



**WINTER MEETING 2021 - ONLINE**



**British  
Thoracic  
Society**

## Full Programme

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**WEDNESDAY 24<sup>TH</sup> TO FRIDAY 26<sup>TH</sup> NOVEMBER**

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Please see our website: [brit-thoracic.org.uk](http://brit-thoracic.org.uk)

Better lung health **for all**

# WELCOME

Dear Colleagues

I am delighted to present to you our full programme of named lectures, major symposia, spoken and poster sessions for the 2021 BTS Winter Scientific Meeting.

The Science and Research Committee has organised an outstanding line up of speakers for the Meeting, which I am sure will provide something of interest to all health professionals and scientists who are working hard to improve how we care for patients with respiratory disease.

Our symposia programme contains some first-class international speakers who, together with our own national experts, will inform delegates of the very latest advances in the clinical, translational and basic science of lung disease.

As it is likely that COVID-19 will still be endemic and work pressures still great this winter, the Meeting will again be held fully online. We hope that this will enable many more participants to attend and to do so safely. We will use the same platform as for the Winter Meeting 2020 (held in February 2021) but with some new features and updates, including easier and more interactive options for delegates to ask questions.

There will be ample opportunity also to interact with clinicians, allied health professionals and scientific colleagues from within the UK and abroad in our spoken and abstract sessions both of which remain vitally important components of the Meeting.

The Winter Scientific Meeting remains the highlight of our professional calendar and I look forward to welcoming you and your colleagues.

Yours faithfully



**Professor Elizabeth Sapey**  
Chair, BTS Science and Research Committee



## FINAL PROGRAMME

The final programme is published as a supplement to Thorax and will be available to all subscribing BTS members in advance of the Meeting. For ease of reference, it will also be available to all participants in advance on the BTS website: [www.brit-thoracic.org.uk](http://www.brit-thoracic.org.uk)

## BTS SCIENCE AND RESEARCH COMMITTEE MEMBERS – THE 2021 WINTER MEETING PLANNING COMMITTEE:

Professor Elizabeth Sapey (Chair)	Professor John Hurst	Dr Chris Scotton
Dr Nazia Chaudhuri	Dr Akhilesh Jha	Dr Aashish Vyas
Professor Jane Davies	Dr Neelam Kumar	Dr Thomas Ward
Professor Andres Floto	Dr Philip Molyneaux	
Dr Amanda Goodwin	Dr Nicola Roberts	

## CONFERENCE ORGANISATION

The Winter Meeting is organised by the British Thoracic Society. For general conference enquiries, please email: [bookings@brit-thoracic.org.uk](mailto:bookings@brit-thoracic.org.uk)

## ONLINE CONFERENCE AND EXHIBITION

The Winter Meeting 2021 will be fully online with live streaming of all major symposia, guest lectures spoken and poster sessions. There will be ample opportunity for delegates to ask questions via an interactive chat function.

All delegates are encouraged to visit the online exhibition stands for the latest information on pharmaceutical products and therapeutic equipment.

## CPD APPROVAL

Application pending for CPD approval from the Federation of the Royal Colleges of Physicians of the UK. When approved, we will automatically register all eligible delegates for CPD when they pre-register for the Meeting.

## PROGRAMME

Whilst every effort is made to provide the publicised programme, this may be subject to change where circumstances are outside our control.

**The British Thoracic Society gratefully acknowledges sponsorship from the under listed companies, through the purchase of online exhibition space at the Winter Meeting 2021. None of them have had any input into the programme content or the planning of the conference. Furthermore, the Society does not allow any sponsored symposia at this event, within the programme or associated in any way with it.**

AstraZeneca	Chiesi	Irwin Mitchell	Pfizer
Boehringer Ingelheim	GSK	Janssen	Sandoz
Bioprojet UK Ltd	Insmed	Olympus	Sanofi Genzyme
Boston Scientific			



#BTSWinter2021

# FULL PROGRAMME

## WEDNESDAY 24<sup>TH</sup> NOVEMBER 2021

08:00-08:30 **BTS JOURNAL CLUB**

### VASCULITIS AND LUNG DISEASE

Dr Janice Harper (Liverpool)

#### Learning objectives

Eosinophilic granulomatosis with polyangiitis (EGPA) is a subset of ANCA associated vasculitis with two distinct subtypes. Differences in pathophysiology and airway autoimmunity, clinical features and response to treatment (anti-IL5 and anti-B cell) will be discussed.

