 2020

Disease(s) : Sleep and breathing disorders

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

Chairs : Refika Hamutcu Ersu (Ottawa, Canada), Nicole Beydon (Paris, France)

3948	**Introduction**
3949	**Lung function in extremely preterm born adults over three decades** Tonje Bårdsen (Bergen, Norway), Merete Benestad, Ola Røksund, Hege Clemm, Ingvild Mikalsen, Knut Øymar, Thomas Halvorsen, Maria Vollsæter
3950	**Development of lung function in “healthy” preterm infants during the first six years of life.** Laura Camats Marsol (SAN SEBASTIÁN, Spain), Inés De Mir Mesa, Olaia Sardón Prado, Paula Corcuera Elosegui, Ignacio Iglesias Serrano, Sandra Rovira Amigó, Javier Korta Murua, Antonio Moreno Galdó
3951	**Impact of obstructive sleep apnea and obesity on endothelial dysfunction in children** Emilie Mylemans (Berchem, Belgium), Sofie Jacobs, Eline Vermeiren, Kim Van Hoorenbeeck, Ann De Guchtenaere, Annelies Van Eyck, Stijn Verhulst
3952	**Fluctuation analysis of FEV1 in healthy children and adolescents: the effect of age** Sotirios Fouzas (Patras, Greece), Eirini Sofia Frima, Ilias Theodorakopoulos, Dimos Gidaris, Nikolaos Karantaglis, Grigorios Chatziparasidis, Panagiotis Plotas, Ioannis Giannakopoulos, Michael Anthracopoulos, Urs Frey
3953	**Does the mode of delivery influence respiratory outcomes in the first year of life?** Yasmin Salem Mahmoud (Bern, Switzerland), Marc-Alexander Oestreich, Philipp Latzin, Kathryn Ramsey, Sophie Yammine
3954	**Volumetric capnography: a promising lung function test in cystic fibrosis?** Anne-Christianne Kentgens (Bern, Switzerland), Olga Lagiou, Bettina Sarah Frauchiger, Florian Wyler, Ilias Theodorakopoulos, Sophie Yammine, Sotirios Fouzas, Philipp Latzin

3955	**Discussion**	

Channel 4 Session 305 14:30 - 15:30

Challenging clinical cases: Respiratory infections

Aims : To describe the history, pathology, analysis and treatment of complex clinical cases in respiratory critical care. The session leaders will facilitate discussions among the case presenters and audience.

Disease(s) : Respiratory infections

Tag(s) : Clinical

Target audience : Adult pulmonologist/Clinician, Respiratory critical care physician, General practitioner, Clinical researcher, Paediatrician, Thoracic surgeon, Nurse, Respiratory physiotherapist

Chairs : Eva Polverino (Barcelona, Spain), Gernot G.U. Rohde (Frankfurt am Main, Germany)

14:30	**Introduction**	**3956**
14:35	**ARDS- an unusual complication of mumps** Neeraj Sharma (Kolkata, India)	**3957**
14:41	**Discussion and Q&A**	**3958**
14:46	**An unexpected association** Ana Catarina Gouveia Cardoso (Vila Nova de Famalicão, Portugal)	**3959**
14:52	**Discussion and Q&A**	**3960**
14:57	**Dyspnea and pulselessness: an unusual combo** Umang Arora (New Delhi, India)	**3961**
15:03	**Discussion and Q&A**	**3962**
15:08	**A rare cause of bronchiectasis** Claudio Tirelli (Vaiano Cremasco (CR), Italy)	**3963**
15:14	**Discussion and Q&A**	**3964**
15:19	**Successful management of a patient with triple infection (MDR-TB/HIV/HCV) using new WHO recommendations** Aliaksandr Skrahin (Minsk, Belarus)	**3965**
15:25	**Discussion and Q&A**	**3966**

Channel 5 Session 306 14:30 - 15:30

Oral presentation: Updated assessment and treatment of pulmonary arterial hypertension

Abstracts presented in this session are also available as E-posters from 24 August 2020

Disease(s) : Pulmonary vascular diseases

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

Chairs : Marius M. Hoeper (Hannover, Germany), Sean Gaine (Dublin, Ireland)

3967	**Introduction**
3968	**Combination therapy with sotatercept analog RAP-011 is superior to sildenafil alone in severe experimental PAH and RAP-011 benefits persist after treatment cessation** SACHINDRA JOSHI (Cambridge, United States of America), Jun Liu, R. Scott Pearsall, Patrick Andre, Gang Li, Raviindra Kumar
3969	**Long-term outcomes with initial triple oral therapy in pulmonary arterial hypertension (PAH): Insights from TRITON** Olivier Sitbon (Le Kremlin-Bicêtre, France), Nazzareno Galiè, Martin Doelberg, J Simon R Gibbs, Marius M Hoeper, Mylene Stefani, Stephen C Mathai, Vallerie Mclaughlin, Loïc Perchenet, Gérald Simonneau, Kelly Chin

3970	**Long-term outcomes in incident pulmonary arterial hypertension (PAH) patients initiated with triple combination therapy including parenteral prostacyclin (PGI2)** Athénaïs Boucly (Le Kremlin Bicètre, France), Audrey Baron, Laurent Savale, Xavier Jaïs, François Picard, Vincent Cottin, Emmanuel Bergot, Claire Dauphin, Arnaud Bourdin, Ari Chaouat, Pascal Roblot, Céline Chabanne, Grégoire Prévot, Laurent Bertoletti, David Montani, Gérald Simonneau, Marc Humbert, Olivier Sitbon	
3971	**REPAIR: long-term effects of macitentan on the right ventricle (RV) in pulmonary arterial hypertension (PAH)** David Kiely (Sheffield (South Yorkshire), United Kingdom), Emmanuelle Cottreel, Nazzareno Galiè, J. Tim Marcus, Andrew Peacock, Stephan Rosenkranz, Andrew J Swift, Ahmed Tawakol, Adam Torbicki, Anton Vonk Noordegraaf, Graham Wetherill, Richard Channick	
3972	**Standardised exercise training is feasible, safe and effective in pulmonary arterial and chronic thromboembolic pulmonary hypertension - results from a large European multicentre randomised controlled trial** Christina Eichstaedt (Heidelberg, Germany), Ekkehard Grünig, Alison Mackenzie, Andrew J. Peackock, Nicola Benjamin, Robert Nechwatal, Silvia Ulrich, Stéphanie Saxer, Maurizio Bussotti, Marinella Sommaruga, Stefano Ghio, Lina Gumbiene, Egle Palevičiūtė, Elena Jurevičienė, Antonio Cittadini, Anna A. Stanziola, Alberto M. Marra, Gabor Kovacs, Horst Olschewski, Joan-Albert Barberà, Isabel Blanco, Martijn A. Spruit, Frits M.E. Franssen, Anton Vonk Noordegraaf, Abílio Reis, Mário Santos, Sofia Goncalves Viamonte, Heleen Demeyer, Marion Delcroix, Eduardo Bossone, Martin Johnson	
3973	**EmPHasis-10 health-related quality of life score predicts outcomes in patients with idiopathic and connective tissue disease-associated pulmonary arterial hypertension: results from a UK multi-centre study** Robert A. Lewis (Sheffield (South Yorkshire), United Kingdom), Iain Armstrong, Carmel Bergbaum, Melanie J Brewis, John Cannon, Athanasios Charalampopoulos, A Colin Church, J Gerry Coghlan, Rachel Davies, Konstantinos Dimopoulos, Charlie Elliot, J Simon R Gibbs, Wendy Gin-Sing, Gulam Haji, Abdul G Hameed, Luke S Howard, Martin K Johnson, Aleksander Kempny, David G Kiely, Francesco Lo Giudice, Colm Mccabe, Oyinkansola Peleyeju, Joanna Pepke-Zaba, Gary Polwarth, Laura Price, Ian Sabroe, Benjamin E Schreiber, Karen Sheares, Dolores Taboada, A A Roger Thompson, Mark R Toshner, Ivy Wanjiku, S John Wort, Janelle Yorke, Robin Condliffe	
3974	**In-depth risk stratification in pulmonary arterial hypertension** Athiththan Yogeswaran (Giessen, Germany), Khodr Tello, Natascha Sommer, Hossein Ardeschir Ghofrani, Werner Seeger, Manuel Jonas Richter, Henning Gall	
3975	**Discussion**	

Studio Madrid Session 307 14:30 - 15:30

Journal session: New technologies for the management of COPD and obstructive sleep apnea and the diagnosis of lung cancer

Highlights from JAMA and the JAMA Network

Aims : To review 1) recent advances in surgical approaches to the treatment of obstructive sleep apnea; 2) recent advances in blood biomarkers in the diagnosis of lung cancer; 3) recent clinical trial evidence on the benefits and risks of in-home noninvasive ventilation for severe COPD.

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

Tag(s) : Clinical

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

Chairs : Anita Simonds (London, United Kingdom), Anh Tuan Dinh-Xuan (Paris, France)

14:30	**Introduction** George O'Connor (Boston, United States of America)	3976
14:35	**Surgical approaches to the treatment of obstructive sleep apnea** Stuart MacKay (Wollongong, Australia)	3977
14:50	**Home noninvasive positive pressure ventilation for severe COPD** Claudia Dobler (Coogee, Australia)	3978
15:05	**Discussion and Q&As**	3979
15:25	**Conclusion** George O'Connor (Boston, United States of America)	3980

Studio Milan Session 308 14:30 - 15:30

Symposium: Image-based guidelines and recommendations in respiratory diseases

Aims : To describe how to use guidelines and recommendations in the management of screen-based and incidentally identified nodules and how to use revised guidelines to evaluate the results of high-resolution computed tomography (HRCT) in the diagnosis of idiopathic pulmonary fibrosis (IPF) and its place in the clinical work-up of patients with this disease; and to describe the use of appropriate imaging modalities in the staging of lung cancer and in the diagnosis of pulmonary embolism and pulmonary hypertension.

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

Method(s) : General respiratory patient care | Imaging

Tag(s) : Clinical

Target audience : Adult pulmonologist/Clinician, General practitioner, Respiratory therapist, Medical Student, Nurse, Paediatrician, Pathologist, Radiologist, Respiratory critical care physician, Thoracic oncologist, Thoracic surgeon

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

14:30	**Introduction**	**3981**
14:35	**Incidental or screen based findings of pulmonary nodules: what to do?** Adriana Dubbeldam (Nieuwrode, Belgium)	**3982**
14:45	**Revised diagnostic criteria for idiopathic pulmonary fibrosis** Athol Wells (London, United Kingdom)	**3983**
14:55	**Logical use of imaging modalities in lung cancer staging** Walter De Wever (Leuven, Belgium)	**3984**
15:05	**Image-based recommendations for the evaluation of pulmonary embolism and arterial hypertension: what? when? how?** Martine Remy-Jardin (Lille, France)	**3985**
15:15	**Discussion and Q&A**	**3986**

Studio Paris Session 309 14:30 - 15:30

Symposium: Lung health and respiratory function at all ages

Aims : To describe methods of enhancing lung health and respiratory function at all ages, from neonates to the elderly; to describe new techniques for assessing respiratory function; and to evaluate respiratory physiology in the context of human airway anatomy and its use in assessing respiratory function and lung health in patients.

Disease(s) : Airway diseases | Paediatric respiratory diseases | Respiratory critical care

Tag(s) : Clinical

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

Chairs : Thomas Geiser (Bern, Switzerland), Daiana Stolz (Basel, Switzerland)

14:30	**Introduction**	**3987**
14:35	**ERS statement: Global Lung Function Initiative (GLI): Deriving global multi-ethnic reference values for the measurement of lung volumes** Sanja Stanojevic (Halifax (NS), Canada)	**3988**
14:45	**The evolution of respiratory function testing in paediatric lung diseases** Laura Graciela Gochicoa Rangel (Ciudad de México, Mexico)	**3989**
14:55	**Challenging spirometry with newer lung function tests in adults** Omar S. Usmani (London, United Kingdom)	**3990**
15:05	**Applying new respiratory function technologies to the elderly and the potential of future lung regeneration** Andrea Aliverti (Milan, Italy)	**3991**
15:15	**Discussion and Q&A**	**3992**

Studio Vienna Session 310 15:30 - 16:30

Lungs on fire: Interstitial lung diseases?

Aims : To describe real-life clinical cases during the innovative interactive session, including the presentation of cases that have various levels of difficulty and often necessitate a differential diagnosis. This session will be led by a discussant, who will present the cases to a panel of experts and the audience. The discussant will encourage discussion among the panel of experts, who are encountering these cases for the first time. To further determine diagnostic and therapeutic options for these patients, the discussant will also invite audience participation in the reflexion and discussion of these cases.

Disease(s) : Interstitial lung diseases | Airway diseases | Pulmonary vascular diseases

Tag(s) : Clinical

Target audience : Adult pulmonologist/Clinician, Thoracic surgeon, Thoracic oncologist, General practitioner, Paediatrician, Nurse, Clinical researcher, Radiologist, Respiratory critical care physician

Chairs : Richard Costello (Dublin 9, Ireland), Katerina Antoniou (Heraklion, Greece), Marc Humbert (Le Kremlin-Bicêtre, France)

Discussants : Nazia Chaudhuri (Manchester (Greater Manchester), United Kingdom)

	Case 1 - Author: Hebatallah Hany Assal (Egypt)	**3993**
	Discussion and Q&A	**3994**
	Case 2 - Author: Neel Thakkar (India)	**3995**
	Discussion and Q&A	**3996**
	Case 3 - Autho: João Oliveira Pereira (Portugal)	**3997**
	Discussion and Q&A	**3998**
	Case 4 - Author: Oleh Yakovenko (Ukraine)	**3999**
	Discussion and Q&A	**4000**
15:30	**Introduction**	**4001**
15:32	**Presentation of cases by the session facilitator** Nazia Chaudhuri (Manchester (Greater Manchester), United Kingdom)	**4002**

Channel 1 — Session 311 — 15:40 - 16:40

Symposium: European Reference Network for rare lung diseases (ERN-LUNG): acting for improved cross-border management of rare diseases

Disease(s) : Airway diseases | Interstitial lung diseases | Pulmonary vascular diseases

Tag(s) : Clinical

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

Chairs : Marlies S. Wijsenbeek (Rotterdam, Netherlands), Vincent Cottin (Lyon, France)

15:40	**Introduction**	**4003**
15:45	**ERN-lung report from the network coordination team** Gernot G.U. Rohde (Frankfurt am Main, Germany)	**4004**
15:54	**Phenotypic Spectrum in Primary Ciliary Dyskinesia** Heymut Omran (Münster, Germany)	**4005**
16:03	**Genomically-guided therapies: a new era for cystic fibrosis** Marcus Mall (Berlin, Germany)	**4006**
16:12	**Why should we care for the vessels in interstitial lung disease?** Horst Olschewski (Graz, Austria)	**4007**
16:21	**Immundefects, rare pulmonary infections and rare lung diseases** John R Hurst (London, United Kingdom)	**4008**
16:30	**Discussion and Q&A**	**4009**

Channel 2 — Session 312 — 15:40 - 16:40

Oral presentation: Diagnosis and management of airways disease in primary care

Abstracts presented in this session are also available as E-posters from 24 August 2020

Disease(s) : Sleep and breathing disorders Airway diseases

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

Chairs : Janwillem W. H. Kocks (Groningen, Netherlands), Hanna Sandelowsky (Vendelso, Sweden)

4010	**Introduction**
4011	**The association between lung function in adults and future burden of obstructive lung diseases in a long-term follow-up** Anders Løkke (Højbjerg, Denmark), Lene Maria Ørts, Bodil Hammer Bech, Torsten Lauritzen, Anders Helles Carlsen, Annelli Sandbæk
4012	**The majority of patients that suffer an asthma attack at the Emergency Room (ER) are mild asthmatics** Zafeiria Barmparessou (Athens, Greece), Aliki Korkontzelou, Marios Ioannou, Nikos Vichos, Margarita Gkotsina, Katerina Mprinia, Vasiliki Saltagianni, Timoleon Giannakas, Vassilis Giannakoulis, Nikolaos Athanasiou, Archontoula Antonoglou, Sotiris Kakavas, Stavroula Boulia, Georgios Boulbasakos, Sophia Gida, Sofia Pappa, Efthimios Zervas, Ioannis Kalomenidis, Paraskevi Katsaounou
4013	**“I don’t think there’s a simple way of doing it:” the use of an electronic alert to identify excessive prescribing of short-acting beta2-agonists for people with asthma – a qualitative study with asthma experts and primary care staff** Shauna McKibben (London, United Kingdom), Andy Bush , Mike Thomas , Chris Griffiths
4014	**Negotiating identity: impact on self-management practices in people with asthma and limited health literacy in Malaysia** Hani Salim (Selangor, Malaysia), Ingrid Young, Sazlina Shariff Ghazali, Ping Yein Lee, Hilary Pinnock
4015	**The impact of different valved holding chambers (VHCs) on lung drug delivery: using functional respiratory imaging (FRI) and a single metered dose inhaler (MDI) type** Jason Suggett (London (ON), Canada), Vlad Kushnarev, Cedric Van Holsbeke, Stien Van Steen, Benjamin Mignot
4016	**Comparison of first experience with different inhalers in COPD: a cross-over study** Hadeer S. Harb (Beni-Suef, Egypt), Nabila Ibrahim Laz, Hoda Rabea, Mohamed E.A. Abdelrahim
4017	**Identification of important respiratory research themes relevant to primary care: qualitative analysis of round 1 of the 2020 International Primary Care Respiratory Group (IPCRG) Research Prioritisation Exercise** Arwa Abdel-Aal (Hull, United Kingdom), Rachel Jordan, Peymané Adab , Rachel Adam, Amanda Barnard , Izolde Bouloukaki , Job Fm Van Boven , Niels Chavannes , Andy Dickens, Frederik Van Gemert, Mercedes Escarrer, Shamil Haroon, Alex Kayongo , Bruce Kirenga, Janwillem Kocks, Daniel Kotz , Karin Lisspers, Chris Newby, Cliodna Mcnulty, Esther Metting, Luis Moral, Sophia Papadakis, Hilary Pinnock, David Price , Dermot Ryan, Sally Singh , Jaime Correia De Sousa, Björn Ställberg , Stanley J. Szefler , Steph Taylor , Ioanna Tsiligianni , Alice Turner , David Weller, Siân Williams
4018	**Discussion**

Channel 3 Session 313 15:40 - 16:40

Oral presentation: Hot topics in paediatric asthma

Abstracts presented in this session are also available as E-posters from 24 August 2020

Disease(s) : Airway diseases

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

Chairs : Angela Zacharasiewicz (Wien, Austria), Erol Gaillard (Leicester (Leicestershire), United Kingdom)

4019	**Introduction**
4020	**Diagnosis of asthma in children: findings from the Swiss Paediatric Airway Cohort** Carmen de Jong (Bern, Switzerland), Eva S L Pedersen, Rebeca Mozun, Dominik Mueller-Suter, Anja Jochmann, Florian Singer, Carmen Casaulta, Nicolas Regamey, Alex Moeller, Cristina Ardura-Garcia, Claudia E Kuehni
4021	**Longitudinal data-driven definition of clinical asthma phenotypes in the pediatric arm of the All Age Asthma Cohort (ALLIANCE) of the German Center for Lung Research (DZL)** Alexander Hose (München, Germany), Thomas Bahmer, Klaus Rabe, Erika Von Mutius, Gesine Hansen, Matthias Kopp, Markus Ege
4022	
4023	**The role of eosinophils in pediatric and adult asthma** Jimmy Omony (Neuherberg, Germany), Ruth Grychtol, Nicole Maison, Dominik Thiele, Adan Chari Jirmo, Anna-Maria Dittrich, Thomas Bahmer, Klaus. F Rabe, Harald Renz, Gesine Hansen, Matthias Kopp, Bianca Schaub, Erika Von Mutius, Sabina Illi

4024	**Padiatric Asthma in Canada 2016: A cross-sectional study in primary care** Andrew Cave (Edmonton (AB), Canada), Christina Gillies, Sylvia Aponte-Hao, Boglarka Soos, Tyler Williamson, Neil Drummond
4025	**Asthma, atopy and lung function in young adults hospitalised for bronchiolitis in infancy.** Karen Galta Sørensen (Stavanger, Norway), Knut Øymar, Thomas Halvorsen, Ingvild Bruun Mikalsen
4026	**Discussion**

Channel 4 Session 314 15:40 - 16:40

Challenging clinical cases: Respiratory critical care

Aims : To describe the history, pathology, analysis and treatment of complex clinical cases in respiratory critical care. The session leaders will facilitate discussions among the case presenters and audience.

Disease(s) : Respiratory critical care

Tag(s) : Clinical

Target audience : Adult pulmonologist/Clinician, Respiratory critical care physician, Clinical researcher, General practitioner, Paediatrician, Thoracic oncologist, Thoracic surgeon, Pathologist, Nurse, Radiologist

Chairs : Marieke L. Duiverman (Groningen, Netherlands), Enrico M. Clini (Modena (MO), Italy)

15:40	**Introduction**	**4027**
15:45	**SLE with HLH- A double whammy** Mohanakrishnan Jayamani (Chennai (Tn), India)	**4028**
15:51	**Discussion and Q&A**	**4029**
15:56	**Siphonage lung disease** INAYAT ULLAH (peshawar, Pakistan)	**4030**
16:02	**Discussion and Q&A**	**4031**
16:07	**Acute Flaccid Paralysis and respiratory failure by Enterovirus D68 Infection-the beginning of Polio epidemic?** Syeda Nafisa (Nottingham, United Kingdom)	**4032**
16:13	**Discussion and Q&A**	**4033**
16:18	**Cerebral air embolism complicating transbronchial lung biopsy** Vladimír Herout (Brno 34, Czech Republic)	**4034**
16:24	**Discussion and Q&A**	**4035**
16:29	**Respiratory insights into Stiff Person Syndrome (SPS): clinical, electromyographic and therapeutic implications** Margherita Algeri (Milano, Italy)	**4036**
16:35	**Discussion and Q&A**	**4037**

Channel 5 Session 315 15:40 - 16:40

Oral presentation: Right ventricular function and pulmonary hypertension

Abstracts presented in this session are also available as E-posters from 24 August 2020

Disease(s) : Pulmonary vascular diseases Airway diseases

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

Chairs : Luke Howard (London, United Kingdom), Anton Vonk Noordegraaf (Amsterdam, Netherlands)

4038	**Introduction**
4039	**Late Breaking Abstract - Thromboembolic complications in COVID-19 patients admitted to two large East London hospitals** Stuart Innes (Romford, United Kingdom), Erik Skyllberg, Helen Fielden, Ateeb Khan, Daryl Cheng, Rizwan Kaiser, Adam Ainley

4040	**Late Breaking Abstract - Pulmonary embolism in patients admitted by COVID-19. Incidence and features.** FERNANDO GARCIA (Getafe, Spain), Beatriz Raboso Moreno, Cristina Matesanz Lopez, Jose Maria Diaz Garcia, Carmen Maria Acosta Gutierrez, Carolina Panadero Paz, Cristina Lopez Riolobos, Araceli Abad Fernandez, Eva Aguilar Rivilla, Cristina Cañibano Dominguez, Jose Luis Santiago Luis, Mariara Antonieta Calderon Alcala, Alicia Ruiz Martin , Zully Adjani Vasquez Gambasica, Pilar Andres Ruzafa , Jose Luis Garcia Satue, Sara Calero Pardo, Maria Teresa Rio Ramirez
4041	**Late Breaking Abstract - Pulmonary embolism in patients with COVID-19: Time to change thromboprophylaxis paradigm.** Aarani Mahalingam (, United Kingdom), Alguili Elsheikh, Muhammad Shafiq, Marcus Pittman
4042	**Impact of pulmonary hypertension on the left ventricular stiffness: a large animal study** Olympia Bikou (New York, United States of America), Serena Tharakan, Kelly Yamada, Taro Kariya, Jaime Aguero, Kenneth Fish, Kiyotake Ishikawa
4043	**Exercise stress echocardiography of the pulmonary circulation and right ventricular-arterial coupling in healthy adolescents** Kevin Forton (Bruxelles, Belgium), Vitalie Faoro, Robert Naeije
4044	**Insights on right ventricular dysfunction in World Symposium of Pulmonary Hypertension Group 3 PH** Franz Rischard (Tucson, United States of America), Kristin Highland, Rebecca Vanderpool, Milena Redeva, . And The Pulmonary Vascular Disease Phenomics (pvdomics) Study Group
4045	**Sex differences in the relation between sex hormones and right ventricular function in pulmonary arterial hypertension** Jessie van Wezenbeek (Amsterdam, Netherlands), Joanne A. Groeneveldt, Samara M.A. Jansen, Annemieke C. Heijboer, Marie José Goumans, Harm Jan Bogaard, Anton Vonk Noordegraaf, Frances S. De Man
4046	**Determinants of right ventricular diastolic stiffness in precapillary pulmonary hypertension: a cardiac magnetic resonance study** Ahmed A. Bayoumy (Ismailia, Egypt), Natalia J. Braams, Sophia A. Mouratoglou, Onno A. Spruijt, Frances S. De Man, Anton Vonk-Noordegraaf, Samara M.A. Jansen, Joanne A. Groeneveldt, Berend E. Westerhof, J. Tim Marcus, Lilian J. Meijboom, Harm-Jan Bogaard
4047	**Right ventricular stiffness impairs right atrial function in pulmonary arterial hypertension** Jeroen Niels Wessels (Amsterdam, Netherlands), Sophia A Mouratoglou, Jessie Van Wezenbeek, J Tim Marcus, Lilian J Meijboom, Gustav J Strijkers, Anton Vonk Noordegraaf, Frances S De Man
4048	**Long-term hemodynamic benefits after 'treat-to-close' for intracardiac shunts and pulmonary hypertension** Michael Seckeler (Tucson, United States of America), Rebecca Vanderpool, Scott E. Klewer, Franz P. Rischard
4049	**Discussion**

Studio Madrid Session 316 15:40 - 16:40

State of the art session: Sleep and breathing disorders

From screening to optimal management

Aims : An overview on sleep disordered breathing research over the last 30 years, with attention to new topics and future developments in the field.

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

Tag(s) : Clinical

Target audience : Adult pulmonologist/Clinician, Clinical researcher, Nurse, Respiratory critical care physician, Physiologist, Respiratory physiotherapist, Respiratory therapist

Chairs : Anita Simonds (London, United Kingdom), Anh Tuan Dinh-Xuan (Paris, France)

15:40	**Introduction**	**4050**
15:45	**The Sadoul Lecture: Obstructive sleep apnea - past, present, and future** Maria Bonsignore (Palermo, Italy)	**4051**
15:54	**Screening for sleep disordered breathing: in whom and how** Sophia E. Schiza (Heraklion, Greece)	**4052**
16:03	**Personalized treatment in sleep disordered breathing** Winfried J. Randerath (Solingen, Germany)	**4053**
16:12	**Sleep disordered breathing, CVD and Continuous Positive Airway Pressure** Patrick Lévy (Grenoble, France)	**4054**

16:21	**ERS statement on sleepiness and fitness to drive in patients with obstructive sleep apnoea** Walter McNicholas (Dublin, Ireland)	**4055**
16:30	**Discussion and Q&A**	**4056**

Studio Milan Session 317 15:40 - 16:40

Symposium: Will the pulmonologist still play a role in the management of screen-detected pulmonary nodules?

Aims : To describe non-invasive methods of early detection, diagnosis and confirmation of thoracic cancers and their effects on the role of pulmonologists in patient management.

Disease(s) : Thoracic oncology

Method(s) : Cell and molecular biology Endoscopy and interventional pulmonology Imaging

Tag(s) : Clinical

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

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

15:40	**Introduction**	**4057**
15:45	**The challenge for the endoscopist** Erik H.F.M. van der Heijden (Nijmegen, Netherlands)	**4058**
15:55	**Issues other than tissue: non-invasive biomarkers of early stage lung cancer** Torsten Gerriet Blum (Berlin, Germany)	**4059**
16:05	**Radiologic early detection of early thoracic cancers: the role of artificial intelligence** Wieland Voigt (Berlin, Germany)	**4060**
16:15	**The challenge for the pathologist and pulmonologist: liquid biopsy in the diagnosis of early stage lung cancer** Joanna Chorostowska-Wynimko (Warsaw, Poland)	**4061**
16:25	**Discussion and Q&A**	**4062**

Studio Paris Session 318 15:40 - 16:40

Hot topics: Innovations in airway innervation: treatments for chronic cough

Aims : To better understand 1) the innervation of the airways and how novel therapies may act on airway nerves; 2) the concept of cough reflex hypersensitivity and how that may manifest in clinical diseases, not only chronic cough patients but also in chronic respiratory diseases; 3) the mechanism of action, potential clinical effects and utility of a range of P2X3 antagonists in development; the mechanism of action, potential clinical effects and utility of other new anti-tussive therapies currently in development.

Disease(s) : Airway diseases

Tag(s) : Clinical

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

Chairs : Thomas Geiser (Bern, Switzerland), Daiana Stolz (Basel, Switzerland)

15:40	**Introduction**	**4063**
15:45	**Physiology of cough and denervation of the airways** Giovanni A. Fontana (Vaglia (FI), Italy)	**4064**
15:55	**Differential diagnosis of chronic cough** Imran Satia (Hamilton (ON), Canada)	**4065**
16:05	**Cough reflex hypersensitivity: a treatable trait?** Eva Millqvist (Skovde, Sweden)	**4066**
16:15	**Novel treatments of chronic cough** Jaclyn Smith (Manchester (Greater Manchester), United Kingdom)	**4067**
16:25	**Discussion and Q&A**	**4068**

Studio Vienna Session 319 16:40 - 17:10

Expert view: Smoking, nicotine and COVID-19 myths and facts. What is the evidence?

Aims : To discuss whether smoking is a risk factor for SARS-COv-2 infection and severe disease, and how smoke emitted from a cigarette or exhaled by the smoker may constitute a vehicle for SARS-CoV-2 transmission. To discuss the epidemiologic evidence on the prevalence of smoking among COVID-19 inpatients; the association of smoking with COVID-19 severe disease and case-fatality rate. To discuss the biologic plausibility on how smoking encourages infection and worsens COPD and other respiratory diseases. To discuss mechanistic pathways that may explain the link between nicotine and COVID-19 progression and outcome. To highlight the conflicting evidence on COVID-19 and smoking, research gaps and implications for public health or healthcare preventative approaches and clinical risk assessment.

Disease(s) : Airway diseases | Respiratory infections | Thoracic oncology

Method(s) : Epidemiology

Tag(s) : Clinical

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

Chairs : Richard Costello (Dublin 9, Ireland), Katerina Antoniou (Heraklion, Greece), Marc Humbert (Le Kremlin-Bicêtre, France)

16:40	**Introduction**	**4069**
16:43	**Is smoking a major risk factor for COVID-19 infection and severe disease?** Filippos T. Filippidis (Oxford, United Kingdom)	**4070**
16:53	**Is nicotine the hidden link between COVID-19 and smoking?** Patrizia Russo (Rome, Italy)	**4071**
17:03	**Discussion**	**4072**

Channel 1 Session 320 16:50 - 17:50

Respiratory medicine meets other disciplines: Rheumatology: understanding connective tissue disease in patients with interstitial lung disease

A joint ERS/European League Against Rheumatism (EULAR) session

Aims : To describe a diagnostic approach for patients presenting with respiratory symptoms and suspected connective tissue disease (CTD); to evaluate the evidence associated with indications for biopsy, including determining preferences for cryobiopsy versus video-assisted thoracoscopic surgery (VATS); and to determine the benefits and revise recommendation for therapy in CTD, including indications for monoclonal antibody (AB) therapy, particularly rituximab.

Disease(s) : Interstitial lung diseases

Tag(s) : Clinical

Target audience : Adult pulmonologist/Clinician, Clinical researcher, Nurse, Physician in Pulmonary Training, Physiologist

Chairs : Michael Tamm (Basel, Switzerland), Gabriela Riemekasten (Lübeck, Germany)

16:50	**Introduction**	**4073**
16:55	**Interstitial lung disease (ILD) and multicompartment assessment of CTD: where should the respiratory physician begin?** Christopher P. Denton (London, United Kingdom)	**4074**
17:05	**Does histology matter in ILD-CTD?** Venerino Poletti (Forlì, Italy)	**4075**
17:15	**Fibrotic CTD and interstitial pneumonia with autoimmune features (IPAF): immunosuppressive or/and anti-fibrotic treatment?** Sonye Danoff (Baltimore, United States of America)	**4076**
17:25	**B-cell suppressive therapy and monoclonal antibodies in CTD: does one size fit all?** Diego Kyburz (Basel, Switzerland)	**4077**
17:35	**Discussion and Q&A**	**4078**

Channel 2 Session 321 16:50 - 17:50

Oral presentation: New insights into asthma immunology: in mouse and men

Abstracts presented in this session are also available as E-posters from 24 August 2020

Disease(s) : Airway diseases

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

Chairs : Christian Taube (Essen, Germany), Ian M. Adcock (London, United Kingdom)

4079	**Introduction**
4080	**Late Breaking Abstract - GATA-3 in lung CD4+T cells drives Interleukin-10 deficiency-induced lung inflammation in asthma** Zuqin Yang (Erlangen, Germany), Nina Li, Julia Koelle, Ralf Joachim Rieker, Susetta Finotto
4081	**Airway sensory nerve sensitivity in adolescents with eosinophilic and non-eosinophilic asthma** Hajar Ali (wellington, New Zealand), Collin Brooks, Julian Crane, Richard Beasley, Graham Le Gros, Stephen Holgate, Peter Gibson, Philip Pattemore, Thorsten Stanley, Shieak Yc Tzeng, Neil Pearce, Jeroen Douwes
4082	**Quantitative LC-MS/MS identifies significantly altered protein profiles in bronchial lavage fluid in non-allergic and allergic asthma** Emma Boberg (Gothenburg, Sweden), Cecilia Lässer, Carina Malmhäll, Kristina Johansson, Henric Olsson, Madeleine Rådinger
4083	**Oxidative stress and mitochondrial dysfunction in a novel in vivo exacerbation model of severe asthma** Jack Lowe (London, United Kingdom), Ian Adcock, Coen Wiegman
4084	**Air pollution affects airway pathology in wheezing children** Matteo Bonato (Padova, Italy), Elisa Gallo, Erica Bazzan, Manuel Cosio, Angelo Barbato, Marina Saetta, Simonetta Baraldo, Dario Gregori
4085	**Cbx4 Regulates RNA Binding Protein MEX-3B To Thymic stromal lymphopoietin Expression Sumoylation In Epithelium Of HDM-induced Allergic Inflammation** liang shixiu (guangzhou, China), Yu Changhui, Zhou Zicong, Zhou Zili, Liu Jieyi, Cai Shaoxi
4086	**LSC - 2020 - Glutathione-S-transferase P promotes Interleukin-1ß-induced inflammation and metaboli c reprogramming in mice with allergic airways disease** Cheryl van de Wetering (Maastricht, Netherlands)
4087	**Discussion**

Channel 3 Session 322 16:50 - 17:50

Oral presentation: Challenging issues in thoracic surgery

Abstracts presented in this session are also available as E-posters from 24 August 2020

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

Method(s) : Pulmonary rehabilitation Surgery Respiratory intensive care Endoscopy and interventional pulmonology Cell and molecular biology

Chairs : Marcello Migliore (Catania (CT), Italy), Dragan R. Subotic (Basel, Switzerland)

4088	**Introduction**
4089	**Late Breaking Abstract - An updated meta-analysis of uniportal versus multiportal video-assisted thoracoscopic lobectomy for lung cancer.** Dimitrios Magouliotis (Larisa, Greece), Maria Fergadi, Kyriakos Spiliopoulos, Kalliopi Athanassiadi
4090	**Sublobar resection versus lobectomy in non-small cell lung cancer: a propensity matched analysis** Antonio Francisco Honguero Martinez (Albacete, Spain), Carlos Eduardo Almonte-García, María Peyró-Sánchez, Marta Genovés-Crespo, Cora Sampedro-Salinas, Francisco-Javier Callejas-González, Raúl Godoy-Mayoral, María-Dolores García-Jiménez, Claudia-Rossana Rodríguez-Ortega, Patricia López-Miguel, Ana-María-Del-Rosario Núñez-Ares, Nuria Gutiérrez-González, Wanda-Mayoris Almonte-Batista, Javier Cruz-Ruiz, Sergio García-Castillo, Miguel-Ángel Moscardó-Orenes, Jesús Jiménez-López, Pablo León-Atance
4091	**Quality of life evolution in the first year after VATS lung resection and SABR for early stage NSCLC: a single centre analysis** cecilia pompili (Leeds, United Kingdom), Kevin Franks, Zoe Rogers, Matthew Callister, Jonathan Robson, Alessandro Brunelli, Patricia Holch, Wei Ling Chia, Kate Absolom, Galina Velikova
4092	**Safety Analysis of Superior Vena Cava Resection for Extended Thymic Epithelial Neoplasms>** Luca Bertolaccini (Milan, Italy), Elena Prisciandaro, Giulia Sedda, Lorenzo Spaggiari
4093	**Early venovenous extracorporeal membrane oxygenation for idiopathic post-pneumonectomy pulmonary edema.** Agathe Seguin-Givelet (Paris, France), Charles Moulin, Philippe Girard, Konstantinos Zannis, Laurent Tric, Jean-Luc Leguillou, Thibault Vieira, Dominique Gossot, Christian Lamer

4094 **Role of chemokines, their gene polymorphisms in resectable NSCLC**
marie drösslerová (Opava, Czech Republic), Martina Šterclová, Martina Vašáková, Alice Tašková, Vladislav Hytych , Eva Richterová, Milada Matějčková

4095 **Outcome of surgical and endoscopic lung volume reduction with valves in patients with severe lung emphysema: current data of 246 patients with 3 months follow-up from a Lung Emphysema Registry in Germany**
Pavlina Lenga (Berlin, Germany), Christian Grah, Jens-Carsten Rückert, Joachim Pfannschmidt , Stefan Eggeling, Sylke Kurz, Gunda Leschber, Bernd Schmidt, Paul Schneider, Andreas Gebhardt, Birgit Becke, Ralf-Harto Hübner

4096 **Eligibility for Lung Volume Reduction in patients with COPD attending Pulmonary Rehabilitation**
Sara Catherine Buttery (London, United Kingdom), Adam Lewis, Samuel V Kemp, Jennifer K Quint, Michael C Steiner, Nicholas S Hopkinson

4097 **Discussion**

Channel 4 Session 323 16:50 - 17:50

Oral presentation: Bronchiectasis: epidemiology, endotyping and therapy

Abstracts presented in this session are also available as E-posters from 24 August 2020

Disease(s) : Airway diseases

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

Chairs : Pierre-Régis Burgel (Sorbonne Paris Cité, France), Apostolos Bossios (Stockholm, Sweden)

4098 **Introduction**

4099 **Adult Bronchiectasis in the Northern Territory of Australia: The Aboriginal and Non-aboriginal comparative study**
Sumit Mehra (Perth, Australia), Lam Chor, Stuart Campbell, Subash Heraganahally

4100 **Risk Factors Associated to Cardiovascular Events after Bronchiectasis Exacerbation: A Prospective Study.**
Laura Feced Olmos (Valencia, Spain), Raúl Méndez, Paula González-Jiménez, Leyre Bouzas, Alba Piró, Victoria Alcaraz-Serrano , Rosanel Amaro, Giulia Scioscia, Antoni Torres, Rosario Menéndez

4101 **Endotyping bronchiectasis through multi-omic profiling**
Holly Rachael Keir (Dundee (Angus), United Kingdom), Amelia Shoemark, Megan Crichton, Alison Dicker, Jennifer Pollock, Ashley Giam, Andrew Cassidy, Christopher Fong, Simon Finch, Elizabeth Furrie, Guillermo Suarez-Cuartin, Thomas C Fardon, Gisli G Einarsson, J Stuart Elborn, Stefano Aliberti, Oriol Sibila, Jeffrey T-J Huang, James D Chalmers

4102 **“Integrative microbiomics” reveals a disrupted interactome in bronchiectasis exacerbations**
Jayanth Kumar Narayana (Singapore, Singapore), Micheál Mac Aogáin, Pei Yee Tiew, Nur Atikah Binte Mohamed Ali, Albert Yick Hou Lim, Holly Keir, Alison Dicker, Kai Xian Thng, Akina Tsang, Teck Boon Low, Thun How Ong, Brian Oliver, Giam Yan Hui, Augustine Tee, Mariko Siyue Koh, John Arputhan Abisheganaden, Krasimira Tsaneva-Atanasova, James Chalmers, Sanjay Haresh Chotirmall

4103 **A randomized controlled trial of 4 weeks of airway clearance with oscillating positive end expiratory pressure device versus autogenic drainage in people with bronchiectasis**
Michal Shteinberg (Haifa, Israel), Naama Yaari, Nili Stein, Lea Bentur, Galit Livnat, Yochai Adir

4104 **The Relationship Between Symptoms, Exacerbations And Treatment Response in Bronchiectasis**
Yonghua Gao (zhengzhou, China), Hani Abo-Leyah, Simon Finch, Mike Lonergan, Stefano Aliberti, Anthony De Soyza, Thomas C Fardon, Gregory Tino, James D Chalmers

4105 **Efficacy of inhaled dry powder tobramycin (TOBI Podhaler) in P. aeruginosa infected patients with bronchiectasis - iBEST study**
Michael Loebinger (London, United Kingdom), Eva Polverino, Francesco Blasi, Stuart Elborn, James Chalmers, Harm Tiddens, Herman Goossens, Michael Tunney, Felix Ringhausen, Adam Hill, Rashidkhan Pathan, Gerhild Angyalosi, Charles Haworth

4106 **Discussion**

Channel 5 Session 324 16:50 - 17:50

Oral presentation: Physical activity and chronic lung disease: once a new kid, now growing up

Abstracts presented in this session are also available as E-posters from 24 August 2020

Disease(s) : Airway diseases

Method(s) : Endoscopy and interventional pulmonology Surgery Pulmonary rehabilitation General respiratory patient care Epidemiology Public health Transplantation

Chairs : Agnieszka Lewko (London, United Kingdom), Margareta Emtner (Uppsala, Sweden)

4107	**Introduction**
4108	**Late Breaking Abstract - Physical activity in lung transplant recipients during Belgian COVID-19 lockdown** Sofie Breuls (Leuven, Belgium), Heleen Demeyer, Astrid Blondeel, Geert M. Verleden, Wim Janssens, Robin Vos, Thierry Troosters
4109	**Characteristics of patients with COPD using mobile apps in daily life** Ana Oliveira (Hamilton, Canada), Sofia Flora, Liliana Santos, Nuno Morais, Jose Ribeiro, Fernando Silva, Candida Silva, Bruno Carreira, Ruben Caceiro, Dinesh Kumar, Alda Marques, Dina Brooks, Chris Burtin, Joana Cruz
4110	**Association between air pollution and physical activity in patients with COPD** Maria Koreny (Wien, Austria), Magda Bosch De Basea, Ane Arbillaga-Etxarri, Marta Cirach, Anael Barberan-Garcia, Eulàlia Borrell, Elena Gimeno-Santos, Maria Foraster, Alicia Marín, Pere Vall-Casas, Jordi Vilaró, Robert Rodriguez-Roisin, Judith Garcia-Aymerich
4111	**Effects of game based approach in patients with primary ciliary dyskinesia: a randomized controlled trial** Hazal Sonbahar Ulu (Ankara, Turkey), Deniz Inal Ince, Melda Saglam, Aslihan Cakmak, Naciye Vardar Yagli, Ebru Calik Kutukcu, Erkan Sumer, Hayriye Ugur Ozcelik
4112	**Identification of asthma phenotypes based on extrapulmonary treatable traits** Patricia Duarte Freitas (Antibes, France), Rafaella Fagundes Xavier, Vanessa M Mcdonald, Peter G Gibson, Laura Cordova-Rivera, Karina C Furlanetto, Joice M De Oliveira, Regina M Carvalho-Pinto, Alberto Cukier, Rafael Stelmach, Celso R F Carvalho
4113	**Efficacy of a physical activity coaching programme after hospitalisation for a COPD exacerbation** Beatriz Valeiro (san diego, Spain), Maria Antonia Ramon, Beatriz Valeiro, Esther Rodriguez, Paula Pérez, Alba Gómez, Ana Isabel Mayer, Alejandro Pasarin, Jordi Ibañez, Jaume Ferrer
4114	**The effect of lung volume reduction on the success of physical activity coaching in patients with severe COPD** Astrid Blondeel (Leuven, Belgium), Christophe Dooms, Laurens Ceulemans, Heleen Demeyer, Stephanie Everaerts, Sofie Breuls, Johan Coolen, Dirk Van Raemdonck, Geert Verleden, Thierry Troosters, Wim Janssens
4115	
4116	**Discussion**

Studio Madrid Session 325 16:50 - 17:50

Symposium: Chronic respiratory diseases and their origins in early life: how physiology meets clinical medicine

Aims : To determine the long-term effects of early life factors, such as intrauterine growth restriction, prenatal and postnatal exposure to tobacco smoke and other pollutants, preterm delivery and childhood respiratory illnesses, on the subsequent development of chronic respiratory disease; to evaluate the effectiveness of appropriate preventive and management strategies in reducing the burden of chronic pulmonary diseases; to describe improvements in antenatal and neonatal care that minimise risks to the developing lung and reduce prenatal and postnatal exposure to environmental pollutants, including passive tobacco smoke; to describe lung diseases potentially associated with early life insults; and to emphasise the importance of better education regarding diet, exercise and avoidance of smoking in preserving lung function in susceptible adults.

