



**WINTER MEETING 2022**



## Symposia Programme and Conference Information

**WEDNESDAY 23<sup>RD</sup> TO FRIDAY 25<sup>TH</sup> NOVEMBER**

**QEII CENTRE, LONDON**

Abstract submission deadline: 23:59 on 30<sup>th</sup> June 2022

Early bird discount deadline: 23:59 on 3<sup>rd</sup> October 2022

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 preliminary programme of named lectures and major symposia for the 2022 BTS Winter Scientific Meeting, which will be held **onsite at the QEII Centre in London**.

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 healthcare 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.

The next programme update will be at the end of August 2022, when the abstracts have been refereed and the spoken and discussed poster sessions are pulled together.

The Winter Scientific Meeting remains the highlight of our professional calendar and we are all really looking forward to returning to the QEII Centre for our first face-to-face Winter Meeting since 2019. Being back onsite will provide ample opportunity for those one-to-one interactions with clinicians, allied health professionals and scientific colleagues from within the UK and abroad, that have been missed so much over the past couple of years.

The spoken and poster abstract sessions also provide great platforms for sharing the most up-to-date advances and they remain vitally important components of the Meeting. I would encourage you to submit your very best work for presentation, as this will generate the most productive interactions. Submission of abstracts opens in May and the deadline is 23:59 on 30<sup>th</sup> June 2022.

I look forward to welcoming you to the Winter Meeting and back to London in November 2022.

Yours faithfully



**Professor James Chalmers**  
**Chair, BTS Science and Research Committee**



## **BTS SCIENCE AND RESEARCH COMMITTEE MEMBERS – THE 2022 WINTER MEETING PLANNING COMMITTEE:**

Professor James Chalmers (Chair)	Dr Rebecca D’Cruz	Dr Karl Staples
Professor Mona Bafadhel	Professor Andres Floto	Dr Aashish Vyas
Dr Nazia Chaudhuri	Dr Akhilesh Jha	Dr Steven Walker
Professor Jane Davies	Dr Neelam Kumar	Dr Thomas Ward

## **GENERAL INFORMATION**

### **CONFERENCE ORGANISATION**

The Winter Meeting is organised by the British Thoracic Society. Please direct all general conference enquiries via email to: [bookings@brit-thoracic.org.uk](mailto:bookings@brit-thoracic.org.uk)

### **FULL PROGRAMME**

The full programme, including all Spoken Sessions and Poster Discussions, will be available on the BTS website from early September, once abstracts have been refereed.

The complete Final Programme, including abstracts, is published as a supplement to *Thorax* and will be available to all participants in advance of the Meeting on the BTS website: [www.brit-thoracic.org.uk](http://www.brit-thoracic.org.uk)

### **THE VENUE**

The QEII Centre is located at Broad Sanctuary Westminster, London, SW1P 3EE, opposite Westminster Abbey. For directions, please visit: [qeicentre.london/about/location](http://qeicentre.london/about/location)

### **SUBMISSION OF ABSTRACTS**

The final date for submission of abstracts for the 2022 Winter Meeting is **23:59 on Thursday 30<sup>th</sup> June 2022**, but you are encouraged to submit abstracts as early as possible before that date. The easy-to-use online submission system is available on the BTS website at [www.brit-thoracic.org.uk](http://www.brit-thoracic.org.uk). You will need to register first to use the system and then follow the instructions to submit your abstract online in a convenient and quick operation.

### **BTS/BALR/A+LUK EARLY CAREER INVESTIGATOR OF THE YEAR AWARDS**

BTS, BALR and A+LUK jointly offer awards to help the careers of the most promising early career investigators carrying out original research in respiratory medicine and respiratory science during the past year. To qualify for consideration, you must be a UK based clinical or non-clinical researcher, usually under the age of 35\* (but not consultant or senior lecturer grade), and the first named author of the abstract being submitted to the Winter Meeting. There will be three first prizes of £800 and three prizes of £200 for runners up.