08:30-10:30 **JOINT BTS/BALR SYMPOSIUM PART 1**

### FIGHTING THE FIRE IN AIRWAY INFLAMMATION AND BACTERIAL COLONISATION

Chaired by: Dr Bettina Schock (Belfast) and Dr Amanda Tatler (Nottingham)

- 1) Inflammation and cilia: a hairy situation  
Dr Amelia Shoemark (Dundee)
- 2) AMPlifying host defense: innate control of respiratory infections  
Professor Pieter Hiemstra (Leiden)
- 3) Circadian rhythm and lung inflammation: right place at the wrong time  
Dr Julie Gibbs (Manchester)

#### Learning objectives

- 1) Gain understanding of innate barrier defences in the lung, and cutting-edge scientific approaches to characterise ciliary defects in the context of bronchiectasis.
- 2) In the age of antimicrobial resistance, discover the key role of the antimicrobial peptides naturally produced within the airway, and how they are modulated in health and disease.
- 3) Develop awareness of how circadian rhythm – our biological clock – can modulate the immune system, inflammation and steroid responsiveness in the lung.

08:45-10:05 **SPOKEN SESSION**

### THE CLINICAL MANAGEMENT OF ACUTE ASTHMA

08:45-10:05 **SPOKEN SESSION**

### STAY AWAKE! IT'S AN UPDATE ON SLEEP

08:45-10:05 **SPOKEN SESSION**

### PROBING THE PLEURAL SPACE

08:45-09:50 **SPOKEN SESSION**

### PREDICTIVE TOOLS FOR ACUTE DETERIORATION IN COVID-19 AND BEYOND

08:45-10:15

### SYMPOSIUM

### TRANSLATION OF SCIENTIFIC ADVANCES INTO PATIENT BENEFIT

Chaired by: Dr Ahsan Akram (Edinburgh) and Dr Emma O'Dowd (Nottingham)

- 1) Importance and therapeutic implications of tumour heterogeneity in the clinical setting  
Dr Mariam Jamal-Hanjani (London)
- 2) Vaccines for lung cancer: bench to bedside  
Professor Benoit Van Den Eynde (Oxford)
- 3) Clinical trial designs in the personalised therapy era  
Professor Gary Middleton (Birmingham)

#### Learning objectives

- 1) Understanding the importance of genomic heterogeneity within clinical settings.
- 2) Potential impact of vaccine therapies as strategies to harness IO.
- 3) Understanding how advanced trial designs are needed in the era of personalised medicine.

08:45-10:15

### SYMPOSIUM

### MOVING ON IN PULMONARY REHABILITATION AFTER COVID-19

Chaired by: Laura Graham (London) and Professor Sally Singh (Leicester)

- 1) Intermittent exercise training in severe lung disease: evidence and clinical application  
Professor Ioannis Vogiatzis (Northumbria)
- 2) Post COVID-19 rehabilitation: what's the evidence?  
Professor Sally Singh (Leicester)
- 3) Can ambulatory oxygen therapy improve performance in patients with chronic lung disease?  
Dr Samantha Kon (London)

#### Learning objectives

- 1) To understand the clinical impact of intermittent exercise training in severe lung disease.
- 2) To discuss the evidence around post COVID-19 rehabilitation.
- 3) To discuss the role of ambulatory oxygen in improving outcomes for those with chronic lung disease.

10:45-11:45

### POSTER SESSION

### ILD: HOW BIG IS THE PROBLEM? HOW CAN YOU SPOT IT AND HOW SHOULD YOU MONITOR IT?

10:45-12:00

**POSTER SESSION**

**CLINICAL DEVELOPMENTS IN NON-INVASIVE VENTILATION AND SLEEP**

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10:45-12:15

**SYMPOSIUM**

**ACUTE AND CHRONIC COVID-19**

*Details to be confirmed*

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10:45-12:15

**JOINT BTS/BPRS SYMPOSIUM**

**THE CHILD IS FATHER OF THE MAN**

Chaired by: Professor Charlotte Bolton (Nottingham) and  
Monica Fletcher (Edinburgh)

- 1) Air pollution and asthma: the effect of the new legal ruling  
Professor Jonathan Grigg (Munich)
- 2) Poor nutrition: destroyer of the developing lung  
Dr Ian Sinha (Liverpool)
- 3) Where next for our children's lungs post COVID-19?  
Professor Monica Lakhanpaul (London)

**Learning objectives**

- 1) To understand the major public health concerns in paediatric respiratory medicine globally.
  - 2) To appreciate the impacts of intersections eg poverty, second-hand tobacco smoke, environmental pollution.
  - 3) To increase awareness of public health initiatives and political drivers in these areas, particularly during the sharp focus of the COVID-19 pandemic.
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10:45-12:20

**SPOKEN SESSION**

**THE NEW NORMAL? NOVEL AND REMOTE STRATEGIES FOR PULMONARY REHABILITATION**

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10:45-12:20

**SPOKEN SESSION**

**COPD EXACERBATIONS: PREVENTION, TREATMENT, RECOVERY**

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11:00-13:00

**JOINT BTS/BALR SYMPOSIUM PART 2**

**NOVEL APPROACHES TO EXTINGUISHING LUNG DYSBIOSIS**

Chaired by: Dr Kylie Belchamber (Birmingham) and  
Dr Alison John (Nottingham)