Disease(s) : Airway diseases | Paediatric respiratory diseases | Sleep and breathing disorders

Tag(s) : Translational

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

Chairs : Anita Simonds (London, United Kingdom), Anh Tuan Dinh-Xuan (Paris, France)

16:50	**Introduction**	**4117**
16:55	**Early life influences on the development of chronic pulmonary diseases: the role of the paediatrician** Gwyneth Davies (London, United Kingdom)	**4118**
17:05	**Early origins of chronic pulmonary disease: the role of the adult pulmonologist** Cecilie Svanes (Bergen, Norway)	**4119**
17:15	**Effects of lung development on pulmonary function tests: from early life to chronic respiratory disease** Elianne J.L.E. Vrijlandt (Groningen, Netherlands)	**4120**
17:25	**Pulmonary diseases and ageing** Maria Rosa Faner Canet (Barcelona, Spain)	**4121**
17:35	**Discussion and Q&A**	**4122**

Studio Milan Session 326 16:50 - 19:00

Live from the clinic: Paediatric procedures

Aims : To explain how several procedures in paediatrics may be performed and organised. Children from a special group of patients and many procedures that are routine in adults may be challenging in children. Bronchoscopy can provide crucial information in children with several complaints such as stridor, recurrent airways infections or unexplained respiratory symptoms. In most centres, bronchoscopy is performed under general anaesthesia requiring excellent communication with anaesthesiologists. Multiple breath washout (MBW) tests in children are very sensitive in picking up airways abnormalities in children and can be performed in children of all ages. Still, expertise is needed to perform a successful MBW test in a preschool child.
While MBW tests require at least some cooperation from the child, the hypoxic challenge test does not, at least if performed in a body box. Lastly, CT scanning of the chest may be much more informative if scanning is spirometry controlled. This procedure will be demonstrated with valuable input from a paediatric radiologist.

Disease(s) : Paediatric respiratory diseases

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

Tag(s) : Clinical

Target audience : Paediatrician

Chairs : Marielle W.H. Pijnenburg (Rotterdam, Netherlands), Jan van Meerbeeck (Edegem (Antwerp), Belgium)

	Discussion and Q&A	**4123**
16:50	**Introduction**	**4124**
16:55	**Keynote: Diagnostic and the therapeutic applications of bronchoscopy** Ernst Eber (Graz, Austria)	**4125**
17:05	**Bronchoscopy in a child** Dirk Schramm (Düsseldorf, Germany)	**4126**
17:45	**Multiple breath washout in toddlers** Kathryn Ramsey (Bern, Switzerland)	**4127**
18:05	**Hypoxic challenge test in preschool children** Stephanie J.A. Balink (Rotterdam, Netherlands)	**4128**
18:25	**Spirometry controlled chest CT** Pierluigi Ciet (Rotterdam, Netherlands), Harm Tiddens (Rotterdam, Netherlands)	**4129**

Studio Paris Session 327 16:50 - 17:50

Clinical trials session: ALERT: Infection in adults and children

Chairs : Thomas Geiser (Bern, Switzerland), Daiana Stolz (Basel, Switzerland)

Discussants : Stefano Aliberti (Milano (MI), Italy), Gernot G.U. Rohde (Frankfurt am Main, Germany)

4130	**Introduction**
4131	**Late Breaking Abstract - Duration of amoxicillin-clavulanate for protracted bacterial bronchitis in children: a randomized controlled trial** Tom Ruffles (hove, United Kingdom), Tom Ruffles, Vikas Goyal, Julie Marchant, Brent Masters, Stephanie Yerkovich, Helen Buntain, Anne Cook, Andre Schultz, Lesley Versteegh, Anne Chang
4132	**Late Breaking Abstract - Adjunctive treatment with oral dexamethasone in adults hospitalised with community -acquired pneumonia: a randomised clinical trial** Esther Wittermans (Nieuwegein, Netherlands), Esther Wittermans, Stefan Vestjens, Simone Spoorenberg, Willem Blok, Jan Grutters, Rob Janssen, Ger Rijkers, Frank Smeenk, Paul Voorn, Ewoudt Van De Garde, Willem Jan Bos
4133	**Wrap-up by discussant and discussion** Stefano Aliberti (Milano (MI), Italy)
4134	**Late Breaking Abstract - Effects of long-term Tobramycin Inhalation Solution (TIS) once daily on exacerbation rate in patients with non-cystic fibrosis bronchiectasis. The BATTLE Randomized Controlled Trial** Lotte Terpstra (Alkmaar (NH), Netherlands), Lotte Terpstra, Inez Bronsveld, Jeroen Doodeman, Wouter Rozenmeijer, Harry Heijerman, Wim Boersma

4135	**Late Breaking Abstract - Efficacy of DPP1 inhibition with brensocatib in subgroups of patients with bronchiectasis - the WILLOW study** James D. Chalmers (Dundee (Angus), United Kingdom), James D. Chalmers, Charles Haworth, Mark Metersky, Michael Loebinger, Francesco Blasi, Oriol Sibila, Anne O'Donnell, Eugene Sullivan, Kevin Mange, Carlos Fernandez, Jun Zou, Charles Daley
4136	**Late Breaking Abstract - Changes in respiratory symptoms during 48 weeks treatment with ARD-3150 (inhaled liposomal ciprofloxacin) in bronchiectasis: results from the ORBIT-3 and -4 studies** James D. Chalmers (Dundee (Angus), United Kingdom), James D. Chalmers, David Cipolla, Bruce Thompson, Angela M Davis, Anne O'Donnell, Gregory Tino, Igor Gonda, Charles Haworth, Juergen Froehlich
4137	**Wrap-up by discussant and discussion** Gernot G.U. Rohde (Frankfurt am Main, Germany)

Studio Vienna — Session 328 — 17:20 - 17:50

Pro/Con debate: Is the global warming potential of inhaler propellants significant?

Aims : To contrast inhaler types with respect to their global warming potential; to identify the importance of the inhaler device in achieving clinical efficacy for the patient; to list all the elements of a patient's life impacting on the environment; to choose the right inhaler for the right patient.

Disease(s) : Airway diseases

Tag(s) : Clinical

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

Chairs : Richard Costello (Dublin 9, Ireland), Katerina Antoniou (Heraklion, Greece), Marc Humbert (Le Kremlin-Bicêtre, France)

17:20	**Introduction**	**4138**
17:23	**Pro** Christer Janson (Uppsala, Sweden)	**4139**
17:33	**Con** Omar S. Usmani (London, United Kingdom)	**4140**
17:43	**Discussion**	**4141**

Channel 1 — Session 329 — 18:00 - 19:00

Oral presentation: Covering COVID - the best abstracts

Abstracts presented in this session are also available as E-posters from 24 August 2020

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

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

Chairs : George Karakiulakis (Thessaloniki, Greece), Chair to be confirmed

4142	**Introduction**
4143	**Late Breaking Abstract - Persisting pulmonary impairment following severe SARS-CoV-2 infection, preliminary results from the CovILD study** Sabina Sahanic (Innsbruck, Austria), Thomas Sonnweber, Alex Pizzini, Gerlig Widmann, Anna Luger, Magdalena Aichner, Anna Böhm, Guenter Weiss, Christoph Tschurtschenthaler, Verena Petzer, David Haschka, Markus Theurl, Daniela Lener, Sophie Wildner, Rosa Bellmann-Weiler, Ewald Wöll, Judith Löffler-Ragg, Ivan Tancevski
4144	**Late Breaking Abstract - The impact of the use of helmet CPAP in a general ward during COVID-19 outbreak** Ilaria Valentini (Rimini (RN), Italy), Susanna Mascetti, Anna Filomena Ferravante, Alessia Fabiano, Andrea Mussoni, Stefania Pezzi, Giuliano Malatesta, Alessandra Gennari, Elisa Marchionni, Ilaria Contadini, Francesco Cristini, Eva Bernardi, Luigi Arcangelo Lazzari Agli
4145	**Late Breaking Abstract - A SINGLE-CENTER EXPERIENCE WITH HIGH-FLOW NASAL CANNULA FOR COVID-19 PATIENTS WITH ACUTE RESPIRATORY DISTRESS SYNDROME (ARDS)** Cristina Matesanz Lopez (Madrid, Spain), José María Díaz García, Carolina Panadero Paz, Fernando García Prieto , Beatríz Moreno Raboso , María Teresa Río Ramírez, Carmen María Acosta Gutiérrez, Cristina López Riolobos, Mariara Calderón Alcalá, Zully Vásquez Gambasica, Pilar Andrés Ruzafa, José Luis García Satué, Alicia Ruiz Martín , Sara Calero Pardo , Araceli Abad Fernández

4146	**Late Breaking Abstract - The role of bronchoscopy in COVID-19 patients during the SARS-CoV-2 pandemic.** Thomas Malfait (Velzeke - Rudderschove (Zottegem), Belgium), Jozefien De Clercq, Linos Vandekerckhove, Jerina Boelens, Stien Vandendriessche, Liselotte Coorevits, Bruno Verhasselt, Elizaveta Padalko, Simon Malfait, Katrien Hertegonne, Fré Bauters, Dieter Stevens, Yannick Vande Weygaerde, Wim Van Biesen, Floris Vanommeslaeghe, Francis Verbeke, Karim Vemaelen, Eva Van Braeckel
4147	**Late Breaking Abstract - Morphological and immunophenotypical features of lung tissue in early phase of COVID-19** Claudia Ravaglia (Forlì, Italy), Claudio Doglioni, Marco Chilosi, Giulio Rossi, Alessandra Dubini, Sara Piciucchi, Federica Pedica, Antonella Arcadu, Silvia Puglisi, Luca Donati, Giovanni Poletti, Stefano Maitan, Vanni Agnoletti, Emanuele Russo, Franco Stella, Venerino Poletti
4148	**Late Breaking Abstract - Plasma cells and endothelitis in COVID-19 lung pathology** Katrien Grunberg (Amsterdam, Netherlands), Frank Van De Veerdonk, Monika Looijen-Salamon, Michel Van Den Heuvel, Quirijn Van Der Mast, Catrien Van Der Meer, Shoko Vos, Sarah Van Belle, Sanne Vermorgen, Johannes G. Van Der Hoeven, Mihai G. Netea
4149	**Late Breaking Abstract - Organoids and lung-on-chip to study SARS-CoV-2-mediated lung injury** Mirjam Kiener (Bern, Switzerland), Lea De Maddalena, Nuria Roldan, George N. Thalmann, Thomas Geiser, Nina Hobi, Marianna Kruithof-De Julio
4150	**Late Breaking Abstract - ACE2 expression in lower airway epithelial cells is increased with age and in males, but is less in asthma.** Peter Wark (New Lambton Heights (NSW), Australia), Prabuddha Pathinyake, Gerard Kaiko, Sukhwinder Sohal, Christopher Oldmeadow, Nathan Bartlett, Stephen Stick, Phil Hansbro, Anthony Kicic
4151	**Late Breaking Abstract - Identifying and phenotyping COVID-19 patients using machine learning on chest x-rays** Jason Fleischer (Princeton, United States of America), Mohammad Tariqul Islam
4152	**Late Breaking Abstract - Development and validation of an automated radiomic CT signature for detecting?COVID -19** fadila Zerka (Liege, Belgium), Akshayaa Vaidyanathan , Julien Guiot , Louis Deprez, Denis Danthine, Grégory Canivet , Mathieu Stéphane , E Eftaxia, Monique Henket, M Thys, Philippe Lambin, Nathan Tsoutzidis, Benjamin Miraglio, Sean Wlash, Paul Meunier , Wim Vos, Ralph Leijenaar , Pierre Lovinfosse
4153	**Discussion**

Channel 2 Session 330 18:00 - 19:00

Oral presentation: How to overcome deficiencies in skills in bedside training by virtual tools and simulation- where do we go?

Abstracts presented in this session are also available as E-posters from 24 August 2020

Disease(s) : Sleep and breathing disorders | Pulmonary vascular diseases | Airway diseases | Thoracic oncology

Method(s) : General respiratory patient care | Endoscopy and interventional pulmonology | Public health

Chairs : Robert Primhak (Sheffield (South Yorkshire), United Kingdom), Carolin Sehlbach (Maastricht, Netherlands)

4154	**Introduction**
4155	**Negative online images more common in chronic obstructive pulmonary disease (COPD) than asthma or heart disease** Freya Berenyi (Melbourne, Australia), Natasha Smallwood
4156	**Machine learning tools to detect COPD patients with Excessive Sedentary living and Physical Inactivity** Bernard Aguilaniu (Grenoble, France), David Hess, Bruno Degano, Christophe Pison, Anestis Antoniadis
4157	**The effect of Clip-tone® and its smartphone application on optimization of metered-dose inhaler inhalation technique** Mark Sanders (Harlow (Essex), United Kingdom), Waleed Wael, Raghda R.S. Hussein, Rania M. Sarhan, Waleed Ramadan, Mohamed Abdelrahim
4158	**“NIVSIM” a simulation based education (SBE) intervention to improve the quality of care delivered for patients receiving acute non-invasive ventilation (NIV)** Stephanie K. Mansell (Guildford (Surrey), United Kingdom), Nikesh Devani, Laura Walters, Amanda Thomas
4159	**Evaluating e-consultation implementation in Lung Cancer patients. Are we doing well?** Marcos Zuil Martin (Zaragoza, Spain), Laura Pérez, Noelia Sánchez Sánchez, Paloma Clavería, Mª Teresa Rosell, Javier Lázaro, Diego Márquez, Alicia Blasco, Agustín Rodríguez, Eva Anadón, Eva Fernández, Milagros Bone, José Ángel Carretero

4160	**Pleural procedure confidence and competence in postgraduate UK medical trainees** Andrew Singer (London, United Kingdom), Anand Sundaralingam, William Ricketts
4161	**Pulmonary hypertension training requirements in the UK. A survey of UK respiratory trainees.** Michael Bridgett (Hassocks, United Kingdom), Brendan Madden
4162	**Cognitive task analysis of flexible bronchoscopy for the design of simulation-based training** Marleen Groenier (Enschede, Netherlands), Julia Kania, Michiel Wagenaar, Emanuel Citgez, Martin Schmettow
4163	**Young Pneumologists in Germany - working conditions in patient care and science** Julia Wälscher (Essen, Germany), Thomas Bahmer, Christoph Fisser, Tina Schreiber, Myriam Koch, Matthias Raspe
4164	**Discussion**

Channel 3 Session 331 18:00 - 19:00

Oral presentation: Screening and imaging in lung cancer

Abstracts presented in this session are also available as E-posters from 24 August 2020

Disease(s) : Thoracic oncology Interstitial lung diseases

Method(s) : Imaging Epidemiology Public health

Chairs : Walter De Wever (Leuven, Belgium), David Baldwin (Nottingham (Nottinghamshire), United Kingdom)

4165	**Introduction**
4166	**Late Breaking Abstract - External validation of exhaled-breath analysis to detect non-small cell lung cancer: a step -wise design to simultaneously develop and validate a prediction model** Sharina Kort (Enschede, Netherlands), Marjolein Brusse-Keizer, Jan-Willem Gerritsen, Hugo Schouwink, Emanuel Citgez, Frans De Jongh, Daiana Stolz, Michel Van Den Heuvel, Wouter Van Geffen, John Van Putten, Lisanne Kastelijn, Ben Van Den Borne, Job Van Der Palen
4167	**Invasiveness assessment of deep leaning method for pulmonary subsolid nodules** Jiajun Deng (Shanghai, China), Yunlang She, Jun Wang, Tingting Wang, Mengmeng Zhao, Yang Wang, Yaofeng Wen, Xiwen Sun, Dong Xie, Chang Chen
4168	**Validation of a deep learning-based computer-aided system for lung nodule detection in a Chinese lung cancer screening program** Sunyi Zheng (Groningen, Netherlands), Xiaonan Cui, Marjolein Heuvelmans, Yihui Du, Grigory Sidorenkov, Monique Dorrius, Raymond Veldhuis, Matthijs Oudkerk, Geertruida De Bock, Peter Van Ooijen, Rozemarijn Vliegenthart, Zhaoxiang Ye
4169	**Effect of slab thickness on pulmonary nodule detection using maximum intensity projection in a deep learning-based computer-aided detection system** Sunyi Zheng (Groningen, Netherlands), Xiaonan Cui, Marleen Vonder, Raymond Veldhuis, Monique Dorrius, Zhaoxiang Ye, Rozemarijn Vliegenthart, Matthijs Oudkerk, Peter Van Ooijen
4170	**A comparison of MRI findings in cases with progressive massive fibrosis and lung cancer** Bilge Akgunduz Uzmezoglu (Ankara, Turkey), Ceprail Simsek, Oktay Algin, Gülden Sari
4171	**Towards personalized lung cancer CT screening in Europe** Carlijn Van der Aalst (Rotterdam, Netherlands), Matthijs Oudkerk, Kevin Ten Haaf, David Baldwin, Rachael Murray , Emma O'Dowd, Rudolf Kaaks, Verena Katzke, Nicoleas Becker , Josep Espinàs, Josep Borras, Clemens Aigner, Corinne Balleyguier, David Planchard, Sam Janes, Gabriella Sozzi , Ugo Pastorino, Harry De Koning
4172	**Lung cancer screening - what does it mean for our practice?** Kiran Desai (Chelmsford, United Kingdom), Claire Calderwood, Erik Skyllberg, Mohammad Moghal, Rajesh Banka
4173	**Discussion**

Channel 4 Session 332 18:00 - 19:00

Oral presentation: Use of thoracic ultrasound in different clinical settings

Abstracts presented in this session are also available as E-posters from 24 August 2020

Disease(s) : Respiratory critical care Thoracic oncology Sleep and breathing disorders Interstitial lung diseases

Method(s) : General respiratory patient care Respiratory intensive care Endoscopy and interventional pulmonology Imaging Pulmonary function testing

Chairs : Michiel J. Thomeer (Tielt (BT), Belgium), Pia Iben Pietersen (Odense NØ, Denmark)

4174	**Introduction**
4175	**Thoracic ultrasound (TUS) training: Regional survey of respiratory specialty trainees (RST) from West Midlands Deanery (WMD), UK** Qaiser Abdullah (Stoke on trent, United Kingdom), Asif Azam, Muhammad Badar Ganaie
4176	**Lung ultrasound and ultrasound elastography for diagnosis and followup of interstitial lung diseases** Zarifa Abdullayeva (Ankara, Turkey), Müge Aydoğdu, Ebru Öztürk, Nilgün Yılmaz Demirci, Haluk Türktaş, Nurdan Köktürk
4177	**Focused sonographic examination of Diaphragm, Ultrasound lung, DVT screen and Heart scan (ECHO) in unselected patients getting admitted in pulmonary medicine ward - The DUDE study** Mohammad Nawaz S (Davangere (Karnataka), India), Priya Ramachandran, Uma Maheshwari K, Uma Devaraj
4178	**Utility of ultrasonography in the assessment of the pharyngeal airway** Shumit Saha (Toronto, Canada), Anand Rattansingh, Keerthana Viswanathan, Anamika Saha, Rosemary Martino, Azadeh Yadollahi
4179	**New application of point-of-care lung ultrasound in pediatric asthma exacerbations** Marina Attanasi (Chieti (CH), Italy), Annamaria Porreca, Francesca Piloni, Francesco Sansone, Sabrina Di Pillo, Francesco Chiarelli, Simone Sferrazza
4180	**Anesthesia experience of EBUS/EUS-B** Marcos Oliveira (Aguada de Cima, Portugal), Carla Mourato, Sónia Pinho, José Manuel Silva, Michele Santis, Lourdes Barradas, Paulo Freitas
4181	**Choice of pleural puncture site: Prospective comparative study between clinical exam and ultrasound** Mariem Ferchichi (Tunis, Tunisia), Islam Mejri Ep Ajili, Mariem Chaabane, Samira Mhamdi, Selsabil Daboussi, Chiraz Aichaouia, Zied Moatemri, Mohsen Mohsen
4182	**Discussion**

Channel 5 Session 333 18:00 - 19:00

Oral presentation: Airflow obstruction, COPD and comorbidities

Abstracts presented in this session are also available as E-posters from 24 August 2020

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

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

Chairs : Om Prakash Kurmi (Hamilton (ON), Canada), Charlotte Bolton (Nottingham (Nottinghamshire), United Kingdom)

4183	**Introduction**
4184	**Late Breaking Abstract - Ventilatory function and diet quality in US adults – Evidence from the National Health and Nutrition Examination Survey (NHANES)** Kirstie Ducharme-Smith (, United States of America), Francisca De Castro Mendes, Rodrigo Villegas, Gustavo Mora-Garcia, Maria Stephany Ruiz-Diaz, Andre Moreira, Vanessa Garcia-Larsen
4185	**Late Breaking Abstract - Association between dynamic expiratory tracheal collapse and obstructive sleep apnoea** Soriul Kim (Ansan, Republic of Korea), Ki Yeol Lee, Robert D Abbott, Hye Ryeong Nam, Chol Shin
4186	**Reduced lung function and cognitive decline in ageing: a longitudinal cohort study.** Yutong Cai (London, United Kingdom), Wuxiang Xie , Fanfan Zheng, Xiaobo Han, Yanjun Ma, Rong Hua, Lixin Xie
4187	**DECT-derived PBV heterogeneity in a general population sample: The MESA Lung Study** Amin Motahari (Iowa City, United States of America), Emilia Hermann, Grant Hiura, Norrina Allen, Alain Bertoni, David A. Bluemke, Ali Eskandari, Erin D. Michos, Prashant Nagpal, Jim Pankow, Karen Stukovsky, Karol Watson, R. Graham Barr, Eric A. Hoffman
4188	**Cardiovascular comorbidities based on impaired pulmonary function in non-smoking population** Joo Hun Park (Suwon, Republic of Korea), Ji Eun Park, Woo Young Chung , Sung Chul Hwang, Ji Hyun Park, Bumhee Park, Lee Keu Sung, Yun-Jung Jung
4189	**Risk of future exacerbations among COPD patients – a real-world register-based cohort study (AvoidEx)** Claus Vogelmeier (Marburg, Germany), Marc Pignot, Fredrik Wiklund, Javier Nuevo, Gunilla Telg, Christer Janson
4190	**Use of NEWS2 to predict length of stay and in hospital mortality at exacerbation of COPD** Philip Stone (London, United Kingdom), Jennifer Quint, C Michael Roberts, John Hurst

4191	**Lung function curve over the life-course using longitudinal data from multiple cohorts** Judith Garcia Aymerich (Barcelona, Spain), Anne-Elie Carsin, Nicole Probst-Hensch, Raquel Granell, Shyamali Dharmage, Debbie Jarvis	
4192	**External validation of two prognostic scores predicting exacerbations in ECLIPSE COPD patients** Spencer Keene (Maastricht, Netherlands), Rachel Jordan, Frank De Vries, Alice Sitch, Peymane Adab, Frits Franssen	
4193	**Discussion**	

Studio Madrid Session 334 18:00 - 19:00

Symposium: Exercise and sleep: from impaired function to new therapeutic strategies

Aims : To describe interactions between sleep and exercise from healthy subjects to patients; to evaluate the effects of exercise testing and training on several important pathophysiological mechanisms associated with sleep disorders; and to describe the use of physical activity and exercise as parts of a multi-component individualised strategy to manage sleep disorders.

Disease(s) : Paediatric respiratory diseases | Sleep and breathing disorders

Method(s) : Physiology | Pulmonary function testing | Pulmonary rehabilitation

Tag(s) : Clinical

Target audience : Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Patient, Physiologist, Respiratory physiotherapist, Scientist (basic, translational)

Chairs : Anita Simonds (London, United Kingdom), Anh Tuan Dinh-Xuan (Paris, France)

18:00	**Introduction**	4194
18:05	**Sleep and exercise: a bidirectional relationship** Pierrick Arnal (Paris, France)	4196
18:15	**Exercise responses in patients with sleep apnoea** Ludger Grote (Göteborg, Sweden)	4195
18:25	**Blood pressure and exercise in sleep apnoea** Maria Bonsignore (Palermo, Italy)	4197
18:35	**Physical activity and exercise training as therapeutic interventions for sleep apnoea** Monique Mendelson (Grenoble, France)	4198
18:45	**Discussion and Q&A**	4199

Studio Paris Session 335 18:00 - 19:00

Hot topics: Rethinking asthma

Aims : To give insights into the management strategy and new treatments across the spectrum of asthma; to present evolution in our understanding of asthma phenotypes and endotypes and their relevance in daily clinical practice.

Disease(s) : Airway diseases

Tag(s) : Clinical

Target audience : Adult pulmonologist/Clinician, Physiologist

Chairs : Thomas Geiser (Bern, Switzerland), Daiana Stolz (Basel, Switzerland)

18:00	**Introduction**	4200
18:05	**Refining asthma treatment for mild asthma** Roland Buhl (Mainz, Germany)	4201
18:14	**Identifying patients with severe asthma that will be benefit from biological therapy** Celeste Michala Porsbjerg (Copenhagen, Denmark)	4202
18:23	**What is it about responders and non-responders in asthma? From biology to physiology and treatment** Marco Idzko (Wien, Austria)	4203
18:32	**Is severe neutrophilic asthma a separate entity ?: Pro** Anke-Hilse Maitland-van der Zee (Amsterdam, Netherlands)	4204
18:41	**Is severe neutrophilic asthma a separate entity?:Con** Parameswaran Nair (Hamilton (ON), Canada)	4205

19:00	**Discussion and Q&A**	**4206**

Studio Vienna Session 336 18:00 - 19:00

Lungs on fire: Pulmonary vascular diseases?

Aims : To describe real-life clinical cases during the innovative interactive session, including the presentation of cases that have various levels of difficulty and often necessitate a differential diagnosis. This session will be led by a discussant, who will present the cases to a panel of experts and the audience. The discussant will encourage discussion among the panel of experts, who are encountering these cases for the first time. To further determine diagnostic and therapeutic options for these patients, the discussant will also invite audience participation in the reflexion and discussion of these cases.

Disease(s) : Pulmonary vascular diseases | Respiratory infections | Airway diseases

Tag(s) : Clinical

Target audience : Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Thoracic surgeon, Radiologist, Nurse, Respiratory critical care physician

Chairs : Richard Costello (Dublin 9, Ireland), Katerina Antoniou (Heraklion, Greece), Marc Humbert (Le Kremlin-Bicêtre, France)

Discussants : Joanna Pepke-Zaba (Cambridge, United Kingdom)

	Case 1 - Author: Sai Charan Govinda Bodi (United Arab Emirates)	**4207**
	Discussion and Q&A	**4208**
	Case 2 - Author: Somayeh Sadeghi (Iran)	**4209**
	Discussion and Q&A	**4210**
	Case 3 - Author: Johad Khoury (Israel)	**4211**
	Discussion and Q&A	**4212**
	Case 4 - Author: Anca Macri (Romania)	**4213**
	Discussion and Q&A	**4214**
18:00	**Introduction**	**4215**
18:02	**Presentation of cases by the session facilitator** Joanna Pepke-Zaba (Cambridge, United Kingdom)	**4216**

19:15-20:15
INDUSTRY EVENING SYMPOSIUM SEE PAGE 1

20:30-21:30
INDUSTRY EVENING SYMPOSIUM SEE PAGE 1

08:00-09:00
INDUSTRY EARLY MORNING SYMPOSIUM SEE PAGE 1

08:15-09:15
INDUSTRY EARLY MORNING SYMPOSIUM SEE PAGE 1

Channel 1 Session 353 09:30 - 10:30

Language session: Chinese programme 2020: Part II
Joint ERS/CTS session

Aims : To describe new advances in respiratory medicine, as presented by experienced speakers from the ERS leadership and Chinese leaders in respiratory medicine; and to present an overview on respiratory diseases, including their early diagnosis and public health, concerns, as well as sleep disorders and pulmonary embolism in Europe and China.
This programme will be available in Chinese and English.

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

Tag(s) : Clinical

Chairs : Marion Delcroix (Leuven, Belgium), Jieming Qu (Shanghai, China)

09:30	**Introduction**	**4303**
09:35	**Pulmonary embolism in China: disease burden, management and prevention** Zhenguo Zhai (Beijing, China)	**4304**
09:45	**Sleep disordered breathing management in China during the COVID-19 pandemic** Yi Xiao (Beijing, China)	**4305**
09:55	**Challenges and perspectives in obstructive sleep apnoea: report of an ad hoc working group of the Sleep Disordered Breathing Group of the European Respiratory Society and the European Sleep Research Society** Winfried J. Randerath (Solingen, Germany)	**4306**
10:05	**State of the art in pulmonary hypertension** Marion Delcroix (Leuven, Belgium)	**4307**
10:15	**Discussion and Q&A**	**4308**

Channel 2 Session 354 09:30 - 10:30

Oral presentation: New frontiers in cystic fibrosis imaging and lung physiology
Abstracts presented in this session are also available as E-posters from 24 August 2020

Disease(s) : Airway diseases

Method(s) : Pulmonary function testing Epidemiology Physiology Imaging

Chairs : Alex Horsley (Manchester, United Kingdom), Mirjam Stahl (Berlin, Germany)

4309	**Introduction**
4310	**Late Breaking Abstract - Use of ultra-low dose CT does not impact structure-function relationships in early Cystic Fibrosis lung disease** Katie Bayfield (Sydney, Australia), Oliver Weinheimer, Christie Boyton, Rachel Fitzpatrick, Anna Middleton, Brendan Kennedy, Anneliese Blaxland, Geshani Jayasuriya, Neil Caplain, Mark O Wielpuetz, Lifeng Yu, Craig J Galban, Terry E Robinson, Brian Bartholmai, Per Gustafsson, Dominic Fitzgerald, Hiran Selvadurai, Paul D Robinson
4311	**Lung clearance index and functional MRI outcomes to assess lung disease in preschool children with cystic fibrosis** Bettina Sarah Frauchiger (Bern, Switzerland), Corin Willers, Yasmin Salem, Philipp Latzin, Kathryn Ramsey
4312	**Longitudinal course of clinically measured lung clearance index in children with cystic fibrosis** Bettina Sarah Frauchiger (Bern, Switzerland), Severin Binggeli, Sophie Yammine, Ben Spycher, Kathryn Ramsey, Philipp Latzin
4313	**Early determinants of lung disease in children with cystic fibrosis** Sanja Stanojevic (Halifax (NS), Canada), Stephanie Davis, Db Sanders, Lucy Perem, Michelle Shaw, Julia Guido, Renee Jensen, Sylvia Jara , Charles Clem , Melina Solomon, Neil Sweezey, Hartmut Grasemann, Valerie Waters, Felix Ratjen

4314	**The Lung Clearance Index detects incomplete lung function recovery with acute respiratory events in school-age children with cystic fibrosis** Lucy Perrem (Toronto (ON), Canada), Sanja Stanojevic, Michelle Shaw, Renee Jensen, Julia Guido, Melinda Solomon, Hartmut Grasemann, Neil Sweezey, Stephanie Davies, D.B Sanders, Nancy Mcdonald, Sarah Isaac, Sylvia Jara, Charles Clem, Felix Ratjen
4315	**Longitudinal assessment of Lung Clearance Index as a marker of disease progression in a cohort of children with cystic fibrosis and normal spirometry** Jacquelyn Spano (Palo Alto, United States of America), Sean Ryan, Carlos Milla
4316	**Multivolume magnetic resonance imaging (1H-MRI) for the longitudinal assessment of cystic fibrosis (CF) lung disease: comparison with spirometry** Francesca Pennati (Milano (MI), Italy), Irene Borzani, Laura Moroni, Maria Chiara Russo, Andrea Aliverti, Carla Colombo
4317	**Feasibility of unsedated lung MRI in preschoolers with Cystic fibrosis – a comparison to lung function.** Christoph Corin Willers (Bern, Switzerland), Bettina S. Frauchiger, Yasmin Salem, Philipp Latzin, Kathryn Ramsey
4318	**Discussion**

Channel 3 Session 355 09:30 - 10:30

Oral presentation: Lung epithelial development and repair in three-dimensions

Abstracts presented in this session are also available as E-posters from 24 August 2020

Disease(s) : Interstitial lung diseases | Pulmonary vascular diseases | Airway diseases

Method(s) : Cell and molecular biology

Chairs : Sabine Bartel (Groningen, Netherlands), Colin Bingle (Sheffield (South Yorkshire), United Kingdom)

4319	**Introduction**
4320	**Late Breaking Abstract - IPF lung-ECM subjected to cyclic stretch affect cellular activity** Bryan Falcones Olarte (Barcelona, Spain), Linda Elowsson Rendin, Anna Löfdahl, Isaac Almendros Lopez, Jorge Otero, Xiao-Hong Zhou, Martin Silverborn, Leif Bjermer, Göran Dellgren, Ramon Farré, Gunilla Westergren-Thorsson
4321	**Use of biomaterials to tissue engineer 3D models with lung organoids for in-vitro disease modelling** Isabel Uwagboe (London, United Kingdom), Sharon Mumby, Tankut Guney, Iain Dunlop, Ian Adcock
4322	**Disease modelling following organoid-based expansion of airway epithelial cells** Pieter S. Hiemstra (Leiden, Netherlands), Evelien Eenjes, Sander Van Riet, Andre A. Kroon, Annelies M. Slats, Irwin K.M. Reiss, Hans Clevers, Robbert J. Rottier
4323	**HIF pathway activation is a core regulator of collagen structure-function in lung fibrosis** Christopher J Brereton (Southampton, United Kingdom), Robert Ridley, Franco Conforti, Liudi Yao, Aiman Alzetani, Ben Marshall, Sophie V Fletcher, Luca Richeldi, Yihua Wang, Donna E Davies, Mark G Jones
4324	**Hypoxia is associated with a decrease of the expression of the polymeric Immunoglobulin Receptor in a model of human respiratory epithelium.** Ludovic Gerard (Bruxelles, Belgium), Bruno Detry, Charles Pilette
4325	**Optimization of Human Lung-Chip cultures to investigate effects of biomechanics on primary airway epithelial cell biology** Anne M. van der Does (Leiden, Netherlands), Doris Roth, Sander Van Riet, Annemarie Van Schadewijk, Carolina Lucchesi, Geraldine A. Hamilton, Janna Nawroth, Pieter S. Hiemstra
4326	**Interleukin-2 – induced vascular leak syndrome: clinically relevant in vitro recapitulation with a patient-derived lung-on-chip** Giulia Raggi (Bern, Switzerland), Nuria Roldan, Virginie Micallef, Aude Rapet, Lea De Maddalena, Théo Imler, Laurène Froment, Thomas M. Marti, Ralph A. Schmid, Ekaterina Breous-Nystrom, Adrian B. Roth, Lauriane Cabon, Nina Hobi
4327	**Air liquid interface (ALI)-grown immortalized human cell lines: a promising tractable model for human airway** Zeyad Alharbi (Sheffield (England), United Kingdom), Md. Miraj Kobad Chowdhury, Lynne Bingle, Colin Bingle
4328	**Discussion**

Channel 4 Session 356 09:30 - 10:30

Oral presentation: Quantitative imaging in diffuse lung disease

Abstracts presented in this session are also available as E-posters from 24 August 2020

Disease(s) : Interstitial lung diseases Airway diseases

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

4329	**Introduction**
4330	**Oxygen enhanced MRI biomarkers of lung function in interstitial lung disease** John Charles Waterton (MANCHESTER, United Kingdom), Marta Tibiletti, Josephine Naish, Matthew J Heaton, Paul Hughes, James A Eaden, Sarah Skeoch, Nazia Chaudhuri, Ian Bruce, Stephen M. Bianchi , Jim Wild, Geoff Jm Parker
4331	**Quantitative analysis of paired inspiratory and expiratory CT correlates highly with lung function measurements in COPD patients under tiotropium-olodaterol respimat** Felix J.F. Herth (Heidelberg, Germany), Cp Heussel, Oliver Weinheimer, Hu Kauczor, Mark Wielpuetz, Franziska Trudzinski, Frederick Trinkmann
4332	**Ventilation defect quantification on 3He MRI through deep learning: the MESA COPD Study** Xuzhe Zhang (New York, United States of America), Elsa Angelini, Andrew Laine, Yanping Sun, Grant Hiura, Stephen Dashnaw, Martin Prince, Eric Hoffman, Bharath Ambale-Venkatesh, Joao Lima, Jim Wild, Emlyn Hughes, R. Graham Barr, Wei Shen
4333	**Regional hyperpolarised 129-xenon diffusion-weighted MRI in patients with IPF** James Eaden (Sheffield (South Yorkshire), United Kingdom), Ho-Fung Chan, Nicholas Weatherley, Stephen Bianchi, Jim Wild
4334	**Robust automatic segmentation of airway using multi-resolution deep learning** Stijn Bonte (Kontich, Belgium), Maarten Lanclus, Joana Costa, Cedric Van Holsbeke
4335	**Discussion**

Channel 5 Session 357 09:30 - 10:30

Oral presentation: Advances in cystic fibrosis: from microbiome to MRI

Abstracts presented in this session are also available as E-posters from 24 August 2020

Disease(s) : Airway diseases

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

Chairs : Catherine Greene (Dublin 9, Ireland), Chair to be confirmed

4336	**Introduction**
4337	**Ivacaftor/lumacaftor changes the lung microbiome and metabolome in cystic fibrosis patients** Anne H. Neerincx (Amsterdam, Netherlands), Katrine Whiteson, Joann L. Phan, Paul Brinkman, Mahmoud I. Abdel-Aziz, Els J.M. Weersink, Josje Altenburg, Christof J. Majoor, Anke-H. Maitland-Van Der Zee, Lieuwe D.J. Bos
4338	**Non-contrast-enhanced assessment of lung perfusion in CF patients during respiratory tract exacerbation using Fourier decomposition magnetic resonance imaging (FDMRI)** Andrea Mazzaro (Mestre-Venezia, Italy), Mirco Ros, Silvia Bertolo, Pierluigi Ciet, Francesco Serafini, Giovanni Morana
4339	**Correlation of Hyperpolarised Xenon-129 Magnetic Resonance Imaging (129Xe-MRI) of the Lung with Multi-Breath Washout (MBW) in Children with Severe Asthma** Shahideh Safavi (Nottingham (Nottinghamshire), United Kingdom), Brandon Zanette, Samal Munidasa, Elaine Stirrat, Daniel Li, Theo Moraes, Padmaja Subbarao, Giles Santyr
4340	**Interpretation of multiple breath washout (MBW) measurements of lung function using mathematical modelling and hyperpolarised 3He gas MRI** Carl Whitfield (Manchester, United Kingdom), Laurie Smith, Oliver Jensen, Noreen West, Martin Wildman, Guilhem Collier, Jim Wild, Alex Horsley
4341	**Multiple-breath washout and pulmonary function tests versus high-resolution computed tomography scores in adults with cystic fibrosis.** Alexander Cherniak (Moscow, Russian Federation), Zhanna Naumenko, Stanislav Krasovskiy, Kirill Mikhailichenko, Galina Nekludova
4342	**Using integrated omics to assess the effects of rhinovirus infection in children with Cystic Fibrosis (CF).** Sandra Patricia Agudelo Romero (Perth, Australia), Kelly Martinovich, Joshua D Chandler, Kak-Ming Ling, Erika N Sutanto, Dean P Jones, Rabindra M Tirouvanzium, Stephen M Stick, Luke W Garratt, Anthony Kicic, Wa Erp, Arest Cf

4343	**Pseudomonas aeruginosa influences the inflammatory response of primary bronchial epithelial cells to rhinovirus infection** Adrian Endres (Frankfurt am Main, Germany), Ralf Schubert, Peter Braubach, Danny Jonigk, Michael Hogardt, Helena Boland, Gernot Rohde, Carla Bellinghausen
4344	**A First Look at the Italian Registry on Pulmonary Non-Tuberculous Mycobacteria (NTM) -IRENE** Stefano Aliberti (Milano (MI), Italy), Maura Spotti, Giovanni Sotgiu, Maurizio Ferrarese, Paola Francesca Castellotti, Andrea Gramegna, Marina Tadolini, Jessica Mencarini, Gina Gualano, Stefania Cerri, Giuliano Montemurro, Giulia Gardini, Andrea Calcagno, Federico Dente, Michele Trezzi, Paola Faverio, Mario Malerba, Giulia Cucchetto, Enrico Tortoli, Mehdi Mirsaeidi, Antonella Previdi, Andrea Gori, Luigi Ruffo Codecasa, Francesco Blasi, . On Behalf Of The Irene Network
4345	**A pilot study of a novel ELISA test using synthetic mycolic acid antigens for serodiagnosis of nontuberculous mycobacterial infections.** Julia Bashford (Brisbane (QLD), Australia), R. A. Floto, C. S. Haworth, J. Ryan, J. R. Al Dulayymi, A. Cervi, M. Baird
4346	**Ultrasound diaphragm activity in patients with cystic fibrosis: relationship to disease severity and peripheral muscle strength** Anne-Catherine Maynard-Paquette (Montreal (QC), Canada), François Tremblay, Bruno-Pierre Dubé
4347	**Discussion**

Studio Madrid — Session 358 — 09:30 - 10:30

Clinical trials session: ALERT: Ventilation and rehabilitation

Chairs : Andrew Bush (London, United Kingdom), Charlotte Suppli Ulrik (Virum, Denmark)

Discussants : Frits M.E. Franssen (Horn, Netherlands), Manuel Lujan Torne (Sabadell (Barcelona), Spain)

4348	**Introduction**
4349	**Late Breaking Abstract - Long-term noninvasive ventilation in obesity hypoventilation syndrome without severe obstructive sleep apnoea** Mª Ángeles Sanchez Quiroga (Plasencia, Spain), Mª Ángeles Sanchez Quiroga, Juan Fernando Masa Jiménez, Ivan Benitez, Javier Gómez De Terreros, Jaime Corral, Auxiliadora Romero, Candela Caballero Eraso, Maria Luz Alonso Alvarez, Estrella Ordax, Teresa Gomez Garcia, Soledad Lopez Martin, Jose Maria Marin, Sergi Marti, Trinidad Diaz Cambriles, Eusebi Chiner, Carlos Egea, Javier Barca, Francisco Javier Vazquez Polo, Miguel Angel Negrin, Maria Martel Escobar, Ferran Barbe, Babak Mohklesi
4350	**Nasal High-flow Versus Non-invasive Ventilation In Patients With Chronic Hypercapnic COPD** Jens Bräunlich (Leipzig, Germany), Jens Bräunlich, Dominic Dellweg, Andreas Bastian, Torsten Blum, Stephan Budweiser, Winfried Randerath, Dora Triché, Martin Bachmann, Christian Kähler, Abdel Hakim Bayarassou, Irmhild Mäder, Jens Geiseler, David Petroff, Hubert Wirtz
4351	**Late Breaking Abstract - WEAning From NonInvasive Ventilation – 'WEANIV' Study** Aylin Özsancak Uğurlu (Istanbul, Turkey), Aylin Özsancak Ugurlu, Zuhal Karakurt, Raffaele Scala, Ezgi Ozyilmaz, Begum Ergan, Stefano Nava, Fabiano Dimarco, Eylem Tuncay, Giuseppina Ciarleglio, Orhan Othman Hasan, Sara Betti, Lisa Giuliani
4352	**Late Breaking Abstract - Temporary Transvenous Diaphragm Neurostimulation in difficult-to-wean mechanically ventilated patients - Results of the RESCUE 2 randomized controlled trial.** Martin Dres (Paris, France), Martin Dres, Marcelo Gama De Abreu, Thomas Similowski
4353	**Wrap-up by discussant and discussion** Manuel Lujan Torne (Sabadell (Barcelona), Spain)
4354	**Late Breaking Abstract - Telerehabilitation compared to centre-based pulmonary rehabilitation: a randomised controlled equivalence trial.** Narelle Cox (Melbourne (VIC), Australia), Narelle Cox, Christine Mcdonald, Ajay Mahal, Jennifer Alison, Richard Wootton, Paolo Zanaboni, Catherine Hill, Janet Bondarenko, Heather Macdonald, Kathryn Barker, Hayley Crute, Christie Mellerick, Bruna Wageck, Helen Boursinos, Aroub Lahham, Amanda Nichols, Pawel Czuyprn, Leah Jennings, Monique Corbett, Emma Handley, Angela Burge, Anne Holland
4355	**The effect of tele coaching after pulmonary rehabilitation on patients' experience of physical activity in patients with COPD** Astrid Blondeel (Leuven, Belgium), Astrid Blondeel, Heleen Demeyer, Matthias Loeckx, Fernanda Rodrigues, Sofie Breuls, Wim Janssens, Thierry Troosters
4356	**Wrap-up by discussant and discussion** Frits M.E. Franssen (Horn, Netherlands)

Studio Milan Session 359 09:30 - 10:30

Hot topics: Exciting new developments in lung cancer screening, diagnostics and treatment

Aims : To highlight new perspectives in lung cancer by a bench-to-bedside approach transferring latest scientific knowledge of four relevant topics into upcoming clinical management strategies.

Disease(s) : Thoracic oncology

Tag(s) : Clinical

Target audience : Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Medical Technical Assistant, Nurse, Pathologist, Physician in Pulmonary Training, Radiologist, Scientist (basic, translational), Thoracic oncologist, Thoracic surgeon

Chairs : Jan van Meerbeeck (Edegem (Antwerp), Belgium), Federica Meloni (Pavia (PV), Italy)

09:30	**Introduction**	**4357**
09:35	**The lung cancer microenvironment and the lung microbioma: cross or cease fire?** Hortense Slevogt (Berlin, Germany)	**4358**
09:45	**Immunotherapy in SCLC: small step or leap?** Sebahat Ocak (Yvoir, Belgium)	**4359**
09:55	**Pathologist and pulmonologist at crossroads** Joanna Chorostowska-Wynimko (Warsaw, Poland)	**4360**
10:05	**Non-invasive treatment of dyspnoea and pain in thoracic malignancies re-defined** Dragana M. Jovanović (Beograd, Republic of Serbia)	**4361**
10:15	**Discussion and Q&A**	**4362**

Studio Paris Session 360 09:30 - 10:30

Journal session: Reducing the burden of asthma

Realising the potential for improvements in asthma management and prevention (a joint ERS/Lancet session)

Aims : To consider approaches to reducing the burden of asthma, including the identification of risk and protective factors that could be targeted for the primary prevention of asthma, progress in asthma genetics and the identification of potential drug targets, and advances in the management of severe asthma in children.