\*Applicants will normally be under 35 years of age, although there will be some researchers who have taken career breaks and the Society encourages them to apply also. Please visit the BTS website for further details and submit via the abstract system.

### **BTS MEDICAL STUDENT AWARDS**

These prestigious prizes are highly competitive and are awarded to the very best basic, translational or clinical research performed in the UK respiratory community by medical students. The prizes are awarded based on the quality and content of the research performed, and the quality of the abstract submitted. Please visit the BTS website for further details and make your submission via the online abstract system.



## 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.

## ATTENDANCE CERTIFICATES

Instructions for generating certificates will be sent to all registered delegates after the event.

## AWARD PRESENTATIONS

The presentation of awards will take place in the Churchill Auditorium on the ground floor of the venue, at 4.15pm on Wednesday 23<sup>rd</sup> November. These presentations will include the BTS Medal, BTS Award for Meritorious Service, BTS Medical Student Prizes and the BTS/BALR/A+LUK Early Career Investigator of the Year Awards.

## PRESIDENT'S RECEPTION

The President's Reception will be held on Thursday 24<sup>th</sup> November from 5.45pm to 7.00pm in the Britten lounge on the 3<sup>rd</sup> floor of the venue. All those attending the Winter Meeting are warmly invited to attend this informal social occasion and enjoy light refreshments in convivial surroundings. Although the reception is free to attend, for catering purposes we do need to know the numbers attending, so please indicate this on the registration form.

## HOTEL ACCOMMODATION

MICE Concierge have been appointed as the official accommodation and concierge service for the Winter Meeting. MICE Concierge offer a complete solution for travel and accommodation, offering exclusive discounted hotel rates at carefully selected event hotels. Please contact MICE Concierge direct for all accommodation enquiries. Please note that BTS is unable to assist with any accommodation bookings or queries.

**Tel:** 01483 908 770

**Email:** [hello@miceconciierge.com](mailto:hello@miceconciierge.com)

**Website:** [www.miceconciierge.com/BTSWinter2022](http://www.miceconciierge.com/BTSWinter2022)



#BTSWinter2022

**The British Thoracic Society gratefully acknowledges sponsorship from the under listed companies, through the purchase of exhibition space at the Winter Meeting 2022. 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.**

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Pari Medical

Pulmonx

Rocket Medical

Sandoz

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Trudell

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Vygon

## DATES OF FUTURE BTS MEETINGS

### Summer Meeting 2023

22<sup>nd</sup> & 23<sup>rd</sup> June, Manchester

### Winter Meeting 2023

22<sup>nd</sup> to 24<sup>th</sup> November, London

# PROGRAMME OF MAJOR SYMPOSIA

## WEDNESDAY 23<sup>RD</sup> NOVEMBER 2022

8.00am – 8.30am **JOURNAL CLUB**

### CRITICAL CARE

Dr Bronwen Connolly (Belfast)

#### Learning objectives

- To learn the latest evidence for interventions in critically ill patients.
- To learn the unique challenges and opportunities in critical care research.

So that delegates may review the papers to be presented in advance, the relevant references will be available on the BTS website and Winter Meeting app, in early November.

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8.30am – 10.30am **SYMPOSIUM**

### JOINT BTS/BALR SYMPOSIUM PART 1 – SEVEN AGES OF THE LUNG: IN THE BEGINNING...

Chaired by: Dr Amanda Tatler (Nottingham) and Dr Owen Tomlinson (Exeter)

- 1) Beyond the map: uncharted regions in the human lung and their implications to human lung regeneration and disease  
Dr Purushothama Rao Tata (Durham, North Carolina)
- 2) Bringing the outside in: assessing environmental impacts on development  
Dr Renata Jurkowska (Cardiff)
- 3) Only as good as the foundation: impact of matrix remodelling on asthma development  
Dr Hans Michael Haitchi (Southampton)

#### Learning objectives

- This symposium will open with an overview of the new cell types that have been discovered, particularly progenitor and stem cells, and the role these cells play in lung development.
- The session will continue by discussing how environmental exposures can alter the epigenetic programming of these cells, leading to the development of lung disease.
- Finally, the session will conclude by highlighting the mechanisms by which asthma may develop in utero as a result of the activation of catalytic proteins such as ADAM33.