- 1) Pneumonia prevention using genetically-engineered live attenuated *Streptococcus pneumoniae*  
Professor Jeremy Brown (London)
- 2) Exploiting commensal bacteria to enhance respiratory resilience to pathogenic colonisation  
Professor Mirco Schmolke (Geneva)
- 3) Harnessing natural predation using phage therapy  
Dr Helen Spencer (London)

**Learning objectives**

- 1) Gain an appreciation of the basic science and pre-clinical testing required in the development of novel vaccination approaches against bacterial pneumonia.
  - 2) Further understand the key role played by (and manipulation of) lung commensals in the protection against bacterial colonisation.
  - 3) In the face of increasing anti-microbial resistance, evaluate the potential of utilising tailored bacteriophage therapy to target key respiratory pathogens such as *Pseudomonas*.
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13:00-13:45

**GUEST LECTURE**

**THE BTS SCIENTIFIC LECTURE  
THE GLOBAL CHALLENGE OF AGEING**

Professor Linda Partridge (London/Cologne)

Introduced by Dr Graham Burns (Newcastle upon Tyne)

**Learning objective**

To learn about why we age, and what is healthy and unhealthy ageing. To consider the links between ageing and chronic disease and multi-morbidity, and consider novel ways to improve health with longevity.

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14:00-15:25

**POSTER SESSION**

**VIRTUAL MONITORING IN COVID-19**

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14:00-15:30

**SYMPOSIUM**

**COPD: SCALING NEW HEIGHTS**

Chaired by: Professor Charlotte Bolton (Nottingham) and  
Professor Tom Wilkinson (Southampton)

- 1) Inequalities: the silent killer  
Professor Nadia Hansel (Baltimore)
- 2) Exacerbations: zero tolerance  
Professor John Hurst (London)
- 3) Endobronchial intervention: right person for the right approach  
Dr Nick Hopkinson (London)

**Learning objectives**

- 1) To highlight the influence of these factors on the detection, management and diagnosis of COPD.
  - 2) A focus on the first exacerbation, what can we do to emphasise this event and prevent future. What options are there? What are the latest interventions? The patient perspective. The need to address this in research and not settle for repeated exacerbation.
  - 3) That the long-term plan encompasses a lot of COPD care and is vital but there is still a need to identify certain treatments for certain patients like LVR. We should not be denying patients access to these. Discussion that LVR would be good to be highlighted, especially with plans for commissioning coming in.
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14:00-15:30

**SYMPOSIUM**

**JOINT BTS/BALR/BLF EARLY CAREER INVESTIGATOR AWARDS**

This symposium will showcase the very best original research submitted to the Winter Meeting by UK scientists and clinicians in the early part of their research career, as they compete for prestigious prizes from the BTS, BALR and BLF.

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14:00-15:30

**SYMPOSIUM**

**UPDATES IN THE PATHOGENESIS, PROGNOSIS AND TREATMENT OF ILD**

Chaired by: Dr Mark Jones (Southampton) and  
Dr Lisa Nicol (Edinburgh)

- 1) The Lung Cell Atlas for clinicians  
Dr Herbert Schiller (Munich)
- 2) Racial differences in IPF  
Dr Ayodeji Adegunsoye (Chicago)
- 3) Acute exacerbations of ILD  
Dr Tamera Corte (Sydney)

**Learning objectives**

- 1) Understanding the Lung Cell Atlas and its impact for health and pulmonary fibrosis.
  - 2) To understand the racial differences in age at diagnosis and survival in patients with pulmonary fibrosis.
  - 3) An update in our understanding and management of acute exacerbations of interstitial lung disease.
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14:00-15:40

**POSTER SESSION**

**ADVANCES IN THE MANAGEMENT OF TB AND NTM INFECTIONS**

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14:00-15:45

**POSTER SESSION**

**DIAGNOSTICS AND MONITORING OF ASTHMA AND CO-MORBIDITIES**

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16:00-17:00

**PRESIDENT'S ADDRESS**

**BTS PRESIDENT'S ADDRESS & AWARD PRESENTATIONS**

**The changing faces of respiratory medicine**

Rachael Moses (London)

Introduced by: Dr Graham Burns (Newcastle upon Tyne)

## THURSDAY 25<sup>TH</sup> NOVEMBER 2021

08:00-08:30 **BTS JOURNAL CLUB**

### **"HOT OFF THE PRESS" CLINICAL TRIALS**

Dr Philip Molyneaux (London)

#### **Learning objectives**

To discuss the trials and tribulations of 2021.