Disease(s) : Airway diseases Paediatric respiratory diseases

Tag(s) : Clinical

Target audience : Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Paediatrician, Scientist (basic, translational)

Chairs : Marc Humbert (Le Kremlin-Bicêtre, France), Chair to be confirmed

09:30	**Introduction** Rebecca Craven (London, United Kingdom)	**4363**
09:35	**Primary prevention of asthma: from risk and protective factors to targeted strategies for prevention** Erika von Mutius (München, Germany)	**4364**
09:48	**The genetics of asthma and the promise of genomics-guided drug discovery** Gerard H. Koppelman (Groningen, Netherlands)	**4365**
10:02	**Management of severe asthma in children** Marielle W.H. Pijnenburg (Rotterdam, Netherlands)	**4366**
10:15	**Discussion and Q&A**	**4367**
10:25	**Conclusion** Rebecca Craven (London, United Kingdom)	**4368**

Studio Vienna Session 361 09:30 - 10:40

Live from the clinic: Bronchoscopy and endosonography: Lung cancer

Aims : Endosonography (EBUS and EUS) has become an minimally invasive technique for the diagnosis and staging of lung cancer. Various bronchoscopic navigation techniques, tumor detection and sampling procedures are under clinical evaluation. Techniques to be demonstrated are: Endobronchial ultrasound (EBUS) and trans-esophageal endobronchial ultrasound (EUS-B), navigation bronchoscopy and cryoprobe bronchoscopy, radial probe endobronchial ultrasound (EBUS) and needle-based confocal laser endomicroscopy (nCLE), tumour ablation, and stent placement.

Disease(s) : Thoracic oncology

Method(s) : Endoscopy and interventional pulmonology

Tag(s) : Clinical

Target audience : Adult pulmonologist/Clinician, Physician in Pulmonary Training, Thoracic oncologist, Thoracic surgeon

Chairs : Peter Schenk (Grimmenstein-Hochegg, Austria), Maren Schuhmann (Heidelberg, Germany), Gilbert Massard (Esch Sur Alzette, Luxembourg)

09:30	**Introduction**	**4369**
09:35	**Endobronchial ultrasound and trans-esophageal endobronchial ultrasound** Jouke T. Annema (Amsterdam, Netherlands), Laurence M.M.J. Crombag (Amsterdam, Netherlands)	**4370**
09:50	**Navigation bronchoscopy and cryoprobe bronchoscopy** Felix J.F. Herth (Heidelberg, Germany), Ralf Eberhardt (Heidelberg, Germany)	**4371**
10:05	**Tumour ablation** Ralf Eberhardt (Heidelberg, Germany), Konstantina Kontogianni (Heidelberg, Germany)	**4372**
10:15	**Stent** Felix J.F. Herth (Heidelberg, Germany), Konstantina Kontogianni (Heidelberg, Germany)	**4373**
10:25	**Radial probe endobronchial ultrasound and needle-based confocal laser endomicroscopy** Jouke T. Annema (Amsterdam, Netherlands), Tess Kramer (Amsterdam, Netherlands)	**4374**
10:35	**Discussion and Q&A**	**4375**

Channel 1 Session 362 10:40 - 11:40

Primary care session: Part I: From symptoms to diagnosis in primary care

Aims : To present methods of choosing the most effective diagnostic work up and management for patients with common respiratory symptoms.

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

Tag(s) : Clinical

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

Chairs : Hanna Sandelowsky (Vendelso, Sweden), Hilary Pinnock (Edinburgh (Edinburgh), United Kingdom)

10:40	**Introduction**	**4376**
10:45	**Breathlessness, could it be asthma?** Mike Thomas (Southampton (Hampshire), United Kingdom)	**4377**
10:58	**Breathlessness, could it be COPD?** Miguel Román Rodriguez (Palma De Mallorca, Spain)	**4378**
11:11	**"No Smoking Week" and other activities that clinicians can do or support** Lucia Gorreto Lopez (Sta Maria del Camí, Spain)	**4379**
11:24	**Discussion and Q&A**	**4380**

Channel 2 Session 363 10:40 - 11:40

Oral presentation: From tobacco and vaping health effects to tobacco cessation

Abstracts presented in this session are also available as E-posters from 24 August 2020

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

Method(s) : Epidemiology Public health Palliative care Physiology Cell and molecular biology

Chairs : Sofia Belo Ravara (Covilhã, Portugal), Elif Dagli (Istanbul, Turkey)

4381	**Introduction**	
4382	**Late Breaking Abstract - Differences in flavorant levels and synthetic coolant use between USA, EU and Canadian Juul products** Hanno Erythropel (New Haven, United States of America), Paul T. Anastas, Suchitra Krishnan-Sarin, Stephanie S. O'Malley, Sven E. Jordt, Julie B. Zimmerman	

4383	**Treatment complication rates in continued smokers vs quitters after a diagnosis of lung cancer: a cohort study** Rachel Gemine (llanelli (Dyfed), United Kingdom), Kirsty Lanyon, Gareth Davies, Keir Lewis
4384	**Flavor-solvent reaction products in electronic cigarette liquids activate respiratory irritant receptors and elicit cytotoxic metabolic responses in airway epithelial cell** Sven-Eric Jordt (Durham, NC, United States of America), Ana I. Caceres, Hanno Erythropel, Julie B. Zimmerman, Tamara Dewinter, Sairam V. Jabba
4385	**Outpatient smoking cessation: preliminary findings of a non-inferiority RCT comparing blended with face-to-face delivery mode** Lutz Siemer (Enschede, Netherlands), Marcel E. Pieterse, Somaya Ben Allouch, Marloes G. Postel, Robbert Sanderman, Marjolein Brusse-Keizer
4386	**Asthma do not counteract smoking initiation** Linnea Hedman (Luleå, Sweden), Helena Backman, Martin Andersson, Caroline Stridsman, Eva Rönmark
4387	**Acute health effects after passive e-vape among patients with COPD – an RCT exposure study** Karin Rosenkilde Laursen (Århus, Denmark), Jakob H. Bønløkke, Merete Bilde, Marianne Glasius, Elisabeth Bendstrup, Søren K. Kjærgaard, Anna-Carin Olin, Torben Sigsgaard
4388	**Evolution in disease severity during the E-cigarette or Vaping-Associated Lung Injury (EVALI) outbreak** Michael Lanspa (Salt Lake City, United States of America), Dixie Harris, Braden Anderson, Sean Callahan, Susan Rea, Dave Collingridge, David Guidry, Colin Grissom, Denitza Blagev
4389	**Association of low-intensity smoking with respiratory and lung cancer mortality** Pallavi Balte (New York, United States of America), Surya Bhatt, Paulo Chaves, David Couper, Neal Freedman, David Jacobs Jr, Miranda Jones, Ravi Kalhan, Amanda Mathew, Richard Kronmal, Laura Loehr, Stephanie London, Anne Newman, George O'Connor, Joseph Schwartz, Benjamin Smith, Lewis Smith, Wendy White, Sachin Yende, Elizabeth Oelsner
4390	**Discussion**

Channel 3 Session 364 10:40 - 11:40

Oral presentation: Sarcoidosis: from genetics to epidemiology

Abstracts presented in this session are also available as E-posters from 24 August 2020

Disease(s) : Interstitial lung diseases Airway diseases

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

Chairs : Hilario Nunes (Bobigny, France), Paolo Spagnolo (Padova (PD), Italy)

4391	**Introduction**
4392	**Whole Exome Sequencing in familial sarcoidosis targets pathways which may help early diagnosis of severe forms of sarcoidosis.** Alain Calender (Lyon, France), Dominique Valeyre, Thomas Weichhart, Valérie Besnard, Hilario Nunes, Yves Pacheco, § Group Sarcoidosis France
4393	**Active clinical pulmonary sarcoidosis is characterized by significantly reduced apoptosis rate of alveolar lymphocytes (AL)** Tomasz Wandtke (Bydgoszcz, Poland), Piotr Kopiński, Grzegorz Przybylski, Ewelina Wedrowska, Maciej Gnass, Joanna Golińska, Karina Szabłowska, Joanna Chorostowska-Wynimko
4394	**Autophagy is closely related to the inflammatory process in sarcoidosis uveitis** Thomas EL JAMMAL (Strasbourg, France), Alain Calender, Clarice X. Lim, Pascal Sève, Dominique Valeyre, Florence Jeny, Hilario Nunes, Thomas Weichhart, Yves Pacheco
4395	**Exhaled breath analysis using eNose technology in patients with sarcoidosis** Catharina Moor (Rotterdam, Netherlands), Judith Oppenheimer, Gizal Nakshbandi, Joachim Aerts, Paul Brinkman, Anke-Hilse Maitland- Van Der Zee, Marlies Wijsenbeek
4396	**The autoimmune criteria of sarcoidosis** Anna Starshinova (St. Petersburg, Russian Federation), Ulia Zinchenko, Anna Malkova, Natalia Basantsova, Igor Kudryavtsev , Michail Filatov, Vladimir Burdakov, Piotr Yablonskiy
4397	**Mortality in a well-defined group of predominantly caucasian pulmonary sarcoidosis patients** Marloes Huitema (Utrecht, Netherlands), Harold Mathijssen, Annelies L M Bakker, Repke J Snijder, Johannes Jurgen Mager, Jan C. Grutters, Martijn Cornelis Post

4398 **Type 2 diabetes mellitus risk associated with sarcoidosis: A Swedish population-based cohort study**
Elizabeth V. Arkema (Stockholm, Sweden), Joshua P. Entrop, Susanna Kullberg, Johan Grunewald, Kerstin Brismar

4399 **Discussion**

Channel 4 Session 365 10:40 - 11:40

Oral presentation: Exploring respiratory function

Abstracts presented in this session are also available as E-posters from 24 August 2020

Disease(s) : Airway diseases | Sleep and breathing disorders | Interstitial lung diseases

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

Chairs : Sam Bayat (Grenobe, France), Georgios Kaltsakas (Athens, Greece)

4400 **Introduction**

4401 **Oxygen uptake measured at the ventilatory threshold is a mortality marker in COPD**
Thomas Georges (Nantes, France), Salome Courat, Marc Le Vaillant , Hakima Ouksel, Arnaud Chambellan

4402 **Exertional dyspnea in COPD: the dominant role of increased diaphragmatic activation**
Matthew James (Kingston (ON), Canada), Kathryn Milne, Megha Ibrahim Masthan, J Alberto Neder, Denis O'Donnell

4403 **Determinants of exercise capacity in chronic obstructive pulmonary disease**
Simon Dominik Herkenrath (Köln, Germany), Marcel Treml, Anja Pietzke-Calcagnile, Matthias Boentert, Jens Spießhöfer, Peter Young, Winfried Randerath

4404 **Impact of bronchodilator therapy on diaphragmatic function in sleep in COPD**
Nicolle J. Domnik (Kingston (ON), Canada), Robin Scheeren, Sarah Taylor, Helen Driver, Sophie Crinion, J Alberto Neder, Denis O'Donnell

4405 **Beyond the lungs in fibrotic interstitial lung disease: does supplemental O2 improve skeletal muscle oxygenation and fatigue?**
Mathieu Marillier (Kingston, Canada), Anne-Catherine Bernard, Onofre Moran-Mendoza, Denis E O'Donnell, Samuel Verges, J Alberto Neder

4407 **Discussion**

Channel 5 Session 366 10:40 - 11:40

Oral presentation: Nasal high flow and non-invasive ventilation in acute and chronic care

Abstracts presented in this session are also available as E-posters from 24 August 2020

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

Method(s) : Respiratory intensive care | Physiology | Endoscopy and interventional pulmonology | General respiratory patient care | Pulmonary function testing

Chairs : Peter J. Wijkstra (Groningen, Netherlands), Maxime Patout (Mont-Saint Aignan, France)

4408 **Introduction**

4409

4410 **Late Breaking Abstract - CPAP is effective in treating COVID-19 patients with Type 1 respiratory failure.**
Alguili Elsheikh (Basildon, United Kingdom), Vijayalakshmi Karunanithi, Aarani Mahalingam, Muhammad Shafiq, Niranjan Setty, Johnson Samuel

4411 **Pilot study to assess physician compliance in non-invasive ventilation titration based on venous blood gasses versus arterial blood gasses in acute respiratory failure patients**
Jien Cheng (Walkerville, Australia), Vinod Aiyappan, Tanja Effing, Stephen Quinn, Dimitar Sajkov

4412

4413 **Comparison of High-Flow and Conventional Nasal Cannula Oxygen in Patients Undergoing Endobronchial Ultrasonography**
Elif Yilmazel Uçar (Erzurum, Turkey), Omer Araz, Bugra Kerget, Metin Akgun, Leyla Saglam

4414 **Effects of High Flow Nasal Cannula on the Coordination between Swallowing and Breathing in Postextubation Patients**
Pornpan Rattanajiajaroen (Bangkok, Thailand), Napplika Kongpolprom

4415	**Full-Face versus nasal mask for high intensity noninvasive ventilation in COPD patients with chronic hypercapnic respiratory insufficiency– a randomized crossover trial –** Daniel Majorski (Cologne, Germany), Rodion Majorski, Jens Callegari, Sarah Schwarz, Friederike Magnet, Jan Hendrik Storre, Claudia Schmoor, Wolfram Windisch	
4416	**Non-invasive ventilation can modulate the responses of vascular reactivity in COPD-HF patients to high-intensity exercise** Cássia Goulart (São Carlos, Brazil), Flavia Caruso, Adriana Araújo, Polliana Santos, Guilherme Arêas, Guilherme Casale, Renata Mendes, Andréa Da Silva, Audrey Borghi-Silva	
4417	**Non-invasive ventilation outpatient set up in amyotrophic lateral sclerosis** Shauna Sheridan (London, United Kingdom), Angela Reddy, Patrick B Murphy, Eui-Sik Suh, Shelley Srivastava, Phil Marino, Joerg Steier, Nicholas Hart, Michelle Ramsay, Georgios Kaltsakas	
4418	**Discussion**	

Studio Madrid — Session 367 — 10:40 - 11:40

Symposium: Cystic fibrosis: from cradle to old age

Managing the challenges of a lifelong condition

Aims : To describe major clinical and translational challenges in caring for patients with cystic fibrosis care in the 21st century; and to describe the pathophysiology and clinical characteristics of cystic fibrosis.

Disease(s) : Respiratory infections | Paediatric respiratory diseases

Tag(s) : Clinical, Translational

Target audience : Paediatrician, Adult pulmonologist/Clinician, Nurse, Physiologist

Chairs : Charlotte Suppli Ulrik (Virum, Denmark), Andrew Bush (London, United Kingdom)

10:40	**Introduction**	**4419**
10:45	**Lung inflammation in cystic fibrosis: an overlooked therapeutic target?** Stephen M. Stick (Perth (WA), Australia)	**4420**
10:54	**Transition from adolescent to adult care** Trudy Havermans (LEUVEN, Belgium)	**4421**
11:03	**Gastrointestinal issues in cystic fibrosis and their relevance to the lungs** Barry Plant (Cork, Ireland)	**4422**
11:12	**Comorbidities of advanced diseases in patients with cystic fibrosis** Josje Altenburg (Amsterdam (NH), Netherlands)	**4423**
11:21	**Changing demographics of cystic fibrosis and models of care** Stuart Elborn (Belfast (Belfast), United Kingdom)	**4424**
11:30	**Discussion and Q&A**	**4425**

Studio Milan — Session 368 — 10:40 - 11:40

Hot topics: Pneumothorax: to drain or not to drain

Aims : To review and discuss the most recent insights in spontanuous pneumothorax management.

Disease(s) : Airway diseases

Method(s) : Endoscopy and interventional pulmonology | General respiratory patient care | Imaging

Tag(s) : Clinical

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

Chairs : Jan van Meerbeeck (Edegem (Antwerp), Belgium), Federica Meloni (Pavia (PV), Italy)

10:40	**Introduction**	**4426**
10:45	**No need to treat spontanuous pneumothorax** Graham Simpson (Stratford, Australia)	**4427**
10:55	**Spontanuous pneumothorax need to be treated** Nick Maskell (Bristol (Avon), United Kingdom)	**4428**

11:05	**Aspiration of pneumothorax** Andreas Thelle (Bergen, Norway)	**4429**
11:15	**Role of surgery in pneumothorax treatment** Stefano Elia (Roma (RM), Italy)	**4430**
11:25	**Discussian and Q&A**	**4431**

Studio Paris Session 369 10:40 - 11:40

Symposium: Tuberculosis: learning from the WHO global health emergencies

Aims : To explain why tuberculosis has remained a global health emergency for 27 years; to identify differences and similarities in the approach to tuberculosis and other global health emergencies

Disease(s) : Respiratory infections

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

Tag(s) : Basic science, Clinical, Translational

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

Chairs : Marc Humbert (Le Kremlin-Bicêtre, France), Chair to be confirmed

10:40	**Introduction**	**4432**
10:45	**Overview of WHO global emergencies** Raquel Duarte (Porto, Portugal)	**4433**
10:55	**Modelling: hot spots and targeted contacts** Rein Houben (London, United Kingdom)	**4434**
11:05	**Diagnostic tests: what are the questions and what do we know so far?** Morten Ruhwald (Copenhagen, Denmark)	**4435**
11:15	**Establishing new treatments: the role of RCTs** Lorenzo Guglielmetti (Paris, France)	**4436**
11:25	**Discussion and Q&A**	**4437**

Studio Vienna Session 370 10:40 - 11:40

Live from the clinic: Bronchoscopic treatments for COPD and Emphysema

Aims : Innovative endoscopic techniques provide novel treatment options for patients emphysema and chronic bronchitis. Techniques that will be demonstrated are: endobronchial valve and coil placement, targeted lung denervation and rheoplasty

Disease(s) : Airway diseases

Method(s) : Endoscopy and interventional pulmonology

Tag(s) : Clinical

Target audience : Adult pulmonologist/Clinician, Physician in Pulmonary Training, General practitioner

Chairs : Peter Schenk (Grimmenstein-Hochegg, Austria), Maren Schuhmann (Heidelberg, Germany), Gilbert Massard (Esch Sur Alzette, Luxembourg)

10:40	**Introduction**	**4438**
10:45	**Valve: emphysema** Ralf Eberhardt (Heidelberg, Germany), Felix J.F. Herth (Heidelberg, Germany)	**4439**
11:00	**Coil: emphysema** Ralf Eberhardt (Heidelberg, Germany), Felix J.F. Herth (Heidelberg, Germany)	**4440**
11:10	**Rheoplasty: bronchitis** Felix J.F. Herth (Heidelberg, Germany), Ralf Eberhardt (Heidelberg, Germany)	**4441**
11:25	**Targeted lung denervation: COPD** Felix J.F. Herth (Heidelberg, Germany), Ralf Eberhardt (Heidelberg, Germany)	**4442**
11:35	**Discussion and Q&A**	**4443**

Studio Vienna Session 371 11:40 - 12:50

Live from the clinic: Bronchoscopy and ultrasound: Interstitial and pleural diseases

Aims : Endoscopic procedures are important for diagnosing sarcoidosis and various other (fibrotic) interstitial lung diseases. Techniques to be demonstrated are: bronchoscopy with confocal laser endomicroscopy and transbronchial cryobiopsies, EBUS-TBNA and or EUS (B) - FNA. Pleural diseases are frequent for both malignant and infectious/inflammatory diseases. Thoracoscopy is the standard technique for the diagnosis of pleural diseases. Techniques to be demonstrated: rigid thoracoscopy.
Transthoracic ultrasound is a helpful tool for investigating clinical problems such as suspected pleural fluid, white hemi thorax, atelectasis, empyema, and diaphragm function analysis. This session will demonstrate some of the most common investigations carried out using transthoracic ultrasound. Systematic assessment of the thorax using ultrasound and various abnormalities (e.g. effusion, atelectasis, empyema) and (post) COVID abnormalities will be demonstrated.

Method(s) : Endoscopy and interventional pulmonology

Target audience : Adult pulmonologist/Clinician, General practitioner

Chairs : Peter Schenk (Grimmenstein-Hochegg, Austria), Maren Schuhmann (Heidelberg, Germany), Gilbert Massard (Esch Sur Alzette, Luxembourg)

11:40	**Introduction**	**4444**
11:45	**Endobronchial ultrasound and trans-esophageal endobronchial ultrasound: sarcoidosis** Laurence M.M.J. Crombag (Amsterdam, Netherlands), Kirsten A. Mooij - Kalverda (Amsterdam, Netherlands)	**4445**
12:00	**Cryobiopsy, confocal laser endomicroscopy and optical coherence tomography in lung fibrosis** Peter I. Bonta (Amsterdam, Netherlands), Lizzy Wijmans (Amsterdam, Netherlands), Kirsten A. Mooij - Kalverda (Amsterdam, Netherlands)	**4446**
12:10	**Thoracic ultrasound: pleural effusion and empyema** Najib M. Rahman (Oxford, United Kingdom)	**4447**
12:20	**Thoracic ultrasound: COVID-19** Christian B. Laursen (Odense, Denmark)	**4448**
12:30	**Rigid thoracoscopy** Johannes M.A. Daniels (Amsterdam, Netherlands), Peter I. Bonta (Amsterdam, Netherlands)	**4449**
12:45	**Discussion and Q&A**	**4450**

Channel 1 Session 372 11:50 - 12:50

Primary care session: Part II: From symptoms to diagnosis in primary care

Aims : To present how to choose the most effective diagnostic work up and management for common respiratory symptoms.

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

Tag(s) : Clinical

Chairs : Janwillem W. H. Kocks (Groningen, Netherlands), Tiago Maricoto (Aveiro, Portugal)

11:50	**Introduction**	**4451**
11:55	**Respiratory care in different situations: an overview of the epidemiology of respiratory diseases and their (co)morbidity** António Jaime Correia De Sousa (Porto, Portugal)	**4452**
12:05	**Pharmacotherapy in patients with multi-morbid COPD** Ioanna Tsiligianni (Heraklion (Crete), Greece)	**4453**
12:15	**The blood (vessels) and the lung: what the general practitioner needs to know about circulation (a bit of heart) and the lungs** Anton Vonk Noordegraaf (Amsterdam, Netherlands)	**4454**
12:25	**Methods of managing airway diseases in pregnancy** Vibeke Backer (Copenhagen, Denmark)	**4455**
12:35	**Discussion and Q&A**	**4456**

Channel 2 Session 373 11:50 - 12:50

Oral presentation: Genetics and genomics of pulmonary arterial hypertension

Abstracts presented in this session are also available as E-posters from 24 August 2020

Disease(s) : Pulmonary vascular diseases Interstitial lung diseases

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

Chairs : Nicholas Morrell (Cambridge (Cambridgeshire), United Kingdom), Eric Austin (Nashville, United States of America)

4457	**Introduction**
4458	**Multi-omic profiling in pulmonary arterial hypertension** Pablo Otero-Núñez (London, United Kingdom), Christopher Rhodes, John Wharton, Emilia Swietlik, Sokratis Kariotis, Lars Harbaum, Mark Dunning, Jason Elinoff, Niamh Errington, Roger Thomson, James Iremonger, Gerry Coghlan, Paul Corris, Luke Howard, David Kiely, Colin Church, Joanna Pepke-Zaba, Mark Toshner, Stephen Wort, Ankit Desai , Marc Humbert , William Nichols , Laura Southgate , David-Alexandre Trégouët , Richard Trembath , Inga Prokopenko , Stefan Gräf , Nicholas Morrell , Dennis Wang , Allan Lawrie , Martin Wilkins
4459	**New rare variant associations with distinct phenotypes in patients with pulmonary arterial hypertension revealed with Bayesian inference.** Emilia Swietlik (Cambridge, United Kingdom), Katie A Lutz, Daniel Greene, Michael W Pauciulo, Tobias Tilly, Divya Pandya, Na Zhu, Marcella Cogliano, Carrie L Welch, Anna W Coleman, N.I.H.R Bioresource Rare Diseases Consortium, Yufeng Shen, Andrew Swift, Wendy Chung, William C Nichols, Nick W Morrell, Stefan Graf
4460	**Screening of pulmonary arterial hypertension in BMPR2 mutation carriers** David Montani (Le Kremlin-Bicêtre, France), Barbara Girerd, Xavier Jaïs, Laurent Savale, Pierantonio Laveneziana, Edmund Lau, Amir Bouchachi, Sébastien Hascoet, Sven Gunther, Laurent Godinas, Florence Parent, Christophe Guiganbert, Gilles Garcia, Denis Chemla, Philippe Hervé, Mélanie Eyries, Florent Soubrier, Olivier Sitbon, Gérald Simonneau, Marc Humbert
4461	**Genetic findings in patients with different forms of pulmonary hypertension** Christina Eichstaedt (Heidelberg, Germany), Zoe Saßmannshausen, Henning Gall, Ardeschir Ghofrani, Hans-Jürgen Seyfarth, Marianne Lerche, Michael Halank, Panagiota Xanthouli, Satenik Harutyunova, Benjamin Egenlauf, Katrin Milger-Kneidinger, Stefan Rosenkrankz, Ralf Ewert, Mareike Lankeit, Tobias Lange, Katrin Hinderhofer, Ekkehard Grünig
4462	**Haploid genetic screening identifies a novel regulator of BMPR2** Benjamin Dunmore (Cambridge, United Kingdom), Stephen Burr, Paul Upton, James Nathan, Nicholas Morrell
4463	**Protein truncating mutations in ATP13A3 promote pulmonary arterial hypertension** Ekaterina Legchenko (Cambridge, United Kingdom), Bin Liu, James West, Peter Vangheluwe, Paul Upton, Nicholas Morrell
4464	**Phenotype and outcome of PAH patients carrying a TBX4 mutation** Pierre Thoré (Nancy, France), Barbara Girerd, Xavier Jaïs, Laurent Savale, Maria Rosa Ghigna, Mélanie Eyries, Marilyne Levy, Caroline Ovaert, Amélie Servettaz, Anne Guillaumot, Claire Dauphin, Céline Chabanne, Emmanuel Boiffard, Vincent Cottin, Frédéric Perros, Gérald Simonneau, Sitbon Olivier, Florent Soubrier, Damien Bonnet, Martine Remy Jardin, Ari Chaouat, Marc Humbert, David Montani
4465	**Discussion**

Channel 3 Session 374 11:50 - 12:50

Oral presentation: Cellular involvement in lung injury

Abstracts presented in this session are also available as E-posters from 24 August 2020

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

Method(s) : Cell and molecular biology Physiology

Chairs : Darcy Wagner (Lund, Sweden), Olivier Burgy (Dijon, France)

4466	**Introduction**
4467	**Late Breaking Abstract - Aminopeptidase N/CD13 distinguishes two populations of colony-forming mesenchymal stromal cells in human lung tissue** Måns Kadefors (Malmö, Sweden), Sara Rolandsson Enes, Maria Weitoft, Stefan Scheding, Gunilla Westergren-Thorsson
4468	**Late Breaking Abstract - Myeloid-derived microvesicles as acute mediators of sepsis-induced lung vascular inflammation** Diianeira Maria Tsiridou (London, United Kingdom), Kieran Patrick O'Dea, Ying Ying Tan, Masao Takata
4469	**Blocking Focal adhesion kinase (FAK) protects against damage in a novel model of lymphocyte dominant lung injury** Danica Brister (Calgary (AB), Canada), Gurpreet Aulakah, Hong Zhang, Kamala Patel

4470	**A humanized animal model of pulmonary fibrosis based on cellular senescence** Fernanda Ines Hernandez Gonzalez (Barcelona, Spain), Federico Pietrocola, Neus Prats, Kathleen Meyer, Jose Alberto Lopez-Dominguez, Maria Isabel Muñoz, Miguel Rovira, Daniel Martinez, Jose Ramirez, Alvar Agusti, Rosa Faner, Jacobo Sellares, Manuel Serrano
4471	**High-plex immunofluorescence single cell analysis of fibrotic murine lung on tissue microarrays** Francesca Ravanetti (Parma, Italy), Roberta Ciccimarra, Maddalena Bolognesi, Francesca Ruscitti , Luisa Ragionieri, Giorgio Cattoretti , Gino Villetti , Fabio Stellari
4472	**The role of resident lung mesenchymal stromal cells in normal and aberrant lung development** Ivana Mizikova (Ottawa, Canada), Chanéle Cyr-Depauw, Flore Lesage, Maria Hurskainen, Arul Vadivel, Shumei Zhong, Bernard Thèbaud
4473	**Inflammatory microenvironment in both healthy controls and ARDS patients polarize clinically utilized MSCs towards a pro-inflammatory MSC phenotype** Sara Rolandsson Enes (Lund, Sweden), Thomas H. Hampton, David H. Mckenna, Claudia C. Dos Santos, Kathleen D. Liu, Bruce A. Stanton, Patricia R. M. Rocco, Michael A. Matthay, Daniel J. Weiss
4474	**High-dimensional mass cytometry analysis of immune cells in emphysematous lung tissue** Padmini P. S. J. Khedoe (Den Haag, Netherlands), Na Li, Li Jia, Nannan Guo, Pieter S. Hiemstra, Frits Koning, Jan Stolk
4475	**Discussion**

Channel 4 Session 375 11:50 - 12:50

Challenging clinical cases: Paediatric respiratory diseases

Aims : To describe the history, pathology, analysis and treatment of complex clinical cases in respiratory critical care. The session leaders will facilitate discussions among the case presenters and audience.

Disease(s) : Paediatric respiratory diseases

Tag(s) : Clinical

Target audience : Paediatrician, General practitioner, Respiratory critical care physician, Clinical researcher, Thoracic oncologist, Nurse, Physiologist, Respiratory physiotherapist, Radiologist, Thoracic surgeon

Chairs : Angela Zacharasiewicz (Wien, Austria), Fabio Midulla (Roma (RM), Italy)

11:50	**Introduction**	**4476**
11:55	**Is it more than just asthma?** Marijke Proesmans (Leuven, Belgium)	**4477**
12:01	**Discussion and Q&A**	**4478**
12:06	**Persistent non-tuberculous mycobacteria in cystic fibrosis** Manisha Ramphul (Leicester (Leicestershire), United Kingdom)	**4479**
12:12	**Discussion and Q&A**	**4480**
12:17	**Sudden onset of a thoracic mass** Ine Van Dijck (Leuven, Belgium)	**4481**
12:23	**Discussion and Q&A**	**4482**
12:28	**A deadly cough and the eosinophil** Louise Thomson (Glasgow (Glasgow), United Kingdom)	**4483**
12:34	**Discussion and Q&A**	**4484**
12:39	**A case of necrotizing pneumonia with an unusual presentation** Nadir Demirel (Rochester, United States of America)	**4485**
12:45	**Discussion and Q&A**	**4486**

Channel 5 Session 376 11:50 - 12:50

Oral presentation: Malignant pleural effusion in 2020: understanding the biology and clinical implications

Abstracts presented in this session are also available as E-posters from 24 August 2020

Disease(s) : Thoracic oncology

Method(s) : Imaging General respiratory patient care Cell and molecular biology Palliative care Surgery

Chairs : Nick Maskell (Bristol (Avon), United Kingdom), Kevin Blyth (Glasgow (Glasgow), United Kingdom)

4487	**Introduction**
4488	**Late Breaking Abstract - Nivolumab as salvage Treatment of Malignant Pleural Mesothelioma: a Single-Centre Experience** Marnix Lebeer (Leuven, Belgium), Jo Raskin, Charlotte De Bondt, Annemiek Snoeckx, Reinier Wener, Karen Zwaenepoel, Patrick Pauwels, Annelies Janssens, Jan Van Meerbeeck
4489	**Late Breaking Abstract - Comparison of VATS debulking surgery and HITHOC vs VATS talc pleurodesis alone in malignant pleural mesothelioma: a pilot study** Marcello Migliore (Catania (CT), Italy), Marco Nardini , Alfreda Meli, Corrado Spatola, Ines Monte, Tommaso Nicolosi , Mariacristina Scuderi , Hector Soto Parra , Marco Aiello, Paolo Vigneri , Giovanna Fantaci
4490	**BAP1 loss predicts longer survival for mesothelioma patients treated with pemetrexed-based chemotherapy.** Vasiliki Panou (Odense, Denmark), Amber Louw, Weronika Maria Szejniuk, Christos Meristoudis, Siaw Ming Chai, Louise Lynggård Andersen, Azadeh Birbaneh Asghari, Mogens Vyberg, Johnni Hansen, Jenette Creaney, Oluf Dimitri Røe
4491	**Validation of LENT and PROMISE scores in malignant pleural effusion in an Asian population** Charles Wong (Hong Kong, Hong Kong), Wing Cheuk Wong, Kit Ying Loletta So, Yin Chun Loretta Yam
4492	**The association between pleural fluid exposure and survival in malignant pleural mesothelioma: a retrospective cohort study in 761 patients** Rachelle Asciak (Attard, Malta), Nikolaos Kanellakis, Andrew Kidd, Anna Bibby, Nick Maskell, Kevin Blyth, Rachel Mercer, Peter Fsadni, Stephen Montefort, Ioannis Psallidas, Najib Rahman
4493	**Utility of pleural fluid for predictive marker testing in malignant pleural effusion** Jenny Ferguson (Glasgow, United Kingdom), Christopher Craig, Victoria Randles, Tracey Taylor, Louise Brown, Duncan Fullerton, Matthew Evison, Kevin G. Blyth, Selina Tsim
4494	**Studying the biological properties of pleural fluid: pleural fluid alone is adequate for cancer cell proliferation in vitro** Rachelle Asciak (Attard, Malta), Nikolaos Kanellakis, Xuan Yao, Megat Abd Hamid, Tao Dong, Rachel Mercer, Maged Hassan, Eihab Bedawi, Melissa Dobson, Stephen Montefort, Peter Fsadni, Najib Rahman, Ioannis Psallidas
4495	**Preliminary Results of the Meso-ORIGINS Feasibility Study** Katie Ferguson (Glasgow, United Kingdom), Jenny Ferguson, Selina Tsim, Rachael Mercer, Najib Rahman, Nick Maskell, Matthew Evison, Kevin Blyth
4496	**A Study of physical activity and sedentary behaviour in patients with malignant pleural effusion undergoing therapeutic interventions: ASPIRE** Radhika Banka (Mumbai (Maharashtra), India), Olalla Castro-Anon, Maged Hassan, Eihab Bedawi, Rachel Mercer, Rachelle Asciak, Rob Hallifax, Vineeth George, John Wrightson, Najib Rahman
4497	**Discussion**

Studio Madrid Session 377 11:50 - 12:50

Symposium: How much lung disease is really caused by work, and how to assess the worker who wishes to continue working?

Statement of findings by the Official European Respiratory Society and the American Thoracic Society

Aims : To describe the contribution of inhalational workplace hazards to the burden of nonmalignant lung diseases; to identify respiratory conditions with an estimated occupational burden 10%, including asthma, COPD, chronic bronchitis, idiopathic pulmonary fibrosis and hypersensitivity pneumonitis, and other noninfectious granulomatous lung diseases (sarcoidosis, PAP, community acquired pneumonia); to describe the contribution of workplace exposure to various respiratory diseases and strategies that can improve the recognition and prevention of these diseases; and to evaluate various work, workplace and fitness considerations for patients with occupational lung diseases.

Disease(s) : Airway diseases Interstitial lung diseases Respiratory infections

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

Tag(s) : Clinical

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

Chairs : Charlotte Suppli Ulrik (Virum, Denmark), Andrew Bush (London, United Kingdom)

11:50	**Introduction**	**4498**

11:55	**COPD and bronchitis; how much is caused by work, and which occupations cause the most harm?** David Fishwick (Sheffield (South Yorkshire), United Kingdom)	**4499**
12:04	**Wheeze and crackles: how much does the workplace contribute?** Isabella Annesi Maesano (Paris, France)	**4500**
12:13	**Rare lung diseases and work: always bear occupation in mind when assessing these patients** Denis Vinnikov (Almaty, Kazakhstan)	**4501**
12:22	**How important is work as a risk for lung infections? A story of tuberculosis and pneumonia** Nithiseelan Rajen Naidoo (Durban, South Africa)	**4502**
12:31	**Work, workplace and fitness considerations in patients with occupational lung diseases** Christopher Barber (Sheffield (South Yorkshire), United Kingdom)	**4503**
12:40	**Discussion and Q&A**	**4504**

Studio Milan Session 378 11:50 - 12:50

Symposium: Lung transplantation in the era of new drugs

Aims : To describe the effects of new therapeutic strategies in patients with pulmonary hypertension (PH), interstitial lung diseases (ILD) and cystic fibrosis (CF) on needs and indications for lung transplantation; and to evaluate outcomes of lung transplantation for these three indications.

Disease(s) : Interstitial lung diseases | Paediatric respiratory diseases | Pulmonary vascular diseases

Method(s) : Transplantation

Tag(s) : Clinical

Target audience : Adult pulmonologist/Clinician, General practitioner, Nurse, Paediatrician, Patient, Respiratory critical care physician, Thoracic surgeon

Chairs : Jan van Meerbeeck (Edegem (Antwerp), Belgium), Federica Meloni (Pavia (PV), Italy)

11:50	**Introduction**	**4505**
11:55	**The need for lung transplantation in cystic fibrosis (CF) in the era of new treatment** Christian Benden (Berne, Switzerland)	**4506**
12:05	**New antifibrotic drugs: will interstitial diseases patients still need lung transplantation?** Sara Tomassetti (Florence, Italy)	**4507**
12:15	**New issues in lung transplantation for pulmonary hypertension** Marion Delcroix (Leuven, Belgium)	**4508**
12:25	**Figures and outcomes of lung transplantation** Jens Gottlieb (Hannover, Germany)	**4509**
12:35	**Discussion and Q&A**	**4510**

Studio Paris Session 379 11:50 - 12:50

State of the art session: Airway diseases

Is there a problem with...? Treatment approaches in asthma and COPD

Aims : To evaluate the use of short-acting beta-2 agonist (SABA) monotherapy and oral corticosteroid (OCS) use in asthma; to describe concerns related to the use of inhaled corticosteroids (ICS) in COPD; and to determine the optimal inhalation device for patients with COPD.

Disease(s) : Airway diseases | Respiratory infections

Tag(s) : Clinical

Target audience : Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Patient, Respiratory physiotherapist, Nurse, Respiratory critical care physician

Chairs : Marc Humbert (Le Kremlin-Bicêtre, France), Chair to be confirmed

11:50	**Introduction**	**4511**
11:55	**Is there a problem with short-acting beta-2 agonist monotherapy in asthma?** David Price (Singapore, Singapore)	**4512**

12:05	**Is there a problem with oral corticosteroid use in asthma?** Guy Brusselle (Ghent, Belgium)	**4513**
12:15	**Is there a problem with inhaled corticosteroid use in COPD?** James D. Chalmers (Dundee (Angus), United Kingdom)	**4514**
12:25	**ERS Short Guideline: Inhaled corticosteroid withdrawal in COPD** Marc Miravitlles (Barcelona (CT), Spain)	**4515**
12:35	**Discussion and Q&A**	**4516**

13:15-14:15
INDUSTRY DEVICE MINI SYMPOSIA SEE PAGE 1

13:15-14:15
INDUSTRY LUNCHTIME SYMPOSIUM SEE PAGE 1

Channel 1 Session 388 14:30 - 15:30

Language session: French programme 2020: Part I
A joint ERS/SPLF session

Aims : This programme will be available in French and English.

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

Tag(s) : Clinical

Chairs : Bernard Maitre (Créteil Cedex, France), Marc Humbert (Le Kremlin-Bicêtre, France)

14:30	**Introduction**	**4554**
14:35	**Des lésions précancéreuses au cancer invasif / From precancerous lesions to invasive carcinoma** Céline Mascaux (Marseille, France)	**4555**
14:45	**Troubles respiratoires du sommeil et cancer : données épidémiologiques / Respiratory disorders associated with sleep and cancer: epidemiological data** Jean-Louis Pépin (Grenoble, France)	**4556**
14:55	**Tt anti fibrotiques hors FPI: approche raisonnée / Anti-fibrotic treatments for conditions other than idiopathic pulmonary fibrosis** Vincent Cottin (Lyon, France)	**4557**
15:05	**Mucoviscidose: enfin des traitements ciblés / Cystic fibrosis: targeted therapies, at last !** Pierre-Régis Burgel (Sorbonne Paris Cité, France)	**4558**
15:15	**Discussion and Q&A**	**4559**

Channel 2 Session 389 14:30 - 15:30

Oral presentation: Chronic cough: only symptom or disease?
Abstracts presented in this session are also available as E-posters from 24 August 2020

Disease(s) : Airway diseases | Interstitial lung diseases | Sleep and breathing disorders | Respiratory critical care

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

Chairs : Alyn Hugh Morice (Cottingham, United Kingdom), Chair to be confirmed

4560	**Introduction**
4561	**Novel capsaicin challenge methodology: a new diagnostic endpoint?** Kimberley Holt (Manchester, United Kingdom), Rachel Dockry, Joanne Mitchell, John Belcher, Jaclyn Smith
4562	**EPAC drives the anti-tussive effect of EP4 receptors on airway sensory nerves** Michael A. Wortley (London, United Kingdom), Sara J Bonvini, John J Adcock, Eric D Dubuis, Sarah A Maher, Raymond B Penn, Maria G Belvisi, Mark A Birrell

4563	**Can we predict response of refractory asthmatic cough to tiotropium? :a prospective study** Kensuke Fukumitsu (Kobe, Japan), Yoshihiro Kanemitsu, Ryota Kurokawa, Norihisa Takeda, Hirono Nishiyama, Yoshitsugu Inoue, Jenifer Yap, Satoshi Fukuda, Takehiro Uemura, Tomoko Tajiri, Hirotsugu Ohkubo, Ken Maeno, Yutaka Ito, Tetsuya Oguri, Masaya Takemura, Akio Niimi
4564	**The Efficacy of Bradanicline in Refractory Chronic Cough** Jaclyn Smith (Manchester (Greater Manchester), United Kingdom), Yoshihiro Kanemitsu, Peter Butera, Brendan Canning, Peter Dicpinigaitis, Vivek Iyer, Michael Kitt
4565	**Gefapixant does not have meaningful drug interactions with a MATE1/2K inhibitor or an OATP1B substrate** Jesse Nussbaum (South San Francisco, United States of America), Jacqueline Mccrea, Azher Hussain, Raymond Evers, Bennett Ma, John Laabs, Carmen Rillera, Graigory Garrett, Yun Li, Marie-Helen Vallee, Deborah Panebianco, S. Aubrey Stoch, Marian Iwamoto
4566	**Safety and efficacy of P2X3 antagonist BAY 1902607 in refractory chronic cough** Christian Friedrich (Berlin, Germany), Klaus Francke, Surinder S Birring, J W K Van Den Berg, Paul Marsden, Lorcan Mcgarvey, Alice Turner, Pascal Wielders, Isabella Gashaw, Stefan Klein, Alyn Morice
4567	**Azithromycin for the treatment of cough in idiopathic pulmonary fibrosis: A randomized controlled cross-over pilot trial.** Manuela Funke-Chambour (Bern, Switzerland), Christian Clarenbach, Katrin Hostettler, Martin Brutsche, Thomas K. Geiser, Sabina A. Guler
4568	**The effects of mechanical cough assist on rate of reintubation in patients with ineffective cough,a preliminary analysis** nicha ruamsap (bangkok, Thailand), Napplika Kongpolprom
4569	**Smartphone-based cough detection predicts asthma control – description of a novel, scalable digital biomarker** Frank Rassouli (Speicher, Switzerland), Peter Tinschert, Filipe Barata, Claudia Steurer-Stey, Elgar Fleisch, Milo Puhan, Tobias Kowatsch, Martin H. Brutsche
4570	**Unsupervised learning algorithm for chronic cough detection in the electronic health records (EHR) data** Xiao Luo (Indianapolis, United States of America), Jonathan Schelfhout, Vasu Chandrasekaran, Vladimir Turzhitsky, Paul Dexter, Zhi Han, Zuoyi Zhang, Wei Shao, Anna Roberts, Megan Metzger, Jarod Baker, Carmen La Rosa, Jessica Weaver, Vishal Bali, Kun Huang
4571	**Discussion**

Channel 3 Session 390 14:30 - 15:30

Oral presentation: What is new in interstitial lung diseases of known origin?

Abstracts presented in this session are also available as E-posters from 24 August 2020

Disease(s) : Interstitial lung diseases

Method(s) : Epidemiology General respiratory patient care Imaging

Chairs : Bruno Crestani (Paris, France), Raphaël Borie (Paris, France)

4572	**Introduction**
4573	**LSC - 2020 - The respiratory microbiome and metabolome in chronic hypersensitivity pneumonitis** Rachele Invernizzi (London, United Kingdom)
4574	**Methotrexate and risk of Lung disease in Rheumatoid Arthritis: A nationwide population-based cohort study from Denmark** Saher B. Shaker (Hellerup, Denmark), Else Helene Ibfelt, Rikke Kart Jacobsen, Tine Iskov Kopp, René Lindholm Cordtz, Anna Svarre Jakobsen, Niels Seersholm, Lene Dreyer
4575	**Combined assessment of regional lung function and morphology using a contrast enhanced Dual-Energy CT protocol: Prospective value of functional imaging biomarkers in longitudinal analysis of patients with Interstitial Lung Disease** Sarah Scharm (Hannover, Germany), Sabine Dettmer, Jens Vogel-Claussen, Antje Prasse, Lars Knudsen, Frank Wacker, Jan Fuge, Hoen-Oh Shin
4576	**Does nintedanib have the same effect on FVC decline in patients with progressive fibrosing ILDs treated with DMARDs or glucocorticoids?** Nazia Chaudhuri (Manchester (Greater Manchester), United Kingdom), Vincent Cottin, Stefania Cerri, Michael Kreuter, Maria Otaola, Diego Castillo Villegas, Craig Glazer, Heiko Müller, Carl Coeck, Manuel Quaresma, Toby M Maher

4577	**Effects of nintedanib in patients with progressive fibrosing ILDs and differing baseline FVC: further analyses of the INBUILD trial** Claudia Valenzuela (Madrid, Spain), Toby M Maher, Francesco Bonella, Alberto Pesci, Stephane Jouneau, Nina M Patel, Evans R Fernández Pérez, Rainer-Georg Goeldner, Susanne Stowasser, Rozsa Schlenker-Herceg, Manuel Quaresma, Vincent Cottin
4578	**Effects of nintedanib on progression of ILD in patients with fibrosing ILDs and a progressive phenotype: further analyses of the INBUILD trial** Kevin R. Flaherty (Pinckney, United States of America), Athol U. Wells, Vincent Cottin, Anand Devaraj, Yoshikazu Inoue, Luca Richeldi, Simon L. F. Walsh, Martin Kolb, Dirk Koschel, Teng Moua, Susanne Stowasser, Rainer-Georg Goeldner, Rozsa Schlenker-Herceg, Kevin K. Brown
4579	**Discussion**

Channel 4 — Session 391 — 14:30 - 15:30

Challenging clinical cases: Pulmonary vascular diseases

Aims : To describe the history, pathology, analysis and treatment of complex clinical cases in respiratory critical care. The session leaders will facilitate discussions among the case presenters and audience.