8.45am – 10.15am **SYMPOSIUM**

### EOSINOPHILS IN THE LUNG: WHAT DO THEY DO AND WHAT CAN WE DO?

Chaired by: Professor Rekha Chaudhuri (Glasgow) and Dr Rocio Martinez-Nunez (London)

- 1) The role of eosinophils in health and disease  
Professor Florence Roufosse (Brussels)
- 2) Applying the eosinophil in airways disease  
Dr David Jackson (London)
- 3) EGPA: old disease, new treatment  
Professor Michael Wechsler (Denver, Colorado)

#### Learning objectives

- Novel insights into eosinophil biology, their recruitment and activation in the lung in health and different diseases.
- Clinical and molecular insights into the roles played by eosinophils in asthma, COPD and bronchiectasis and impact of treatment strategies targeting eosinophils in these disease areas.
- Update on EGPA: impact of novel treatments on clinical course and underlying inflammatory pathways.

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8.45am – 10.15am **SYMPOSIUM**

### BEYOND CFTR MODULATION

Chaired by: Dr Jamie Duckers (Cardiff) and Dr Nicola Robinson (Edinburgh)

- 1) The future of small molecule therapy for CF  
Dr Jennifer Taylor-Cousar (Denver, Colorado)
- 2) Alternative chloride channel therapies  
Professor Robert Tarran (Chapel Hill, North Carolina)
- 3) A US take on gene/cellular therapy  
Professor JP Clancy (Cincinnati)

#### Learning objectives

- To understand the current state of the art in terms of small molecule therapy for cystic fibrosis and future therapeutic approaches.
- To learn about the therapeutic approaches to restore airway surface liquid by modulating other ion channels, approaches that could have wider application to CF and other inflammatory lung diseases.
- To understand the approaches taken through the US Cystic Fibrosis Foundation initiatives in gene therapy and cellular therapy to target CF mutations that are untreatable with current small molecules.

10.45am – 12.15pm **SYMPOSIUM**

**COPD: PIECING TOGETHER THE JIGSAW**

Chaired by: Professor Charlotte Bolton (Nottingham) and Dr Sanjay Ramakrishnan (Oxford)

- 1) Laying out the pieces: latest cell science in COPD  
Professor Louise Donnelly (London)
- 2) Seeing the wider picture: improved stratification using imaging  
Professor Eric Hoffman (Iowa)
- 3) Fitting the pieces: phenotyping the patient for the treatment options  
Professor Christopher Brightling (Leicester)

**Learning objectives**

- A bench to bedside approach in the current state of COPD research and clinical practice.
- To update on the leading advances in imaging and how imaging and AI could personalise further COPD care.
- Recent RCTs using both repurposed and novel compounds have advanced our understanding of therapeutic targets, even if not all of them have been resoundingly positive. A clearer focus on phenotyping the patient for the right treatment.

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10.45am – 12.15pm **SYMPOSIUM**

**DO THE RIGHT THING: PERSONALISED CARE IN TUBERCULOSIS**

Chaired by: Dr Lucy Baker (London) and Dr Richard Ward (London)

- 1) Treatment shortening in drug sensitive TB: can everyone go low?  
Professor Susan Dorman (South Carolina)
- 2) The science behind therapeutic drug monitoring in TB  
Professor Rob Aarnouste (Nijmegen, The Netherlands)
- 3) How infectious are people with TB? New insights and new approaches  
Dr Caroline Williams (Leicester)

**Learning objectives**

- To discuss new data regarding novel regimens, treatment short-courses and their application to people with drug sensitive TB disease.
- To explore the scientific basis of therapeutic drug monitoring during treatment for TB, and whether it adds value to clinical management.
- To review the potential for rapid determination of individual infectivity as an aid to TB control management.