08:30-10:00 **SYMPOSIUM**

### **YEAR OF THE NURSE: A SPOTLIGHT ON NURSE RESEARCH LEADERSHIP**

Chaired by: Alison Hughes (Chair, ARNS) and  
Carol Stonham (Chair, PCRS)

- 1) The support needs of patients with COPD and their carers  
Professor Morag Farquhar (Norwich)
- 2) Personalised approaches to asthma treatment  
Professor Vanessa McDonald (Newcastle, Australia)
- 3) Reducing admissions by providing nurse led psychological support  
Dr Karen Heslop-Marshall (Newcastle upon Tyne)

#### **Learning objectives**

- 1) Understand the support needs of COPD patients and their carers.
- 2) To understand personalising approaches to asthma management.
- 3) To discuss the impact of providing psychological support to patients.
- 4) To discuss the pathways for nurses to be more involved in leading research.

08:30-10:00 **JOINT BTS/BPRS SYMPOSIUM**

### **INTERSTITIAL LUNG DISEASE ACROSS THE DEVELOPMENTAL DIVIDE**

Chaired by: Dr Nazia Chaudhuri (Manchester) and  
Dr Priti Kenia (Birmingham)

- 1) ChILD: what adult physicians can learn from paediatricians  
Dr Rishi Pabary (London)
- 2) ILD: what paediatricians can learn from adult physicians  
Dr Martina Vasakova (Prague)
- 3) ILD genetics: pearls and pitfalls  
Dr Tessa Homphray (London)

#### **Learning objectives**

- 1) To gain a full understanding of the breadth of ILD in childhood and adult life.
- 2) To appreciate differences and similarities of ILD across the age spectrum.
- 3) To be brought up to date on advances in genetic and molecular diagnosis.

08:30-10:30 **SYMPOSIUM**

### **CHRONIC RESPIRATORY DISEASE IN LOW-INCOME AND MIDDLE-INCOME COUNTRIES (LMICs): FROM CHALLENGES TO SOLUTIONS**

Chaired by: Dr Jamilah Meghji (Liverpool) and  
Professor Kevin Mortimer (Liverpool)

- 1) Challenges to the delivery of care for people with chronic respiratory disease in LMICs: a perspective from Malaysia  
Professor Khoo Fe Ming (Malaysia)
- 2) Opportunities to improve care for people with chronic respiratory disease: perspectives from Malawi and Kenya  
Dr Stephen Mulupi (Liverpool)
- 3) When it's not TB – bronchiectasis and post TB lung disease in LMICs  
Dr Shami Jayasooria (Sheffield)
- 4) The WHO's CRD strategy for chronic respiratory disease in LMICs  
Dr Sarah Rylance (WHO Respiratory Director)

#### **Learning objectives**

- 1) To give an up-to-date perspective on CRDs in LMICs building on a review published in The Lancet on this topic with authorship from the BTS GHG.
- 2) To give the new WHO Medical Officer for non-communicable respiratory disease an opportunity to engage with the BTS membership and GHG and to explore opportunities for collaborative working.
- 3) To inspire BTS members to get involved with work to address global respiratory health through Global Health Group initiatives.

08:45-10:05 **SPOKEN SESSION**  
**TREATMENT AND ADHERENCE IN ASTHMA**

08:45-10:05 **SPOKEN SESSION**  
**BEYOND ACID-FAST: DIAGNOSIS AND TREATMENT OF TB IN THE 21ST CENTURY**

08:45-10:20 **SPOKEN SESSION**  
**WHAT GOES DOWN, MUST COME UP: OSCILLATION, OBSTRUCTION AND LUNG PHYSIOLOGY**

08:45-10:20 **SPOKEN SESSION**  
**DEVELOPING TREATMENTS FOR COVID-19**

11:00-11:50 **POSTER SESSION**  
**COUGH: IS IT A PROBLEM AND WHAT CAN WE DO ABOUT IT?**

11:00-12:05 **SPOKEN SESSION**  
**UNDERSTANDING COVID-19 MECHANISMS**

11:00 -12:20

**SPOKEN SESSION**

**TREATMENT CHOICES IN CF AND BRONCHIECTASIS:  
WHAT WORKS AND WHEN**

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11:00-12:20

**SPOKEN SESSION**

**WHAT'S IN A GENOTYPE? UNPICKING GENETIC LINKS IN  
COMPLEX DISEASE**

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11:00-12:25

**POSTER SESSION**

**BREAKING BARRIERS IN PULMONARY REHABILITATION  
AND PHYSIOTHERAPY**

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11:00-12:30

**SYMPOSIUM**

**COVID-19: WE PLANNED, WE DELIVERED, WHAT HAS  
CHANGED?**

Chaired by: Dr Kenneth Baillie (Edinburgh) and  
Dr Charlotte Summers (Cambridge)

- 1) Pandemic planning in critical care  
Professor Ramani Moonesinghe (London)
- 2) Non-invasive respiratory support in COVID-19: what have  
we learnt so far?  
Professor Gavin Perkins (Warwick)
- 3) Critical care rehabilitation during COVID-19: improving  
long term outcomes from critical care  
Dr Bronwen Connolly (Belfast)