Disease(s) : Pulmonary vascular diseases

Tag(s) : Clinical

Target audience : Adult pulmonologist/Clinician, Respiratory critical care physician, General practitioner, Clinical researcher, Thoracic surgeon, Radiologist, Nurse

Chairs : Joanna Pepke-Zaba (Cambridge, United Kingdom), Olivier Sitbon (Le Kremlin-Bicêtre, France)

14:30	**Introduction**	4580
14:35	**Pulmonary hypertension in a COPD Patient** Johad Khoury (Elaboun, Israel)	4581
14:41	**Discussion and Q&A**	4582
14:46	**Correct diagnosis and treatment options for a boy with significant dyspnea on exertion and markedly reduced exercise capacity** Polona Mlakar (Ljubljana, Slovenia)	4583
14:52	**Discussion and Q&A**	4584
14:57	**The use of genetic testing in an atypical presentation of pulmonary veno-occlusive disease** Alexander MacLellan (Glasgow, United Kingdom)	4585
15:03	**Discussion and Q&A**	4586
15:08	**Patient with ankylosing spondylitis and pulmonary hypertension** Anastasia Anthi (Athens, Greece)	4587
15:14	**Discussion and Q&A**	4588
15:19	**A case of pulmonary choriocarcinoma presenting as a pulmonary thromboembolism** Rodrigo Zebadua (Ciudad de México, Mexico)	4589
15:25	**Discussion and Q&A**	4590

Channel 5 — Session 392 — 14:30 - 15:30

Oral presentation: Tuberculosis: part 1

Abstracts presented in this session are also available as E-posters from 24 August 2020

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

Chairs : Raquel Duarte (Porto, Portugal), Simon Tiberi (London, United Kingdom)

4591	**Introduction**
4592	**Chemotherapy outcome of pulmonary tuberculosis with mutations in the FN1 and TNXB genes** Kirill Samsonov (Omsk, Russian Federation), Anna Mordyk

4593	**Genomic analysis of new pre-XDR/XDR cluster of Mycobacterium tuberculosis Beijing genotype emerging in Russia** Igor Mokrousov (St. Petersburg, Russian Federation), Viacheslav Sinkov, Polina Khromova, Alena Gerasimova, Ekaterina Chernyaeva, Natalia Solovieva	
4594	**Determination of specific inflammation activity in the presence of the minimal tuberculous changes** Tatyana Tyulkova (Moscow, Russia, Russian Federation), Nelli Khabibullina, Sergey Skornyakov, Nikolay Chernavin, Pavel Chernavin	
4595	**Higher adverse drug reactions but better completion rate of twelve-dose weekly rifapentine plus isoniazid comparing with nine-month daily isoniazid for latent tuberculosis infection among patients under maintenance dialysis** Shu-Yung Lin (Taipei, Taiwan), Ping-Huai Wang, Jia-Yih Feng, Chin-Chung Shu	
4596	**Diabetic status and the risk of tuberculosis: a nationwide population-based study** Jung Eun Yoo (Seoul, Republic of Korea)	
4597	**Discussion**	

Studio Madrid — Session 393 — 14:30 - 15:30

Hot topics: (Re-)discovering the small airway epithelium in COVID-19, fibrosing lung diseases and pulmonary regeneration

Aims : To summarize the clinical evidence for a pathogenic role of small airway cells in COVID-19 and fibrosing lung diseases; to explore the novel concept that small airways are central to the processes involved in regenerating and repairing a fibrosing lung. New developments regarding innovative in vitro models will allow us to exploit the regenerative and therapeutic potential of modulating small airway cells in lung fibrosis. AIMS: To highlight the contribution of small airway cells in COVID-19 and lung fibrosis from a clinical perspective; to understand the key role of small airway cells in lung regeneration and fibrosis; to demonstrate the regenerative potential of small airway cells and their likelihood as new therapeutic targets for pulmonary fibrosis; to explore novel models to study small airway cells and their regenerative capacities in pulmonary fibrosing diseases.

Disease(s) : Airway diseases | Interstitial lung diseases

Tag(s) : Basic science

Target audience : Clinical researcher, Medical Student, Pathologist, Scientist (basic, translational), Thoracic surgeon

Chairs : Anh Tuan Dinh-Xuan (Paris, France), Niki Ubags (Epalinges, Switzerland)

14:30	**Introduction**	**4598**
14:35	**The role of bronchial epithelial cells in COVID-19 infection and pathogenesis** Roland Eils (Heidelberg, Germany)	**4599**
14:45	**Airway basal cell involvement in idiopathic pulmonary fibrosis** Antje Prasse (Hannover, Germany)	**4600**
14:55	**Uncovering the plasticity of lung epithelial cells by scRNA sequencing** Herbert Schiller (Munich, Germany)	**4601**
15:05	**Modeling the regenerative potential of airway epithelial cells** Pieter S. Hiemstra (Leiden, Netherlands)	**4602**
15:15	**Discussion and Q&A**	**4603**

Studio Milan — Session 394 — 14:30 - 15:30

Symposium: Fear and anxiety, psychological wellbeing and prevention of psychological distress in chronic lung diseases

Risk factors and novel treatment strategies

Aims : To dentify fear and anxiety as important risk factors for poor treatment outcomes in asthma and COPD as well as differentiate between the role of fear versus anxiety; to explain the role of different behavioral treatment approaches in the treatment of asthma and COPD and explore the role of anxiety and fear in adaptive vs. non-adaptive trigger avoidance behaviors; to identify novel treatment approaches that focus on countering experiential and behavioral avoidance; to identify challenges to the implementation of behavioral health in asthma and COPD care and indicate how innovative treatment approaches (ehealth, mhealth, training respiratory nurses in cognitive behavioral therapy techniques) can help mitigate these challenges.

Chairs : Thierry Troosters (Leuven, Belgium), Marion Delcroix (Leuven, Belgium)

14:30	**Introduction**	**4604**
14:35	**Patient perspective: video** Ron Flewett (, United Kingdom)	**4605**

14:40	**Disease-specific fears in COPD** Thomas Reijnders (Heverlee, Belgium)	**4606**
14:50	**Nurse-led cognitive behavioral therapy in COPD** Karen Heslop-Marshall (Newcastle upon Tyne (Tyne and Wear), United Kingdom)	**4607**
15:00	**Expressing empathy in 15 minutes or less: challenges for clinicians** Debra Reynolds-Sandford (Adelaide (SA), Australia)	**4608**
15:10	**Integrating early palliative care for patients with idiopathic pulmonary fibrosis and their caregivers** Kathleen Lindell (Pittsburgh, United States of America)	**4609**
15:20	**Discussion and Q&A**	**4610**

Studio Paris Session 395 14:30 - 15:30

Clinical trials session: ALERT: Asthma in adults and children

Chairs : Reinoud Gosens (Groningen, Netherlands), Marijke Proesmans (Leuven, Belgium)

Discussants : Celeste Michala Porsbjerg (Copenhagen, Denmark), Mina Gaga (Athens, Greece)

4611	**Introduction**
4612	**Late Breaking Abstract - Masitinib in severe asthma: Results from a randomized, phase 3 trial** Pascal Chanez (Marseille, France), Lavinia Davidescu, Pascal Chanez, Grigoriy Ursol, Oleksii Korzh, Vikranth Deshmukh, Lesia Kuryk, Nortje Monja-Marie, Olga Godlevska, Gilles Devouassoux, Eduard Khodosh, Elliot Israel, Colin Mansfield, Olivier Hermine
4613	**Late Breaking Abstract - Dupilumab long-term safety and efficacy in patients with asthma: LIBERTY ASTHMA TRAVERSE** Michael E. Wechsler (Denver, United States of America), Michael E. Wechsler, Linda B. Ford, Jorge F. Maspero, Ian D. Pavord, Yuji Tohda, David Langton, Christian Domingo, Alberto Papi, Arnaud Bourdin, Henrik Watz, Hae Sim Park, Kenneth R. Chapman, Xuezhou Mao, Benjamin Ortiz, Michel Djandji, Upender Kapoor, Faisal A. Khokhar, Leda P. Mannent, Marcella Ruddy, Elizabeth Laws, Nikhil Amin, Megan Hardin
4614	**Late Breaking Abstract - LUSTER-1 and -2: randomised controlled trials of fevipiprant in severe asthma** Christopher E. Brightling (Leicester (Leicestershire), United Kingdom), Christopher E. Brightling, Mina Gaga, Hiromasa Inoue, Jing Li, Jorge Maspero, Sally Wenzel, Somopriyo Maitra, David Lawrence, Florian Brockhaus, Thomas Lehmann, Caterina Brindicci, Barbara Knorr, Eugene Bleecker
4615	**Wrap-up by discussant and discussion** Celeste Michala Porsbjerg (Copenhagen, Denmark)
4616	**Late Breaking Abstract - Add-on mepolizumab for chronic rhinosinusitis with nasal polyps: SYNAPSE study** Claire Hopkins (London, United Kingdom), Claire Hopkins, Claus Bachert, Wytske Fokkens, Martin Desrosiers, Martin Wagenmann, Stella Lee, Ana Sousa, Steven Smith, Neil Martin, Bhabita Mayer, Robert Chan, Joseph Han
4617	**Effect of controller prescribing according to rs1042713 genotype on asthma related quality of life in young people (PACT): a randomized controlled trial** Tom Ruffles (hove, United Kingdom), Thomas Ruffles, Christina Jones, Colin Palmer, Steve Turner, Jonathan Grigg, Roger Tavendale, Fiona Hogarth, Petra Rauchhaus, Kristina Pilvinyte, Helen Smith, Roberta Littleford, Brian Lipworth, Somnath Mukhopadhyay
4618	**Late Breaking Abstract - Corticosteroid optimisation in severe asthma using composite biomarkers to adjust dose versus a symptom/risk-based algorithm** Liam Heaney (Belfast (Belfast), United Kingdom), Tim Hardman, Liam Heaney, John Busby, Catherine Hanratty, Ratko Djukanovic, Ashley Woodcock, Samantha Walker, Joseph Arron, David Choy, Peter Bradding, Christopher Brightling, Rehka Chaudhuri, Douglas Cowan, Rob Niven, Stephen Fowler, Tim Harrison, Peter Howarth, Jim Lordan, Adel Mansur, Andrew Menzies-Gow, Douglas Robinson
4619	**Wrap-up by discussant and discussion** Mina Gaga (Athens, Greece)

Studio Vienna Session 396 14:30 - 15:30

Lungs on fire: Respiratory critical care

Aims : To describe real-life clinical cases during the innovative interactive session, including the presentation of cases that have various levels of difficulty and often necessitate a differential diagnosis. This session will be led by a discussant, who will present the cases to a panel of experts and the audience. The discussant will encourage discussion among the panel of experts, who are encountering these cases for the first time. To further determine diagnostic and therapeutic options for these patients, the discussant will also invite audience participation in the reflexion and discussion of these cases.

Disease(s) : Respiratory critical care

Tag(s) : Clinical

Target audience : Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Physiologist, Nurse, Paediatrician

Chairs : Daiana Stolz (Basel, Switzerland), Omar S. Usmani (London, United Kingdom), Tobias Welte (Hannover, Germany)

Discussants : Antoni Torres (Barcelona, Spain)

	Case 1 - Author: Hsiao-Ling Chia (Taiwan)	**4620**
	Discussion and Q&A	**4621**
	Case 2 - Author: Baiba Laiko (Latvia)	**4622**
	Discussion and Q&A	**4623**
	Case 3 - Author: Christoph Fisser (Germany)	**4624**
	Discussion and Q&A	**4625**
	Case 4 - Author: Anabell Rojas (Dominican Republic)	**4626**
	Discussion and Q&A	**4627**
14:30	**Introduction**	**4628**
14:32	**Presentation of cases by the session facilitator** Antoni Torres (Barcelona, Spain)	**4629**

Channel 1 Session 397 15:40 - 16:40

Respiratory medicine meets other disciplines: Precision endotyping of asthma: time for action

A joint ERS/EAACI symposium

Aims : To describe the precision endotyping of asthma and its co-morbidities by linking pathobiological mechanisms with visible properties via specific biomarkers translated into pathway-specific diagnostic tests; to evaluate how artificial intelligence complements standard diagnostic procedures in patients with allergic diseases and asthma; to determine how this approach enhances accurate asthma classification and individualised targeted treatments; and to describe dynamic complex endotypes consisting of several subendotypes and its validation.

Disease(s) : Airway diseases

Method(s) : Cell and molecular biology Epidemiology Physiology

Tag(s) : Translational

Target audience : Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Nurse, Patient, Physiologist, Respiratory physiotherapist, Journalist, Scientist (basic, translational)

Chairs : Marek Jutel (Wroclaw, Poland), Antonio Spanevello (Milan, Italy)

15:40	**Introduction**	**4630**
15:45	**Allergy testing and immunotherapy guidelines** Ioana Agache (Brasov (Brasov), Romania)	**4631**
15:55	**High-dimensional multivariable analysis of asthma and its co-morbidities** Bianca Schaub (Munich, Germany)	**4632**
16:05	**Upper airways in asthmatic patients** Apostolos Bossios (Stockholm, Sweden)	**4633**
16:15	**Linking clinical algorithms to precision medicine** Matteo Bonini (Rome, Italy)	**4634**
16:25	**Does the endotype-driven approach translate into improved quality of life?** Breda Flood (Gorey, Ireland)	**4635**

16:30 **Discussion and Q&A** **4636**

Channel 2 Session 398 15:40 - 16:40

Oral presentation: Diagnosis and management of asthma

Abstracts presented in this session are also available as E-posters from 24 August 2020

Disease(s) : Airway diseases

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

Chairs : Joan B Soriano (Madrid, Spain), Padmaja Subbarao (Toronto (ON), Canada)

4637 **Introduction**

4638 **Late Breaking Abstract - Identifying preventable early risk factors for asthma in Indigenous children: a population cohort study in Western Australia.**
Bronwyn Brew Haasdyk (Sydney (NSW), Australia), Alison Gibberd, Guy Marks, Natalie Strobel, Wendy Allen, Louisa Jorm, Georgina Chambers, Sandra Eades, Bridgette Mcnamara

4639 **Late Breaking Abstract - Prevalence, characterization and costs of severe asthma in Spain (BRAVO 1)**
Christian Domingo Ribas (Sabadell (Barcelona), Spain), Ana Sogo Sagardia, Elena Prina, Antoni Sicras Mainar, Aram Sicras Navarro, Clara Engroba Teijeiro

4640 **Late Breaking Abstract - Restrictive spirometry, asthma and respiratory symptoms; a cross-sectional analysis from two multicentre studies.**
Emil Ekbom (Uppsala, Sweden), Össur Emilsson, Andrei Malinovschi, Christer Janson

4641 **Age at asthma diagnosis and probability of remission in a population-based study**
Jasmin Honkamäki (Tampere, Finland), Päivi Piirilä, Hanna Hisinger-Mölkänen, Leena E Tuomisto, Heidi Andersen, Heini Huhtala, Anssi Sovijärvi, Helena Backman, Bo Lundbäck, Eva Rönmark, Lauri Lehtimäki, Paula Pallasaho, Pinja Ilmarinen, Hannu Kankaanranta

4642 **Risk factors for severe asthma among adults with asthma**
Helena Backman (Lulea, Sweden), Caroline Stridsman, Sven-Arne Jansson, Linnea Hedman, Hannu Kankaanranta, Anne Lindberg, Bo Lundback, Eva Rönmark

4643 **Asthma exacerbations during pregnancy increase risk of adverse perinatal outcomes**
Annelies Robijn (New Lambton Heights (NSW), Australia), Bronwyn Brew, Megan Jensen, Gustaf Rejnö, Cecilia Lundholm, Vanessa Murphy, Catarina Almqvist

4644 **Maternal antibiotic use and infections during pregnancy and asthma in offspring**
Aino-Kaisa Rantala (Oulu, Finland), German Tapia, Maria Christine Magnus, Øystein Karlstad, Ketil Størdal, Siri Håberg, Lars Christian Stene, Jouni J K Jaakkola, Wenche Nystad

4645 **SABA overreliance and physician visits in Canada**
Stephen G Noorduyn (Mississauga, Canada), Stephen Noorduyn, Mena Soliman, Karissa Johnston, Qian Christina, Paul Hernandez, Erika Penz

4646 **Real-world treatment patterns of benralizumab therapy for patients with severe asthma**
Stephen G Noorduyn (Mississauga, Canada), Alain Gendron, Niroshan Sriskandarajah, Karissa Johnston, Kathy M Osenenko, Stephen G Noorduyn

4647 **Spirometric phenotypes from early childhood to young adulthood – A CADSET (Chronic Airway Disease Early Stratification) study**
Erik Melén (Stockholm, Sweden), Jenny Hallberg, Helena Backman, Eugenio Baraldi, Robab Breyer-Kohansal , Maribel Casas, Fan Chung, Liesbeth Duijts, Raquel Granell, Torben Sigsgaard, Maarten Van Der Berge, Judith Vonk, Elise Heuvelin, Rosa Faner, Gavin Donaldson, Jadwiga Wedzicha, Alvar Agusti, Anke-Hilse Maitland Van Der Zee

4648 **Discussion**

Channel 3 Session 399 15:40 - 16:40

Oral presentation: Aspects of acute and chronic airway infections in children

Abstracts presented in this session are also available as E-posters from 24 August 2020

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

Chairs : Stefan Unger (Edinburgh (Edinburgh), United Kingdom), Refiloe Masekela (Pretoria, South Africa)

4649 **Introduction**

4650	**Risk of tuberculosis in pediatric patients treated with biological agents** Ayse Tana Aslan (Ankara, Turkey), Pelin Asfuroglu, Tugba Ramasli Gursoy, Zeynep Reyhan Onay, Tugba Sismanlar Eyuboglu, Emine Nur Sunar Yayla, Sevcan Azime Bakkaloglu Ezgu, Husnu Oguz Soylemezoglu, Necla Buyan
4651	**Does declining nutritional status in ataxia telangiectasia cause decline in immunological function** Suha Ugur (Liverpool, United Kingdom), Hannah Bailey, Andrew Bush, Lucy Cliffe, Elizabeth Mcdermott, Andrew Payle, Mohnish Suri, Jayesh Bhatt
4652	**Impact of nutritional supplementation on prolonged symptoms and the respiratory microbiome in children with acute respiratory infection** Stefan Unger (Edinburgh (Edinburgh), United Kingdom), Melanie Clerc, Juergen Schwarze, Andrew Prentice, Kate Templeton, Debby Bogaert
4653	**Community use of digital auscultation to improve diagnosis of childhood pneumonia in low resource setting** Salahuddin Ahmed (Dhaka, Bangladesh), Eric Mccollum, Harish Nair, Steve Cunningham, Abdullah Baqui
4654	**Pseudomonas Aeruginosa Infection in Respiratory Samples in Children with Neurodisability – to treat or not to treat?** Elizabeth Gregson (Sheffield, United Kingdom), Lowri Thomas, Kevin Auton, Heather Elphick
4655	**Age-dependent response of the human nasal epithelium to rhinovirus infection** Loretta Müller (Bern, Switzerland), Jakob Usemann, Marco P Alves, Nicole Ritz, Philipp Latzin
4656	**Discussion**

Channel 4 Session 400 15:40 - 16:40

Oral presentation: Best abstracts in the field of pulmonary rehabilitation

Abstracts presented in this session are also available as E-posters from 24 August 2020

Disease(s) : Airway diseases | Interstitial lung diseases | Sleep and breathing disorders

Method(s) : Cell and molecular biology | General respiratory patient care | Physiology | Pulmonary rehabilitation

Chairs : Frits M.E. Franssen (Horn, Netherlands), Guido Vagheggini (Volterra (PI), Italy)

4657	**Introduction**
4658	**In vitro electrostimulation reveals a lack of muscle adaptation in myotubes from COPD patients** Pascal Pomiès (Montpellier Cedex 5, France), Matthias Catteau, Emilie Passerieux, Léo Blervaque, Bronia Ayoub, Jacques Mercier, Farès Gouzi, Maurice Hayot
4659	**INCREASED MYOSTATIN AS A NEGATIVE REGULATOR OF MUSCLE REGENERATION POTENTIAL IN SARCOPENIC COPD PATIENTS: CLINICAL IMPLICATIONS** Antonio Sancho Muñoz (, Spain), Maria Guitart, Diego Rodríguez, Joaquim Gea, Juana Martínez Llorens, Esther Barreiro Portela
4660	**Effects of a behaviour change intervention aimed to increase physical activity on sleep quality of adults with asthma: an RCT** Patricia Duarte Freitas (Antibes, France), Natália F P Passos, Regina M Carvalho-Pinto, Alberto Cukier, Rafael Stelmach, Celso R F Carvalho
4661	**Effects of high flow nasal cannula during exercise in COPD patients with exercise induced desaturation** Natthawan Sanguanwong (Uthaitani, Thailand), Nareerat Sae-Eao, Anan Ananpipatkul, Dittapol Muntham, Worawan Sirichana
4662	**Benefits of high-flow nasal cannula oxygen therapy on exercise capacity following acute exacerbation in ILD patients** Shinichi Arizono (Hamamatsu (Shizuoka), Japan), Masaki Oomagari, Yorihide Yanagita, Hikaru Machiguchi, Yuichi Tawara, Koshi Yokomura
4663	**Sing-a-Lung: Group singing as training modality in pulmonary rehabilitation for patients with Chronic Obstructive Pulmonary Disease (COPD): A multicenter, cluster-randomised, non-inferiority controlled trial** Mette Kaasgaard (Copenhagen, Denmark), Daniel Bech Rasmussen, Anders Løkke Ottesen, Peter Vuust, Ole Hilberg, Uffe Bodtger
4664	**Discussion**

Channel 5 Session 401 15:40 - 16:40

Oral presentation: Antibiotic therapy for pneumonia and pleural infections

Abstracts presented in this session are also available as E-posters from 24 August 2020

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

Chairs : Elizabeth Sapey (Birmingham (West Midlands), United Kingdom), Stefano Aliberti (Milano (MI), Italy)

4665	**Introduction**
4666	**Late Breaking Abstract - Biofilm formation by Pseudomonas aeruginosa in empyema** Wang Ke (Nan ning, China), Jinhua Liang , Zhenqiang Zhang , Jinlong Li , Jinliang Kong
4667	**Decreased mortality with rollout of electronic pneumonia clinical decision support across 16 Utah hospital emergency departments** Nathan Dean (Murray, United States of America), Caroline Vines, Jenna Rubin, Brandon Webb, Jason Jacobs, Allison Butler, Jaehoon Lee, Al Jephson, Nathan Jenson, Missy Walker, Jeremy Irvin, Matthew Lungren, Jason Carr, Raj Srivastava, Todd Allen
4668	**The impact of a stewardship programme on outcomes in patients admitted with community-acquired pneumonia** Markus Fally (Copenhagen, Denmark), Simone Israelsen, Britta Tarp, Thomas Benfield, Pernille Ravn
4669	**International Guideline concordance of empiric antibiotic use in community-acquired pneumonia** Sergi Pascual Guardia (Barcelona, Spain), Judith Marin-Corral, Manuela Carugati, Stefano Aliberti, Oriol Sibila, Francisco Sanz, Giovanni Sotgiu, Pedro J. Marcos, Martin Kolditz, Marcos I. Restrepo
4670	**Association of doxycycline and mortality in patients hospitalized with pneumonia** Eric Mortensen (Simsbury, United States of America), Mark Metersky, Antonio Anzueto
4671	**Methicillin-susceptible Staphylococcus aureus in Community-Acquired Pneumonia: Risk Factors and Outcomes** Catia Cilloniz Campos (Barcelona, Spain), Cristina Dominedò, Albert Gabarrus, Carolina Garcia-Vidal, Estela Moreno, Carmen Rosa Vargas, Antoni Torres
4672	**PLEURAL EFFUSION IN PATIENTS WITH COMMUNITY ACQUIRED PNEUMONIA** Joseba Andia Iturrate (Barakaldo, Spain), Luis Alberto Ruiz Iturriaga, Beatriz Gonzalez Quero, Ainhoa Gomez Bonilla, Elena Garay Llorente, Borja Ortiz De Urbina Antia, Sonia Castro Quintas, Alejandro Rezola Carasusan, Leyre Serrano Fernandez, Rafael Zalacain Jorge
4673	**Identification of pleural infection microbiological patterns by applying next generation sequencing and bioinformatics analysis** Nikolaos I. Kanellakis (Patras, Greece), Eihab O. Bedawi, John M. Wrightson, John P. Corcoran, Robert Hallifax, Rachel M. Mercer, Vineeth George, Radhika Banka, Maisha Jabeen, Rachelle Asciak, Robert F. Miller, Nick A. Maskell, Ioannis Psallidas, Timothy Hinks, Derrick Crook, Najib M. Rahman
4674	**Discussion**

Studio Madrid Session 402 15:40 - 16:40

Symposium: Air pollution and interstitial lung disease: a call to arms

Aims : To describe the associations of air pollution with interstitial lung diseases (ILD) and pulmonary fibrosis (PF); to describe the importance of collective preventive measures to help patients breathe clean air and reduce their risks of ILD and progression to PF and death.

Disease(s) : Interstitial lung diseases

Method(s) : Epidemiology

Tag(s) : Clinical

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

Chairs : Anh Tuan Dinh-Xuan (Paris, France), Niki Ubags (Epalinges, Switzerland)

15:40	**Introduction**	**4675**
15:45	**Genetic predisposition and the environment** Maria Molina Molina (Barcelona, Spain)	**4676**
15:54	**Air pollution: particle size matters** Hugh Davies (Vancouver, Canada)	**4677**
16:03	**Interstitial lung disease and air pollution: in India and beyond** Sheetu Singh (Jaipur (Rajasthan), India)	**4678**
16:12	**Intrinsic and extrinsic environmental factors in IPF** Ganesh Raghu (Seattle, United States of America)	**4679**

16:21	**Microbiome effects on immunity, health and diseases of the lungs** Katerina Antoniou (Heraklion, Greece)	**4680**
16:30	**Discussion and Q&A**	**4681**

Studio Milan Session 403 15:40 - 16:40

Symposium: Don't blame your parents: causes of pulmonary hypertension in early life

Aims : To present recent advances in gene discovery in pulmonary hypertension; to explain how these genes might provide new insights into the disease; to describe genetic screening in pulmonary hypertension; and to determine the biology and clinical characteristics of lung developmental disorders and their effects on the development of pulmonary hypertension.

Disease(s) : Pulmonary vascular diseases

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

Tag(s) : Translational

Target audience : Adult pulmonologist/Clinician, Paediatrician, Patient, Radiologist, Scientist (basic, translational)

Chairs : Thierry Troosters (Leuven, Belgium), Marion Delcroix (Leuven, Belgium)

15:40	**Introduction**	**4682**
15:45	**What do we learn from novel genes in pulmonary hypertension?** Nicholas Morrell (Cambridge (Cambridgeshire), United Kingdom)	**4683**
15:55	**Should we screen for hereditary pulmonary hypertension?** David Montani (Le Kremlin-Bicêtre, France)	**4684**
16:05	**Does gender matter in pulmonary hypertension?** Anna Ryan Hemnes (Nashville, United States of America)	**4685**
16:15	**Bronchopulmonary dysplasia as a cause of pulmonary hypertension** Elianne J.L.E. Vrijlandt (Groningen, Netherlands)	**4686**
16:25	**Discussion and Q&A**	**4687**

Studio Paris Session 404 15:40 - 16:40

Symposium: Reflections from the Lung Science 2020 conference

Aims : The ERS Lung Science Conference is at the forefront of basic and translational respiratory science and it is an essential event for budding respiratory researchers looking to boost their career. It offers a unique opportunity to network with peers from across the globe and aims to present cutting-edge abstracts on novel experimental lung research. The Lung Science Conference 2020 took place on March 5-8 in Estoril, Portugal with the overarcing theme metabolic alterations in lung ageing and disease. This session features a selection of scientific presentations that were given at this conferenc. In addition, the session highlights the winners of the William MacNee Award - for young presenters (40 years old or less at the time of the Conference) who submitted an outstanding abstract, and of the Geoffrey Laurent Award - for the Best Oral presentation.

Disease(s) : Airway diseases Interstitial lung diseases

Tag(s) : Basic science

Target audience : Clinical researcher, Medical Student, Pathologist, Patient, Physician in Pulmonary Training, Physiologist, Scientist (basic, translational)

Chairs : Reinoud Gosens (Groningen, Netherlands), Marijke Proesmans (Leuven, Belgium)

15:40	**Introduction**	**4688**
15:45	**An atlas of the aging lung mapped by single cell transcriptomics and deep tissue proteomics** Herbert Schiller (Munich, Germany)	**4689**
15:54	**The promise of mTOR signaling as a therapeutic target for IPF** Rachel Chambers (London, United Kingdom)	**4690**
16:03	**Itaconate controls the severit of pulmonary fibrosis** Patricia Ogger (London, United Kingdom)	**4691**
16:12	**Versatile workflow for storage, characterization and celltype resolved transcriptional and epigenetic profiling of human lung samples** Renata Jurkowska (Cardiff (Wales), United Kingdom)	**4692**

16:21	**Mitochondrial iron in the susceptibility, pathogenesis and progression of COPD** Suzanne Cloonan (New York City, United States of America)	**4693**
16:30	**Discussion and Q&A**	**4694**

Studio Vienna Session 405 15:40 - 16:40

Lungs on fire: Respiratory infections?

Aims : To describe real-life clinical cases during the innovative interactive session, including the presentation of cases that have various levels of difficulty and often necessitate a differential diagnosis. This session will be led by a discussant, who will present the cases to a panel of experts and the audience. The discussant will encourage discussion among the panel of experts, who are encountering these cases for the first time. To further determine diagnostic and therapeutic options for these patients, the discussant will also invite audience participation in the reflexion and discussion of these cases.

Disease(s) : Respiratory infections | Interstitial lung diseases | Respiratory critical care

Tag(s) : Clinical

Target audience : Adult pulmonologist/Clinician, Respiratory critical care physician, Clinical researcher, General practitioner, Paediatrician, Radiologist, Thoracic surgeon, Nurse, Respiratory physiotherapist

Chairs : Daiana Stolz (Basel, Switzerland), Omar S. Usmani (London, United Kingdom), Christopher E. Brightling (Leicester (Leicestershire), United Kingdom)

Discussants : Michael Tamm (Basel, Switzerland)

	Case 1 - Author: Sugeesha Wickramasinghe (Sri Lanka)	**4695**
	Discussion and Q&A	**4696**
	Case 2 - Author: Anur R. Guhan (United Kingdom)	**4697**
	Discussion and Q&A	**4698**
	Case 3 - Author: Kathleen Jahn (Switzerland)	**4699**
	Discussion and Q&A	**4700**
	Case 4 - Author: Juliana Rodrigues Garcia (Brazil)	**4701**
	Discussion and Q&A	**4702**
15:40	**Introduction**	**4703**
15:42	**Presentation of cases by the session facilitator** Michael Tamm (Basel, Switzerland)	**4704**

Channel 1 Session 406 16:50 - 19:00

Language session: German programme 2020

A joint ERS/DGP/SGP/OGP session

Aims : The talks will be given in German.

Disease(s) : Airway diseases | Respiratory infections | Pulmonary vascular diseases

Chairs : Sylvia Hartl (Wien, Austria), Otto Chris Burghuber (Wien, Austria), Thomas Geiser (Bern, Switzerland)

16:50	**Introduction**	**4705**
16:55	**ICS discontinuation guidelines in COPD** Daiana Stolz (Basel, Switzerland)	**4706**
17:13	**Severe asthma guidelines: 2019 update** Roland Buhl (Mainz, Germany)	**4707**
17:31	**Discussion and Q&A**	**4708**
17:46	**New guidelines for treatment of nontuberculous mycobacterial pulmonary disease** Felix C. Ringshausen (Hannover, Germany)	**4709**
18:04	**Guidelines for long-term non-invasive ventilation in patients with COPD** Wolfram Windisch (Cologne, Germany)	**4710**

18:22	**Management of severe community acquired pneumonia** Tobias Welte (Hannover, Germany)	**4711**
18:40	**Discussion, Q&A and closing**	**4712**

Channel 2 Session 407 16:50 - 17:50

Oral presentation: New biomarkers for management of obstructive diseases

Abstracts presented in this session are also available as E-posters from 24 August 2020

Disease(s) : Airway diseases

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

Chairs : Antonio Spanevello (Milan, Italy), Péter Horváth (Budapest, Hungary)

4713	**Introduction**
4714	**Late Breaking Abstract - Increased serum levels of YKL-40 in male smoking chronic obstructive pulmonary disease patients associated with altered miRNA levels in alveolar macrophages** Benedikt Zöhrer (Stockholm, Sweden), Anna James, Nabil Souihi, Bettina Brundin, Reza Karimi, David J. Erle, Sven-Eric Dahlén, C. Magnus Sköld, Åsa M. Wheelock
4715	**Detecting shortness of breath remotely and accurately using smartphones and vocal biomarkers** Shady Hassan (Julis, Israel), Daniel Aronovich, Kevin Kotzen, Divya Mohan, Ruth Tal-Singer, Paul Simonelli
4716	**A combination of biomarkers for fibrinolysis and basement membrane destruction predicts mortality in the ECLIPSE COPD cohort** Jannie M. B. Sand (Herlev, Denmark), Sarah R Rønnow, Lasse Langholm, Morten A Karsdal, Tina Manon-Jensen, Ruth Tal-Singer, Bruce E Miller, Jørgen Vestbo, Diana J Leeming
4717	**Alpha-1 antitrypsin deficiency in patients with COPD/emphysema, bronchiectasis and asthma** Julia Tüffers (Marburg, Germany), Martina Veith, Andreas Klemmer, Erika Peychev, Christoph Berndt, Viktor Kotke, Christian Herr, Robert Bals, Claus Franz Vogelmeier, Timm Greulich
4718	**Desmosine is a predictor of long-term cardiovascular mortality in bronchiectasis** Jeffrey T.-J. Huang (Dundee (Angus), United Kingdom), Elena Kuzmanova, Alison Dicker, Holly Keir, Simon Finch, Stefano Aliberti, Thomas Fardon, James Chalmers
4719	**Low blood eosinophil count is associated with gram-positive cocci infection and poor clinical outcomes in severe exacerbations of COPD** Fei Wang (Beijing, China), Fei Wang, Luoman Yang, Meng Wang, Bei He
4720	**Collagen and elastin turnover increase at COPD exacerbation irrespectively its etiology** Eleni Papakonstantinou (Thessaloniki, Greece), Jannie Sand, Leticia Grize, Hans Hirsch, Michael Tamm, Morten Karsdal, Daiana Stolz
4721	**Discussion**

Channel 3 Session 408 16:50 - 17:50

Oral presentation: Treatments and biomarkers for lung allograft function and outcome

Abstracts presented in this session are also available as E-posters from 24 August 2020

Disease(s) : Airway diseases Respiratory critical care

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

Chairs : Michael Perch (Gentofte, Denmark), Robin Vos (Leuven, Belgium)

4722	**Introduction**
4723	**Late Breaking Abstract - Prediction of chronic lung allograft rejection (CLAD) by measurement of peripheral T cells linked to the inhibitory check-point HLA-G.** Olivier Brugière (Suresnes, France), Olivier Brugière, Domitille Mouren, Isabelle Kuzniak, Edgardo Carosella, Joel Le Maoult, Nathalie Rouas-Freiss
4724	**The use of mTOR inhibitors is associated with improved survival in lung transplant recipients** Yael Lebel-Shostak (Petah-Tikva, Israel), Barak Pertzov, Ori Grossberger, Dror Rosengarten, Dorit Shitenberg, Moshe Heshing, Shai Amor, Mordechai Kramer

4725	**Real life experience in mTOR-inhibitors after lung transplantation** Saskia Bos (Lovenjoel, Belgium), Laurens De Sadeleer, Bart Vanaudenaerde, Jonas Yserbyt, Lieven Dupont, Laurent Godinas, Geert Verleden, Robin Vos
4726	**Intra-alveolar neutrophil-derived microvesicles predict development of primary graft dysfunction after lung transplantation.** Sanooj Soni (London, United Kingdom), Rosalba Romano, Kieran O'Dea, Brijesh Patel, Kate Tatham, Marissa Koh, Diianeira Tsiridou, Andre Simon, Louit Thakuria, Michael Wilson, Anna Reed, Nandor Marczin, Masao Takata
4727	**Exhaled breath particles - a potential noninvasive method to detect and monitor chronic allograft dysfunction in lung transplant recipients** Sandra LINDSTEDT (Lund, Sweden), Anna Niroomand, Oskar Hallgren, Darcy Wagner
4728	**Elevated lung clearance index (LCI) as an early marker of future bronchiolitis obliterans (BOS) post lung transplant** Madeleine Driskel (Manchester, United Kingdom), Alex Horsley, Mohamed Al-Aloul
4729	**Plasma levels of acute phase proteins in patients from the multicenter longitudinal French Cohort in Lung Transplantation (COLT): a pilot study** Sabina Janciauskiene Wallmark (Hannover, Germany), Pierre-Joseph Royer, Jan Fuge, Sabine Wrenger, Joanna Chorostowska, Huiyuan Zhu , Tobias Welte, Martine Reynaud-Gaubert, Antoine Roux, Adrien Tissot, Antoine Magnan
4730	**Usefulness of lactate dehydrogenase and serum C-reactive protein in the follow-up of patients with lung transplantation** Sara Hermoso De Mendoza Aristegui (PALMA, Spain), Luisa Ramón, Carla Suárez, Carlos Bravo, Cristina Berastegui, Jaume Sauleda, Ernest Sala, Francisco Javier Verdú
4731	**Discussion**

Channel 4 Session 409 16:50 - 17:50

Oral presentation: The impact of different treatment modalities on obstructive sleep apnoea

Abstracts presented in this session are also available as E-posters from 24 August 2020

Disease(s) : Sleep and breathing disorders

Method(s) : Respiratory intensive care Physiology Cell and molecular biology General respiratory patient care

Chairs : Ludger Grote (Göteborg, Sweden), Sophia E. Schiza (Heraklion, Greece)

4732	**Introduction**
4733	**Late Breaking Abstract - Does adaptive servo ventilation lead to hypocapnia?** André Barleben (Schwerin, Germany), Wolfram Grüning
4734	**BLOCKAGE OF TLR4 OR NLRP3 INHIBITS IL-1ß ACTIVATION IN RESPONSE TO INTERMITTENT HYPOXIA** Susan Fitzpatrick (Dublin 4, Ireland), Ailbhe King, Silke Ryan
4735	**Intranasal leptin prevents opioid-induced respiratory depression** Vsevolod Y. Polotsky (Baltimore, United States of America), Carla Freire, Huy Pho, Lenise Kim, Xin Wang, Jhansi Dyavanapalli, Stone Streeter, Thomaz Fleury-Curado, David Mendelowitz
4736	**The effect of CPAP on quality of life in patients with 'very' mild Obstructive Sleep Apnoea (OSA): Results from a subset of the MERGE Randomised Trial** Mary J Morrell (London, United Kingdom), Julia Kelly, Alison Wimms, Christopher Turnbull, Alison Mcmillan, Sonya Craig, John O'Reilly, Annabel Nickol, Emma Hedley, Meredith Decker, Leslee Willes, Peter Calverley, Adam Benjafield, John Stradling
4737	**FACE: Phenotyping analysis of chronic heart failure (CHF) patients with sleep disordered breathing (SDB) indicated for adaptive servoventilation (ASV): 2-year follow-up results.** Renaud Tamisier (Grenoble, France), Thibaud Damy, Jean-Marc Davy, Johan Verbraecken, Sebastien Bailly, Florent Lavergne, Alain Palot, Frederic Goutorbe, Jean-Louis Pepin, Marie-Pia D'Ortho
4738	**Effects of CPAP and mandibular advancement devices on cardiac biomarkers in patients with obstructive sleep apnea** Iana Andreieva (Zaporizhia, Ukraine)
4739	**Impact of a multimodal telemonitoring intervention on CPAP adherence in symptomatic low-cardiovascular risk sleep apnea: a randomized controlled trial** Renaud Tamisier (Grenoble, France), Erika Treptow , Marie Joyeux-Faure, Patrick Lévy, Marc Sapène, Meriem Benmerad, Sébastien Bailly, Yves Grillet, Bruno Stach , Jean-François Muir , Hervé Pegliasco , Jean-Louis Pépin

4740	**Effect of CPAP treatment on adhesion molecules in coronary artery disease with nonsleepy obstructive sleep apnoea: The RICCADSA randomized controlled trial** Ding Zou (Göteborg, Sweden), Yeliz Celik, Tulay Lindberg, Erik Thunström, Yuksel Peker
4741	**Discussion**

Channel 5 Session 410 16:50 - 17:50

Oral presentation: Muscle, exercise capacity and symptoms of chronic lung disease: a physio update

Abstracts presented in this session are also available as E-posters from 24 August 2020

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

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

Chairs : Deniz Inal-Ince (Ankara, Turkey), Cristina Isabel Oliveira Jácome (Viatodos, Portugal)

4742	**Introduction**
4743	**Effects of Ground-Based Walking Training in Pulmonary Hypertension** Özge Ertan (İstanbul, Turkey), Goksen Kuran Aslan, Buket Akinci, Gulfer Okumus
4744	**Sniff nasal inspiratory pressure as a predictor of 1-year mortality after exacerbation of COPD** Tsuyoshi Ichikawa (Isehara, Kanagawa, Japan), Sakurako Tajiri, Masanori Yokoba, Yu Horimizu, Saki Yamaguchi, Akiko Kawakami, Masahiko Kimura, Tstsuri Kondo, Masato Katagiri, Minoru Toyokura
4745	**Oxygen consumption (V?O2) kinetics during recovery after resistance exercises in COPD and matched controls** Andre Nyberg (Umeå, Sweden), Lori Desroches, Erik Frykholm, Didier Saey, Mickael Martin, Francois Maltais
4746	**Is Virtual Autonomous Physiotherapist Tele-rehabilitation Program feasible in Idiopathic Pulmonary Fibrosis?** Jose Cerdán de las Heras (Aarhus C, Denmark), Fernanda Balbino, Ole Hilberg, Anders Løkke, Elisabeth Bendstrup
4747	**Whole-body vibration training versus conventional balance training in patients with severe COPD – a randomized, controlled trial** Rainer Gloeckl (Schoenau am Koenigssee, Germany), Tessa Schneeberger, Inga Jarosch, Daniela Leitl, Tobias Reinold, Klaus Kenn, Rembert Koczulla
4748	**Effect of oral beta-alanine supplementation on muscle carnosine in patients with COPD: A double blind, placebo-controlled, randomized trial** Jana De Brandt (Diepenbeek, Belgium), Wim Derave, Frank Vandenabeele, Joseph Aumann, Laura Blancquaert, Inge Everaert, Martijn Spruit
4749	**Pain prevalence, -localization and -intensity in people with and without COPD: A cross-sectional study from The Danish Health and Morbidity Survey** Henrik Hansen (Dragør, Denmark), Jeanette Hansen, Nina Godtfredsen, Stig Mølsted
4750	**Discussion**

Studio Madrid Session 411 16:50 - 17:50

Symposium: The ageing lung epithelium: effects on repair and regeneration

Aims : To describe age-related impairments in lung repair and evaluate therapeutic strategies that target age-dependent dysfunction in lung disease; to describe the mechanism by which the ageing epithelium contributes to disease susceptibility; to evaluate current methods and models (in vitro and in vivo) for studying the activation of ageing pathways in acute and chronic lung diseases; to evaluate preclinical and clinical development of age-altering therapeutic strategies and scientific advances that may direct current and future therapeutic developments; and to determine the potential for developing new therapies, identifying biomarkers and differentiating among therapies designed to prevent and/or reverse ageing-associated pulmonary diseases.

Disease(s) : Airway diseases | Interstitial lung diseases

Method(s) : Cell and molecular biology | Imaging

Tag(s) : Basic science

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

Chairs : Anh Tuan Dinh-Xuan (Paris, France), Niki Ubags (Epalinges, Switzerland)

16:50	**Introduction**	**4751**
16:55	**Targeting the lung epithelium: does age matter?** Paul Wolters (San Francisco, United States of America)	**4752**

17:05	**Senescence and immune ageing** Mauricio Rojas (Pittsburgh, United States of America)	**4753**
17:15	**Cellular senescence in regeneration and diseases of the lung** Mareike Lehmann (München, Germany)	**4754**
17:25	**The inflammatory niche of the aged lung** Louise Donnelly (London, United Kingdom)	**4755**
17:35	**Discussion and Q&A**	**4756**

Studio Milan Session 412 16:50 - 17:50

State of the art session: Pulmonary vascular diseases

Treatment and prevention of severe pulmonary hypertension

Aims : To describe current therapeutic approaches in pulmonary hypertension and to evaluate whether better knowledge of the side effects of drugs can enhance disease prevention.