11.00am – 1.00pm **SYMPOSIUM**

**JOINT BTS/BALR SYMPOSIUM PART 2 – SEVEN AGES OF THE LUNG: WEAR, TEAR AND REPAIR?**

Chaired by: Dr Alison John (London) and Dr Karl Staples (Southampton)

- 1) The ticking clock: biomarkers of ageing in the human lung  
Dr Maaïke de Vries (Groningen)
- 2) Partners in crime? Role of lung bacteria  
Professor Julie Morrissey (Leicester)
- 3) Can we fix it? Possibilities for lung regeneration  
Dr Marko Nikolic (London)

**Learning objectives**

- The first presentation will discuss mechanisms of normal lung ageing and the abnormal ageing processes that are associated with COPD.
- We will then discuss the often-overlooked role of resident bacteria in response to environmental exposures such as pollution and how these responses may modulate host-pathogen interactions to promote airway colonisation impact on lung disease.
- Finally, this symposium will end with an overview of the new cell types that have been discovered, particularly progenitor and stem cells, and the role these cells may play in lung repair and regeneration.

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1.00pm – 1.45pm **GUEST LECTURE**

**THE BTS SCIENTIFIC LECTURE**

Professor Marc Humbert (Paris & ERS President)

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2.15pm – 3.45pm **SYMPOSIUM**

**HIGHLIGHTS FROM THORAX**

*To be confirmed nearer to the event*

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2.15pm – 3.45pm **SYMPOSIUM**

**JOINT BTS/BALR/A+LUK EARLY CAREER INVESTIGATOR SYMPOSIUM**

Judged by: Professor James Chalmers (Dundee), Dr Karl Staples (Southampton) and Professor Louise Wain (Leicester)

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 British Thoracic Society, British Association for Lung Research and Asthma + Lung UK.

Abstract submission is open until 23:59 on 30<sup>th</sup> June 2022.

See [www.brit-thoracic.org.uk](http://www.brit-thoracic.org.uk) for details.

2.15pm – 3.45pm **SYMPOSIUM**

**JOINT BTS/BPRS SYMPOSIUM – PAEDIATRIC ASTHMA:  
TIME TO JOIN UP THE DOTS**

Chaired by: Dr Ann McMurray (Edinburgh) and  
Dr Katy Pike (Bristol)

- 1) Delivering optimal care for children with asthma: barriers and opportunities  
Dr Matthew Clark (Eastbourne)
- 2) Management of paediatric asthma: are we being SMART enough?  
Dr Liesbeth Duijts (Rotterdam)
- 3) Eosinophils: friend or foe?  
Professor Sejal Saglani (London)

**Learning objectives**

- To gain an understanding of CYP asthma management and outcomes in the UK.
- To explore initiatives to improve asthma care for CYP.
- To discuss the use of anti-inflammatory reliever (AIR) therapies in CYP.
- To review the current evidence for AIR in children and understand the evidence gaps.
- To consider the role of the eosinophil in respiratory disease and understand the risks and benefits of strategies to block eosinophils.

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4.15pm – 4.30pm **BTS AWARD PRESENTATIONS**

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4.30pm – 5.15pm **BTS PRESIDENT'S ADDRESS**

Professor Onn Min Kon (London)

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5.25pm – 6.05pm **BTS ANNUAL GENERAL MEETING**  
(BTS members only)

## THURSDAY 24<sup>TH</sup> NOVEMBER 2022

8.00am – 8.30am **JOURNAL CLUB**

### **COPD TRIALS**

Professor Tony de Souza (Newcastle upon Tyne)

#### **Learning objectives**

- To learn about the latest evidence for the management of COPD.
- To learn about the optimal conduct and delivery of clinical trials in COPD.