**Learning objectives**

- 1) An understanding of national pandemic planning for  
COVID-19, including insights into NHS structure and  
management and a national quality improvement project.
  - 2) To understand the importance of non-invasive respiratory  
support in prevention of intubation in COVID-19 and the  
management of clinical trials during pandemic COVID-19.
  - 3) To understand the role of rehabilitation and follow up in critical  
illness in terms of improving acute outcomes from COVID-19  
and in the longer term.
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11:00-13:00

**SYMPOSIUM**

**TB: GLOBAL LESSONS FOR ALL!**

Chaired by: Professor Marc Lipman (London) and  
Professor Kevin Mortimer (Liverpool)

- 1) Patient perspective – living with TB  
Ingrid Schoeman (Pretoria)
  - 2) Hot topics in TB in the Global South – what we think the  
Global North needs to know  
Dr Stellah Mpagama (Tanzania)
  - 3) Hot topics in TB in the Global North – what we think the  
Global South needs to know  
Dr Esther Robinson (PHE)
  - 4) The competing global pandemics of COVID-19 and TB  
– what have we learned and where do we go from here?  
Dr Nim Arinaminpathy (London)
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**Learning objectives**

- 1) Hear perspectives from people and communities affected  
by TB in the UK and Global South.
  - 2) Share learning from TB experience and research in the  
Global South and North.
  - 3) Share learning about the impacts of COVID-19 on TB and  
vice versa and implications for the Stop TB agenda.
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13:00-13:45

**GUEST LECTURE**

**THE BTS CLINICAL LECTURE  
EARLY COPD COHORT DATA**

Professor Wisia Wedzicha (London)

Introduced by: Professor Jon Bennett (Leicester)

**Learning objective**

To learn what is “early COPD”, how we can more accurately predict  
who is at risk of developing COPD, and what potential treatment  
modalities might mitigate disease progression.

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14:00-14:50

**POSTER SESSION**

**VIRTUALLY PERFECT: REMOTE MEDICINE AND  
DIGITAL HEALTH**

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14:00-15:00

**POSTER SESSION**

**THE REAL-WORLD CARE OF COPD PATIENTS**

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14:00-15:30

**SYMPOSIUM**

**HIGHLIGHTS FROM JAMA AND THORAX**

*Details to be confirmed nearer to the time*

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14:00-15:30

**SYMPOSIUM**

**NON-TUBERCULOUS MYCOBACTERIA: TRANSLATING  
SCIENCE INTO CUTTING EDGE CARE**

Chaired by: Dr David Connell (Dundee) and  
Dr Clare Sander (Cambridge)

- 1) Which factors – host, microbial and environmental –  
determine the outcomes of NTM infections?  
Dr Jennifer Honda (Denver)
- 2) Results of the National NTM UK Survey of Practice and review  
of international data  
Dr Heinke Kunst (London)
- 3) Treating the untreatable: guideline-based approaches, and  
emerging therapies for NTM  
Dr Charles Haworth (Cambridge)

**Learning objectives**

- 1) To learn how cutting-edge laboratory techniques are informing  
our understanding of NTM disease and epidemiology.
  - 2) To learn what new therapies will be used in the next decade to  
treat complex NTM infections.
  - 3) To describe the current clinical care landscape for patients  
with NTM in the UK.
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14:00-15:30

**SYMPOSIUM**

**BTS AUDIT AND QUALITY IMPROVEMENT**

Chaired by: Professor Michael Steiner (Leicester)

- 1) Introduction to the BTS QI and Audit Programme  
Professor Michael Steiner (Leicester)
- 2) Pleural Services Organisational Audit  
Dr Matthew Evison (Manchester) and Dr Andrew Stanton (Newcastle upon Tyne)
- 3) 2021 Smoking Cessation Audit  
Dr Nikesh Devani (London) and Dr Matthew Evison (Manchester)
- 4) Update on the BTS 3-year Tobacco Dependency Project  
Dr Zaheer Mangera (London) and Ms Melanie Perry (BTS)

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14:00-15:30

**POSTER SESSION**

**COVID-19: CLINICAL FEATURES AND RISK**

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14:00-15:45

**POSTER SESSION**

**THE WIDER IMPACT OF THE PANDEMIC**

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16:00-17:30

**SYMPOSIUM**

**RECENT ADVANCES IN CF: WHAT'S RELEVANT TO OTHER DISEASES?**

Chaired by: Dr Maya Desai (Birmingham) and  
Dr Helen Rodgers (Glasgow)

- 1) Theranostics: personalised medicine guided by ex-vivo testing  
Dr Francois Vermeulen (Leuven)
- 2) Secondary CFTR dysfunction in chronic airways disease:  
a role for modulator drugs?  
Dr Steven Rowe (Alabama)
- 3) Telemedicine, digital monitoring and machine learning  
Professor Andres Floto (Cambridge)