Disease(s) : Pulmonary vascular diseases

Tag(s) : Clinical

Target audience : Adult pulmonologist/Clinician, Clinical researcher, Scientist (basic, translational)

Chairs : Thierry Troosters (Leuven, Belgium), Marion Delcroix (Leuven, Belgium)

16:50	**Introduction**	**4757**
16:55	**Drug-related pulmonary hypertension: new threats?** David Montani (Le Kremlin-Bicêtre, France)	**4758**
17:05	**PROs: which instruments are available in pulmonary hypertension?** Joanna Pepke-Zaba (Cambridge, United Kingdom)	**4759**
17:15	**The metabolic syndrome and pulmonary hypertension** Anna Ryan Hemnes (Nashville, United States of America)	**4760**
17:25	**Novel insights into the pathogenesis of pulmonary arterial hypertension** Marc Humbert (Le Kremlin-Bicêtre, France)	**4761**
17:35	**Discussion and Q&A**	**4762**

Studio Paris Session 413 16:50 - 17:50

Hot topics: Bugs secret's: the way the microbiome changes our future

Aims : To summarize what is currently known on the microbiome and its influence on health and disease with special attention to lung diseases, from infancy, priming into malfunction of the microbiome in diseases such as allergic diseases, asthma, cystic fibrosis (CF) and later into COPD exacerbations; to highlight studies of early colonisation and microbiome formation into assessing possible intervention strategies to reach a healthy balance of microbial colonization, also important for allergy prevention; to take a critical view on current treatment strategies and stressing the influence of microbial dysbiosis as a feature of some exacerbations in chronic airway diseases such as asthma, CF and COPD.

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

Tag(s) : Translational

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

Chairs : Reinoud Gosens (Groningen, Netherlands), Marijke Proesmans (Leuven, Belgium)

16:50	**Introduction**	**4763**
16:55	**Understanding new measurement techniques of the microbiome of the lung and mechanism of bacteria interaction, communication and biofilm formation** Michael Cox (Birmingham, United Kingdom)	**4764**
17:05	**Early life microbiome: the way it changes the future** Debby Bogaert (Edinburgh, United Kingdom)	**4765**
17:15	**Bacterial dysbiosis in pediatric lung diseases such as asthma and CF** Alexander Dalpke (Dresden, Germany)	**4766**

17:25	**Lung microbial factors as drivers for COPD** Markus Hilty (Bern, Switzerland)	**4767**
17:35	**Discussion and Q&A**	**4768**

Studio Vienna Session 414 16:50 - 19:00

Grand round: Clinical grand round: revisiting current guidelines

Aims : To describe controversial aspects of the current guidelines in cough, community-acquired pneumonia, surgical resection in lung cancer and pulmonary embolism; to discuss data underpinning non-adherence and alternative approaches to on-going recommendations; to propose evidence-based substitute management recommendations for clinicians; to identify areas of concern and need for further research.
Prof. Rodrigo Andres Floto, speaker in this session has received the ERS Research Award in 2015.

Disease(s) : Pulmonary vascular diseases | Thoracic oncology | Respiratory infections | Airway diseases

Tag(s) : Clinical

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

Chairs : Omar S. Usmani (London, United Kingdom), Christopher E. Brightling (Leicester (Leicestershire), United Kingdom)

16:50	**Introduction**	**4769**
16:55	**Diagnosis and management of community acquired pneumonia in adults** Tobias Welte (Hannover, Germany)	**4770**
17:15	**Discussion and Q&A**	**4771**
17:20	**Chronic refractory cough** Imran Satia (Hamilton (ON), Canada)	**4772**
17:40	**Discussion and Q&A**	**4773**
17:45	**Non-tuberculous mycobacteria** Rodrigo Andres Floto (Cambridge (Cambridgeshire), United Kingdom)	**4774**
18:05	**Discussion and Q&A**	**4775**
18:10	**Fitness for radical therapy in lung cancer patients** Ales Rozman (Golnik, Slovenia)	**4776**
18:30	**Discussion and Q&A**	**4777**
18:35	**Acute pulmonary embolism** David Jiménez Castro (Madrid, Spain)	**4778**
18:55	**Discussion and Q&A**	**4779**

Channel 2 Session 415 18:00 - 19:00

Oral presentation: Cutting edge science: novel molecules and mechanisms of airway diseases

Abstracts presented in this session are also available as E-posters from 24 August 2020

Disease(s) : Airway diseases

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

Chairs : Lena Uller (Lund, Sweden), Ian M. Adcock (London, United Kingdom)

4780	**Introduction**
4781	**Inhaled corticosteroid (ICS) induced metabolome changes in asthmatics.** Peter Daley-Yates (Uxbridge, United Kingdom), Brian Keppler, Noushin Brealey, Shaila Shabbir,, Dave Singh , Neil Barnes
4782	**Azithromycin prevents airway epithelial barrier dysfunction induced by sulphur dioxide inhalation** Saevar Ingthorsson (Reykjavik, Iceland), Jennifer Kricker, Thorarinn Gudjonsson, Ari Jon Arason, Jon Pétur Joelsson, Bryndis Valdimarsdottir, Fridrik Runar Gardarsson, Clive Page, Fredrik Lehmann

4783	**Changes in DNA methylation after corticosteroids treatment in COPD patients** Jos van Nijnatten (Groningen, Netherlands), Corry-Anke Brandsma, Pieter Hiemstra, Wim Timens, Maarten Van Den Berge, Alen Faiz
4784	**PBF-680, an oral A1 adenosine receptor antagonist, inhibits the late allergic response (LAR) in mild-to-moderate atopic asthmatics: a Phase-IIa trial** David Ramos-Barbon (Barcelona, Spain), Nadia S. Brienza, Teresa Bigorra Rodríguez, Éder Fredy Mateus Medina, Ignasi Gich Saladich, Montserrat Puntes Rodríguez, Rosa M. Antonijoan Arbos, Santiago Quirce Gancedo, Nahomi Castro Palomino Laria, Julio Castro Palomino Laria
4785	**PGE2 and PGI2 restore defective lung epithelial progenitors induced by cigarette smoke** Xinhui Wu (Groningen, Netherlands), Sophie Bos, Lars Verkleij, Angela D'Ambrosi, Martina Schmidt, Loes Kiestemaker, Reinoud Gosens
4786	**Ensifentrine, a dual PDE3/PDE4 inhibitor, improves FEV1 regardless of smoking status or history of chronic bronchitis** Tara Rheault (Research Triangle Park, United States of America), Thomas Bengtsson, Kathleen Rickard
4787	**Discussion**

Channel 3 Session 416 18:00 - 19:00

Oral presentation: Respiratory disorders in neonatal and paediatric intensive care units: ventilation and chronic conditions

Abstracts presented in this session are also available as E-posters from 24 August 2020

Disease(s) : Airway diseases Pulmonary vascular diseases

Method(s) : Pulmonary function testing Physiology Cell and molecular biology Respiratory intensive care Imaging Epidemiology

Chairs : Theodore Dassios (Beckenham (Kent), United Kingdom), Anna Lavizzari (Milano (MI), Italy)

4788	**Introduction**
4789	**Clinically-relevant tracheostomy prediction model in neonatal bronchopulmonary dysplasia via respiratory MRI** Nara Higano (Cincinnati, United States of America), Stephanie Adaikalam, Erik Hysinger, Alister Bates, Robert Fleck, Andrew Schapiro, Melissa House, Amy Nathan, Shawn Ahlfeld, Jennifer Brady, Andrew Hahn, Sean Fain, Paul Kingma, Jason Woods
4790	**Mode of delivery and lung function of 16-19 year olds born at less than 29 weeks gestation** Anne Greenough (London, United Kingdom), Christopher Harris, Alan Lunt, Janet Peacock
4791	**Early risk stratification in preterm infants with Bronchopulmonary Dysplasia via pulmonary arterial flow measurements in MRI** Friederike Häfner (München, Germany), Alida Kindt, Kai Förster, Christine Von Törne, Stefanie M. Hauck, Benjamin Schubert, Andreas W. Flemmer, Olaf Dietrich, Sophia Stöcklein, Ingram Schulze-Neick, Anne Hilgendorff
4792	**Comparison of oxygen-haemoglobin dissociation curves(ODC) and 99mTc-macroaggregated-albumin lung scans(MAA) in the diagnosis of Hepatopulmonary Syndrome(HPS) in children** Emma Russell-Jones (London, United Kingdom), Theodore Dassios, Tassos Grammatikopoulos
4793	**Prevalence and consequences of left vocal cord paralysis in young adults born extremely premature with a history of neonatal patent ductus arteriosus surgery** Mette Engan (Bergen, Norway), Merete Engeseth, Ingvild Engesæter, Ole Gamlemshaug, Maria Vollsæter, Thomas Halvorsen, Ola Drange Røksund, Hege Clemm
4794	**Physiological deadspace in ventilated infants with differing lung pathologies** Emma Williams (London, United Kingdom), Theodore Dassios, Anne Greenough
4795	**Contribution of manganese superoxide dismutase Ala16Val to the development of chronic respiratory pathology in children after bronchopulmonary dysplasia** Elena Pavlinova (Omsk, Russian Federation), Irina Kirshina, Ekaterina Kurmasheva, Natalia Vlasenko, Aleksandra Mingairova, Olga Savchenko
4796	**Discussion**

Channel 4 Session 417 18:00 - 19:00

Oral presentation: Digital technologies in airway diseases

Abstracts presented in this session are also available as E-posters from 24 August 2020

Disease(s) : Airway diseases

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

Chairs : Hilary Pinnock (Edinburgh (Edinburgh), United Kingdom), Vitaly Mishlanov (Perm, Russian Federation)

4797	**Introduction**
4798	**Late Breaking Abstract - Accuracy of artificial intelligence in detecting pathological breath sounds in children using digital stethoscopes** Ajay Kevat (Coogee, Australia), Anaath Kalirajah, Robert Roseby
4799	**An eHealth program to reduce hospitalizations due to acute exacerbation of chronic obstructive pulmonary disease – a real-life study** Marise Kasteleyn (Leiden, Netherlands), Amanda Van Buul, Rini Voeten, Caroline Derksen-Franken, Niels Chavannes
4800	**Promising integrated care platform developed with and tested by respiratory patients: lessons learned form the European H2020 Connecare study** Esther I. Metting (Groningen, Netherlands), Maarten M.H. Lahr
4801	**Davos@home: patient and health care providers' perceptions on mHealth after high altitude climate treatment** Jacob K. Sont (Leiden, Netherlands), Rishi Khusial, Sofie Van Koppen, Persijn Honkoop, Lous Rijssenbeek-Nouwens, Marieke Drijver-Messelink
4802	**Use of Machine learning to predict asthma exacerbations** Christer Janson (Uppsala, Sweden), Gunnar Johansson, Kjell Larsson, Björn Ställberg, Mario Mueller, Mateusz Luczko, Bine Kjoeller Bjeeregaard, Stuart Fell, Gerald Bacher, Bjorn Holzhauer, Pankaj Goyal, Karin Lisspers
4803	**Cognitive intelligence support in the detection of COPD** Federico Piffer (Trento (TN), Italy), Romano Nardelli, Filippo Nardelli
4804	**Feedback on inhaler use does not significantly improve inhaled corticosteroid adherence or clinical outcomes** Ireti Adejumo (Nottingham (Nottinghamshire), United Kingdom), Mitesh Patel, Tricia M. Mckeever, Dominick E. Shaw
4805	**Engaging younger people in their asthma management – findings from a pilot telemedicine asthma nurse service** Andrew Cumella (London, United Kingdom), Jarrad King, Helen Sinton, Samantha Walker
4806	**Discussion**

Channel 5 Session 418 18:00 - 19:00

Oral presentation: How do different treatment strategies translate into costs

Abstracts presented in this session are also available as E-posters from 24 August 2020

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

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

Chairs : Sundeep Santosh Salvi (Pune (Maharashtra), India), Nicolas Kahn (Heidelberg, Germany)

4807	**Introduction**
4808	**Serotype dynamics in pneumococcal diseases and the performance of vaccination strategies for older adults in germany** Alexander Kuhlmann (Hanover, Germany), J.- Matthias Graf Von Der Schulenburg
4809	**Cost-effectiveness of switching from omalizumab to mepolizumab in uncontrolled severe eosinophilic asthma** Giovanna Elisiana Carpagnano (Bari, Italy), Emanuela Resta, Corrado Pelaia, Maria D'Amato, Nunzio Crimi, Nicola Scichilone, Cecilia Calabrese, Onofrio Resta, Giulia Scioscia, Girolamo Pelaia, Maria Pia Foschino Barbaro
4810	**Management-related costs of Idiopathic Pulmonary Fibrosis (IPF) in Belgium** Danielle Strens (Grimbergen, Belgium), Benjamin Bondue, Caroline Dahlqvist, Hans Slabbynk, Julien Guiot, Guy F. Joos, Natacha Gusbin, Wim Janssens , Antoine Froidure, Wim Wuyts
4811	**Cost-IPFfectiveness of antifibrotic treatment: real-life data from a Greek University Hospital** Ilias Dimeas (Larissa, Greece), Sotirios Sinis, Paraskevi Kirgou, Lampropoulos Ioannis, Foteini Malli, Konstantinos Gourgoulianis, Zoe Daniil
4812	**Home vs inpatient CPAP titration costs in OSA patients from Southern Italy: the role of telemedicine.** Valentina Di Lecce (Modugno (BA), Italy), Roberto Sabato, Onofrio Resta, Giovanna Elisiana Carpagnano, Andrea Portacci, Pasquale Tondo, Donato Lacedonia, Maria Pia Foschino Barbaro

4813	**Investigating the Respiratory therapist perception of committed medical incidents in Intensive care unit (ICU).** Abdullah AlQahtani (Nottingham, United Kingdom)	
4814	**Estimating the Cost of Pulmonary Embolism in Greece with the help of large data** Ilias Dimeas (Larissa, Greece), Ioannis Lampropoulos, Dimitrios Raptis, Foteini Malli, Eleftherios Aggelopoulos, Zoe Daniil, Konstantinos Gourgoulianis	
4815	**Publication rate and characteristics of industry-sponsored asthma clinical trials** Pravin Bolshete (Airoli, India), Snehal Khanolkar, Ruchika Thale, Madhulika Bolshete, Vaibhavi Jakhetia	
4816	**The cost of treatment of tuberculosis in children of Belarus** Larissa Gorbach (Minsk, Belarus)	
4817	**COPD and Asthma Disease-specific Health-related Quality of Life Scales and Their Applications in Health Technology Assessment and in China: Literature Review** Shiyi Gong (Beijing , Switzerland), Hao Hu, Yangxian Zhang, Feng Xie, Ting Yang	
4818	**Discussion**	

Studio Madrid — Session 419 — 18:00 - 19:00

Journal session: When the lung gets stiff

Diagnosis, treatment and controversy (a joint ERS/New England Journal of Medicine (NEJM) session)

Aims : To describe the pathobiology, epidemiology, causes, diagnosis and treatment of idiopathic pulmonary fibrosis (IPF), the most common type of interstitial lung disease; to evaluate pulmonary fibrosis resulting from other diagnosable conditions, such as scleroderma, sarcoidosis and rheumatoid arthritis; to describe the epidemiology, biology, clinical presentation and treatment of this group of conditions; and to describe controversies in the diagnosis and treatment of rapidly progressive-interstitial lung diseases.

Disease(s) : Interstitial lung diseases

Tag(s) : Clinical

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

Chairs : Anh Tuan Dinh-Xuan (Paris, France), Niki Ubags (Epalinges, Switzerland)

18:00	**Introduction** Jeffrey Drazen (Boston, United States of America)	**4819**
18:05	**Idiopathic pulmonary fibrosis (IPF): epidemiology, biology, diagnosis and treatment** Fernando J. Martinez (New York, United States of America)	**4820**
18:15	**Interstitial lung diseases (ILDs) secondary to other conditions: common biology, epidemiology, diagnosis and treatment** Marlies S. Wijsenbeek (Rotterdam, Netherlands)	**4821**
18:25	**Pro-con debate: Does it make sense to view rapidly progressive ILD as a distinct clinical entity? - CON** Vincent Cottin (Lyon, France)	**4822**
18:35	**Pro-con debate: Does it make sense to view rapidly progressive ILD as a distinct clinical entity? - PRO** Elisabetta Renzoni (London, United Kingdom)	**4823**
18:45	**Discussion and Q&A**	**4824**
18:55	**Conclusion** Jeffrey Drazen (Boston, United States of America)	**4825**

Studio Milan — Session 420 — 18:00 - 19:00

Symposium: Cardiovascular morbidity and mortality after pulmonary embolism

Aims : To describe the long-term cardiovascular morbidity and mortality after acute pulmonary embolism; to summarize relevant information about acute pulmonary embolism in association with certain specific cardiopulmonary conditions.

Disease(s) : Pulmonary vascular diseases

Tag(s) : Clinical

Target audience : Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Patient

Chairs : Thierry Troosters (Leuven, Belgium), Marion Delcroix (Leuven, Belgium)

18:00	**Introduction**	**4826**

18:05	**Atrial fibrillation in the course of pulmonary embolism: just a little smoke or fuel to the fire?** Behnood Bikdeli (New York, United States of America)	**4827**
18:15	**Management of pulmonary embolism beyond the acute phase: pay attention to long-term sequelae** Irene Lang (Wien, Austria)	**4828**
18:25	**Venous thromboembolism and arterial atherosclerosis: a bidirectional association** Walter Ageno (Varese, Italy)	**4829**
18:35	**Closing the gap between pulmonary embolism and sleep apnea** Alberto García Ortega (Valencia, Spain)	**4830**
18:45	**Discussion and Q&A**	**4831**

Studio Paris Session 421 18:00 - 19:00

Symposium: Human ex vivo models of interstitial lung disease

Aims : To present models of early events of idiopathic pulmonary fibrosis (IPF) ex vivo and the use of these models in evaluating pathogenesis and treatment; and to evaluate the potential use of lung organoids for drug screening.

Disease(s) : Interstitial lung diseases

Method(s) : Cell and molecular biology

Tag(s) : Basic science

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

Chairs : Reinoud Gosens (Groningen, Netherlands), Marijke Proesmans (Leuven, Belgium)

18:00	**Introduction**	**4832**
18:05	**3D tissue culture to study the mechanisms of lung repair in IPF** Melanie Konigshoff (Denver, United States of America)	**4833**
18:15	**Using induced pluripotent stem cells to study the type II pneumocyte** Killian Hurley (Dublin 3, Ireland)	**4834**
18:25	**Lung-on-a -chip: state of the art** Nuria Roldan (Bern, Switzerland)	**4835**
18:35	**The role of cell lines in modelling the type II pneumocyte in interstitial lung disease** Jennifer Dickens (Cambridge (Cambridgeshire), United Kingdom)	**4836**
18:45	**Discussion and Q&A**	**4837**

19:15-20:15
INDUSTRY EVENING SYMPOSIUM SEE PAGE 1

20:30-21:30
INDUSTRY EVENING SYMPOSIUM SEE PAGE 1

08:15-09:15
INDUSTRY EARLY MORNING SYMPOSIUM SEE PAGE 1

Channel 1 Session 436 09:30 - 10:30

Language session: French programme 2020: Part II
A joint ERS/SPLF session

Aims : This programme will be available in French and English.

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

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

Tag(s) : Clinical

Target audience : Adult pulmonologist/Clinician

Chairs : Thierry Troosters (Leuven, Belgium), Chantal Raherison-Semjen (Pessac, France)

09:30	**introduction**	**4903**
09:35	**Diagnostic de l'EP chez la femme enceinte / Diagnosis of pulmonary embolism in pregnant women** Florence Parent (Clamart, France)	**4904**
09:45	**Place des anti-IL5 dans les pathologies éosinophiliques (hors asthme sévère) / Anti-IL-5 therapy for indications other than severe asthma** Philippe Bonniaud (Dijon, France)	**4905**
09:55	**Risques cardiovasculaires et BPCO / Cardiovascular risks and COPD** Bruno Degano (grenoble, France)	**4906**
10:05	**Exploration de la fonction respiratoire selon l'âge / Lung function testing and age** Sonia Rouatbi (Sousse, Tunisia)	**4907**
10:15	**Discussion and Q&A**	**4908**

Channel 2 Session 437 09:30 - 10:30

Oral presentation: Prediction and management of outcomes in obstructive diseases
Abstracts presented in this session are also available as E-posters from 24 August 2020

Disease(s) : Airway diseases

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

Chairs : Jose Luis Lopez-Campos Bodineau (Sevilla, Spain), Stephanie Everaerts (Leuven, Belgium)

4909	**Introduction**
4910	**The long-term clinical and economic impact of COPD exacerbations: an observational study (SHERLOCK)** John Haughney (Glasgow, United Kingdom), Amanda J Lee, Mintu Nath, Hana Müllerová, Ulf Holmgren, Enrico De Nigris, Bo Ding
4911	**Prediction model of COPD acute exacerbation with big data by machine learning methods** Chin Kook Rhee (Seoul, Republic of Korea), Jin Woo Kim, Kwang Ha Yoo, Ki-Suck Jung
4912	**Automated computed tomography lung densitometry in bronchiectasis patients** Rodrigo Abensur Athanazio (São Paulo (SP), Brazil), Marcio Yamada Sawamura, Maria Cecília Nieves Teixeira Maiorano De Nucci, Samia Zahi Rached, Alberto Cukier, Regina Maria Cavalho-Pinto, Rafael Stelmach, Antonildes Nascimento Assunção Junior, Marcelo Straus Takahashi, Cesar Higa Nomura
4913	**CT evaluations of erector spinae muscle, emphysema, and airway disease for predicting mortality in COPD** Naoya Tanabe (Kyoto, Japan), Susumu Sato, Kazuya Tanimura, Hiroshi Shima, Tsuyoshi Oguma, Atsuyasu Sato, Shigeo Muro, Toyohiro Hirai
4914	**Validation of clinical clusters for long-term mortality in two European COPD cohorts** Sebastian Gagatek (Stockholm, Sweden), Sara Wijnant, Björn Ställberg, Karin Lisspers, Guy Brusselle, Xing Wu Zhou, Mikael Hasselgren, Scott Montgomery, Josefin Sundh, Janson Christer, Össur Emilsson, Lies Lahousse, Andrei Malinovschi

4915	**Difficult to manage COPD Exacerbations: Risk factors (DIMECO Study). Turkish Thoracic Society COPD Assembly.** Nurdan Köktürk (Ankara, Turkey), Ayşe Baha, Dilek Yapar, Secil Ozkan, Elif Sen, Fatma Ciftci, Burcu Ozturk, Sumeyye Kodalak, Gaye Ulubay, Irem Serifoglu, Yelda Varol, Aydan Mertoglu, Ali Kadri Cirak, Onur Turan, Nese Dursunoglu, Nilufer Savurmus, Alev Gurgun, Funda Elmas, Lutfi Coplu, Umran Sertcelik, Reyhan Yildiz, Ipek Ozmen, Aylin Alpaydin, Mehmet Polatli, Ebru Karacay Yesiloglu, Deniz Celik
4916	**European expert consensus on assessment and management of hospitalised exacerbations of COPD (CICERO ERS CRC)** Sanjay Ramakrishnan (Oxford, United Kingdom), Wim Janssens, Pierre Regis Burgel, Marco Contoli, F M E Franssen, Neil Greening, Timm Greulich, Iwein Gyselinck, Arturo Huerta, Jennifer Quint, Lowie Van Fleteren, Henrik Watz, Mona Bafadhel
4917	**Discussion**

Channel 3 — Session 438 — 09:30 - 10:30

Oral presentation: Genetic and environmental influences on development of asthma and COPD

Abstracts presented in this session are also available as E-posters from 24 August 2020

Disease(s) : Airway diseases

Method(s) : Epidemiology Cell and molecular biology Public health

Chairs : Ian P. Hall (Nottingham (Nottinghamshire), United Kingdom), Klaus Bonnelykke (Allerød, Denmark)

4918	**Introduction**
4919	**A genome-wide association study of asthma-COPD overlap syndrome (ACOS)** Catherine John (Leicester, United Kingdom), Anna L Guyatt, Nick Shrine, Thorunn Olafsdottir, Jiangyuan Liu, Lystra Hayden, Su H Chu, Jukka Koskela, Jian'An Luan, Xingnan Li, Natalie Terzikhan, Hanfei Xu, Traci M Bartz, Hans Petersen, Shuguang Leng, Gudmar Thorleifsson, Deborah A Meyers, Eugene R Bleecker, Lori C Sakoda, Carlos Iribarren, Yohannes Tesfaigzi, Sina A Gharib, Josee Dupuis, Lies Lahousse, Victor E Ortega, Kari Stefansson, Ian Sayers, Ian P Hall, Claudia Langenberg, Samuli Ripatti, Tarja Laitinen, Ann C Wu, Jessica Lasky-Su, Caroline Hayward, Ben Brumpton, Arnulf Langhammer, Ingileif Jonsdottir, Michael H Cho, Louise V Wain, Martin D Tobin
4920	**Bronchial airway inducible expression and methylation QTL mapping identifies a single nucleotide polymorphism predicting inhaled corticosteroids response heterogeneity** Elise M.A. Slob (Amsterdam, Netherlands), Alen Faiz, Susanne Vijverberg, Cristina Longo, Merve Kutlu, Patricia Soares, Fook Tim Chew, Esther Herrera-Luis, Antonio Espuela Ortiz, Maria Del Pino Yanes, Esteban Burchard, Uroš Potočnik, Colin Palmer, Cyrielle Maroteau, Steve Turner, Katia Verhamme, Leila Karimi, Somnath Mukhopadhyay, Wim Timens, Pieter Hiemstra, Mariëlle Pijnenburg, Maarten Van Den Berge, Anke-Hilse Maitland-Van Der Zee, Gerard Koppelman
4921	**Interaction between VGDF exposure and antioxidant genes on COPD in UK Biobank** Diana van der Plaat (London, United Kingdom), Sara De Matteis, Steven Sadhra, Debbie Jarvis, Paul Cullinan, Cosetta Minelli
4922	**Identification and characterisation of twenty-two novel SERPINA1 pathological mutations** Stefania Ottaviani (Pavia (PV), Italy), Anna Maria Fra, Alice Maria Balderacchi, Valentina Barzon, Tomas Patrick Carroll, Davide Piloni, Francesca Mariani, Noel Gerard Mc Elvaney, Angelo Guido Corsico, Ilaria Ferrarotti
4923	**Activation of toxicology-related genes in human airway constructs after exposure to indoor air particulate matter from moisture-damaged houses** Maria-Elisa Nordberg (Kuopio, Finland), Martin Täubel, Hanna Leppänen, Anne Hyvärinen, Kati Huttunen
4924	**Discussion**

Channel 4 — Session 439 — 09:30 - 10:30

Oral presentation: Airway infection: the microbiome and beyond

Abstracts presented in this session are also available as E-posters from 24 August 2020

Disease(s) : Airway diseases

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

Chairs : Alison Dicker (Dundee (Angus), United Kingdom), Chair to be confirmed

4925	**Introduction**
4926	**Late Breaking Abstract - The burden of pertussis in adults with asthma: a retrospective database study in England** Kinga Meszaros (Wavre, Belgium), Emmanuel ARIS, Esse Ifebi Akpo, Amit Bhavsar, Lauriane Harrington, Evie Merinopoulou, Nicola Sawalhi-Leckenby, Elisa Turriani, Dimitra Lambrelli, Piyali Mukherjee

4927	**Late Breaking Abstract - Seroprevalence of Bordetella pertussis in chronic obstructive pulmonary disease (COPD) patients** Peter Van den Steen (Wavre, Belgium), Piyali Mukherjee, Brigitte Cheuvart, Nathalie Baudson, Monique Dodet, Elisa Turriani, Lauriane Harrington, Nadia Meyer, Simona Rondini, Laura Taddei
4928	**Late Breaking Abstract - Experimental Respiratory Syncytial Virus infection in adults 60-75 years** Alex Mann (London, United Kingdom), Mariya Kalinova, Andrew Catchpole, Olesya Rusyn, Veronika Horvathova, Kingsley Eze, Marco De Sa, Alan Bell
4929	**Late Breaking Abstract - CPAnet Registry – An International Chronic Pulmonary Aspergillosis Registry** Eva Van Braeckel (Ghent, Belgium), Lander Van Acker, Helmut J.F. Salzer, Danila Seidel, Oliver A. Cornely, Martin Hoenigl, Ana Alastruey-Izquierdo, Christophe Hennequin, Cendrine Godet, Aleksandra Barac, Holger Flick, Oxana Munteanu, Christian B. Laursen, Jesper Rømhild Davidsen
4930	**Applying Modern Molecular Microbiological Techniques to Identify Treatable Chronic Bacterial Airway Infection in Severe Asthma** Maisha Jabeen (Oxford (Oxfordshire), United Kingdom), Teresa Street, Dona Foster, Derrick Crook, Nicholas Sanderson, Ian Pavord, Paul Klenerman, Timothy Stopford Christopher Hinks
4931	**Clinical phenotypes of exacerbation are associated with differences in microbial composition and diversity in COPD** Holly Rachael Keir (Dundee (Angus), United Kingdom), Alison Dicker, Mike Lonergan, Megan Crichton, Bruce Miller, Ruth Tal Singer, James D Chalmers
4932	**Persistence and genetic adaptation of Pseudomonas aeruginosa in patients with COPD.** Josefin Eklöf (København N, Denmark), Mari-Anna Misiakou, Pradeesh Sivapalan, Karin Armbruster, Andrea Browatzki, Thyge L. Nielsen, Therese S. Lapperre, Helle F. Andreassen, Julie Janner, Charlotte S. Ulrik, Migle Gabrielaite , Helle K. Johansen, Annemette Jensen, Tine V. Nielsen, Frederik B. Hertz, Khaled Ghathian, Henrik Calum, Torgny Wilcke, Niels Seersholm, Jens-Ulrik Jensen, Rasmus L. Marvig
4933	**A high-risk airway mycobiome characterises frequent COPD exacerbators** Pei Yee Tiew (Singapore, Singapore), Alison Dicker, Holly R Keir, Mau Ern Poh, Sze Lei Pang, Sri Anusha Matta, Branden Qi Yu Chua, Huiying Xu, Mariko Siyue Koh, Augustine Tee, John Arputhan Abisheganaden, Fook Tim Chew, Bruce E Miller, Ruth Tal-Singer, James D. Chalmers, Sanjay H Chotirmall
4934	**Co-occurrence analysis relates a macrolide resistome to the pulmonary microbiome in chronic respiratory disease** Jayanth Kumar Narayana (Singapore, Singapore), Micheál Mac Aogáin, Kenny Lau Jia Xu, Zhao Cai, Rikky Purbojati, Daniela Drautz-Moses, Nicolas Gaultier, Tavleen Jaggi, Pei Yee Tiew, Thun How Ong, Mariko Siyue Koh, Albert Yick Hou Lim, John Arputhan Abisheganaden, Krasimira Tsaneva-Atanasova, Stephan Schuster, Sanjay Haresh Chotirmall
4935	**Prospective evaluation of nanopore-based metagenomic sequencing for rapid detection of bacterial pathogens in patients with lower respiratory tract infections** Shengrui Mu (Beijing, China), Long Hu, Ye Zhang, Yingmei Liu, Xiaojing Cui, Xiaohui Zou, Bin Cao
4936	**Discussion**

Studio Madrid — Session 440 — 09:30 - 10:30

Symposium: Early career member: activities, opportunities and motivations

Early career member session 2020

Aims : To evaluate the structure of and opportunities provided by the ERS: to describe methods of active involvement in the ERS; to present current fellowship offers from the ERS; and to describe critical steps for a successful future career in respiratory research and medicine.

Target audience : Clinical researcher, Medical Student

Chairs : Carlos Robalo Cordeiro (Coimbra, Portugal), Niki Ubags (Epalinges, Switzerland)

09:30	**Introduction**	**4937**
09:35	**ERS: structure, activities, opportunities: view of the Early Career Members Committee (ECMC)** Maxime Patout (Mont-Saint Aignan, France)	**4938**
09:45	**ERS fellowship: an overview** Louise Donnelly (London, United Kingdom)	**4939**
09:55	**Mina Gaga lecture** Chris Burtin (Diepenbeek, Belgium)	**4940**
10:05	**Motivation and leadership in science** Daniela Gompelmann (Heidelberg, Germany)	**4941**

10:15	**Discussion and Q&A**	**4942**

Studio Milan Session 441 09:30 - 10:30

State of the art session: Thoracic oncology

Aims : To describe current methods of managing lung cancer and other intrathoracic tumours based on the latest developments in imaging, pathology and molecular biology.

Disease(s) : Thoracic oncology

Tag(s) : Clinical

Target audience : Adult pulmonologist/Clinician, Clinical researcher, Medical Student, Nurse, Pathologist, Physician in Pulmonary Training, Radiologist, Thoracic oncologist, Thoracic surgeon

Chairs : Mina Gaga (Athens, Greece), Andrea Aliverti (Milan, Italy)

09:30	**Introduction**	**4943**
09:35	**Implementation of lung cancer screening in Europe: the way forward** Emma O'Dowd (Nottingham, United Kingdom)	**4944**
09:44	**Perioperative systemic therapy in resectable lung cancer: from standard operating procedures to immuno-oncology and back** Isabelle Opitz (Zurich, Switzerland)	**4945**
09:53	**Radiotherapy in small cell lung cancer: patient options** Corrine Faivre Finn (Manchester (Greater Manchester), United Kingdom)	**4946**
10:02	**Update on supportive care** Dragana M. Jovanović (Beograd, Republic of Serbia)	**4947**
10:11	**Thoracic Cancers International COVID-19 Collaboration (TERAVOLT): Impact of type of cancer therapy and COVID therapy on survival** Jan van Meerbeeck (Edegem (Antwerp), Belgium)	**4948**
10:20	**Discussion and Q&A**	**4949**

Studio Paris Session 442 09:30 - 10:30

Hot topics: Insights from wearable respiratory sensors and AI

Aims : To present opportunities opened by wearable monitoring of ambulant and (semi-)continuous monitoring, leading to large data streams; to understand these rapidly expanded fields over recent years; to highlight the opportunities and show promising results, e.g. in the fields of sleep apnea and rehabilitation; to emphasize challenges with respect to reliability and interpretability of the results in clinical practice; to describe the current developments around wearable devices and AI and to discuss the opportunities and open challenges; to facilitate exchange and dialogue around these developments in the domain of digital health. To understand how the COVID-19 epidemic is developing, who is at most risk, what is the effect of social distancing, and when and where providers can expect people to require healthcare services.

Disease(s) : Airway diseases Sleep and breathing disorders

Tag(s) : Basic science

Target audience : Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Patient, Physiologist, Scientist (basic, translational)

Chairs : Richard Costello (Dublin 9, Ireland), Hilary Pinnock (Edinburgh (Edinburgh), United Kingdom)

09:30	**Introduction**	**4950**
09:35	**AI for respiratory signals** Tom Van Steenkiste (Ghent, Belgium)	**4951**
09:45	**Health patches for wearable respiration monitoring** Bernard Grundlehner (Eindhoven, Netherlands)	**4952**
09:55	**Respiration monitoring in COPD patients** Dolores Blanco-Almazán (Barcelona, Spain)	**4953**
10:05	**Surveillance of COVID-19 with a radar app** Niels H. Chavannes (Leiden, Netherlands)	**4954**
10:15	**Discussion and Q&A**	**4955**

Studio Vienna Session 443 09:30 - 11:40

Grand round: Paediatric grand round

Aims : To describe children with challenging respiratory diseases, including their differential diagnosis, diagnostic tests and optimal clinical care; and to present an update on selected topics in paediatric respiratory medicine.

Disease(s) : Paediatric respiratory diseases

Tag(s) : Clinical

Target audience : Clinical researcher, Medical Student, Nurse, Paediatrician, Physician in Pulmonary Training, Radiologist

Chairs : Ernst Eber (Graz, Austria), Monika Gappa (Düsseldorf, Germany), Andrew Bush (London, United Kingdom)

09:30	**Introduction**	**4956**
09:35	**A 2-year-old girl with recurrent wheeze** Megan Frohlich (Narara (NSW), Australia)	**4957**
09:55	**Discussion and Q&A**	**4958**
10:05	**ChILD: Childhood improbable late diagnoses?** Sormeh Salehian (London, United Kingdom)	**4959**
10:25	**Discussion and Q&A**	**4960**
10:35	**What is taking my breath away? A medical detective story** Milanthy Pourier (Nijmegen, Netherlands)	**4961**
10:55	**Discussion and Q&A**	**4962**
11:05	**Persistent lung consolidations in a 9-year-old** Laura Petrarca (Roma (RM), Italy)	**4963**
11:25	**Discussion and Q&A**	**4964**

Channel 1 Session 444 10:40 - 11:40

Joint session: What’s new with ground-glass opacities?

A joint ERS/ESTS symposium

Aims : To update knowledge on ground-glass opacities (GGO): 1) natural history driven guidelines; 2) how does artificial intelligence integrate into decision algorithms compared to biopsy; 3) which are the contemporary surgical techniques; 4) how should we consider alternative ablation methods such as stereotactic radiation therapy, percutaneous or transbronchial thermo-ablative procedures.

Disease(s) : Thoracic oncology

Method(s) : Surgery

Tag(s) : Clinical

Target audience : Thoracic surgeon, Radiologist, Physician in Pulmonary Training

Chairs : Nuria Novoa Valentin (Salamanca, Spain), Torsten Gerriet Blum (Berlin, Germany)

10:40	**Introduction**	**4965**
10:45	**Is this GGO? What does the radiologist suggest** Klaus Loureiro Irion (Salford (Lancashire), United Kingdom)	**4966**
10:55	**Will artificial Intelligence replace biopsy?** François Montagne (Rouen, France)	**4967**
11:10	**Problems and solutions in contemporary thoracic surgery** Jean-Marc Baste (Rouen, France)	**4968**
11:20	**What about our challengers?** Isabelle Opitz (Zurich, Switzerland)	**4969**
11:25	**Discussion and Q&A**	**4970**

Channel 2 Session 445 10:40 - 11:40

Oral presentation: From diagnosis to management of pulmonary embolism

Abstracts presented in this session are also available as E-posters from 24 August 2020

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

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

Chairs : Laurent Bertoletti (Saint Etienne Cedex, France), Sheila Ramjug (Altrincham, United Kingdom)

4971	**Introduction**
4972	**Machine learning algorithm for the diagnosis of pulmonary embolism: a proof of concept study** Konstantinos Exarchos (Ioannina, Greece), Agapi Aggelopoulou, Konstantinos Bartziokas, Elpida Tsina, Christos Tagkas, Vasileios Drouvis, Olga Toli, Konstantinos Kostikas
4973	**Outcome of patients with acute symptomatic pulmonary embolism and psychiatric disorders** Diurbis Josefina Velasco Álvarez (Madrid, Spain), Behnood Bikdeli , Alfonso Muriel, Pablo Javier Marchena, Inna Tzoran Rosenthal, Radovan Malý, Raquel López Reyes, Antoni Riera Mestre, Manuel Monreal, David Jimenez Castro
4974	**Changes in sleep-disordered breathing from the acute to the stable phase of pulmonary embolism and impact of right ventricular dysfunction: preliminary findings of ESAET study** Alberto García Ortega (Valencia, Spain), Grace Oscullo, Eva Mañas-Baena, Aldara Garcia-Sanchez, Raquel Lopez-Reyes, Juan Jose Jimenez-Aguilella, Pilar Calvillo, Jose Daniel Gomez-Olivas, Silvia Navarro-Rosales, Maria Jose Selma-Ferrer, Enrique Zaldivar-Olmeda, Cristina Navarro-Soriano, David Jimenez-Castro, Miguel Ángel Martinez-Garcia
4975	**Is there an Optimal Door-to-Treatment Time for Acute Pulmonary Embolism? A National Propensity Match Analysis** Kam S Ho (New York, United States of America), Paaras Kohli, Archana Pattupara, Yasmin Herrera, Joseph Poon, Shabnam Nasserifar, Andre Sotelo, Raymonde Jean
4976	**Retrospective application of the YEARS algorithm to an ambulatory PE clinic cohort** Sameen Toor (Leicester, United Kingdom), Hamish Mcauley, Ruth Spriggs, Elaine Bailie, Nisha Parmar, Neil Greening
4977	**Direct oral anticoagulants and low-molecular weight heparin for primary prevention of venous thromboembolism in cancer patients: a meta-analysis** Anna Francesca Mulles (QUEZON CITY, Philippines), Amraphel Nicolas, Harold Henrison Chiu, Ralph Elvi Villalobos
4978	**The impact of Initial Pulmonary Vascular Obstruction on the Risk of Recurrence of Pulmonary Embolism: a French prospective cohort.** Charles Orione (Brest, France), Francis Couturaud, Cécile Tromeur, Pierre-Yves Le Floch, Pierre-Yves Salaun, Christophe Leroyer
4979	**Discussion**

Channel 3 Session 446 10:40 - 11:40

Oral presentation: Origins of respiratory diseases: do early life exposure and diet really matter?
Abstracts presented in this session are also available as E-posters from 24 August 2020

Method(s) : Epidemiology Pulmonary function testing Public health

Chairs : Liesbeth Duijts (Rotterdam, Netherlands), Myrofora Goutaki (Bern, Switzerland)

4980	**Introduction**
4981	**Pollen exposure in pregnancy and infancy and risk of childhood asthma** Cecilia Lundholm (Stockholm, Sweden), Catarina Almqvist, Sara Ekberg, Fang Fang, Tove Fall, Åslög Dahl
4982	**Early-life exposure to air pollution and lung function development into adolescence: the GINIplus/LISA birth cohorts** QI ZHAO (Düsseldorf, Germany), QI ZHAO, Iana Markevych, Dietrich Berdel, Andrea Berg, Monika Gappa, Sibylle Koletzko, Carl-Peter Bauer, Holger Schulz, Marie Standl, Joachim Heinrich, Tamara Schikowski
4983	**Impaired infant lung function in relation to air pollution exposure** Björn Lundberg (Stockholm, Sweden), Olena Gruzieva, Kristina Eneroth, Erik Melén, Tomas Lind, Göran Pershagen, Jenny Hallberg
4984	**Pro-inflammatory and low quality maternal diet in pregnancy and the risk of childhood lower lung function and asthma: a meta-analysis of 18,000 children** Rosalie Mensink-Bout (Rotterdam, Netherlands), Evelien R. Van Meel, Johan C. De Jongste, Isabella Annesi-Maesano, Adrien M. Aubert, Jonathan Y. Bernard, Ling-Wei Chen, Cyrus Cooper, Sarah R. Crozier, Wojciech Hanke, Nicholas C. Harvey, James R. Hébert, Barbara Heude, Joanna Jerzynska, Cecily C. Kelleher, John Mehegan, Fionnuala M. Mcauliffe, Catherine M. Phillips, Kinga Polanska, Caroline L. Relton, Nitin Shivappa, Matthew Suderman, Vincent W.V. Jaddoe, Liesbeth Duijts

4985	**Dietary vitamin A intake and lung function in childhood: longitudinal study** Mohammad Talaei Pashiri (London, United Kingdom), Georg Lietz, Raquel Granell, Seif O. Shaheen
4986	**Reduced antenatal and birth size and time to onset of asthma** Stephen Turner (Aberdeen (Aberdeenshire), United Kingdom), Lorna Aucott
4987	**Childhood bronchitis and adult respiratory outcomes: a prospective study from age 7 to 53 years** Jennifer Perret (Melbourne (VIC), Australia), Adrian Lowe, Danielle Wurzel, Caroline Lodge, Dinh Bui, Bircan Erbas, Bruce Thompson, Garun Hamilton, Michael Abramson, Anne Chang, Haydn Walters, Shyamali Dharmage
4988	**Discussion**

Channel 4 — Session 447 — 10:40 - 11:40

Oral presentation: Diagnostic characteristics and consequences of sleep and breathing disorders

Abstracts presented in this session are also available as E-posters from 24 August 2020

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

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

Chairs : Winfried J. Randerath (Solingen, Germany), Maria Bonsignore (Palermo, Italy)

4989	**Introduction**
4990	**Effect of simulated obstructive sleep apnea on thoracic fluid volume and lower airway resistance in asthmatics** Xiaoshu Cao (Toronto, Canada), T. Douglas Bradley, Swati A. Bhatawadekar, Shumit Saha, Susan M. Tarlo, Matthew Stanbrook, Mark Inman, Azadeh Yadollahi
4991	**Is obstructive sleep apnea a risk factor for the progression of thoracic aortic aneurysm? A prospective cohort study** Thomas Gaisl (Zürich, Switzerland), Rejmer Protazy, Maurice Roeder, Patrick Baumgartner, Noriane Sievi, Sandra Siegfried, Simon Stämpfli, Felix Tanner, Malcolm Kohler
4992	**Exertional dyspnea in patients with OSA: pulmonary gas exchange and systemic vascular abnormalities** Amany Fathy Elbehairy (Alexandria, Egypt), Nesma M. Geneidy, Mona S. El Hoshy, Mohamed Khaled El Feky, Doha El-Sanhoury, Nashwa Hassan Abd Elwahab
4993	**Effect of obstructive sleep apnoea on cardiovascular outcomes in patients with acute coronary syndrome: a secondary analysis of the RICCADSA trial** Yuksel Peker (Istanbul, Turkey), Erik Thunström, Helena Glantz, Christine Eulenburg
4994	**Clinical and polysomnographic determinants of REM predominant obstructive sleep apnoea and response to treatment in a revascularized coronary artery disease cohort** Baran Balcan (Istanbul, Turkey), Jennifer Newitt, Seyed M Nouraie, Patrick J Strollo, Erik Thunström, Yuksel Peker
4995	**Inspiratory neural drive and muscle activity during sleep in moderate-to-severe COPD** Nicolle J. Domnik (Kingston (ON), Canada), Robin Scheeren, Grace Ayoo, Helen Driver, Sophie Crinion, J. Alberto Neder, Denis O'Donnell
4996	**Reference values for mean overnight saturation in sleep apnoea – the European Sleep Apnoea Database (ESADA)** Ludger Grote (Göteborg, Sweden), Holger Hein , Ozen K. Basoglu , Ondrej Ludka, Johan Verbraecken, Athanasia Pataka, Stefan Mihaicuta, Pawel Sliwinski, Tarja Saaresranta, Marisa Bonsignore, Ding Zou, Jan Hedner
4997	**Discussion**

Studio Madrid — Session 448 — 10:40 - 11:40

Hot topics: Interstitial lung disease patients in the intensive care unit

Aims : To discuss: 1.) the different phenotypes of interstitial lung diseases (ILD) patients in the intensive care unit (ICU); 2) the importance of appropriate patient selection in determining outcome; 3) the potential prognostic role of computerized tomography (CT) and bronchoalveolar lavage (BAL)/biopsy; 4) the role of extracorporeal membrane oxygenation (ECMO) as bridge to recovery and transplantation; 5) treatment strategies and algorithms

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

Tag(s) : Clinical

Target audience : Adult pulmonologist/Clinician, Clinical researcher, Medical Student, Nurse, Respiratory critical care physician, Pathologist, Radiologist

Chairs : Carlos Robalo Cordeiro (Coimbra, Portugal), Niki Ubags (Epalinges, Switzerland)

10:40	**Introduction**	**4998**

10:45	**Selection of ILD patients for ICU and ECMO** Cara Agerstrand (New York, United States of America)	**4999**
10:55	**Radiological patterns in ICU: does it matter?** Nicola Sverzellati (Parma (PR), Italy)	**5000**
11:05	**Diagnostic procedures in ICU: bronchoscopy and BAL or tissue?** Claudia Ravaglia (Forlì, Italy)	**5001**
11:15	**Management of ILD patients in ICU** Maria Kokosi (London, United Kingdom)	**5002**
11:25	**Discussion and Q&A**	**5003**

Studio Milan Session 449 10:40 - 12:50

Live from the clinic: Physiology

Body plethysmography and spiroergometry

Aims : Body plethysmography allows health professionals to assess functional residual capacity (FRCpleth) and specific airway resistance (sRaw) as primary measures. In combination with deep expirations and inspirations, total lung capacity (TLC) and residual volume (RV) can also be determined.
Spiroergometry is a tool for qualitative and quantitative assessment of the cardiocirculatory, pulmonary and metabolic response to exercise. The measurement of oxygen consumption, carbon dioxide production, minute ventilation and heart rate provide substantial diagnostic and prognostic information in a wide variety of clinical settings.
This session will provide an overview of when these procedures can be performed (indications and contraindications), will demonstrate how to perform the procedure in the clinic and then discuss how to interpret the results.

Disease(s) : Airway diseases Interstitial lung diseases

Method(s) : Pulmonary function testing Physiology

Tag(s) : Clinical

Target audience : Adult pulmonologist/Clinician, General practitioner, Physiologist, Scientist (basic, translational)

Chairs : Mina Gaga (Athens, Greece), Andrea Aliverti (Milan, Italy)

10:40	**Introduction to body plethysmography + case description** Frans H.C. De Jongh (Enschede, Netherlands), Andrea Aliverti (Milan, Italy)	**5004**
10:50	**Live case - Obstructive** Frans H.C. De Jongh (Enschede, Netherlands)	**5005**
11:05	**Discussion and Q/A** Frans H.C. De Jongh (Enschede, Netherlands), Andrea Aliverti (Milan, Italy)	**5006**
11:15	**Introduction to spiroergometry + case description** Jean-Martin Wiederseiner (Basel, Switzerland), Andrea Aliverti (Milan, Italy)	**5007**
11:25	**Live case - Obstructive** Jean-Martin Wiederseiner (Basel, Switzerland)	**5008**
11:40	**Discussion and Q&A** Jean-Martin Wiederseiner (Basel, Switzerland), Andrea Aliverti (Milan, Italy)	**5009**
11:50	**Body plethysmography - case description** Frans H.C. De Jongh (Enschede, Netherlands)	**5010**
11:55	**Live case - Restrictive** Frans H.C. De Jongh (Enschede, Netherlands)	**5011**
12:10	**Discussion & Q/A** Frans H.C. De Jongh (Enschede, Netherlands), Andrea Aliverti (Milan, Italy)	**5012**
12:20	**Spiroergometry - Case description** Jean-Martin Wiederseiner (Basel, Switzerland)	**5013**
12:25	**Live case - Restrictive** Jean-Martin Wiederseiner (Basel, Switzerland)	**5014**
12:40	**Discussion & Q/A** Jean-Martin Wiederseiner (Basel, Switzerland), Andrea Aliverti (Milan, Italy)	**5015**

Studio Paris Session 450 10:40 - 11:40

Joint session: Inhalers for COPD and asthma: reviews

A joint ERS/Industry session

Aims : To gain a better understanding of the current and upcoming inhaler technologies.Please note that this session is not CME accredited.

Chairs : Hilary Pinnock (Edinburgh (Edinburgh), United Kingdom), Richard Costello (Dublin 9, Ireland)

10:40	**Introduction**	**5016**
10:45	**How to select an inhaler?** Omar S. Usmani (London, United Kingdom)	**5017**
10:55	**How to monitor and improve inhaler technique?** Henry Chrystyn (Bingley (West Yorkshire), United Kingdom)	**5018**
11:05	**How to assess and improve inhaler adherence** David Price (Singapore, Singapore)	**5019**
11:15	**Discussion and Q&A**	**5020**

Channel 1 Session 451 11:50 - 12:50

Joint session: Skills training and assessment in pulmonary medicine and surgery

A joint ERS/ESTS session

Aims : To explain a curriculum based training model in different domains such as thoracic ultrasound, endobronchial ultrasound, VATS lung resection; to discuss assessment tools exploring competence in skills; to demonstrate the importance of self-monitoring of the learner with a well-conceived log-book

Target audience : Physician in Pulmonary Training, Thoracic surgeon

Chairs : Gilbert Massard (Esch Sur Alzette, Luxembourg), Lars Konge (Virum, Denmark)

11:50	**Introduction**	**5021**
11:55	**How and why should we train for thoracic ultrasound?** Christian B. Laursen (Odense, Denmark)	**5022**
12:05	**Which criteria indicate competence for endobronchial ultrasound?** Laurence M.M.J. Crombag (Amsterdam, Netherlands)	**5023**
12:15	**Skills curriculum for VATS lobectomy and segmentectomy** René Horsleben Petersen (Copenhagen, Denmark)	**5024**
12:25	**Ideal content and evaluation of a trainee's logbook** Charles-Henri David (Nantes, France)	**5025**
12:35	**Discussion and Q&A**	**5026**

Channel 2 Session 452 11:50 - 12:50

Oral presentation: Elucidating the mechanisms underlying lung repair and exploring therapeutic strategies in vitro

Abstracts presented in this session are also available as E-posters from 24 August 2020

Disease(s) : Airway diseases Interstitial lung diseases

Method(s) : Cell and molecular biology Physiology

Chairs : Agnes W. Boots (Maastricht, Netherlands), Sara Rolandsson Enes (Lund, Sweden)

5027	**Introduction**
5028	**Late Breaking Abstract - 3D culturing mesenchymal stem cells in lung extracellular matrix hydrogels affects their homing potential** Jorge Otero (Barcelona, Spain), Bryan Falcones, Hector Sanz, Esther Marhuenda, Irene Mendizabal, Ignacio Cabrera, Isaac Almendros, Daniel Navajas, Ramon Farre
5029	**RANKL contributes to lung tissue repair via promoting type II epithelial cell proliferation** Habibie Habibie (Groningen, Netherlands), Shanshan Song, Kurnia Putri, Carian Boorsma, Robbert Cool, Xinhui Wu, Reinoud Gosens, Yizhou Wang, Wim Quax, Peter Olinga, Corry-Anke Brandsma, Wim Timens, Janette Burgess, Barbro Melgert

5030	**Differential effects of pirfenidone and nintedanib on mouse alveolar epithelial organoids** Loes E. M. Kistemaker (Groningen, Netherlands), Manon Woest, Vasiliki Verschut, Reinoud Gosens
5031	**The matrix-fibroblast interplay contributes to HIF-1 alpha pathway activation: a possible therapeutic target in idiopathic pulmonary fibrosis (IPF)** Gali Epstein Shochet (Kfar-Saba, Israel), Becky Bardenstein-Wald, Liran Dembitz, David Shitrit
5032	**Divergent effects of MIF on lung alveolar repair** Shanshan Song (Groningue (GR), Netherlands), Habibie Habibie , Laura Florez-Sampedro, Corry-Anke Brandsma, Gerrit J Poelarends, Barbro N Melgert
5033	**HDAC6 inhibition and deletion reduce COPD symptoms in mice and human airway epithelia** Muriel Lizé (Wuppertal, Germany), Sigrid Horstmann, Vera Düsterhus, Cornelia Wiedwald, Carolin Ebert, Annalisa Addante, Carlos Neideck, Stefan Frank, Florian Sohler, Markus Koch
5034	**Endoplasmic reticulum stress implication in senescence of small airway fibroblasts from COPD patients.** Eva Delbrel (London, United Kingdom), Catherine Wrench, Peter Fenwick, Jonathan Baker, Louise Donnelly, Peter Barnes
5035	**IL33 regulates airway neuronal plasticity in vitro** Pien A. Goldsteen (Groningen, Netherlands), L. Van Der Koog, L. E. M. Kistemaker, Y. S. Prakash, B. Ditz, M. Van Den Berge, G. H. Koppelman, M. C. Nawijn, A. M. Dolga, R. Gosens
5036	**Discussion**

Channel 3 Session 453 11:50 - 12:50

Oral presentation: Severe asthma phenotypes and outcomes

Abstracts presented in this session are also available as E-posters from 24 August 2020

Disease(s) : Airway diseases

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

Chairs : Anneke Ten Brinke (Leeuwarden, Netherlands), Andriana Papaioannou (Vrilissia (Athens), Greece)

5037	**Introduction**
5038	**Longitudinal characteristics of the Severe Asthma Research Program (SARP) clinical clusters** Xingnan Li (Tucson, United States of America), Wendy Moore, Huashi Li, William Busse, Mario Castro, Serpil Erzurum, John Fahy, Benjamin Gaston, Elliot Israel, Nizar Jarjour, Bruce Levy, Sally Wenzel, Deborah Meyers, Eugene Bleecker
5039	**Effect of maintenance oral corticosteroids on risk factors for frequent exacerbations in a severe adult asthma population** Jieqiong Yang (Glagow, United Kingdom), John Busby, Liam G Heaney, Paul E Pfeffer, David J Jackson, Adel H Mansur, Andrew Menzies-Gow, Salman Siddiqui, Christopher E Brightling, Rob Niven, Mitesh Patel, Neil C Thomson, Rekha Chaudhuri
5040	**Combined assessment of serum eosinophil-derived neurotoxin and YKL-40 may identify asthma-COPD overlap** Keita Hirai (Shizuoka, Japan), Toshihiro Shirai, Yasuhiro Gon, Shuichiro Maruoka, Kenji Mizumura, Mari Hikichi, Kunihiko Itoh, Shu Hashimoto
5041	**Real world residual disease manifestations after 2-years anti-IL-5 treatment for severe asthma** Katrien A.B. Eger (s-Gravenhage, Netherlands), Johannes A. Kroes, Anneke Ten Brinke, Jacob K. Sont, Elisabeth H. Bel
5042	**Categorization of asthma patients by Global Initiative for Asthma (GINA) 2018 guidelines using a US administrative claims database** Mario Castro (Kansas City, United States of America), Marko A Mychaskiw, Sangtaeck Lim, Randall Brown, Susan Colilla
5043	**Histopathological comparison of endobronchial biopsies from different pulmonary lobes of severe asthmatic patients** Meropi Karakioulaki (Thessaloniki, Greece), Triantafyllia Koletsa, Eleni Papakonstantinou, Spasenija Savic, Kathleen Jahn, Michael Tamm, Daiana Stolz
5044	**Impact of the eosinophil variability on severe exacerbations in an asthmatic population** Núria Toledo Pons (Palma De Mallorca, Spain), Job Fm Van Boven, Josep Muncunill Farreny, Aina Millán Pons, Miguel Román Rodríguez, Bernardo López Andrade, Janwillem Wh Kocks, Borja García-Cosío Piqueras
5045	**Discussion**

Channel 4 Session 454 11:50 - 12:50

Challenging clinical cases: Thoracic oncology

Aims : To describe the history, pathology, analysis and treatment of complex clinical cases in respiratory critical care. The session leaders will facilitate discussions among the case presenters and audience.

Disease(s) : Thoracic oncology

Tag(s) : Clinical

Target audience : Thoracic oncologist, Thoracic surgeon, Respiratory critical care physician, Adult pulmonologist/Clinician, General practitioner, Paediatrician, Pathologist, Nurse, Radiologist, Clinical researcher

Chairs : Torsten Gerriet Blum (Berlin, Germany), Georgia Hardavella (Athens, Greece)

11:50	**Introduction**	**5046**
11:55	**An extremely rare case of malignant clear Cell "Sugar" tumor of the lung** marie drösslerová (Opava, Czech Republic)	**5047**
12:01	**Discussion and Q&A**	**5048**
12:06	**An unsual case of lung consolidations, lymph adenopathies and pericardial mass** Federico Mei (Ancona (AN), Italy)	**5049**
12:12	**Discussion and Q&A**	**5050**
12:17	**Solely an eosinophilic pneumonia or something more?** Gil Gonçalves (Lousada, Portugal)	**5051**
12:23	**Discussion and Q&A**	**5052**
12:28	**Unusual cause of hydropneumothorax** Eserval Rocha Junior (Sao Paulo, Brazil)	**5053**
12:34	**Discussion and Q&A**	**5054**
12:39	**Slow-growing pulmonary nodules** Caroliny Samary Silva Lobato (Rio De Janeiro (RJ), Brazil)	**5055**
12:45	**Discussion and Q&A**	**5056**

Studio Madrid Session 455 11:50 - 12:50

State of the art session: Interstitial lung diseases

Interstitial lung diseases (ILD) and beyond

Aims : Several task forces and position-statement papers are approved, submitted or ongoing in our Assembly 12. This session is going to discuss the major developments in the field through un update of the current TFs. Moreover, a collaboration with ATS of WASOG is ongoing for some for some of them. It would be exciting to have presented all together in a session with top quality speakers form Europe and beyond. The following projects will be discussed: 1. Diagnosis and treatment of hypersensitivity pneumonitis remain a real challenge; this talk-TF provides an overview of our current understanding and points out new opportunities for further research. 2. Genetics in ILDs: There is a growing body of evidence that both common and rare genetic variants contribute to the development and clinical manifestation of many of the ILDs. Here, we review the current understanding of genetic risk and ILD. 3. Sarcoidosis: or IPF and Lung Cancer; in preparation of a Consensus Statement; the results of the ERS Survey (speakers: Dan Culver or Carlo Vancheri) : in case that Sarcoidosis Diagnostic Guidelines and Treatment TF ae presented in a separate section 4. Interventional Pulmonology and ILDs.

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

Tag(s) : Clinical

Target audience : Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Medical Student, Nurse, Patient, Radiologist, Thoracic oncologist, Respiratory therapist, Journalist, Thoracic surgeon

Chairs : Carlos Robalo Cordeiro (Coimbra, Portugal), Niki Ubags (Epalinges, Switzerland)

11:50	**Introduction**	**5057**
11:55	**Chronic Hypersensitivity pneumonitis: risks factors and therapeutic options** Athol Wells (London, United Kingdom)	**5058**
12:05	**Genetics in ILDs: what does the future hold?** Maria Molina Molina (Barcelona, Spain)	**5059**
12:15	**Invasive approaches in the diagnosis of ILDs** Claudia Ravaglia (Forlì, Italy)	**5060**

12:25	**How systemic inflammatory diseases affect the lung** Michael Kreuter (Heidelberg, Germany)	**5061**
12:35	**Discussion and Q&A**	**5062**

Studio Paris Session 456 11:50 - 12:50

Symposium: Digital health: a brave new world?

Aims : To provide clinicians with the patient perspective on the utility of sensors, trackers and monitors; to describe the role of digital technologies in tele-monitoring of asthma patients and the ability to predict asthma exacerbations; to describe recent advances in open platforms for patients and the importance of using connected e-Health to help patients with respiratory diseases live with their conditions; to describe the need to develop digital resources that are accessible and overcome problems of health literacy; and to assess the clinical ability of e-health technologies to help patients manage their pulmonary disorders and the promising role of artificial intelligence in future digital trials.

Disease(s) : Airway diseases | Respiratory infections | Sleep and breathing disorders

Method(s) : Public health | Pulmonary function testing | Pulmonary rehabilitation

Tag(s) : Clinical

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

Chairs : Richard Costello (Dublin 9, Ireland), Hilary Pinnock (Edinburgh (Edinburgh), United Kingdom)

11:50	**Introduction**	**5063**
11:55	**Let's start with the end-user, patients and digital: will they work together?** Dominique Hamerlijnck (Amsterdam, Netherlands)	**5064**
12:00	**Combining digital technologies to monitor asthma control and predict asthma exacerbations** Omar S. Usmani (London, United Kingdom)	**5065**
12:10	**New horizons in digital technologies for respiratory medicine** Vitalii Poberezhets (Vinnytsia, Ukraine)	**5066**
12:20	**Designs of future digital trials and the promise of artificial intelligence** Konstantinos Kostikas (Ioannina, Greece)	**5067**
12:30	**Connected health and eHealth literacy** Lars Kayser (Copenhagen, Denmark)	**5068**
12:40	**Discussion and Q&A**	**5069**

Studio Vienna Session 457 11:50 - 12:50

Lungs on fire: Paediatric respiratory diseases

Aims : To describe real-life clinical cases during the innovative interactive session, including the presentation of cases that have various levels of difficulty and often necessitate a differential diagnosis. This session will be led by a discussant, who will present the cases to a panel of experts and the audience. The discussant will encourage discussion among the panel of experts, who are encountering these cases for the first time. To further determine diagnostic and therapeutic options for these patients, the discussant will also invite audience participation in the reflexion and discussion of these cases.

Disease(s) : Paediatric respiratory diseases

Tag(s) : Clinical

Target audience : Paediatrician, General practitioner, Respiratory critical care physician, Clinical researcher, Physiologist, Nurse, Thoracic oncologist, Thoracic surgeon, Radiologist, Respiratory physiotherapist

Chairs : Ernst Eber (Graz, Austria), Monika Gappa (Düsseldorf, Germany), Andrew Bush (London, United Kingdom)

Discussants : Jürg Hammer (Basel, Switzerland)

	Case 1 - Author: Edith Marije van den Beukel (Netherlands)	**5070**
	Discussion and Q&A	**5071**
	Case 2 - Author: Anna-Louise Nichols (United Kingdom)	**5072**
	Discussion and Q&A	**5073**

	Case 3 - Author: Omer Elneima (United Kingdom)	**5074**
	Discussion and Q&A	**5075**
	Case 4 - Author: Sabine M.P.J. Prevaes (Netherlands)	**5076**
	Discussion and Q&A	**5077**
11:50	**Introduction**	**5078**
11:52	**Presentation of cases by the session facilitator** Jürg Hammer (Basel, Switzerland)	**5079**

13:15-14:15
INDUSTRY DEVICE MINI SYMPOSIA SEE PAGE 1

13:15-14:15
INDUSTRY LUNCHTIME SYMPOSIUM SEE PAGE 1

Studio Vienna — Session 463 — 14:20 - 14:50

Pro/Con debate: Lung cancer screening: is it ready for implementation?

Chairs : Joanna Chorostowska-Wynimko (Warsaw, Poland), Gilbert Massard (Esch Sur Alzette, Luxembourg), Torsten Gerriet Blum (Berlin, Germany)

14:20	**Introduction**	**5101**
14:23	**Yes** Hans-Ulrich Kauczor (Heidelberg, Germany)	**5102**
14:33	**No** Joachim Ficker (Herzogenaurach, Germany)	**5103**
14:43	**Discussion**	**5104**

Channel 1 — Session 464 — 14:30 - 15:30

Language session: Russian speaking programme 2020: Part I
Chronic obstructive pulmonary disease (a joint ERS/RRS/ARSRM session)

Aims : To provide up-to-date information about COPD, including its epidemiology, pathophysiology, diagnosis, clinical course, treatment and rehabilitation.
This programme will be available in Russian and English.

Disease(s) : Airway diseases

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

Tag(s) : Clinical

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

Chairs : Kai Michael Beeh (Wiesbaden, Germany), Alexander G. Chuchalin (Moscow, Russian Federation)

14:30	**Introduction**	**5105**
14:35	**Pathomorphology of COPD** Maria Samsonova (Moscow, Russian Federation)	**5106**
14:45	**Classification of COPD: problems and controversies** Konstantinos Kostikas (Ioannina, Greece)	**5107**
14:55	**Pulmonary functional diagnosis of COPD** Zaurbek Aisanov (Moscow, Russian Federation)	**5108**
15:05	**Control of COPD** Marc Miravitlles (Barcelona (CT), Spain)	**5109**

15:15	**Discussion and Q&A**	**5110**

Channel 2 Session 465 14:30 - 15:30

Oral presentation: Ageing, metabolic syndrome and the lung

Abstracts presented in this session are also available as E-posters from 24 August 2020

Disease(s) : Airway diseases Sleep and breathing disorders

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

Chairs : David M. G. Halpin (Exeter, United Kingdom), Nicolas Kahn (Heidelberg, Germany)

5111	**Introduction**
5112	**Late Breaking Abstract - Tackling the diagnostic challenge of COVID-19 – beyond a 'false-negative'?** Anna Behrendt (London, United Kingdom), Ladan Akbarian-Tefaghi, Lisa Amani, Thomas Burns, Sachan Maruthan, Akhilesh Mulay, Ezgi Ozcan, Rabia Warraich, Stephanie Paget, Amina Jaffer, Hannah Jarvis, Simon Brill, Dean Creer
5113	**Unrevealed Structural, Functional and Immunological Pulmonary Changes Induced by Metabolic Syndrome in Elderly** Maysa A. R. Brandao-Rangel (Sao Jose Dos Campos (SP), Brazil), Renilson M Ferreira, Luis Vicente F Oliveira, Claudio R Frison, Rodolfo P Vieira
5114	**Prognostic nutritional index (PNI): A predictive factor for elderly patients with COPD** EIKO SUZUKI (Chiba, Japan), Naoko Kawata, Jun Ikari, Rie Anazawa, Masaki Suzuki, Ayako Shimada, Koichiro Tatsumi
5115	**Determination of the phenotypic age of the residents of Mexico City. Effect of accelerated aging on lung function and structure** Ivette Buendia Roldán (México D.F, Mexico), Rosario Fernandez-Plata, Annie Pardo, Moises Selman
5116	**Underappreciation of coronary artery disease in patients with COPD** Christoph Beyer (Innsbruck, Austria), Alex Pizzini, Anna Boehm, Judith Loeffler-Ragg, Guenter Weiss, Gudrun Feuchtner, Axel Bauer, Guy Friedrich, Fabian Plank
5117	**Serum lysophosphatidic acid levels and exacerbation frequency in chronic obstructive pulmonary disease (COPD)** Wei Tew (South San Francisco, United States of America), Qingling Li, Andrew Birnberg, Arindam Chakrabarti, David Choy, Erik Verschueren, Margaret Neighbors, Wendy Sandoval, Carrie Rosenberger, Michele Grimbaldeston
5118	**COPD as a risk factor for carotid artery disease (CAD) and low-extremity artery disease (LEAD)** Daniela Buklioska Ilievska (Skopje, North Macedonia), Jordan Minov, Nade Kochovska Kamchevska, Marjan Baloski, Bozidar Poposki
5119	**Discussion**

Channel 3 Session 466 14:30 - 15:30

Oral presentation: Novelties in interventional pulmonology: expanding horizons

Abstracts presented in this session are also available as E-posters from 24 August 2020

Disease(s) : Thoracic oncology Airway diseases

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

Chairs : Prashant Nemichand Chhajed (Mumbai, India), Felix J.F. Herth (Heidelberg, Germany)

5120	**Introduction**
5121	**Endosonography for left adrenal gland assessment in lung cancer patients – 10 years experience** Maciej Gnass (Myślenice, Poland), Stanisław Orzechowski, Joanna Sola, Monika Lis, Monika Skrobot, Paweł Gwóźdź, Anna Filarecka, Jerzy Soja, Juliusz Pankowski, Artur Bartczak, Artur Szlubowski
5122	**Concordance between pulmonologist performed rapid on-site evaluation (ROSE) and pathological diagnosis in EBUS-TBNA samples** Maria Perez Morales (San josé del valle, Spain), María Morales González, Cayo Javier García Polo, Enrique José González-Moya Rodriguez De Mondelo, Mercedes Merino Sánchez
5123	**Liquid biopsy in patients with adenocarcinoma -comparison between bronchoalveolar lavage (BAL) and blood samples** Nikolay Yanev (Sofia, Bulgaria), Evgeni Mekov, Stoyan Bichev, Alexey Savov, Dimitar Kostadinov

5124	**Intratumoral Hyperthermic Chemotherapy Injection in Peripheral Non-Small Cell Lung Cancer; a Pilot Study.** Asem Hewidy (Mansoura, Egypt), Mohamed Tohlob, Lucy Suliman, Ahmed Elmorsy, Mohamed Ibrahim	
5125	**Re-biopsy in Advanced NSCLC after First Line Treatment: Feasibility and Clinical Utility** Uffe Bodtger (Naestved, Denmark), Malene Støchkel Frank , Asbjørn Høegholm, Inger Merete Stamp, Julie Gehl	
5126	**A randomised, controlled trial of the use of a dedicated ballooned intercostal drain** Rachel Mercer (Winchester, United Kingdom), Samuel Kemp, Najib Rahman	
5127	**Bronchoscopic needle based confocal laser endomicroscopy (nCLE) as a real-time detection tool for peripheral lung cancer** Tess Kramer (Amsterdam, Netherlands), Lizzy Wijmans, Martijn De Bruin, Peter Bonta, Jouke Annema	
5128	**Discussion**	

Channel 4 Session 467 14:30 - 15:30

Challenging clinical cases: Airway diseases

Aims : To describe the history, pathology, analysis and treatment of complex clinical cases in respiratory critical care. The session leaders will facilitate discussions among the case presenters and audience.

Disease(s) : Airway diseases

Tag(s) : Clinical

Target audience : Adult pulmonologist/Clinician, General practitioner, Clinical researcher, Respiratory critical care physician, Paediatrician, Respiratory physiotherapist, Radiologist

Chairs : Marco Idzko (Wien, Austria), Lena Uller (Lund, Sweden)

14:30	**Introduction**	5129
14:35	**Expanding the awareness of Alpha-1 antitrypsin deficiency (AATD) to provide a multidisciplinary approach to care** Bruno Balbi (Veruno (NO), Italy)	5130
14:41	**Discussion and Q&A**	5131
14:46	**Tracheal schwannoma – an unexpected cause of chronic cough** Daniela Sofia da Costa Cardoso (Coimbra, Portugal)	5132
14:52	**Discussion and Q&A**	5133
14:57	**The use of imaging to establish the cause of a complex case of respiratory failure** Joe Glover (Coventry, United Kingdom)	5134
15:03	**Discussion and Q&A**	5135
15:08	**Plasmacytoma** Clara Ortega Michel (San Sebastian, Spain)	5136
15:14	**Discussion and Q&A**	5137
15:19	**An abnormal DLCO measurement** Mart N. van der Plas (Monster, Netherlands)	5138
15:25	**Discussion and Q&A**	5139

Studio Madrid Session 468 14:30 - 15:30

Symposium: Noninvasive respiratory assistance for acute respiratory failure outside the intensive care unit: a bargain or a burden?

Aims : To describe the advantages and disadvantages of noninvasive respiratory assistance, noninvasive ventilation (NIV) and/or high-flow nasal cannula (HFNC), to patients with acute respiratory failure outside the intensive care unit.

Disease(s) : Respiratory critical care

Method(s) : Respiratory intensive care

Target audience : Adult pulmonologist/Clinician, Clinical researcher, General practitioner, Nurse, Physician in Pulmonary Training, Respiratory critical care physician, Respiratory physiotherapist, Journalist

Chairs : Anita Simonds (London, United Kingdom), Thierry Troosters (Leuven, Belgium)

14:30	**Introduction**	**5140**
14:35	**How to stratify the risk of failure of noninvasive respiratory assistance** Begüm Ergan (Izmir, Turkey)	**5141**
14:45	**Indications and pitfalls of high-flow nasal cannula (HFNC) outside the intensive care unit** Mark W. Elliott (Leeds (West Yorkshire), United Kingdom)	**5142**
14:55	**Remote monitoring devices: one more point for noninvasive assistance in the wards** Marieke L. Duiverman (Groningen, Netherlands)	**5143**
15:05	**Noninvasive respiratory assistance in respiratory high dependency units: a bargain for high risk patients?** Lara Pisani (Bologna (BO), Italy)	**5144**
15:15	**Discussion and Q&A**	**5145**

Studio Milan Session 469 14:30 - 15:30

Symposium: Does exposure long before conception influence future respiratory health?

Aims : To describe the effects of exposures, lifestyles and behaviours before conception and in previous generations on asthma and respiratory health, including through multigenerational studies in humans and animals, epigenetic mechanistic research, and understanding susceptible stages during germ cell development.

Disease(s) : Airway diseases | Paediatric respiratory diseases

Tag(s) : Translational

Target audience : Adult pulmonologist/Clinician, General practitioner, Respiratory therapist, Medical Student, Paediatrician, Scientist (basic, translational)

Chairs : Sofia Belo Ravara (Covilhã, Portugal), Jørgen Vestbo (Manchester (Greater Manchester), United Kingdom)

14:30	**Introduction**	**5146**
14:35	**Before the beginning of life: how exposures of fathers and mothers before conception influence respiratory health in their children** Cecilie Svanes (Bergen, Norway)	**5147**
14:45	**Inter- and trans-generational effects in respiratory disease: epigenetic mechanisms** John Holloway (Southampton (Hampshire), United Kingdom)	**5148**
14:55	**Multigenerational animal models investigating the effects of exposures across generations.** Susanne Krauss-Etschmann (Borstel, Germany)	**5149**
15:05	**Causal statistical models for analysis of multi-generation data: An analysis of father's overweight and offspring height and lung function** Simone Accordini (Verona (VR), Italy)	**5150**
15:15	**Discussion and Q&A**	**5151**

Studio Paris Session 470 14:30 - 15:30

State of the art session: Respiratory infections

Big data in clinical practice

Aims : To provide updates on clinically important aspects of respiratory infections; and to demonstrate how big data affect current clinical practice.

Disease(s) : Respiratory infections

Tag(s) : Clinical

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

Chairs : Eva Polverino (Barcelona, Spain)

14:30	**Introduction**	**5152**
14:35	**Pneumonia: strain type, vaccination and antibiotic resistance** James D. Chalmers (Dundee (Angus), United Kingdom)	**5153**

14:45	**The lung microbiome and its effects on respiratory infections** Leopoldo N. Segal (New York New York, NY, United States of America)	**5154**
14:55	**Individualising treatment for tuberculosis: what has whole genome sequencing taught us so far?** Daniela Maria Cirillo (Milano (MI), Italy)	**5155**
15:05	**The cystic fibrosis transmembrane conductance regulator and its modulators: clinical implications** Felix Ratjen (Toronto (ON), Canada)	**5156**
15:15	**Discussion and Q&A**	**5157**

Studio Vienna — Session 471 — 15:00 - 15:30

Pro/Con debate: Do I need a robot in my thoracic surgery operating theatre?

Aims : To compare robotic surgery and video-assisted surgery for the treatment of chest malignancies such as lung cancer and mediastinal neoplasms; to provide an update on current application of robotic-assisted surgery and a thorough analysis of results in terms of preoperative evaluation and selection of patients, surgical outcome, postoperative length of stay, complication rate, general costs, learning curve, compared to the video-assisted thoracic surgery (VATS).

Disease(s) : Respiratory critical care, Thoracic oncology

Tag(s) : Clinical

Target audience : Adult pulmonologist/Clinician, Clinical researcher, Medical Student, Respiratory critical care physician, Radiologist, Respiratory physiotherapist, Thoracic oncologist, Thoracic surgeon

Chairs : Joanna Chorostowska-Wynimko (Warsaw, Poland), Gilbert Massard (Esch Sur Alzette, Luxembourg), Torsten Gerriet Blum (Berlin, Germany)

15:00	**Introduction**	**5158**
15:03	**Yes** Gulia Veronesi (Milan, Italy)	**5160**
15:13	**No** René Horsleben Petersen (Copenhagen, Denmark)	**5159**
15:23	**Discussion**	**5161**

Channel 1 — Session 472 — 15:40 - 16:40

Language session: Russian speaking programme 2020: Part II
Chronic obstructive pulmonary disease (a joint ERS/RRS/ARSRM session)

Aims : To describe new findings about COPD, including its epidemiology, pathophysiology, diagnosis, clinical course, treatment and rehabilitation.
This programme will be available in Russian and English.

Disease(s) : Airway diseases

Tag(s) : Clinical

Chairs : David M. G. Halpin (Exeter, United Kingdom), Andrey Belevskiy (Moscow, Russian Federation)

15:40	**Introduction**	**5162**
15:45	**Clinical diagnosis of COPD** Sergey Avdeev (Moscow, Russian Federation)	**5163**
15:58	**Imaging of COPD** Igor Tyurin (Moscow, Russian Federation)	**5164**
16:11	**Treatment programs in COPD** David M. G. Halpin (Exeter, United Kingdom)	**5165**
16:24	**Discussion and Q&A**	**5166**

Channel 2 — Session 473 — 15:40 - 16:40

Oral presentation: Novel insights into nursing interventions for managing patients with asthma and COPD

Abstracts presented in this session are also available as E-posters from 24 August 2020

Disease(s) : Respiratory critical care | Airway diseases

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

Chairs : Georgia Narsavage (PUNTA GORDA, United States of America), Andreja Sajnic (Zagreb, Croatia)

5167	**Introduction**
5168	**Reasons for inhaled corticosteroid non-adherence disclosed by African American adults during primary care visits for uncontrolled asthma** Maureen George (New York, United States of America), Ani Bilazarian, Annie Chung, Katherine South, Allison Norful
5169	**Treatment adherence among adults with asthma– A report from the OLIN asthma cohort** Sofia Winsa Lindmark (Luleå, Sweden), Ludwig Sandström, Johanna Selberg, Linnea Hedman, Helena Backman, Eva Rönmark, Caroline Stridsman
5170	**Study to Evaluate Satisfaction with the Inhalation Device Used by Patients with Asthma or Chronic Obstructive Pulmonary Disease and the Association with Adherence and Disease Control** David Diaz Perez (Güímar, Spain), Jordi Giner Donaire, Carme Hernández, Roberto Cabestre
5171	**Patients' perspectives on point-of-care diagnostics and treatment by emergency medical technicians in acute COPD exacerbations - a Qualitative study** Helle Marie Christensen (Tommerup, Denmark), Christian B Laursen, Daniel Wittrock, Giti Nadim, Gitte Jørgensen, Lars B Nielsen, Michael K Sørensen, Caroline Heerema, Ingrid L Titlestad, Annmarie T Lassen, Søren Mikkelsen
5172	**Ecare-COPD – a massive open online course to empower nurses to enhance self-management skills in patients with COPD** Miguel Padilha (Porto, Portugal), Paulo Machado, Ana Ribeiro
5173	**An exploratory qualitative study of patients' and healthcare professionals' views on self-management in bronchiectasis.** Carol Kelly (Lancashire, United Kingdom), Dave Lynes , Anthony Tsang, Sally Spencer
5174	**An exploration of dyspnoea and determinants in patients with COPD** Ellen Margrethe Nerheim (Nittedal, Norway), Gunnar Einvik, Vivi Lycke Christensen, Anne Edvardsen
5175	**Discussion**

Channel 3 — Session 474 — 15:40 - 16:40

Oral presentation: Novelties in pulmonary rehabilitation and chronic respiratory care

Abstracts presented in this session are also available as E-posters from 24 August 2020

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

Method(s) : Pulmonary rehabilitation | Palliative care | Epidemiology | General respiratory patient care | Pulmonary function testing

Chairs : Claire M. Nolan (Richmond, United Kingdom), Michele Vitacca (Gussago (BS), Italy)

5176	**Introduction**
5177	**Clinical efficacy of the COPDnet integrated care model** Alex J Van 't Hul (Bavel, Netherlands), Noortje Koolen, Philip Van Der Wees, Gert Westert, Jeanine Antons, Marianne De Man, Richard Dekhuijzen, Michel Van Den Heuvel
5178	**Minimal clinically important difference in Barthel dyspnoea after pulmonary rehabilitation in patients with Chronic Obstructive Pulmonary Disease** Michele Vitacca (Gussago (BS), Italy), Alberto Malovini, Bruno Balbi, Maria Aliani, Piero Ceriana, Antonio Spanevello, Claudio Fracchia, Mauro Maniscalco, Giacomo Corica, Nicolino Ambrosino, Mara Paneroni
5179	**Efficiency of home-based pulmonary rehabilitation in adults with asthma** Ayşe Sena Manzak (istanbul, Turkey), Semiramis Özyılmaz, Pınar Atagün Güney
5180	**The evidence of benefits of exercise training: Long-term effects of pulmonary rehabilitation in Idiopatic Pulmonary Fibrosis.** Maurizia Lanza (Lusciano (CE), Italy), Ilernando Meoli, Pasquale Imitazione, Salvatore Musella, Anna Annunziata, Giuseppe Fiorentino
5181	**Incident Depression in Patients with Chronic Obstructive Pulmonary Disease: a UK Population-based Study** Rayan Siraj (Nottingham, United Kingdom), Tricia Mckeever, Jack Gibson, Charlotte Bolton

5182	**Management of chronic breathlessness: a multinational survey of respiratory medicine and palliative care doctors** Caroline Jolley (London, United Kingdom), Małgorzata Krajnik, Nilay Hepgul, Andrew Wilcock, Ewa Jassem, Tomasz Bandurski, Silvia Tanzi, Steffen T Simon, Irene J Higginson
5183	**Effects of pulmonary rehabilitation on the sensory and affective dimension of dyspnea** Virginie Molinier (Lodève, France), Nathalie Fernandes, Pauline Caille, François Alexandre, Nelly Heraud
5184	**Discussion**

Channel 4 — Session 475 — 15:40 - 16:40

Oral presentation: Promising biomarkers for idiopathic interstitial pneumonia

Abstracts presented in this session are also available as E-posters from 24 August 2020

Disease(s) : Interstitial lung diseases

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

Chairs : Shinichiro Ohshimo (Hiroshima, Japan), Manuela Funke-Chambour (Bern, Switzerland)

5185	**Introduction**
5186	**Biomarkers of collagen formation are predictive of IPF progression and death** Nils Hoyer (København NV, Denmark), Henrik Jessen, Sarah Rønnow, Morten Karsdal, Diana Leeming, Jannie Sand, Saher Shaker
5187	**Effects of nintedanib on markers of epithelial damage in subjects with IPF: data from the INMARK trial** Gisli Jenkins (Nottingham (Nottinghamshire), United Kingdom), Imre Noth, Moisés Selman, Vincent Cottin, Yasuhiko Nishioka, Jin Woo Song, Antje Prasse, Eric S White, Carina Ittrich, Claudia Diefenbach, Klaus B Rohr, Susanne Stowasser, Toby M Maher
5188	**Association of neoepitopes with disease severity and respiratory hospitalization in patients with IPF** Justin Oldham (Sacramento, United States of America), Jamie L Todd, Megan L Neely, Hillary Mulder, Robert Overton, Hyun J Kim , Mridu Gulati, Thomas B Leonard, Scott M Palmer, Imre Noth, Christian Hesslinger
5189	**Changes in biomarkers with nintedanib plus sildenafil in subjects with IPF by presence of emphysema in the INSTAGE trial** Eric S White (Ann Arbor, United States of America), Vincent Cottin, Martin Kolb, Toby M Maher, Carina Ittrich, Claudia Diefenbach, Klaus B Rohr, Manuel Quaresma, Bruno Crestani
5190	**Prognostic value of oxygenated hemoglobin (OxyHem) in fibrosing interstitial lung diseases** Sebastiano Emanuele Torrisi (Acireale (CT), Italy), Michael Kreuter, Nicolas Kahn, Katharina Höger, Finn Moritz Wilkens, Rudolf Jörres, Franziska Trudzinski
5191	**Diagnosis of interstitial lung diseases using eNose technology** Catharina Moor (Rotterdam, Netherlands), Judith Oppenheimer, Gizal Nakshbandi, Joachim Aerts, Paul Brinkman, Anke-Hilse Maitland- Van Der Zee, Marlies Wijsenbeek
5192	**Reduced endogenous secretory RAGE in blood and bronchoalveolar lavage fluid is associated with poor prognosis in idiopathic pulmonary fibrosis** Kakuhiro Yamaguchi (Hiroshima, Japan), Hiroshi Iwamoto, Witold Mazur, Shinichiro Miura, Shinjiro Sakamoto, Yasushi Horimasu, Takeshi Masuda, Shintaro Miyamoto, Taku Nakashima, Shinichiro Ohshimo, Kazunori Fujitaka, Hironobu Hamada, Noboru Hattori
5193	**Discussion**

Studio Madrid — Session 476 — 15:40 - 16:40

Hot topics: Hot topics in intensive care: COVID-19: Lessons learned

Aims : To provide an update on 1) clinical characteristics of CoVID-19; 2) risks for healthcare workers to become CoVID infected through aerosols and droplet generated during respiratory support; 3) how to prepare the hospital for the next health crisis / pandemic; 4) on impact of CoVID-19 on health care systems in low – middle income countries; 5) how to organize and perform research during a health crisis or pandemic.

Disease(s) : Respiratory critical care

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

Target audience : Physician in Pulmonary Training, Adult pulmonologist/Clinician, Clinical researcher

Chairs : Anita Simonds (London, United Kingdom), Thierry Troosters (Leuven, Belgium)

15:40	**Introduction**	**5194**

15:45	**CoVID 19: clinical characteristics and outcome** Alexandre Demoule (Paris, France)	**5195**
15:55	**Respiratory support and viral transmission** Stefano Nava (Bologna (BO), Italy)	**5196**
16:05	**Management of severe COVID-19 in resource-poor settings** Arjen Dondorp (Bangkok, Thailand)	**5197**
16:15	**How to organize research during a pandemic** Michelle Gong (Bronx, United States of America)	**5198**
16:25	**Discussion and Q&A**	**5199**

Studio Milan — Session 477 — 15:40 - 16:40

Symposium: Improving the delivery of tobacco-use treatment

Successful stories in European and non-European countries

Aims : To present a comprehensive overview on methods to effectively implement innovative tobacco cessation in healthcare; and to describe effective interventions for integrating tobacco cessation into health systems, including 1) health system engagement and organisational change; 2) use of healthcare providers' reminder systems, electronic medical records and other information technology tools; 3) delivery of smoking cessation training to healthcare providers; and 4) patient involvement and health education.

Disease(s) : Airway diseases | Respiratory infections | Thoracic oncology

Tag(s) : Clinical

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

Chairs : Sofia Belo Ravara (Covilhã, Portugal), Jørgen Vestbo (Manchester (Greater Manchester), United Kingdom)

15:40	**Introduction**	**5200**
15:45	**The effectiveness, health gains and barriers of an in-hospital tobacco cessation intervention. The Ottawa model: a successful story.** Sophia Papadakis (Ottawa (ON), Canada)	**5201**
15:54	**A pragmatic tobacco cessation approach: the UK Very Brief Advice and Brief Support and Treatment models for smokers during routine consultations** Alex Bobak (London, United Kingdom)	**5202**
16:03	**Patient perspective** Isabel Saraiva (Cascais, Portugal)	**5203**
16:08	**How Austria may benefit from a comprehensive smoke-free policy: promoting population-based smoking cessation** Hanns Moshammer (Wien, Austria)	**5204**
16:17	**Engaging patients in smoking cessation: from patient involvement to patient health education** Monica Fletcher (Cuckfield, United Kingdom)	**5205**
16:26	**Discussion and Q&A**	**5206**

Studio Paris — Session 478 — 15:40 - 16:40

Symposium: Community acquired pneumonia – new guidelines, major advances?

Aims : To appraise the recommendations of the new CAP guidelines and revisit important advances and drawbacks of the new recommendations to clinical care; to evaluate established and emerging evidence on complementary diagnostic methods in patients with suspicion of CAP; to revise the management of immunocompromised patients with suspicion of CAP; to discuss alternative diagnosis and management in non-resolving CAP and associated pleural infection.

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

Tag(s) : Clinical

Target audience : Adult pulmonologist/Clinician, Clinical researcher, Nurse, Physician in Pulmonary Training, Physiologist

Chairs : Eva Polverino (Barcelona, Spain)

15:40	**Introduction**	**5207**

15:45	**CAP guidelines 2019 – new and better?** Stefano Aliberti (Milano (MI), Italy)	**5208**
15:55	**Diagnosing CAP – any advances?** Cristina Prat Aymerich (Badalona (Barcelona), Spain)	**5209**
16:05	**CAP in the immunocompromised – more common than you think** Julio Ramirez (Louisville, United States of America)	**5210**
16:15	**Non-resolving CAP – what to do when antibiotics do not help** Michael Tamm (Basel, Switzerland)	**5211**
16:25	**Discussion and Q&A**	**5212**

Studio Vienna Session 479 15:40 - 17:50

Grand round: Lung cancer grand round

Aims : To describe different aspects in the diagnosis and management of intrathoracic tumours, based on challenging clinical cases.