**Learning objectives**

- 1) To appreciate the role of ex vivo organoid systems to predict drug responses in lung disease.
  - 2) To understand the potential for CFTR modulation in other lung diseases.
  - 3) To recognise how machine learning can predict clinical deteriorations and long-term clinical trajectories in CF and by extension other chronic lung diseases.
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16:00-17:45

**SYMPOSIUM**

**PLENARY SCIENTIFIC**

Chaired by: Professor Elizabeth Sapey (Birmingham) and  
Dr Chris Scotton (Exeter)

- 1) Disruptive optical technologies to advance respiratory medicine and critical care  
Dr Kevin Dhaliwal (Edinburgh)
- 2) COVID-19 pathogenesis: common themes and unique features  
Dr Ryan Thwaites (London)
- 3) Innate immune signatures in COVID-19 during acute disease and convalescence  
Dr Elizabeth Mann (Manchester)
- 4) 3D bioprinting airway and lung tissue for transplantation: hype or future therapy?  
Dr Darcy Wagner (Lund)

**Learning objectives**

- 1) To learn how molecular imaging has the potential to revolutionise the practice of medicine.
- 2) To learn about the features of the immune response to COVID-19 that contribute to pathogenesis.
- 3) To understand the balance needed for our innate immune system to clear infection, and then reduce by-stander damage in the context of COVID-19.
- 4) To learn about different approaches for 3D bioprinting tissue in the lab for disease modeling as well as for potential tissue transplantation.

## FRIDAY 26<sup>TH</sup> NOVEMBER 2021

08:00-08:30

### BTS JOURNAL CLUB

#### SLEEP

Dr Alanna Hare (London)

#### Learning objective

Something to wake up for! An update about the latest evidence in sleep medicine, including recently published studies.

08:30-09:50

### SPOKEN SESSION

#### GAZING THROUGH THE CRYSTAL BALL: PREDICTING OUTCOMES FROM COVID-19

08:30-09:50

### SPOKEN SESSION

#### A CUT ABOVE: AN UPDATE IN THORACIC SURGERY

08:30-09:50

### SPOKEN SESSION

#### UNDER PRESSURE: AN UPDATE IN PULMONARY VASCULAR DISEASE

08:30-10:00

### SYMPOSIUM

#### STATE OF THE ART PLEURAL DISEASE MANAGEMENT: LATEST EVIDENCE FROM UK TRIALS

Chaired by: Dr Eihab Bedawi (Oxford) and  
Laura McNaughton (Glasgow)

- 1) What is the optimal first line intervention for malignant pleural effusions? Results of the OPTIMUM study  
Dr Deepan Sivakumar (London)
- 2) What is the optimal first line management for benign organ failure pleural effusions? Results of the REDUCE study  
Dr Steven Walker (Bristol)
- 3) Optimising pleurodesis protocols – results of the SIMPLE study  
Dr John Corcoran (Plymouth)

#### Learning objectives

- 1) To understand the results and impact of an RCT comparing the impact on quality of life from indwelling pleural catheters versus Seldinger chest drain and talc slurry in patients with malignant pleural effusions.
- 2) To understand the results and impact of an RCT comparing indwelling pleural catheters versus standard care in benign pleural effusions.
- 3) To understand the results and impact of an RCT comparing ultrasound guided pleurodesis assessment protocol versus standard care following a talc pleurodesis.

08:30-10:00

### SYMPOSIUM

#### THE CHALLENGE OF MEDICINE NON-ADHERENCE IN RESPIRATORY DISEASE

Chaired by: Professor Anna Murphy (Leicester) and  
Dr Aashish Vyas (Preston)

- 1) Medicine adherence in severe asthma  
Grainne D'Ancona (London)
- 2) Managing non-adherence in adult patients with cystic fibrosis  
Dr Martin Wildman (Sheffield)
- 3) Will the use of SMART technologies revolutionise medicine adherence in asthma and COPD?  
Dr Richard Costello (Dublin)

#### Learning objectives

- 1) To discuss the complexities of non-adherence in people with respiratory disease.
- 2) To highlight how to monitor and address non-adherence in people with respiratory disease.
- 3) To discuss the evidence and use of smart inhaler technology in supporting people with managing their medicines.

08:30-10:00

### SYMPOSIUM

#### EXPLORING THE ILL-EXPLORED: IDENTIFYING OCCUPATIONAL RISK FACTORS FOR LUNG DISEASE

Chaired by: Dr Chris Barber (Sheffield) and  
Dr Jennifer Hoyle (Manchester)

- 1) Risk factors for COVID-19: occupation or preoccupation?  
Professor Andrew Curran (HSE)
- 2) IPF, smoking and asbestos exposure: is it all in the genes?  
Dr Carl Reynolds (London)
- 3) HP – screening for occupational and environmental causes: what is the pick up?  
Dr Hayley Barnes (Melbourne, Australia)

#### Learning objectives

- 1) To better understand how national research projects have helped our understanding of COVID-19 risk factors in the workplace.
- 2) To increase awareness of the role that genetic polymorphisms and historic environmental exposures play in IPF.
- 3) To review international consensus opinion on how we should screen HP patients for occupational and environmental causes.