Disease(s) : Thoracic oncology

Tag(s) : Clinical

Target audience : Adult pulmonologist/Clinician, Medical Student, Pathologist, Physician in Pulmonary Training, Radiologist, Thoracic oncologist, Thoracic surgeon

Chairs : Joanna Chorostowska-Wynimko (Warsaw, Poland), Gilbert Massard (Esch Sur Alzette, Luxembourg), Torsten Gerriet Blum (Berlin, Germany)

15:40	**Introduction**	**5213**
15:45	**A patient with a lazarus effect on tyrosine kinase inhibition** Dragana M. Jovanović (Beograd, Republic of Serbia)	**5214**
16:05	**Discussion and Q&A**	**5215**
16:15	**Advanced non small cell lung cancer: an approach fit for the twenties** Wouter H. van Geffen (Leeuwarden, Netherlands)	**5216**
16:35	**Discussion and Q&A**	**5217**
16:45	**A rare case of oligometastatic disease** Georgia Hardavella (Athens, Greece)	**5218**
17:05	**Discussion and Q&A**	**5219**
17:15	**Adenoid cystic carcinoma of the trachea: not so benign** Jo Raskin (Kessel-Lo, Belgium)	**5220**
17:35	**Discussion and Q&A**	**5221**

Channel 1 Session 480 16:50 - 18:00

Language session: Spanish/Portuguese programme 2020: Part I
A joint ERS/ALAT/ASSOBRAFIR/SBPT/SEPAR/SPP session

Aims : To describe the impact of environmental pollution on patients with airway diseases.
This programme will be available in Spanish and Portuguese.

Disease(s) : Airway diseases

Tag(s) : Basic science

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

Chairs : Mark Cohen Todd (Guatemala City, Guatemala), Carlos Andres Jimenez Ruiz (Madrid, Spain), Paula Maria Gonçalves Pinto (Lisboa, Portugal)

16:50	**Introduction**	**5222**

16:55	**Environmental pollution: a problem in the Iberian Peninsula: view of the Sociedad Española de Neumología y Cirugía Torácica (SEPAR)** Isabel Ines Urrutia Landa (Bilbao (PV), Spain)	**5223**
17:05	**Environmental pollution: a problem in the Iberian Peninsula: view of the Sociedade Portuguesa de Pneumologia (SPP)** António Jorge Correia Gouveia Ferreira (Coimbra, Portugal)	**5224**
17:15	**Environmental pollution: a problem in Latin America: view of the Sociedade Brasileira de Pneumologia e Tisiologia (SBPT)** Ubiratan Santos (São Paulo (SP), Brazil)	**5225**
17:25	**Environmental pollution: a problem in Latin America: view of the Asociación Latinoamericana de Tórax (ALAT)** Mark Cohen Todd (Guatemala City, Guatemala)	**5226**
17:35	**Pollution, air quality and climate change: far beyond wildfire?** José Rogelio Perez-Padilla (México D.F, Mexico)	**5227**
17:50	**Discussion and Q&A**	**5228**

Channel 2 Session 481 16:50 - 17:50

Oral presentation: Advances in pharmacological treatment of COPD

Abstracts presented in this session are also available as E-posters from 24 August 2020

Disease(s) : Airway diseases

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

Chairs : Mona Bafadhel (Oxford (Oxfordshire), United Kingdom), Alberto Papi (Ferrara, Italy)

5229	**Introduction**
5230	**Late Breaking Abstract - COPD exacerbation benefits relative to pneumonia risk with budesonide/glycopyrronium/formoterol metered dose inhaler: analyses from ETHOS** Fernando J. Martinez (New York, United States of America), Klaus F. Rabe, Gary T. Ferguson, Dave Singh, Jadwiga A. Wedzicha, Martin Jenkins, Magnus Aurivillius, Colin Reisner, Paul Dorinsky
5231	**Late Breaking Abstract - Real-world evidence of dual bronchodilator therapy using Clinical COPD Questionnaire in 4700 COPD patients** Arschang Valipour (Wien, Austria), Sergey Avdeev, Adam Barczyk, Valentina Bayer, Zvi Fridlender, Mariela Georgieva, Ondřej Kudela, Alexey Medvedchikov, Ramona Miron, Maria Sanzharovskaya, Virginija Šileikienė, Jurij Šorli, Marc Spielmanns, Zsuzsanna Szalai
5232	**Prevalence and abundance of selected genes conferring macrolide resistance genes in COPD patients during maintenance treatment with azithromycin** Sander Talman (Etten-Leur, Netherlands), Remco Djamin, Eefje Schrauwen, Christian Von Wintersdorff, Petra Wolffs , Paul Savelkoul , Sevim Uzun, René Kerstens, Menno Van Der Eerden , Jan Kluytmans
5233	**The effect of the indicated use of ß-blockers on the risk of COPD exacerbations: the Rotterdam Study** Leila Karimi (Rotterdam, Netherlands), Guy Brusselle, Lies Lahousse, Phebe De Nocker, Bruno H Stricker, Katia M C Verhamme
5234	**Small airway disease (SAD) is associated with respiratory symptoms and relevant for therapy in early COPD** Frederik Trinkmann (Heidelberg, Germany), Julia Schäfer, Franziska Trudzinski, Joshua Gawlitza, Joachim Saur, Ibrahim Akin, Martin Borggrefe, Thomas Ganslandt, Felix Herth, Roland Buhl
5235	**Predictive modelling of COPD exacerbation rates using baseline risk factors** Dave Singh (Manchester, United Kingdom), Fernando J. Martinez, Klaus F. Rabe, John R. Hurst, Mona Bafadhel, Martin Jenkins, Paul Dorinsky, Patrick Darken
5236	**Beclomethasone, formoterol and glycopyrronium: ceiling effect in small airways of COPD patients** Paola Rogliani (Roma (RM), Italy), Josuel Ora, Andrea Girolami, Immacolata Rossi, Mario Cazzola, Luigino Calzetta
5237	**Budesonide/formoterol maintenance and reliever therapy versus fluticasone/salmeterol fixed-dose treatment in patients with COPD** Susan Muiser (Groningen, Netherlands), Bart Luijk, Gert-Jan Braunstahl, Irene Heijink, Helen Reddel, Huib Kerstjens, Maarten Van Den Berge

5238	**Seasonal variation in COPD exacerbation rates: budesonide/glycopyrronium/formoterol metered dose inhaler (BGF MDI) at two ICS dose levels in the ETHOS trial** Gary T. Ferguson (Farmington Hills, United States of America), Klaus F. Rabe, Fernando J. Martinez, Chen Wang, Dave Singh, Jadwiga A. Wedzicha, Roopa Trivedi, Earl St Rose, Shaila Ballal, Julie Mclaren, Patrick Darken, Magnus Aurivillius, Colin Reisner, Paul Dorinsky
5239	**Discussion**

Channel 3 Session 482 16:50 - 17:50

Oral presentation: Airway development in health and disease

Abstracts presented in this session are also available as E-posters from 24 August 2020

Disease(s) : Airway diseases

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

Chairs : Rory Morty (Bad Nauheim, Germany), Chair to be confirmed

5240	**Introduction**
5241	**Maternal and perinatal obesity arrests alveolarization and reduces alveolar progenitor cells in offspring** Jaco Selle (Köln, Germany), Katharina Dinger, Hanan Kesler, Theodoros Georgomanolis, Christina Vohlen, Rebecca Wilke, Jörg Dötsch, Miguel A. Alejandre Alcazar
5242	**Single cell RNA analysis of cellular niche in normal and impaired late lung development** Ivana Mizikova (Ottawa, Canada), Maria Hurskainen, David Cook, Chanéle Cyr-Depauw, Flore Lesage, Noora Andresson, Emmi Helle, Laurent Renesme, Robert Jankov, Markku Heikinheimo, Barbara Vanderhyden, Bernard Thèbaud
5243	**Loss of IL-6 promotes alveolar progenitor cells and lung growth in newborn mice exposed to mechanical ventilation** Jasmine Mohr (Köln, Germany), Hanan Kesler, Dharmesh Hirani, Margarete Odenthal, Jörg Dötsch, Miguel A. Alejandre Alcazar
5244	**NOVEL KLF4-FOXO1 INTERACTOME IN LUNG FIBROBLASTS:REGULATOR OF MYOFIBROBLASTS IN HYPEROXIA-INDUCED LUNG INJURY** Dharmesh Hirani (Köln, Germany), Manuel Koch, Jasmine Mohr, Christina Vohlen, Sreenath Nayakanti, Christina Grimm, Michal-Ruth Schweiger, Theodoros Georgomanolis, Soni Pullamsetti, Jörg Dötsch, Miguel A. Alejandre Alcazar
5245	**Fetal weight is inversely correlated with airway smooth muscle thickness after hypoxia in mice** Kimberley Wang (Southern River, Australia), Peter Noble
5246	**Urinary metabolomics identifies molecular signatures associated with bronchopulmonary dysplasia (BPD) and birth-term** Craig Wheelock (Stockholm, Sweden), Isabel Meister, Cristina Gomez, Romanas Chaleckis, Pei Zhang, Marika Ström, Petra Um-Bergström, Eva Broström, Erik Melen, Magnus Sköld, Åsa Wheelock, . The Lunapre Study
5247	**Analysis of gene-gene interactions in Buryats adolescents with asthma** Bairma Batozhargalova (Moscow, Russian Federation), Yuri Mizernitskiy, Nika Petrova, Rena Zinchenko
5248	**Respiratory outcomes pre and post nusinersen in children with spinal muscular atrophy (SMA) in a tertiary UK paediatric respiratory and neurology centre** Mihaela Diaconu (Sheffield (South Yorkshire), United Kingdom), Chukwudumebi Duru, Kelechi Ugonna, Hemant Kulkarni, Min Ong, Kay White
5249	**Candidate genes predisposing to the development of asthma in Buryat adolescents** Bairma Batozhargalova (Moscow, Russian Federation), Yuri Mizernitskiy, Nika Petrova, Rena Zinchenko
5250	**Discussion**

Channel 4 Session 483 16:50 - 17:50

Oral presentation: Possible scenarios in the challenging future of rare diffuse parenchymal lung diseases

Abstracts presented in this session are also available as E-posters from 24 August 2020

Disease(s) : Interstitial lung diseases

Method(s) : General respiratory patient care Cell and molecular biology Epidemiology Respiratory intensive care Surgery Transplantation

Chairs : Francesco Bonella (Düsseldorf, Germany), Raphaël Borie (Paris, France)

5251	**Introduction**

5252	**The long-term outcome of adult pulmonary Langerhans cell histiocytosis: a national registry-based prospective cohort study** Amira Benattia (Paris (Île-de-France), France), Amira Benattia, Emmanuelle Bugnet, Anouk Walter-Petrich, Gwenaël Lorillon, Sylvie Chevret, Abdellatif Tazi	
5253	**Bronchoalveolar lavage cytokine profile in patients with Pulmonary Langerhans Cell Histiocytosis differs from other interstitial lung diseases** Diego Castillo Villegas (Barcelona, Spain), Diego Castillo Villegas, Silvia Barril Farre, Paloma Millan Billi, Oriol Sibila Vidal, Alfonso Luque, Paloma Acebo, Sonsoles Hortelano Blanco	
5254	**Interstitial lung diseases associated with mutations of poly(A)-specific ribonuclease: a multicentric retrospective cohort study** Quentin Philippot (Paris, France), Caroline Kannengiesser, Ibrahima Ba, Anne Gondouin, Jean-Marc Naccache, Martine Reynaud-Gobert, Yurdagul Uzunhan, Benjamin Bondue, Dominique Israel Biet, Effrosyne Manali, Spyros Papiris, Lidwine Wemeau, Sandrine Hirschi, Hervé Mal, Hilario Nunes, Frédéric Schlemmer, Matthieu Rigaud, Vincent Cottin, Bruno Crestani, Raphaël Borie	
5255	**Increase in post-transplant survival and quality of life in pulmonary fibrosis with and without telomere dysfunction** Lurdes Planas Cerezales (Hospitalet de Llobregat (Barcelona), Spain), Elena G Arias-Salgado, Cristina Berastegui Garcia , Ana Montes Worboys , Rafaela Gonzalez Montelongo, Jose M Lorenzo Salazar , Vanesa Vicens-Zygmunt, Marta Garcia Moyano , Jordi Dorca , Carlos Flores, Rosario Perona , Antonio Román, Maria Molina-Molina	
5256	**Acute exacerbation in combined pulmonary fibrosis and emphysema (CPFE): what special features?** Hana Mrassi (Tunis, Tunisia), Imen Bachouch, Nidhal Belloumi, Fatma Chermiti, Soraya Fenniche	
5257	**Assessment of fibrosis in lung biopsies from the European childhood interstitial lung disease (chILD) registry** Matthias Griese (München, Germany), Elias Seidl, Katrin Knoflach, Julia Ley-Zaporozhan, Birgit Kammer, Ingrid Krueger-Stollfuss, Simone Reu-Hofer, Nicolaus Schwerk, Julia Carlens, Martin Wetzke, Nagehan Emiralioglu, Nural Kiper, Florian Stehling, Joanna Lange, Katarzyna Krenke	
5258	**Discussion**	

Studio Madrid — Session 484 — 16:50 - 17:50

State of the art session: Respiratory critical care

Diagnostic strategies in acute respiratory failure in the ICU

Aims : To describe the diagnostic approach and differential diagnosis of critically ill patients with acute respiratory failure; and to describe the indications and contraindications for invasive diagnostic techniques in these patients.

Disease(s) : Interstitial lung diseases | Respiratory critical care | Respiratory infections

Method(s) : Respiratory intensive care

Tag(s) : Clinical

Target audience : Adult pulmonologist/Clinician, Nurse, Respiratory critical care physician, Patient, Physiologist, Radiologist, Scientist (basic, translational), Respiratory therapist

Chairs : Anita Simonds (London, United Kingdom), Thierry Troosters (Leuven, Belgium)

16:50	**Introduction**	5259
16:55	**The role of computed tomography scanning in the differential diagnosis of acute respiratory failure in ventilated patients** Mathias Prokop (Nijmegen, Netherlands)	5260
17:05	**Role of BAL / lung biopsy in the diagnosis of acute respiratory failure in intensive care unit patients** Venerino Poletti (Forlì, Italy)	5261
17:15	**The future of pulmonary diagnostics in intensive care unit patients** Lieuwe D.J. Bos (Amsterdam, Netherlands)	5262
17:35	**Discussion and Q&A**	5263

Studio Milan — Session 485 — 16:50 - 17:50

Hot topics: Air pollution and COVID-19: what we know, what we need to know

Research needs regarding interactions and susceptibility to SARS-CoV-2

Aims : This symposium will present the latest evidence on the potential interaction between exposure to air pollution and COVID-19 risk. It will discuss the research needs in air pollution epidemiology in connection with the pandemic and evaluate the possibilities to use the lockdown as a tool for accountability research, that is use this global 'natural experiment' to evaluate the impact of reduced air pollution levels on health. Finally, the medium- to long-term steps to prevent an anti-environmental backlash in the aftermath of the COVID-19 pandemic will be debated.

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

Method(s) : Epidemiology | Public health

Tag(s) : Clinical, Basic science, Translational

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

Chairs : Sofia Belo Ravara (Covilhã, Portugal), Jørgen Vestbo (Manchester (Greater Manchester), United Kingdom)

16:50	**Introduction**	**5264**
17:00	**Is COVID-19 mortality related to long-term air pollution exposure?** Sara De Matteis (London, United Kingdom)	**5265**
17:10	**Short-term interactions of SARS-CoV-2 with the environment (temp, humidity, air pollution, pollen, etc.) – what do we know, what do we need to know?**	**5266**
17:20	**Can the Corona lockdown be used for accountability research? Chances, challenges and caveats** Barbara Hoffmann (Düsseldorf, Germany)	**5267**
17:30	**Research needs and opportunities on air pollution and COVID-19** Francesco Forastiere (Roma (RM), Italy)	**5268**
17:40	**Discussion and Q&A**	**5269**

Studio Paris — Session 486 — 16:50 - 17:50

Symposium: The future of bronchiectasis management

Aims : To describe the effects of early life, including demographic, inflammatory and genetic factors, on the development of bronchiectasis; to review recent randomised studies and observational data that are leading to improvements in the management of bronchiectasis; to describe current options for the management of Pseudomonas aeruginosa pulmonary infections in patients with bronchiectasis; and to describe possible future treatments for bronchiectasis in adults.

Disease(s) : Airway diseases | Respiratory infections

Tag(s) : Clinical

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

Chairs : Eva Polverino (Barcelona, Spain)

16:50	**Introduction**	**5270**
16:55	**Mucus and microbes: why does bronchiectasis develop?** Kathryn Ramsey (Bern, Switzerland)	**5271**
17:05	**State of the art management of bronchiectasis** Anne O'Donnell (Washington, United States of America)	**5272**
17:15	**Management of chronic airway infection in bronchiectasis** James D. Chalmers (Dundee (Angus), United Kingdom)	**5273**
17:25	**Where do we go from here? Future directions, endpoints and approaches** Francesco Blasi (Milan, Italy)	**5274**
17:35	**Discussion and Q&A**	**5275**

Channel 2 — Session 487 — 18:00 - 19:00

Oral presentation: Recent innovations regarding the mechanisms and treatments of asthma

Abstracts presented in this session are also available as E-posters from 24 August 2020

Disease(s) : Airway diseases

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

Chairs : Marco Idzko (Wien, Austria)

5276	**Introduction**
5277	
5278	**Plasma protein profiles as markers of asthma severity and exposure to oral corticosteroids in U-BIOPRED and BIOAIR** Maria Mikus (Stockholm, Sweden), Johan Kolmert, Anna James, Lars I Andersson, Jörgen Östling, Cristina Gomez, Richard Knowles, Barbro Dahlén, Ratko Djukanovic, Ian M Adcock, Peter Nilsson, Sven-Erik Dahlén
5279	**Anti-IL-5 therapy and the airway microbiome in asthma.** Ashley Sullivan (Cork, Ireland), Chris Ward, Deborah Casey, Deirdre Flynn, Eoin B. Hunt, Joseph A. Eustace, Paul M. O' Byrne, Barry J. Plant, John A. Macsharry, Desmond M. Murphy
5280	**Continued long-term mepolizumab in severe eosinophilic asthma protects from asthma worsening versus stopping mepolizumab: COMET trial** Neil Martin (Leicester, United Kingdom), Elisabeth H.D. Bel, Wendy C Moore, Oliver Kornmann, Claude Poirier, Nirihiro Kaneko, Steven G Smith, Neil Martin, Martyn J Gilson, Robert G Price, Eric S Bradford, Marc Humbert
5281	**Clinical trial: Impact of Probiotical® on asthma control and inflammation** Catherine Moermans (Liège, Belgium), Sophie Graff, Laurie Medard, Florence Schleich, Virginie Paulus, Françoise Guissard, Monique Henket, Renaud Louis
5282	**Effect of dupilumab on oral corticosteroid use in severe asthma patients with improving lung function** Jorge F. Maspero (Buenos Aires, Argentina), David M.G. Halpin, David Jackson, Nicola A. Hanania, Mario Castro, Christian Domingo, Nadia Daizadeh, Michel Djandji, Paul Rowe, Yamo Deniz
5283	**CD6-ALCAM Pathway is Elevated in Patients with Severe Asthma** Manali Mukherjee (Hamilton (ON), Canada), Nan Zhao, Katherine Radford, Sole Gatto, Adam Pavlicek, Jeanette Ampudia, Cherie Ng, Stephen Connelly, Param Nair
5284	**The impact of anti-IgE treatment on the airway microbiome in asthma.** Ashley Sullivan (Cork, Ireland), Chris Ward, Deborah Casey, Deirdre Flynn, Eoin B. Hunt, Joseph A. Eustace , Paul M. O' Byrne, Barry J. Plant, John A. Macsharry, Desmond M. Murphy
5285	**Discussion**

Channel 3 Session 488 18:00 - 19:00

Oral presentation: Tip the hat to paediatric bronchology

Abstracts presented in this session are also available as E-posters from 24 August 2020

Disease(s) : Interstitial lung diseases

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

Chairs : Deborah Snijders (Ponzano Veneto (TV), Italy), Raffaella Nenna (Rome, Italy)

5286	**Introduction**
5287	**Lung ultrasound for the diagnosis of community-acquired pneumonia in children: comparison with chest X-ray.** Silvia Bloise (Roma (RM), Italy), Domenico P La Regina, Elio Iovine, Cristina Latini, Ambra Nicolai, Luigi Matera, Greta Di Mattia, Laura Petrarca, Raffaella Nenna, Antonella Frassanito, Enrica Mancino, Fabio Midulla
5288	**Lung ultrasound in children with interstitial lung disease: a pilot study.** Celine Delestrain (Creteil, France), Guillaume Thouvenin , Nicolas Richard, Fouad Madhi, Laura Berdah, Houmam El Jurdi, Annick Clement, Ralph Epaud, Harriet Corvol, Nadia Nathan
5289	**The use of combined endoscopy in a UK paediatric aerodigestive program** Grace Mussell (Sheffield, United Kingdom), Gary Wall, Ravi Thevasagayam, David Campbell, Sonal Kansra
5290	**Idiopathic Pulmonary Haemosiderosis; Factors That Effect Prognosis** Mina Gharibzadeh Hizal (Ankara, Turkey), Sanem Eryilmaz Polat, Tugba Ramasli Gursoy, Dilber Ademhan Tural, Beste Ozesen, Nagehan Emiralioglu, Sevgi Pekcan, Ayse Tana Aslan, Ebru Yalcin, Deniz Dogru, Ugur Ozcelik, Nural Kiper
5291	**Lung ultrasound (LUS) in bronchiolitis** Domenico Paolo La Regina (Roma, Italy), Silvia Bloise, Raffaella Nenna, Marco Laudisa, Prisca Polidoro, Antonella Frassanito, Ambra Nicolai, Laura Petrarca, Greta Di Mattia, Luigi Matera, Enrica Mancino, Fabio Midulla

5292	**Multidisciplinary team meetings dedicated to children interstitial lung diseases (chILD) – a 2-years experience** Nadia Nathan (Paris, France), Alice Hadchouel, Maryem Sari Hassoun, Céline Lustremant, Delphine Habouria, Annick Clement, Ralph Epaud, . For The Respirare And Respifil Groups
5293	**Implementation of a gene panel for the genetic diagnosis of primary ciliary dyskinesia** Sandra Rovira Amigo (Barcelona, Spain), Noelia Baz Redon, Núria Camats Tarruella, Mónica Fernández Cancio, Ida Paramonov, Silvia Castillo Corullon, Maria Cols, Araceli Caballero, Carlos Martin De Vicente, Óscar Asensio, Ana Reula, Amparo Escribano, Francisco Dasi, Miguel Armengot Carceller, Eduardo Tizzano, Antonio Moreno Galdó
5294	**Discussion**

Channel 4 — Session 489 — 18:00 - 19:00

Oral presentation: Tuberculosis: part 2

Abstracts presented in this session are also available as E-posters from 24 August 2020

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

Chairs : Cristina Marcela Popa (Bucuresti (Sector 5), Romania), Gunar Günther (Bremgarten bei Bern, Switzerland)

5295	**Introduction**
5296	**The use of the lytic D29 mycobacteriophages for accelerated determination of the drug sensitivity of tuberculosis mycobacteria to first and second-line anti-TB drugs in clinical isolates obtained after initial cultivation** Mikhail Vladimirsky (Moscow, Russian Federation), Marina Lapenkova, Yulia Alyapkina, Irina Vasilyeva, Greta Arustamova, Pavel Philippov
5297	**Genomic factors associated with katG-S315T in Mycobacterium tuberculosis clinical isolates in Vietnam** Naoto Keicho (Tokyo, Japan), Nguyen Thi Le Hang, Minako Hijikata, Shinji Maeda, Akiko Miyabayashi, Shintaro Seto, Nguyen Thi Kieu Diem, Nguyen Thi Thanh Yen, Pham Huu Thuong, Hoang Van Huan, Nguyen Phuong Hoang, Satoshi Mitarai, Seiya Kato
5298	**Preliminary evaluation of serial interferon-gamma releasing assay testing in NSCLC patients treated with immune checkpoint inhibitors** Kohei Fujita (Kyoto, Japan), Yuki Yamamoto, Osamu Kanai, Misato Okamura, Koichi Nakatani, Tadashi Mio
5299	**Ready steady spit: A community based screening for lung tuberculosis amongst high-risk groups in Aalborg, Denmark** Shakil Ahmad Shakar (Hjørring, Denmark), Nina Breinholt Stærke, Mette Christensen, Ulla Møller Weinreich
5300	**Mortality and associated factors among drug-resistant tuberculosis patients in Portugal, 2000-2016** Olena Oliveira (Porto, Portugal), Rita Gaio, Teresa Rito, Margarida Correia-Neves, Raquel Duarte
5301	**Role of N-acetylcysteine(NAC) in preventing development of anti tuberculosis therapy(ATT) induced liver injury in pulmonary tuberculosis(PTB) patients, a simple randomized single blind clinical trial** Sadaf Ahmed (Karachi, Pakistan), Nisar Ahmed Rao
5302	**IP-10 decreases during antituberculous treatment in children with active tuberculosis.** Agnieszka Strzelak (Warszawa, Poland), Anna Komorowska-Piotrowska, Agnieszka Borowa, Maria Krasińska, Wojciech Feleszko, Marek Kulus
5303	**Discussion**

Studio Madrid — Session 490 — 18:00 - 19:00

Symposium: Managing frailty in patients with acute or chronic lung disorders

Aims : To define frailty and its association with various chronic and acute lung disease; to determine the biology underlying frailty in humans and animals; to describe a clear rationale for early mobilisation/rehabilitation in frail patients; and to evaluate rehabilitative interventions to reverse frailty.

Disease(s) : Airway diseases

Method(s) : Physiology Pulmonary rehabilitation Respiratory intensive care

Tag(s) : Clinical

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

Chairs : Anita Simonds (London, United Kingdom), Thierry Troosters (Leuven, Belgium)

18:00	**Introduction**	**5304**

18:05	**Diagnosing management and measures of frailty** Matteo Cesari (Milan, Italy)	**5305**
18:14	**Skeletal muscle stem cells and capillaries; important neighbours in muscle tissue of COPD patients** Tim Snijders (Maastricht, Netherlands)	**5306**
18:23	**Frailty during and after hospitalisation** Margaret Herridge (Toronto (ON), Canada)	**5307**
18:32	**Frailty in chronic lung disorders** Lies Lahousse (Ghent, Belgium)	**5308**
18:41	**Rehabilitative interventions to reverse frailty** Matthew Maddocks (London, United Kingdom)	**5309**
18:50	**Discussion and Q&A**	**5310**

Studio Milan Session 491 18:00 - 19:00

Symposium: E-cigarette or Vaping, product use Associated Lung Injury (EVALI)

Aims : To describe the clinical presentation and radiological findings associated with EVALI; to outline the management and outcome of cases with EVALI; to characterize the pathological findings associated with EVALI; to illustrate different heat-not-burn products, their differences and similarities; to estimate the effect of e-cigarettes as a smoking cessation aid; to debate the benefits and drawbacks of e-cigarette strategy as a smoking cessation aid.

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

Tag(s) : Clinical

Target audience : Adult pulmonologist/Clinician, Clinical researcher, Medical Student, Respiratory critical care physician, Pathologist, Respiratory physiotherapist, Respiratory therapist

Chairs : Jørgen Vestbo (Manchester (Greater Manchester), United Kingdom), Sofia Belo Ravara (Covilhã, Portugal)

18:00	**Introduction**	**5311**
18:05	**Heated tobacco products - differences and uncertainties** Reto Auer (Bern, Switzerland)	**5312**
18:15	**E-cigarettes and smoking cessation: the evidence or the non-evidence** Charlotta Pisinger (Frederiksberg, Denmark)	**5313**
18:25	**Clinical aspects of lung injury associated with e-cigarettes or vaping** Mikhail Kazachkov (New York, United States of America)	**5314**
18:35	**Pathology of Vaping-Associated Lung Injury** Yasmeen Butt (Phoenix, United States of America)	**5315**
18:45	**Discussion and Q&A**	**5316**

Studio Vienna Session 493 18:00 - 19:00

Lungs on fire: Lung cancer?

Aims : To describe real-life clinical cases during the innovative interactive session, including the presentation of cases that have various levels of difficulty and often necessitate a differential diagnosis. This session will be led by a discussant, who will present the cases to a panel of experts and the audience. The discussant will encourage discussion among the panel of experts, who are encountering these cases for the first time. To further determine diagnostic and therapeutic options for these patients, the discussant will also invite audience participation in the reflexion and discussion of these cases.

Disease(s) : Thoracic oncology | Respiratory infections | Interstitial lung diseases

Tag(s) : Clinical

Target audience : Thoracic oncologist, Thoracic surgeon, Respiratory critical care physician, Clinical researcher, General practitioner, Adult pulmonologist/Clinician, Paediatrician, Radiologist, Nurse, Pathologist

Chairs : Joanna Chorostowska-Wynimko (Warsaw, Poland), Gilbert Massard (Esch Sur Alzette, Luxembourg), Torsten Gerriet Blum (Berlin, Germany)

Discussants : Sam Janes (London, United Kingdom)

	Case 1 - Author: Kayan Chiang (Hong Kong)	**5322**
	Discussion and Q&A	**5323**

	Case 2 - Author: Emily Harvey (United Kingdom)	**5324**
	Discussion and Q&A	**5325**
	Case 3 - Author: Michael Jan Engelhardt (Germany)	**5326**
	Discussion and Q&A	**5327**
	Case 4 - Author: Ana Luisa Fernandes (Portugal)	**5328**
	Discussion and Q&A	**5329**
18:00	**Introduction**	**5330**
18:02	**Presentation of cases by the session facilitator** Sam Janes (London, United Kingdom)	**5331**

Channel 1 Session 494 18:10 - 19:00

Language session: Spanish/Portuguese programme 2020: Part II
A joint ERS/ALAT/ASSOBRAFIR/SBPT/SEPAR/SPP session

Aims : To describe the impact of environmental pollution on patients with airway diseases.

Disease(s) : Airway diseases

Tag(s) : Basic science

Chairs : José Rogelio Perez-Padilla (México D.F, Mexico), Jocimar Avelar Martins (Ponte Nova (MG), Brazil)

18:10	**Introduction**	**5332**
18:15	**Household pollution and obstructive diseases: asthma and COPD** Jose Miguel Chatkin (Porto Alegre (RS), Brazil)	**5333**
18:25	**Household pollution and lung cancer: beyond tobacco** María Torres-Durán (Vigo (Pontevedra), Spain)	**5334**
18:35	**Physical activity in polluted areas** Fabio Pitta (Londrina, Brazil)	**5335**
18:45	**Discussion and Q&A**	**5336**

19:15-20:15
INDUSTRY EVENING SYMPOSIUM SEE PAGE 1

20:30-21:30
INDUSTRY EVENING SYMPOSIUM SEE PAGE 1

INDUSTRY SPONSORED SESSIONS

Channel 2. Session 262 08:00 - 09:00

Industry early morning symposium: Treatable Traits: From discussion to action
GlaxoSmithKline

Organised by GlaxoSmithKline

Chairs : Neil C. Barnes (London, United Kingdom), David Leather (London, United Kingdom)

08:00	**Welcome and introduction** Neil C. Barnes (London, United Kingdom), David Leather (London, United Kingdom)	**3655**
08:08	**Treatable Traits: Time for change** Alvar Agusti Garcia-Navarro (Barcelona, Spain)	**3656**
08:22	**Treatable Traits: Established and emerging** Ian Douglas Pavord (Oxford (Oxfordshire), United Kingdom)	**3657**
08:36	**Treatable Traits: Live it, breathe it** Vanessa M. McDonald (Newcastle (NSW), Australia)	**3658**
08:50	**Panel Q&A, summary and close** Neil C. Barnes (London, United Kingdom), David Leather (London, United Kingdom)	**3659**

Channel 1. Session 263 08:15 - 09:15

Industry early morning symposium: Relegating OCS to last resort: creating a paradigm shift in severe asthma management
AstraZeneca

Organised by AstraZeneca

Chairs : John Upham (Brisbane (QLD), Australia)

08:15	**Welcome and objectives** John Upham (Brisbane (QLD), Australia)	**3660**
08:20	**Inappropriate OCS use in severe asthma: the clinical and economic burden** David Price (Singapore, Singapore)	**3661**
08:30	**OCS and adrenal insufficiency: an endocrinologist perspective** Mark Gurnell (Cambridge, United Kingdom)	**3662**
08:40	**Identifying patients with severe asthma and adopting OCS stewardship** David J Jackson (London, United Kingdom)	**3663**
08:55	**Panel discussion: supporting OCS stewardship by driving behaviour change in severe asthma** John Upham (Brisbane (QLD), Australia), David Price (Singapore, Singapore), Mark Gurnell (Cambridge, United Kingdom), David J Jackson (London, United Kingdom)	**3664**
09:10	**Meeting close** John Upham (Brisbane (QLD), Australia)	**3665**
09:15	**Breakout: interactive expert Q&A session on relegating OCS to last resort in severe asthma** John Upham (Brisbane (QLD), Australia), David Price (Singapore, Singapore), Mark Gurnell (Cambridge, United Kingdom), David J Jackson (London, United Kingdom)	**3666**

Channel 3. Session 264 08:15 - 09:15

Industry early morning symposium: www.RethinkNTM – Who, Why and When?
Insmed Ireland Ltd.

Organised by Insmed Ireland Ltd.

Chairs : Gernot G.U. Rohde (Frankfurt am Main, Germany)

08:15	**Introduction** Gernot G.U. Rohde (Frankfurt am Main, Germany)	**3667**
08:20	**Who is the NTM patient?** Stefano Aliberti (Milano (MI), Italy)	**3668**

08:30	**NTM: Why is effective therapy so challenging?** Gernot G.U. Rohde (Frankfurt am Main, Germany)	**3669**
08:45	**NTM: New guidelines on when and how to treat Mycobacterium avium complex (MAC)** Christoph Lange (Borstel, Germany)	**3670**
09:00	**Q&A from the audience**	**3671**
09:10	**Summary and close** Gernot G.U. Rohde (Frankfurt am Main, Germany)	**3672**
13:15	**Rethink NTM - insights from NTM clinical experts (lunchtime breakout session)** **Follow up from the early morning symposium** Gernot G.U. Rohde (Frankfurt am Main, Germany), Michael Loebinger (London, United Kingdom)	**3673**

Channel 4. Session 265 08:15 - 09:15

Industry early morning symposium: Management of the endoscopy suite under new parameter – Your Freedom of Choice

PENTAX Medical

Organised by PENTAX Medical

Chairs : Rocco Trisolini (Bologna (BO), Italy), Erik H.F.M. van der Heijden (Nijmegen, Netherlands)

08:15	**Infection control in endoscopy suite – Opinion exchange** Rocco Trisolini (Bologna (BO), Italy), Erik H.F.M. van der Heijden (Nijmegen, Netherlands)	**3674**
08:40	**Single-use and reusable bronchoscope – Opinion exchange** Rocco Trisolini (Bologna (BO), Italy), Erik H.F.M. van der Heijden (Nijmegen, Netherlands)	**3675**
09:00	**Single-use bronchoscopes: PENTAX Medical developing the Freedom of Choice** Harald Huber (, Germany)	**3676**

Channel 5. Session 266 08:15 - 09:15

Industry early morning symposium: CRP point-of-care testing – in the time of covid-19 and for the reduction of antibiotic prescribing in acutely exacerbated COPD patients

Abbott

Organised by Abbott

Chairs : Jonathan Cooke (, United Kingdom)

08:15	**Welcome and introduction** Jonathan Cooke (, United Kingdom)	**3677**
08:30	**Antibiotics for Acute Exacerbations of COPD: PACE Trial Results** Nicholas Francis (, United Kingdom)	**3678**
08:45	**Severity assessment and outcome prediction in COVID-19 patients** Ivan Gentile (, Italy)	**3679**
09:00	**Panel Discussion and Questions and Answers**	**3680**

No Room Session 292 13:15 - 14:15

Organised by Aerogen

Chairs : Antonio Artigas (Sabadell (Barcelona), Spain)

13:20	**Aerosol drug delivery to the ventilated patient** Julien Pottecher (Haguenau, France)	**3883**
13:45	**Aerosol drug delivery to the non-ventilated patient** Sundeep Kaul (London, United Kingdom)	**3884**
13:45		**3885**
14:00		**3886**

No Room — Session 293 — 13:15 - 14:15

Industry Device Mini Symposia: Understanding tailored telemonitoring for the efficient management of home-ventilated patients

Organised by ResMed

Chairs : OLIVIER SAGNARD (Saint Priest, France)

13:15		**3887**
13:30		**3888**
13:45		**3889**
14:00		**3890**

No Room — Session 294 — 13:15 - 14:15

Industry Device Mini Symposia: Meet the experts for case-based discussion for diagnostic bronchoscopy

Organised by Olympus Europa SE & Co. KG

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

13:15	**Case-based discussion: Peripheral Bronchoscopy** Vandana Jeebun (billingham, United Kingdom)	**3891**
13:35	**Case-based discussion: EBUS-TBNA** Pallav L. Shah (London, United Kingdom)	**3892**
13:55	**Case-based discussion: EVIS X1 Diagnostic Bronchoscopy** Ralf Eberhardt (Heidelberg, Germany)	**3893**

No Room — Session 295 — 13:15 - 14:15

Industry Device Mini Symposia: Advances in transcutaneous CO2 monitoring in the acute and chronic setting: from science to clinical application

Organised by Sentec AG

Chairs : Wolfram Windisch (Cologne, Germany), João Carlos Winck Fernandes Cruz (Vila Nova de Gaia, Portugal)

13:15	**Introduction and Live Demonstrations** Wolfram Windisch (Cologne, Germany)	**3894**
13:30	**Rationale and scientific background** Wolfram Windisch (Cologne, Germany)	**3895**
13:45	**Indications, practical considerations, and pitfalls** João Carlos Winck Fernandes Cruz (Vila Nova de Gaia, Portugal)	**3896**
14:00	**Questions from audience to faculty**	**3897**

No Room — Session 296 — 13:15 - 14:15

Industry Device Mini Symposia: Importance of early wheeze detection in young children to minimize asthma exacerbations

Organised by OMRON Healthcare Europe B.V.

Chairs : Kostas Priftis (Haidari (Athens), Greece)

13:15	**What is a wheeze and why is it important to confirm it is a wheezing sound?** Kostas Priftis (Haidari (Athens), Greece)	**3898**
13:35	**The struggle of pediatrians and parents with a wheezing child** Bülent Taner Karadag (Istanbul, Turkey)	**3899**
13:50	**Introducing WheezeScan: a new tool to help parents confirm a wheeze** Willem van Aalderen (Amsterdam, Netherlands)	**3900**

14:05	**Q&A** Willem van Aalderen (Amsterdam, Netherlands)	**3901**

Channel 1. Session 297 13:15 - 14:15

Industry lunchtime symposium: SABA status quo: state of emergency from policy to patient

AstraZeneca

Organised by AstraZeneca

Chairs : Paul O'Byrne (Hamilton (ON), Canada)

13:15	**Chair's welcome** Paul O'Byrne (Hamilton (ON), Canada)	**3902**
13:18	**SABA: a never-ending story** Paul O'Byrne (Hamilton (ON), Canada)	**3903**
13:25	**State of emergency: real-world evidence** Jennifer Quint (Wimbledon, United Kingdom)	**3904**
13:40	**Overcoming the SABA status quo: a SABA-free department** Luis Nannini (Rosario (Pcia. Santa Fe), Argentina)	**3905**
13:50	**Activating the reliever reliant patient to overcome SABA reliance** Tonya Winders (Hendersonville, United States of America)	**3906**
14:00	**From policy to patient: a new chapter** Paul O'Byrne (Hamilton (ON), Canada)	**3907**
14:05	**Audience Q&A** Paul O'Byrne (Hamilton (ON), Canada)	**3908**
14:15	**Breakout #1: how to implement SABA-free care** Paul O'Byrne (Hamilton (ON), Canada), Luis Nannini (Rosario (Pcia. Santa Fe), Argentina)	**3909**
14:15	**Breakout #2: helping patients identify SABA over-reliance** Jennifer Quint (Wimbledon, United Kingdom), Tonya Winders (Hendersonville, United States of America)	**3910**

Channel 2. Session 298 13:15 - 14:15

Industry lunchtime symposium: The Treatment of Severe Respiratory Disorders in Challenging Times

CSL Behring

Organised by CSL Behring

Chairs : Timm Greulich (Marburg, Germany), Tobias Welte (Hannover, Germany), Marco Idzko (Wien, Austria)

13:15	**Welcome and introduction**	**3911**
13:17	**Challenges of Treating Lung Disease Caused by COVID-19** Tobias Welte (Hannover, Germany), Michael Larbig (Bern, Switzerland)	**3912**
13:32	**Treatment of Alpha 1 Antitrypsin Deficiency in Times of COVID-19** Timm Greulich (Marburg, Germany), Maria Campos Miranda Duarte Sucena (Porto, Portugal), Felix J.F. Herth (Heidelberg, Germany)	**3913**
13:45	**The Impact of Alpha 1 Antitrypsin Deficiency Therapy on Mortality** Timm Greulich (Marburg, Germany), Alice Turner (Birmingham (West Midlands), United Kingdom), Robert A. Sandhaus (Bow Mar, United States of America)	**3914**
14:00	**Development of Specialised Treatments for Severe Respiratory Conditions** Marco Idzko (Wien, Austria), Dave Singh (Manchester, United Kingdom), James D. Chalmers (Dundee (Angus), United Kingdom)	**3915**
14:13	**Summary and closing remarks**	**3916**

Channel 3. Session 299 13:15 - 14:15

Industry lunchtime symposium: Time for change? Pioneering in IPF management

Galapagos NV

Organised by Galapagos NV

Chairs : Toby Maher (St. Albans, United Kingdom)

13:15	**Time for change? Opening address** Toby Maher (St. Albans, United Kingdom)	**3917**
13:20	**Novel imaging modalities in interstitial lung disease** Paul Ford (Hurstpierpoint (W. Sussex), United Kingdom), Muhunthan Thillai (Cambridge (Cambridgeshire), United Kingdom)	**3918**
13:35	**Maintaining the momentum: Ensuring optimal management** **6MWT in IPF** Lisa Lancaster (Nashville, United States of America)	**3919**
13:50	**ISABELA: A landmark study in IPF** Toby Maher (St. Albans, United Kingdom)	**3920**
14:05	**Q&A and closing remarks** Toby Maher (St. Albans, United Kingdom), Lisa Lancaster (Nashville, United States of America), Paul Ford (Hurstpierpoint (W. Sussex), United Kingdom), Muhunthan Thillai (Cambridge (Cambridgeshire), United Kingdom)	**3921**

Channel 5. Session 300 13:15 - 14:15

Industry lunchtime symposium: Application of home ventilation in the management of Obesity Hypoventilation in the post COVID era

Philips

Organised by Philips

Chairs : Jean-François Muir (Rouen, France), Nicholas Hart (London, United Kingdom)

13:15	**New ways of thinking to home NIV in a post COVID era** Nicholas Hart (London, United Kingdom)	**3922**
13:35	**Efficacy of an Automated Non-Invasive Ventilation in patients with Obesity Hypoventilation Syndrome** Maxime Patout (Mont-Saint Aignan, France)	**3923**
13:55	**Use of an Automated Non-Invasive Ventilation approach in obese patients with chronic respiratory failure : Learnings from the OPIP trial** Patrick B. Murphy (Oxted (Surrey), United Kingdom)	**3924**

Channel 1. Session 337 19:15 - 20:15

Industry evening symposium: Early prevention: protecting patients from the consequences of COPD exacerbations

AstraZeneca

Organised by AstraZeneca

Chairs : Fernando J. Martinez (New York, United States of America)

19:15	**Welcome, introduction and opening remarks** Fernando J. Martinez (New York, United States of America)	**4217**
19:20	**A journey through the past: the burden associated with the 'step-wise' approach to COPD management** John R Hurst (London, United Kingdom)	**4218**
19:35	**A 'state-of-the-art' approach: benefits of fixed-dose combination triple therapies** Fernando J. Martinez (New York, United States of America)	**4219**
19:55	**Looking to the future: pioneering a proactive approach to optimise management of our patients with COPD** Mona Bafadhel (Oxford (Oxfordshire), United Kingdom)	**4220**

20:07	**Audience Q&A and concluding remarks** Fernando J. Martinez (New York, United States of America)	**4221**
20:15	**Breakout: interactive Q&A session** Fernando J. Martinez (New York, United States of America), John R Hurst (London, United Kingdom), Mona Bafadhel (Oxford (Oxfordshire), United Kingdom)	**4222**

Channel 2. Session 338 19:15 - 20:15

Industry evening symposium: Course and Management of Fibrosing ILDs: What Do the Data Tell Us?