08:30-10:05 **SPOKEN SESSION**  
**BIOLOGICS FOR ASTHMA**

10:30-11:30 **POSTER SESSION**  
**THINKING OUTSIDE THE LUNG: MONITORING AND MANAGEMENT OF PATIENTS WITH CF, PCD AND BRONCHIECTASIS**

10:30-11:45 **POSTER SESSION**  
**IMPROVING CARE PATHWAYS IN ADULTS AND CHILDREN**

10:30-11:50 **SPOKEN SESSION**  
**NEW INSIGHTS INTO AIRWAYS DISEASE**

10:30-12:00 **SYMPOSIUM**  
**A JOURNEY THROUGH CLOTS, COVID-19 AND CHRONIC THROMBOEMBOLIC DISEASE**

Chaired by: Dr Colin Church (Glasgow) and Professor David Kiely (Sheffield)

- 1) COVID-19 and its effects on the pulmonary vasculature: is it here forever?  
Dr Laura Price (London)
- 2) The spectrum of chronic thromboembolic disease: is it straight from PE to CTEPH?  
Professor Marion Delcroix (Leuven)
- 3) The changing landscape of management of chronic pulmonary thromboembolic disease  
Dr John Cannon (Cambridge)

**Learning objectives**

- 1) To document the molecular pathways involved in COVID-19 related pulmonary vascular disease and highlight the clinical effects and strategies to try and mitigate those.
- 2) The molecular mechanisms which are implicated in the transition for acute PE to chronic thromboembolic pulmonary disease and then to CTEPH are discussed. The entity of CTEPD is defined and explored further from a clinical perspective.
- 3) Recent developments in the management of chronic thromboembolic disease are discussed. This includes evolving roles of surgery and balloon pulmonary angioplasty and pre-treating with pulmonary vasodilators.

10:30-12:00 **SYMPOSIUM**  
**LATEST ADVANCES IN IMMUNOTHERAPY FOR LUNG AND PLEURAL MALIGNANCY**

Chaired by: Dr Richard Lee (London) and Dr Selina Tsim (Glasgow)

- 1) Latest developments in immunotherapy for treatment of lung cancer  
Dr Yvonne Summers (Manchester)
- 2) Dual immunotherapy: a new standard of care in mesothelioma? Discussion of the Checkmate 743 Study  
Professor Sanjay Popat (London)
- 3) IO pneumonitis: differential diagnosis, investigation and management  
Dr Jaishree Bhosle (London)

**Learning objectives**

- 1) Appreciating the rapid advances in IO for lung cancer treatment.
- 2) Latest trial evidence for IO in mesothelioma.
- 3) Managing challenging and life-threatening complications.

10:30-12:05 **SPOKEN SESSION**  
**FROM BENCH TO LUNG: SCIENTIFIC ADVANCES IN RESPIRATORY RESEARCH**

10:30-12:15 **POSTER SESSION**  
**COVID-19 RECOVERY: PREDICTING LONG TERM OUTCOMES**

12:30-13:15 **GUEST LECTURE**  
**THE BTS GRAND CHALLENGE LECTURE CHILD POVERTY AND HEALTH INEQUALITIES**

Professor Dave Gordon (Bristol)

Introduced by: Rachael Moses

**Learning objective**

The COVID-19 pandemic has highlighted the impact of health inequalities both nationally and globally, especially for children. This lecture will outline changing trends in child poverty, and what measures can be taken to 'level up' our society.

13:30-14:40 **POSTER SESSION**  
**ASSESSING, MANAGING AND PREDICTING OUTCOMES IN ILD**

13:30-14:40 **POSTER SESSION**  
**NEW TREATMENT PATHWAYS IN THE POST-COVID-19 ERA**

13:30-14:50 **SPOKEN SESSION**  
**EASE THAT WHEEZE: MANAGING RISK IN COPD**

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13:30-14:55 **POSTER SESSION**  
**TOPICS IN THORACIC MALIGNANCIES**

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13:30-14:55 **POSTER SESSION**  
**PERSPECTIVES ON EDUCATION, TRAINING AND RESEARCH COLLABORATIVES**

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13:30-15:00 **SYMPOSIUM**  
**PULMONARY INFECTION HORIZON-SCANNING: WHAT COULD GO WRONG NOW?**

Chaired by: Professor Alison Condliffe (Sheffield) and Dr Anand Shah (London)

- 1) The global emergence of antifungal resistance: the calm before the storm?  
Professor Matthew Fisher (London)
- 2) Precision medicine in infectious disease: is a system genomic approach the answer?  
Dr Myrsini Kaforou (London)
- 3) Accelerated immune ageing in severe COVID-19 infection  
Dr Niharika Duggal (Birmingham)

**Learning objectives**

- 1) Insight into the rapid global spread of antifungal resistance and the use of whole genome sequencing to identify mechanism of evolution. Awareness of novel diagnostics in development for rapid detection and implications for therapeutic options.
  - 2) Understand how a system genomic approach can be used to define specific pathway defects in infectious disease and primary immunodeficiency. Insight into how this can translate into novel precision medicine therapy.
  - 3) Understand the long term (3 months post infection) impact of severe and moderate COVID-19 infection on the immune ageing clock. Insight into anti-viral immune responses post infection.
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13:30-15:30 **SYMPOSIUM**  
**THE ASTHMA SCIENCE SYMPOSIUM: DEEP PHENOTYPING INTO ACTIONABLE INSIGHTS**

Chaired by: Dr Tara Sutherland (Manchester) and Professor Sebastian Johnston (London)

- 1) Targeting treatable traits in severe asthma  
Professor William Busse (Wisconsin)
- 2) The human lung cell atlas: mapping cell types to tissues context  
Dr Kerstin Meyer (Cambridge)
- 3) Asthma and the microbiome  
Dr Geraint Rogers (Adelaide)
- 4) Asthma and COVID-19: comparing rhinovirus and SARS-CoV2  
Professor Sebastian Johnston (London)

**Learning objectives**

- 1) To understand how to focus asthma treatments in severe disease based by biological signals.
  - 2) To learn how novel methodologies have identified new cell types and how this might lead advances in clinical care.
  - 3) To understand the relationship between the lung microbiome and outcomes in asthma.
  - 4) To compare the impact and biology of SARS-CoV2 and rhinovirus infections in asthma.
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15:15-17:15 **SYMPOSIUM**  
**MACHINE LEARNING AND DATA SCIENCE TO IMPROVE PATIENT CARE**

Chaired by: Dr Joseph Jacob (London) and Dr Muhunthan Thillai (Cambridge)

- 1) Computer science  
Professor Daniel Alexander (London)
- 2) Lung nodules  
Dr Colin Jacobs (Nijmegen)
- 3) ILAs and the potential implications for AI/ML  
Dr Rachel Putman (Boston)
- 4) Parametric response mapping in COPD  
Dr George Washko (Cambridge, Massachusetts)

**Learning objectives**

- 1) An introduction to AI and ML for the respiratory physician.
  - 2) Understand the application of ML in the detection and monitoring of pulmonary nodules.
  - 3) Understand the application of ML in assessing and monitoring ILA.
  - 4) Understand the application of ML in the diagnosis, prognostication and monitoring of COPD.
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15:30-16:30 **POSTER SESSION**  
**FIGHTING BACK: OPTIMISING TREATMENT FOR COVID-19**

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15:30-16:40 **POSTER SESSION**  
**PERSPECTIVES ON PLEURAL DISEASE**

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15:30-16:45 **POSTER SESSION**  
**ASTHMA: PHENOTYPING AND THE RESPONSE TO BIOLOGICS**

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15:30-16:55 **POSTER SESSION**  
**OXYGEN, CPAP, NIV OR ICU: WHAT WORKS IN COVID-19?**

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15:45-17:30 **SYMPOSIUM**  
**TO VAPE OR NOT TO VAPE, THAT IS THE QUESTION**

Chaired by: Dr Nazia Chaudhuri (Manchester) and  
Dr Aaron Scott (Birmingham)

- 1) Acute effects of e-cigarettes on the innate immune response  
Dr Aaron Scott (Birmingham)
- 2) E-cigarette constituents propylene glycol and vegetable glycerin, decrease glucose uptake and its metabolism in airway epithelial cells in vitro  
Professor Deborah Baines (London)
- 3) Cochrane review of e-cigarettes for smoking cessation  
Dr Jamie Hartmann (Oxford)
- 4) How close are we to definitively identifying the respiratory health effects of e-cigarettes?  
Dr Maciej Goniewicz (New York)

#### **Learning objectives**

- 1) Are e-cigarettes effective as a cessation therapy?
- 2) Discuss the immunological effects of e-cigarettes use.
- 3) Discussion of non-nicotine e-cigarette effects in the context of metabolism.
- 4) Based on cohort studies carried out by Dr Goniewicz, how close are we now to quantifying the effects of e-cigarette use?

## **FUTURE BTS MEETINGS**

### **Summer Meeting 2022**

23<sup>rd</sup> & 24<sup>th</sup> June, Manchester

### **Winter Meeting 2022**

23<sup>rd</sup> to 25<sup>th</sup> November, London



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