Boehringer Ingelheim International GmbH

Organised by Boehringer Ingelheim International GmbH

Chairs : Luca Richeldi (Roma, Italy)

19:15	**Welcome and introduction** Luca Richeldi (Roma, Italy)	**4223**
19:25	**The natural history of fibrosing ILDs** Marlies S. Wijsenbeek (Rotterdam, Netherlands)	**4224**
19:35	**Fibrosing ILDs: splitting and lumping** Elisabetta Renzoni (London, United Kingdom)	**4225**
19:45	**Key insights from the INBUILD trial** Kevin R. Flaherty (Pinckney, United States of America)	**4226**
20:00	**Panel discussion** Luca Richeldi (Roma, Italy)	**4227**

Channel 3. Session 339 19:15 - 20:15

Industry evening symposium: Mepolizumab: Precision medicine in eosinophilic inflammation

GlaxoSmithKline

Organised by GlaxoSmithKline

Chairs : Peter H. Howarth (Southampton (Hampshire), United Kingdom)

19:15	**Welcome address** Peter H. Howarth (Southampton (Hampshire), United Kingdom)	**4228**
19:20	**Regulating eosinophils through the IL-5 pathway** Arnaud Bourdin (Montpellier Cedex 5, France)	**4229**
19:30	**Targeting eosinophils with mepolizumab for severe eosinophilic asthma** Ian Douglas Pavord (Oxford (Oxfordshire), United Kingdom)	**4230**
19:45	**A precise approach to addressing eosinophilic inflammation** David J Jackson (London, United Kingdom), Peter H. Howarth (Southampton (Hampshire), United Kingdom), Arnaud Bourdin (Montpellier Cedex 5, France)	**4231**
20:05	**Closing remarks and thank you** Peter H. Howarth (Southampton (Hampshire), United Kingdom)	**4232**
20:10	**Q&A** Peter H. Howarth (Southampton (Hampshire), United Kingdom)	**4233**

Channel 4. Session 340 19:15 - 20:15

Industry evening symposium: Maximising the benefits of inhaled therapies in asthma

Novartis Pharma AG

Organised by Novartis Pharma AG

Chairs : Christine Jenkins (Mc Mahons Point (NSW), Australia)

19:15	**Welcome and introduction** Christine Jenkins (Mc Mahons Point (NSW), Australia)	**4234**

19:20	**Uncontrolled asthma in the 21st century: where are the issues?** Kenneth R. Chapman (Toronto (ON), Canada)	**4235**
19:35	**Inhaled therapies: how can we maximise their potential? Making the most of every breath for 24 hours** Richard Van Zyl-Smit (Cape Town, South Africa)	**4236**
19:50	**Inhaled therapies: how can we maximise their potential? Making the most of the day with asthma** Christine Jenkins (Mc Mahons Point (NSW), Australia)	**4237**
20:10	**Panel discussion, summary and close** Christine Jenkins (Mc Mahons Point (NSW), Australia)	**4238**

Channel 5. Session 341 19:15 - 20:15

Industry evening symposium: Dupilumab in Severe Asthma: Review of New Evidence and One Year of Clinical Experience in Europe

Sanofi Genzyme and Regeneron

Organised by Sanofi Genzyme and Regeneron

Chairs : Arnaud Bourdin (Montpellier Cedex 5, France)

19:15	**Opening Remarks** Hans in 't Veen (Bergschenhoek, Netherlands), Johann Christian Virchow (Rostock, Germany), Arnaud Bourdin (Montpellier Cedex 5, France)	**4239**
19:20	**Dupilumab Evidence in Severe Type 2 Asthma: Analysis of High-dose ICS Study Population** Arnaud Bourdin (Montpellier Cedex 5, France), Johann Christian Virchow (Rostock, Germany)	**4240**
19:35	**Panel Perspectives: Implications for Patient Management** Arnaud Bourdin (Montpellier Cedex 5, France), Johann Christian Virchow (Rostock, Germany), Hans in 't Veen (Bergschenhoek, Netherlands)	**4241**
19:40	**Patient Cases Soon After Approval of Dupilumab for Severe Type 2 Asthma** Hans in 't Veen (Bergschenhoek, Netherlands), Johann Christian Virchow (Rostock, Germany)	**4242**
19:47	**Panel Commentary & Audience Q&A** Arnaud Bourdin (Montpellier Cedex 5, France), Hans in 't Veen (Bergschenhoek, Netherlands), Johann Christian Virchow (Rostock, Germany)	**4243**
19:52	**Patient Case After a Year of Experience with Dupilumab for Severe Type 2 Asthma** Hans in 't Veen (Bergschenhoek, Netherlands)	**4244**
19:59	**Panel Commentary & Audience Q&A** Arnaud Bourdin (Montpellier Cedex 5, France), Hans in 't Veen (Bergschenhoek, Netherlands), Johann Christian Virchow (Rostock, Germany)	**4245**
20:04	**Final Audience Q&A** Arnaud Bourdin (Montpellier Cedex 5, France), Hans in 't Veen (Bergschenhoek, Netherlands), Johann Christian Virchow (Rostock, Germany)	**4246**
20:13	**Closing Remarks** Arnaud Bourdin (Montpellier Cedex 5, France), Hans in 't Veen (Bergschenhoek, Netherlands), Johann Christian Virchow (Rostock, Germany)	**4247**

Channel 6. Session 342 19:15 - 20:15

Industry evening symposium: Successful inhalation therapy in 2020: patients and inhalers in focus

Orion and Menarini

Organised by Orion and Menarini

Chairs : Eric D. Bateman (Cape Town, South Africa)

19:15	**Setting the scene** Eric D. Bateman (Cape Town, South Africa)	**4248**
19:20	**Why do some patients with COPD benefit from inhaled corticosteroids treatment?** Klaus F. Rabe (Kiel, Germany)	**4249**

19:30	**Key features of inhaler-device technology – what to consider and how to make it work for the patients?** Lauri Lehtimäki (Tampere, Finland)	**4250**
19:50	**Trainers and Trainees: how to ensure successful inhalation treatment for patients?** Omar S. Usmani (London, United Kingdom)	**4251**
20:00	**Changing perceptions and improving asthma outcomes: spotlight on MART** Eric D. Bateman (Cape Town, South Africa)	**4252**
20:10	**Summary & meeting close** Eric D. Bateman (Cape Town, South Africa)	**4253**
20:15	**Breakout session: This will be your opportunity to interact with all of our faculty!** Eric D. Bateman (Cape Town, South Africa), Klaus F. Rabe (Kiel, Germany), Lauri Lehtimäki (Tampere, Finland), Omar S. Usmani (London, United Kingdom)	**4254**

Channel 2. Session 343 20:30 - 21:30

Industry evening symposium: Everything you always wanted to know about COPD

Menarini Group

Organised by Menarini Group

Chairs : Bartolome R. Celli Croquer (Boston, United States of America), Alvar Agusti Garcia-Navarro (Barcelona, Spain)

20:30	**Introduction** Bartolome R. Celli Croquer (Boston, United States of America)	**4255**
20:35	**A journey back to early life** Alvar Agusti Garcia-Navarro (Barcelona, Spain)	**4256**
20:50	**Molecules, devices and dosages** Sanjay Sethi (Buffalo, United States of America)	**4257**
21:05	**Peeking into the Future: How has COVID19 impacted this view** Bartolome R. Celli Croquer (Boston, United States of America)	**4258**
21:20	**Conclusions & Take-Home Messages** Alvar Agusti Garcia-Navarro (Barcelona, Spain), Sanjay Sethi (Buffalo, United States of America), Bartolome R. Celli Croquer (Boston, United States of America)	**4259**

Channel 3. Session 344 20:30 - 21:30

Industry evening symposium: Elevate the Standard in Endobronchial Lung Cancer Diagnosis and Staging

Olympus Europa SE & Co. KG

Organised by Olympus Europa SE & Co. KG

Chairs : Felix J.F. Herth (Heidelberg, Germany)

20:30	**"The rise of the nodules" - update and case presentation in interventional Lung Cancer techniques** Felix J.F. Herth (Heidelberg, Germany), Stefano Gasparini (Ancona (AN), Italy)	**4260**
20:45	**Expand your possibilities in EBUS-TBNA - how to get the most out of your EBUS-TBNA service** Stefano Gasparini (Ancona (AN), Italy)	**4261**
21:00	**Bringing bronchoscopy to the next level with the new EVIS X1 Endoscopy Platform** Felix J.F. Herth (Heidelberg, Germany)	**4262**
21:15	**Q&A Session** Felix J.F. Herth (Heidelberg, Germany), Stefano Gasparini (Ancona (AN), Italy)	**4263**

Channel 4. Session 345 20:30 - 21:30

Industry evening symposium: The new reality: better asthma care supported by digital health solutions

Novartis Pharma AG

Organised by Novartis Pharma AG

Chairs : David Price (Singapore, Singapore)

20:30	**Welcome and introduction** David Price (Singapore, Singapore)	**4264**
20:33	**Digital solutions to real world challenges: addressing unmet needs with digital technology** David Price (Singapore, Singapore)	**4265**
20:48	**Digital innovation: supporting the progress of asthma management** Konstantinos Kostikas (Ioannina, Greece)	**4266**
21:03	**Digital applications for current and future asthma management** Holger Woehrle (Ulm, Germany)	**4267**
21:18	**Panel discussion**	**4268**
21:28	**Panel discussion, summary and close** David Price (Singapore, Singapore)	**4269**

Channel 5. Session 346 20:30 - 21:30

Industry evening symposium: What will the decade bring in new treatment options for ILD patients?

F. Hoffmann-La Roche Ltd

Organised by F. Hoffmann-La Roche Ltd

Chairs : Maria Molina Molina (Barcelona, Spain)

20:30	**Opening remarks** Maria Molina Molina (Barcelona, Spain)	**4270**
20:35	**What will ILD management beyond IPF look like?** Anna Maria Hoffmann-Vold (Oslo, Norway), Carlo Vancheri (Catania (CT), Italy)	**4271**
20:55	**The promising future of IPF treatment** Vincent Cottin (Lyon, France)	**4272**
21:10	**Q&A** Anna Maria Hoffmann-Vold (Oslo, Norway), Carlo Vancheri (Catania (CT), Italy), Vincent Cottin (Lyon, France)	**4273**
21:25	**Closing remarks** Maria Molina Molina (Barcelona, Spain)	**4274**

Channel 6. Session 347 20:30 - 21:30

Industry evening symposium: Gram-negative Antibiotic Updates During the COVID Diversion

MSD

Organised by MSD

Chairs : Antoni Torres (Barcelona, Spain), jean-francois timsit (, France)

20:30	**Welcome and Opening Remarks** jean-francois timsit (, France), Antoni Torres (Barcelona, Spain)	**4275**
20:36	**Antibiotic clinical trial updates in severe respiratory infections** matteo bassetti (, Italy)	**4276**
20:48	**New antibiotics for resistant Gram-negative infections: the positives and the negatives** Andrew Shorr (, United States of America)	**4277**
21:00	**Bacterial pneumonia complicating COVID-19** Ricard Ferrer (, Spain)	**4278**
21:12	**Panel Q&A**	**4279**
21:24	**Closing Remarks** jean-francois timsit (, France), Antoni Torres (Barcelona, Spain)	**4280**

Channel 1. Session 348 08:00 - 09:00

Industry early morning symposium: Real-world data from patients with ILDs: challenges, learnings and opportunities

Boehringer Ingelheim International GmbH

Organised by Boehringer Ingelheim International GmbH

Chairs : Jürgen Behringer (Niederlauer, Germany)

08:00	**Welcome and introduction** Jürgen Behringer (Niederlauer, Germany)	**4281**
08:15	**Interpreting real-world data from patients with ILDs** Jürgen Behringer (Niederlauer, Germany)	**4282**
08:25	**What have registry data told us about the diagnosis and management of IPF?** Tamera Corte (Camperdown (NSW), Australia)	**4283**
08:40	**Patient registries in ILDs: what might they teach us in the future?** Daniel Culver (Cleveland, United States of America)	**4284**
08:50	**Panel discussion** Jürgen Behringer (Niederlauer, Germany)	**4285**

Channel 2. Session 349 08:15 - 09:15

Industry early morning symposium: Nasal High Flow Non Invasive Respiratory Support for COVID-19 Patients

Fisher & Paykel Healthcare

Organised by Fisher & Paykel Healthcare

Chairs : Mark W. Elliott (Leeds (West Yorkshire), United Kingdom), Giacomo Grasselli (Milano (MI), Italy)

08:15	**Use of NHF as a treatment of moderate to severe hypoxemic respiratory failure for COVID 19** Gerard J. Criner (Philadelphia, United States of America)	**4286**
08:30	**The Italian experience on 670 patients using noninvasive respiratory support outside the ICU during COVID-19** Stefano Nava (Bologna (BO), Italy)	**4287**
08:45	**Care of COVID patients in Pulmonology Units – the role of the ICU** Alexandre Demoule (Paris, France)	**4288**
09:00	**Panel discussion**	**4289**

Channel 3. Session 350 08:15 - 09:15

Industry early morning symposium: Personal strategies to minimise effects of air pollution on respiratory health: advice for providers, patients and the public

GSK Consumer Healthcare

Organised by GSK Consumer Healthcare

Chairs : Christopher Carlsten (Vancouver (BC), Canada)

08:15	**Personal strategies to minimise effects of air pollution on respiratory health: advice for providers, patients and the public** Christopher Carlsten (Vancouver (BC), Canada), Kian Fan Chung (London, United Kingdom), Gary Wong (Shatin, Hong Kong), Sundeep Santosh Salvi (Pune (Maharashtra), India)	**4290**
08:45	**Q&A and discussion**	**4291**

Channel 4. Session 351 08:15 - 09:15

Industry early morning symposium: Severe allergic asthma management in children: the anti-IgE experience

Novartis Pharma AG

Organised by Novartis Pharma AG

Chairs : Nikolaos Papadopoulos (Manchester, United Kingdom)

08:15	**Welcome and introduction** Nikolaos Papadopoulos (Manchester, United Kingdom)	**4292**
08:20	**Guidelines for the management of severe allergic asthma in children: the omalizumab experience** Sharon Dell (Vancouver, British Columbia, Canada)	**4293**
08:35	**How can omalizumab address the challenges in the management of severe allergic asthma?** Nikolaos Papadopoulos (Manchester, United Kingdom)	**4294**
08:50	**How do viruses impact paediatric asthma?** Adnan Custovic (London, United Kingdom)	**4295**
09:05	**Allergic multimorbidities in children: what does the future hold?** Nikolaos Papadopoulos (Manchester, United Kingdom)	**4296**

Channel 5. Session 352 08:15 - 09:15

Industry early morning symposium: Successful inhalation therapy in 2020: patients and inhalers in focus

Orion and Menarini

Organised by Orion and Menarini

Chairs : Eric D. Bateman (Cape Town, South Africa)

08:15	**Setting the scene** Eric D. Bateman (Cape Town, South Africa)	**4297**
08:20	**Why do some patients with COPD benefit from inhaled corticosteroids treatment?** Klaus F. Rabe (Kiel, Germany)	**4298**
08:30	**Key features of inhaler-device technology – what to consider and how to make it work for the patients?** Lauri Lehtimäki (Tampere, Finland)	**4299**
08:50	**Trainers and Trainees: how to ensure successful inhalation treatment for patients?** Omar S. Usmani (London, United Kingdom)	**4300**
09:00	**Changing perceptions and improving asthma outcomes: spotlight on MART** Eric D. Bateman (Cape Town, South Africa)	**4301**
09:10	**Summary & meeting close** Eric D. Bateman (Cape Town, South Africa)	**4302**

No Room Session 381 13:15 - 14:15

Industry Device Mini Symposia: Meet the experts for case-based discussion for therapeutic bronchoscopy

Organised by Olympus Europa SE & Co. KG

Chairs : Mohammed Munavvar (Preston (Lancashire), United Kingdom)

13:15	**Case-based discussion: Valve Therapy for Emphysema** Arschang Valipour (Wien, Austria)	**4521**
13:35	**Case-based discussion: Tracheal Stent Placement** Kaid Darwiche (Essen, Germany)	**4522**
13:55	**Case-based discussion: EVIS X1 Therapeutic Bronchoscopy** Mohammed Munavvar (Preston (Lancashire), United Kingdom)	**4523**

No Room Session 382 13:15 - 14:15

Industry Device Mini Symposia: Connected solutions for end-to-end sleep apnoea patient remote care management

Organised by ResMed

Chairs :

13:15	**From diagnostics to long term adherence: harnessing the power of AirView™ and myAir™ for CPAP sleep apnoea patient care** Greg Sheen , Karen Schofield (Uckfield, United Kingdom)	**4524**
13:40	**Introducing Narval Easy™, the first collaborative platform for MAD-prescribed OSA patient follow-up** Mark Schalabi	**4525**
14:00		**4526**
14:05	**Q/A session**	**4527**

No Room — Session 383 — 13:15 - 14:15

Industry Device Mini Symposia: MI-E Graphics Analysis: Improving the application and effectiveness of cough therapy

Organised by Philips

13:15	**An introduction to MI-E graphics analysis** Jon Nilsestuen	**4528**
13:35	**An Examination of Upper Airway Stability in the Bulbar ALS Phenotype** David Troxell (San Luis Obispo, United States of America)	**4529**
13:45		**4530**
14:00		**4531**

Channel 1. — Session 384 — 13:15 - 14:15

Industry lunchtime symposium: Frontiers in eosinophilic diseases

AstraZeneca

Organised by AstraZeneca

Chairs : David J Jackson (London, United Kingdom)

13:15	**Welcome and introduction** David J Jackson (London, United Kingdom)	**4532**
13:20	**The role of eosinophils in health and disease development** Florence Roufosse (Brussels, Belgium)	**4533**
13:35	**Eosinophils as the effector cell in chronic airways inflammation** David J Jackson (London, United Kingdom)	**4534**
13:55	**Eosinophils as the effector cell in systemic inflammatory diseases** Praveen Akuthota (San Diego, United States of America)	**4535**
14:10	**Meeting close** David J Jackson (London, United Kingdom)	**4536**
14:15	**Breakout: expert Q&A sessions** **The role of eosinophils in health and disease development** **Eosinophils as the effector cell in chronic airways inflammation** **Eosinophils as the effector cell in systemic inflammatory diseases** David J Jackson (London, United Kingdom), Praveen Akuthota (San Diego, United States of America), Florence Roufosse (Brussels, Belgium)	**4537**

Channel 2. — Session 385 — 13:15 - 14:15

Industry lunchtime symposium: New clinical and real-world data to inform treatment choices in COPD: Looking from a patient perspective

GlaxoSmithKline

Organised by GlaxoSmithKline

Chairs : Paul Jones (London, United Kingdom)

13:15	**Chair's introduction** Paul Jones (London, United Kingdom)	**4538**
13:20	**Inhalers?– The critical link between the molecules and patient benefit** Paul Jones (London, United Kingdom)	**4539**
13:35	**Improving symptoms** François Maltais (Québec (QC), Canada)	**4540**
13:50	**Treatment in the real world** David M. G. Halpin (Exeter, United Kingdom)	**4541**
14:10	**Conclusions** Paul Jones (London, United Kingdom)	**4542**

Channel 3. Session 386 13:15 - 14:15

Industry lunchtime symposium: Biomarkers of Type 2 Inflammation in the Treatment of Severe Asthma: Focus on FeNO

Sanofi Genzyme and Regeneron

Organised by Sanofi Genzyme and Regeneron

Chairs : Anh Tuan Dinh-Xuan (Paris, France)

13:15	**Introduction** Anh Tuan Dinh-Xuan (Paris, France)	**4543**
13:25	**Role of Nitric Oxide in Type 2 Inflammation and Respiratory Physiology** Anh Tuan Dinh-Xuan (Paris, France), Geoffrey Chupp (New Haven, United States of America), Enrico Marco Heffler (Milano, Italy), Stephanie Korn (Mainz, Germany)	**4544**
13:35	**Audience Q&A**	**4545**
13:40	**Utility of FeNO as a Biomarker in Asthma** Anh Tuan Dinh-Xuan (Paris, France), Geoffrey Chupp (New Haven, United States of America), Enrico Marco Heffler (Milano, Italy), Stephanie Korn (Mainz, Germany)	**4546**
13:50	**Audience Q&A**	**4547**
13:55	**Application of FeNO in Personalized Management of Patients with Severe Type 2 Asthma** Anh Tuan Dinh-Xuan (Paris, France), Geoffrey Chupp (New Haven, United States of America), Enrico Marco Heffler (Milano, Italy), Stephanie Korn (Mainz, Germany)	**4548**
14:05	**Audience Q&A**	**4549**
14:10	**Panel Closing Remarks** Anh Tuan Dinh-Xuan (Paris, France), Geoffrey Chupp (New Haven, United States of America), Enrico Marco Heffler (Milano, Italy), Stephanie Korn (Mainz, Germany)	**4550**

Channel 5. Session 387 13:15 - 14:15

Industry lunchtime symposium: Managing COPD through innovative connected solutions

ResMed

Organised by ResMed

13:15	**Putting patients first: Propeller Health's asthma and COPD digital health platform.** Michael Dreher (Aachen, Germany)	**4551**
13:35	**High Flow Therapy at home: Perspectives for hypoxemic COPD patients.** Maxime Patout (Mont-Saint Aignan, France)	**4552**
13:55	**Why use telemonitoring for ventilated patients? A doctor's perspective.** Michelle Chatwin (London, United Kingdom)	**4553**

Channel 1. Session 422 19:15 - 20:15

Industry evening symposium: Epithelial cytokines in the airway: recent advances in severe asthma
AstraZeneca

Organised by AstraZeneca

Chairs : Andrew Menzies-Gow (London, United Kingdom), Celeste Michala Porsbjerg (Copenhagen, Denmark)

19:15	**Co-chairs' welcome** Andrew Menzies-Gow (London, United Kingdom), Celeste Michala Porsbjerg (Copenhagen, Denmark)	**4838**
19:20	**Raising the bar for the management of severe asthma: remission as the goal of therapy** Andrew Menzies-Gow (London, United Kingdom)	**4839**
19:30	**The airway epithelium as first line of defence: diverse downstream inflammatory cascades in response to viruses and allergens** Celeste Michala Porsbjerg (Copenhagen, Denmark)	**4840**
19:40	**Triggers of exacerbations: what is driving severe asthma?** Stephanie Korn (Mainz, Germany)	**4841**
19:50	**Recent advances in understanding the role of epithelial cytokines in severe asthma** Jonathan Corren (Los Angeles, United States of America)	**4842**
20:05	**Audience Q&A and concluding remarks** Andrew Menzies-Gow (London, United Kingdom), Celeste Michala Porsbjerg (Copenhagen, Denmark)	**4843**
20:15	**Breakout #1: Interactive Q&A session with Professor Andrew Menzies-Gow and Dr Stephanie Korn** Andrew Menzies-Gow (London, United Kingdom), Stephanie Korn (Mainz, Germany)	**4844**
20:15	**Breakout #2: Interactive Q&A session with Professor Celeste Porsbjerg and Dr Jonathan Corren** Celeste Michala Porsbjerg (Copenhagen, Denmark), Jonathan Corren (Los Angeles, United States of America)	**4845**

Channel 2. Session 423 19:15 - 20:15

Industry evening symposium: Science is no illusion: extrafine combination therapy in asthma and COPD
Chiesi Farmaceutici S.p.A.

Organised by Chiesi Farmaceutici S.p.A.

Chairs : Guy Brusselle (Ghent, Belgium)

19:15	**Breathing out the sound of small airways** Monica Kraft (Tucson, United States of America)	**4846**
19:30	**New combination therapy in asthma: what is on the horizon?** Johann Christian Virchow (Rostock, Germany)	**4847**
19:45	**Optimization of COPD patients treatment: from clinical trials to real-world evidence** Guy Brusselle (Ghent, Belgium)	**4848**
20:00	**Q&A**	**4849**

Channel 3. Session 424 19:15 - 20:15

Industry evening symposium: COPD treatment: What is the most important target?
GlaxoSmithKline

Organised by GlaxoSmithKline

Chairs : Neil C. Barnes (London, United Kingdom)

19:15	**Chair’s introduction** Neil C. Barnes (London, United Kingdom)	**4850**

19:19	**Reducing symptoms** Claus Vogelmeier (Marburg, Germany)	**4851**
19:35	**Importance of preventing exacerbations** Alice Turner (Birmingham (West Midlands), United Kingdom)	**4852**
19:49	**Increasing survival** MeiLan K. Han (Ann Arbor, United States of America)	**4853**
20:01	**Is there a key target?** Alberto Papi (Ferrara, Italy)	**4854**

Channel 4. Session 425 19:15 - 20:15

Industry evening symposium: Severe asthma and co-morbid nasal polyposis: a patient-centric approach

Novartis Pharma AG

Organised by Novartis Pharma AG

Chairs : Antonio Nieto (Valencia, Spain)

19:15	**Severe asthma and co-morbidities: a focus on anti-IgE** Antonio Nieto (Valencia, Spain)	**4855**
19:25	**Living with asthma and nasal polyposis: patient insight, a pulmonologist perspective, an ENT perspective** Guy F. Joos (Ghent, Belgium)	**4856**
19:40	**Overview of the evidence of anti-IgE in nasal polyposis** Philippe Gevaert (Ghent, Belgium)	**5381**
19:55	**One patient, one airway: A multi-disciplinary approach** Antonio Nieto (Valencia, Spain)	**4857**
20:05	**Live audience Q&A followed by breakout session**	**4858**

Channel 5. Session 426 19:15 - 20:15

Industry evening symposium: COPD and Air Leak treatment - Master Challenging Cases with Spiration Bronchial Valves

Olympus Europa SE & Co. KG

Organised by Olympus Europa SE & Co. KG

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

19:15	**"The force of bronchoscopy in obstructive lung disease" - update and case presentation in interventional techniques for COPD** Ralf-Harto Hübner (Berlin, Germany)	**4859**
19:30	**Final destination Air Leaks - undiscovered potential in bronchoscopy** Arschang Valipour (Wien, Austria)	**4860**
19:45	**Bringing therapeutic bronchoscopy to the next level with the new EVIS X1 Endoscopy Platform** Pallav L. Shah (London, United Kingdom)	**4861**
20:00	**Q&A Session** Ralf-Harto Hübner (Berlin, Germany), Pallav L. Shah (London, United Kingdom)	**4862**

Channel 6. Session 427 19:15 - 20:15

Industry evening symposium: Risk management & optimising treatment in Pulmonary Arterial Hypertension

MSD

Organised by MSD

Chairs : Gérald Simonneau (Le Kremlin-Bicêtre, France), H. Ardeschir Ghofrani (Gießen, Germany)

19:15	**What Does Registry Data Show Us About Risk Management of PAH Patients?** Olivier Sitbon (Le Kremlin-Bicêtre, France)	**4863**
19:35	**Practical Approaches to Risk Stratification, How to Manage Intermediate Risk:** **• Add-on Therapy** **• Optimize the NO Pathway (transition)** Olivier Sitbon (Le Kremlin-Bicêtre, France), Stephan Rosenkranz (Köln, Germany)	**4864**
19:50	**REPLACE Study Riociguat rEplacing PDE5i therapy evaLuated Against Continued standard of carE with PDE5** Marius M. Hoeper (Hannover, Germany)	**4865**
20:05	**Roundtable Q&A and Discussion** Gérald Simonneau (Le Kremlin-Bicêtre, France), H. Ardeschir Ghofrani (Gießen, Germany)	**4866**

Channel 1. Session 428 20:30 - 21:30

Industry evening symposium: Supporting the patient pathway in ILD management: from early diagnosis to advanced disease

F. Hoffmann-La Roche Ltd

Organised by F. Hoffmann-La Roche Ltd

20:30	**Opening remarks** Steven D Nathan (Falls Church, United States of America)	**4867**
20:35	**Panel Discussion: How do we ensure early and specific diagnosis of ILDs?** Steven D Nathan (Falls Church, United States of America), Marlies S. Wijsenbeek (Rotterdam, Netherlands), Elisabeth Bendstrup (Vejle, Denmark), Nicola Sverzellati (Parma (PR), Italy)	**4868**
21:05	**Short recap of interview: What are current treatment challenges for non-IPF ILDs?** Michael Kreuter (Heidelberg, Germany)	**4869**
21:15	**Short talk: What do we do with ILD patients with more advanced functional impairment?** Steven D Nathan (Falls Church, United States of America), Elisabeth Bendstrup (Vejle, Denmark)	**4870**

Channel 2. Session 429 20:30 - 21:30

Industry evening symposium: Clinical Considerations for Targeting Type 2 Inflammation in Upper and Lower Airway Diseases

Sanofi Genzyme and Regeneron

Organised by Sanofi Genzyme and Regeneron

20:30	**Clearing the Air: Understanding the Pathophysiology of Type 2 Inflammatory Airway Diseases** Klaus F. Rabe (Kiel, Germany)	**4871**
20:50	**Type 2 Inflammation As a Driving Force for Targeted Treatment of Severe Asthma** Andrea Matucci (Florence, Italy)	**4872**
21:15	**Advancing the Clinical Management of CRSwNP Through a Greater Understanding of Type 2 Inflammation** Stella Lee (Pittsburgh, United States of America)	**4873**

Channel 3. Session 430 20:30 - 21:30

Industry evening symposium: “Mind the gap”: evidence on the treatment of alpha-1 antitrypsin deficiency and unmet needs”

Grifols

Organised by Grifols

Chairs : Claus Vogelmeier (Marburg, Germany)

20:30	**Welcome and introduction** Claus Vogelmeier (Marburg, Germany)	**4874**

20:35	**New Real World Evidence Study: Comparison of augmentation naïve and augmented patients in AATD related lung disease** Robert A. Sandhaus (Bow Mar, United States of America)	**4875**
20:55	**The future of AATD registry studies: example EARCO and its open questions** Marc Miravitlles (Barcelona (CT), Spain)	**4876**
21:05	**Pulmonary exacerbations and withdrawal of augmentation therapy** Oliver Mcelvaney (, Ireland)	**4877**
21:20	**AATD treatment in current times: questions** **Summary and Close** Claus Vogelmeier (Marburg, Germany)	**4878**

Channel 4. Session 431 20:30 - 21:30

Industry evening symposium: Waking and walking with COPD: Inhalation matters

Boehringer Ingelheim International GmbH

Organised by Boehringer Ingelheim International GmbH

Chairs : Arschang Valipour (Wien, Austria)

20:30	**Welcome and introduction** Arschang Valipour (Wien, Austria)	**4879**
20:35	**Waking and walking with COPD: A day in the life of your patient** MeiLan K. Han (Ann Arbor, United States of America)	**4880**
20:50	**Targeting airflow limitation in COPD** Omar S. Usmani (London, United Kingdom)	**4881**
21:05	**Targeting treatment to individual patients** Marc Miravitlles (Barcelona (CT), Spain)	**4882**
21:20	**Panel discussion and closing comments** Arschang Valipour (Wien, Austria)	**4883**

Channel 5. Session 432 20:30 - 21:30

Industry evening symposium: Connected inhalers and communication: The value of emerging technologies in supporting remote management in asthma and COPD care

Teva Pharmaceuticals Europe B.V.

Organised by Teva Pharmaceuticals Europe B.V.

Chairs : Peter J. Barnes (London, United Kingdom)

20:30	**Welcome and introduction** Peter J. Barnes (London, United Kingdom)	**4884**
20:35	**The global burden of respiratory care: Why do we need to optimise inhaler use?** Peter J. Barnes (London, United Kingdom)	**4885**
20:45	**The digital age: Smart inhaler platforms for the management of patients with asthma and COPD** Nawar Diar Bakerly (Salford (Lancashire), United Kingdom)	**4886**
21:05	**Personalising respiratory care with connected inhaler technologies** John Haughney (Glasgow, United Kingdom)	**4887**
21:20	**Summary and close** Peter J. Barnes (London, United Kingdom)	**4888**

Channel 6. Session 433 20:30 - 21:30

Industry evening symposium: Management of recurrent pediatric respiratory tract infections and complications: a missed opportunity?

OM Pharma SA

Organised by OM Pharma SA

Chairs : Manuel Soto Martínez (San José, Costa Rica)

20:30	**Welcome and introduction** Manuel Soto Martínez (San José, Costa Rica)	**4889**
20:35	**Respiratory tract infections during childhood and complications: etiopathogenesis and disease burden** Manuel Soto Martínez (San José, Costa Rica)	**4890**
20:55	**Interactive expert debate on the role of immunotherapy: Rationale vs the evidence – Debate part 1** Wojciech Feleszko (Warszawa, Poland)	**4891**
21:01	**Interactive expert debate on the role of immunotherapy: Rationale vs the evidence – Debate part 2** Alexander Möller (Zürich, Switzerland)	**5383**
21:07	**Interactive expert debate on the role of immunotherapy: Rationale vs the evidence – Debate part 3** Wojciech Feleszko (Warszawa, Poland)	**5384**
21:13	**Interactive expert debate on the role of immunotherapy: Rationale vs the evidence – Debate part 4** Alexander Möller (Zürich, Switzerland)	**5385**
21:20	**Conclusions and Q&A** Manuel Soto Martínez (San José, Costa Rica), Wojciech Feleszko (Warszawa, Poland), Alexander Möller (Zürich, Switzerland)	**4892**

Channel 1. Session 434 08:15 - 09:15

Industry early morning symposium: What would you recommend today for COPD patients?
Boehringer Ingelheim International GmbH

Organised by Boehringer Ingelheim International GmbH

Chairs : Michael Dreher (Aachen, Germany)

08:15	**Welcome and introduction** Michael Dreher (Aachen, Germany)	**4893**
08:20	**Implications of new guidelines for ICS use in COPD** James D. Chalmers (Dundee (Angus), United Kingdom)	**4894**
08:35	**Is two really better than one? What the guidelines tells us** Michael Dreher (Aachen, Germany)	**4895**
08:50	**How can we do the best for our patients?** Arschang Valipour (Wien, Austria)	**4896**
09:05	**Panel discussion and closing comments** Michael Dreher (Aachen, Germany)	**4897**

Channel 2. Session 435 08:15 - 09:15

Industry early morning symposium: Which target to protect and preserve lungs health?
Zambon Spa

Organised by Zambon Spa

Chairs : Alberto Papi (Ferrara, Italy)

08:15	**Introduction** Alberto Papi (Ferrara, Italy)	**4898**
08:20	**The role of glutathione homeostasis in chronic obstructive lung disease** Alberto Papi (Ferrara, Italy)	**4899**
08:40	**The role of pulmonary fibrosis in lung diseases** Luca Richeldi (Roma, Italy)	**4900**
08:55	**Targeting oxidative stress. Experience during the Covid-19 pandemic, protection and prevention** Joan B Soriano (Madrid, Spain)	**4901**
09:10	**Chair sum up and conclusion + Q&A session live**	**4902**

No Room Session 458 13:15 - 14:15

Industry Device Mini Symposia: Innovations to transform COPD & Asthma patient care

Organised by ResMed

Chairs :

13:15	**Improving clinical outcomes for patients with chronic respiratory conditions: Propeller Health** Lauren Closson, Melissa Williams	**5080**
13:40	**Bringing High Flow Therapy into the home for COPD patients: Lumis™ HFT** Christian Wabnitz, Xabier Pilar	**5081**
14:05	**Q/A session**	**5082**

Channel 1. Session 459 13:15 - 14:15

Industry lunchtime symposium: Relevant Endpoints in Asthma Patients (REAP)
GlaxoSmithKline

Organised by GlaxoSmithKline

Chairs : Kenneth R. Chapman (Toronto (ON), Canada)

13:15	**Introduction** Kenneth R. Chapman (Toronto (ON), Canada)	**5083**
13:20	**The need for better asthma control: Understanding concepts around underlying inflammation** Alberto Papi (Ferrara, Italy)	**5084**
13:35	**Evolving data in asthma management** Kenneth R. Chapman (Toronto (ON), Canada)	**5085**
13:45	**Understanding how to achieve better effectiveness in asthma** Ashley Woodcock (Manchester (Greater Manchester), United Kingdom)	**5086**
14:00	**Panel Discussion** Kenneth R. Chapman (Toronto (ON), Canada), Alberto Papi (Ferrara, Italy), Ashley Woodcock (Manchester (Greater Manchester), United Kingdom)	**5087**

Channel 2. Session 460 13:15 - 14:15

Industry lunchtime symposium: Remote monitoring of patients with Respiratory Failure receiving Home Mechanical Ventilation

Philips

Organised by Philips

Chairs : Begüm Ergan (Izmir, Turkey)

13:15	**Role of a Telemedicine approach in initiating home NIV for COPD patients** Marieke L. Duiverman (Groningen, Netherlands)	**5088**
13:45	**How should we telemonitor patients with respiratory failure treated with NIV?** João Carlos Winck Fernandes Cruz (Vila Nova de Gaia, Portugal)	**5089**

Channel 3. Session 461 13:15 - 14:15

Industry lunchtime symposium: Severe eosinophilic asthma in the biologic era: From clinical studies to clinical practice

Teva Pharmaceuticals Europe B.V.

Organised by Teva Pharmaceuticals Europe B.V.

Chairs : Klaus F. Rabe (Kiel, Germany)

13:15	**Welcome and introduction** Klaus F. Rabe (Kiel, Germany)	**5090**
13:20	**Severe asthma: The story so far** Klaus F. Rabe (Kiel, Germany)	**5091**
13:30	**The pathophysiological landscape of severe eosinophilic asthma** Roland Buhl (Mainz, Germany)	**5092**
13:50	**Which biologic and why? A closer look at clinical and real-world data** Guy Brusselle (Ghent, Belgium)	**5093**
14:05	**Summary and close** Klaus F. Rabe (Kiel, Germany)	**5094**

Channel 5. Session 462 13:15 - 14:15

Industry lunchtime symposium: Improving pulmonary fibrosis diagnosis and care in Europe

Galapagos & European Idiopathic Pulmonary Fibrosis and Related Disorders Federation (EU-IPFF)

Organised by Galapagos & European Idiopathic Pulmonary Fibrosis and Related Disorders Federation (EU-IPFF)

Chairs : Steve Jones (Cambridge, United Kingdom)

13:15	**Welcome** Liam Galvin (Thurles, Ireland)	**5095**
13:20	**The path to diagnosis in Europe: Results of the EU-IPFF/Galapagos patient survey** Steve Jones (Cambridge, United Kingdom), Marlies S. Wijsenbeek (Rotterdam, Netherlands)	**5096**

13:35	**EU-IPFF Benchmarking Report: IPF Care across Europe** Francesco Bonella (Düsseldorf, Germany), Jean-Michel Fourrier (Lagny sur Marne, France)	**5097**
13:50	**Educating general practitioners about pulmonary fibrosis: the Royal College of General Practitioners (RCGP) e-learning course** Helen Parfrey (Cambridge (Cambridgeshire), United Kingdom)	**5098**
14:00	**Questions & answers** **Panel discussion** Steve Jones (Cambridge, United Kingdom), Liam Galvin (Thurles, Ireland), Marlies S. Wijsenbeek (Rotterdam, Netherlands), Francesco Bonella (Düsseldorf, Germany), Jean-Michel Fourrier (Lagny sur Marne, France), Helen Parfrey (Cambridge (Cambridgeshire), United Kingdom)	**5099**
14:05	**Conclusion and thanks** Steve Jones (Cambridge, United Kingdom)	**5100**

Channel 1. Session 495 19:15 - 20:15

Industry evening symposium: Management of Autoimmune Disease-Related ILDs: how can we improve outcomes for patients?

Boehringer Ingelheim International GmbH

Organised by Boehringer Ingelheim International GmbH

Chairs : Vincent Cottin (Lyon, France)

19:15	**Welcome and introduction** Vincent Cottin (Lyon, France)	**5337**
19:25	**Optimising the monitoring and treatment of SSc-ILD** Anna Maria Hoffmann-Vold (Oslo, Norway)	**5338**
19:40	**Pulmonary manifestations of autoimmune diseases beyond SSc – what do we have to consider ?** Michael Kreuter (Heidelberg, Germany)	**5339**
19:55	**Panel discussion** Vincent Cottin (Lyon, France)	**5340**

Channel 2. Session 496 19:15 - 20:15

Industry evening symposium: The Lung, at the Heart of Pulmonary Arterial Hypertension

Janssen Pharmaceutica NV

Organised by Janssen Pharmaceutica NV

Chairs : Olivier Sitbon (Le Kremlin-Bicêtre, France), Marion Delcroix (Leuven, Belgium)

19:15	**Welcome and objectives** Olivier Sitbon (Le Kremlin-Bicêtre, France)	**5341**
19:20	**The challenging journey to PAH diagnosis: Learnings from two clinical cases of PH** Alessandra Manes (Bologna (BO), Italy), Isabel Blanco (Barcelona, Spain)	**5342**
19:30	**Differential diagnosis of PH: Pearls for the pulmonologist** Sean Gaine (Dublin, Ireland)	**5343**
19:40	**How to assess risk and optimize treatment in patients with PAH** Marius M. Hoeper (Hannover, Germany)	**5344**
19:55	**Panel discussion with audience Q&A** Alessandra Manes (Bologna (BO), Italy), Isabel Blanco (Barcelona, Spain), Sean Gaine (Dublin, Ireland), Marius M. Hoeper (Hannover, Germany), Olivier Sitbon (Le Kremlin-Bicêtre, France), Marion Delcroix (Leuven, Belgium)	**5345**
20:10	**Key messages and closing remarks** Marion Delcroix (Leuven, Belgium)	**5346**
20:15	**Parallel breakout sessions** Olivier Sitbon (Le Kremlin-Bicêtre, France), Alessandra Manes (Bologna (BO), Italy), Isabel Blanco (Barcelona, Spain), Sean Gaine (Dublin, Ireland), Marius M. Hoeper (Hannover, Germany), Marion Delcroix (Leuven, Belgium)	**5347**

Channel 3. Session 497 19:15 - 20:15

Industry evening symposium: STAND UP AGAINST COPD: A hit Hard, or hit Right approach?

Menarini group

Organised by Menarini group

Chairs : Alvar Agusti Garcia-Navarro (Barcelona, Spain)

19:15	**Chairs' Introduction** Alvar Agusti Garcia-Navarro (Barcelona, Spain)	**5348**
19:20	**Mono or Dual bronchodilators in COPD: Which, Why and When?** Bartolome R. Celli Croquer (Boston, United States of America)	**5349**
19:35	**When to use ICS with one or two bronchodilators?** Gerard J. Criner (Philadelphia, United States of America)	**5350**
19:50	**Fixed Triple Therapy and Mortality: Evidence & Explanation** Dave Singh (Manchester, United Kingdom)	**5351**
20:05	**Q&A and Chair's close** Alvar Agusti Garcia-Navarro (Barcelona, Spain)	**5352**

Channel 4. Session 498 19:15 - 20:15

Industry evening symposium: Protecting the planet: time for action!

Novartis Pharma AG

Organised by Novartis Pharma AG

Chairs : Ashley Woodcock (Manchester (Greater Manchester), United Kingdom)

19:15	**Welcome and introduction** Ashley Woodcock (Manchester (Greater Manchester), United Kingdom)	**5353**
19:20	**Climate change: its impact on health and disease** Rachel Huxley (Melbourne, Australia)	**5354**
19:35	**Our patients and our planet: considerations for inhaler choice** Ashley Woodcock (Manchester (Greater Manchester), United Kingdom)	**5355**
19:50	**Time to focus on green inhalers** Kai Michael Beeh (Wiesbaden, Germany)	**5356**
20:00	**Panel discussion**	**5357**
20:10	**Panel discussion, summary and close** Ashley Woodcock (Manchester (Greater Manchester), United Kingdom)	**5358**

Channel 5. Session 499 19:15 - 20:15

Industry evening symposium: The cystic fibrosis research journey: a blueprint for other respiratory diseases?

Vertex Pharmaceuticals (Europe) Limited

Organised by Vertex Pharmaceuticals (Europe) Limited

Chairs : Francesco Blasi (Milan, Italy)

19:15	**Welcome and introduction: advances in cystic fibrosis (CF) management** Francesco Blasi (Milan, Italy)	**5359**
19:20	**Three decades of research and innovation: what have we learnt?** Francesco Blasi (Milan, Italy)	**5360**
19:30	**Cystic fibrosis disease: the evolving natural history** Gregory Sawicki (Boston, United States of America)	**5361**
19:45	**Cystic fibrosis lungs: measuring what matters** Philipp Latzin (Bern, Switzerland)	**5362**

19:55	**COVID-19 and the journey ahead: windows of opportunity in cystic fibrosis (Panel discussion and Q&A)**	**5363**

Channel 6. Session 500 19:15 - 20:15

Industry evening symposium: Navigating Treatment Decisions for Patients With Uncontrolled Severe Asthma: A New Understanding of Type 2 Inflammation

Sanofi Genzyme and Regeneron

Organised by Sanofi Genzyme and Regeneron

19:15	**It's Out of Control: A Closer Look at Uncontrolled Severe Asthma Patient Burden** David M. G. Halpin (Exeter, United Kingdom)	**5364**
19:35	**Bringing Clarity to a Heterogeneous Patient Population Through Type 2 Inflammation** Oscar Palomares (Madrid, Spain)	**5365**
19:55	**Optimizing Severe Asthma Management: Breathing Life Into Clinical Data for Biologics** Elliot Israel (Boston, United States of America)	**5366**

Channel 1. Session 501 20:30 - 21:30

Industry evening symposium: Using Syndromic Testing to accelerate patient management decisions in respiratory tract infection suspicions during the COVID-19 crisis

bioMérieux

Organised by bioMérieux

Chairs : Christine Ginocchio (Salt Lake City, United States of America)

20:30	**'Under siege – management of patients with respiratory tract infections in the ED during the COVID-19 crisis'** Pierre Hausfater (Paris, France)	**5367**
20:55	**'Secondary bacterial pneumonias in COVID-19: reality or myth'** David Livermore (Norwich, United Kingdom)	**5368**

Channel 2. Session 502 20:30 - 21:30

Industry evening symposium: Continuity of care for patients with OSA or Chronic Respiratory Failure post-pandemic

ResMed

Organised by ResMed

20:30	**Management of patients with sleep disordered breathing** Arnaud Prigent (Rennes, France)	**5369**
20:50	**Management of non-dependent ventilated patients** Marieke L. Duiverman (Groningen, Netherlands)	**5370**
21:10	**Management of dependent ventilated patients** Jean-Paul Janssens (Genève, Switzerland)	**5371**

Channel 3. Session 503 20:30 - 21:30

Industry evening symposium: Endobronchial Valves for Successful Treatment of Severe Lung Emphysema: From Optimal Patient Selection to Complications Management

Pulmonx

Organised by Pulmonx

20:30	**Clinical Evidence and Best Practice for Endobronchial Valves for Severe Emphysema** Pallav L. Shah (London, United Kingdom)	**5372**
20:50	**Patient Evaluation, Treatment and Post-Treatment Care - Clinical Expectations** Daniela Gompelmann (Heidelberg, Germany)	**5373**
21:10	**Case Studies** Gerard J. Criner (Philadelphia, United States of America)	**5374**

Channel 4. Session 504 20:30 - 21:30

Industry evening symposium: Chronic Cough and Chronic Refractory Cough: What Respiratory Physicians Need to Know

MSD

Organised by MSD

Chairs : Alyn Hugh Morice (Cottingham, United Kingdom)

20:30	**Welcome and Introduction** Alyn Hugh Morice (Cottingham, United Kingdom)	**5375**
20:34	**Defining Chronic Cough and Its Burden of Disease on Patients** Alyn Hugh Morice (Cottingham, United Kingdom)	**5376**
20:42	**Mechanism of Chronic Cough** Jaclyn Smith (Manchester (Greater Manchester), United Kingdom)	**5378**
20:57	**How to Diagnose and Manage Chronic Cough and Chronic Refractory Cough** Peter Dicpinigaitis (New York, United States of America)	**5379**
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