So that delegates may review the papers to be presented in advance, the relevant references will be available on the BTS website and Winter Meeting app, in early November.

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8.45am – 10.15am **SYMPOSIUM**

### **KEY UPDATES IN THE WORLD OF PULMONARY VASCULAR MEDICINE**

Chaired by: Dr Colin Church (Glasgow) and  
Dr Rachel Davies (London)

- 1) COVID-19 endotheliitis and pulmonary thromboembolism: what is new and how do we treat it?  
Dr Robin Condliffe (Sheffield)
- 2) Post-PE syndrome: definition, pathophysiology and how do we manage it?  
Professor Erik Klok (Leiden)
- 3) Treatments for hypoxic lung disease PH: do we finally have some?  
Dr Steven Nathan (Falls Church, Virginia)

#### **Learning objectives**

- To discuss the clinical and biological significance of pulmonary vascular involvement in COVID-19.
- To understand the definition, pathophysiology and management of patients post-PE
- To raise awareness of new advances and remaining limitations in the understanding and management of patients with Group 3 pulmonary hypertension

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8.45am – 10.15am **SYMPOSIUM**

### **"LATE BREAKING"**

*To be confirmed closer to the time*

8.45am – 10.15am **SYMPOSIUM**

### **HOW DO WE DEVELOP THE RESPIRATORY NURSE LEADERS OF THE FUTURE? THE IMPACT OF THE TEAM, ORGANISATIONAL CULTURE AND EDUCATION**

Chaired by: Dr Kate Lippiett (Southampton) and  
Wendy Preston (Royal College of Nursing)

- 1) How can the new CNO's (England) plan for research help empower respiratory nurses and teams to be more involved in research?  
Professor Ruth Endacott (NIHR)
- 2) What can a global nurse respiratory curriculum contribute to the development of respiratory nursing?  
Dr Carol Kelly (Edge Hill)
- 3) Do we adequately prepare pre-registration nurses for a potential career in respiratory? A review of UK pre-registration respiratory skills and curriculum  
Dr Nicola Roberts (Glasgow)

#### **Learning objectives**

- To inspire nurses to get involved in research and highlight the recent CNO strategy for research for nurses and the opportunities for those working in respiratory clinical areas.
- Provide an overview of what a global respiratory nurse curriculum can contribute to the development of respiratory nursing.
- Provide an understanding on what nursing students are being taught about respiratory care and clinical respiratory skills.

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10.45am – 12.15pm **SYMPOSIUM**

### **PLENARY SCIENTIFIC SYMPOSIUM**

Chaired by: Professor James Chalmers (Dundee) and  
Professor Elizabeth Sapey (Birmingham)

- 1) Airways disease  
Professor Mona Bafadhel (Oxford)
- 2) Genetics  
Professor Louise Wain (Leicester)
- 3) Macrophages in chronic lung disease  
Dr Adam Byrne (London)
- 4) Translational critical care  
Professor Manu Shankar-Hari (Edinburgh)

#### **Learning objectives**

- Understanding of how eosinophilic airways disease can be identified and treated across the spectrum of airways disease.
- Learning about the genetic underpinnings of complex chronic respiratory diseases such as idiopathic pulmonary fibrosis, COPD and COVID-19.
- Learning about the role of macrophages in the pathophysiology of chronic respiratory disease.
- Understanding the role of precision medicine in guiding therapies for critically ill patients.



1.00pm – 1.45pm **GUEST LECTURE**  
**THE BTS CLINICAL LECTURE**  
Professor Sir Jonathan Van-Tam (Nottingham)

2.15pm – 3.45pm **SYMPOSIUM**  
**STOP NORMALISING POVERTY: HOW CAN AFRICAN CHILDREN ACHIEVE THEIR TRUE LUNG HEALTH POTENTIAL?**

Chaired by: Dr Amsalu Bekele Binegdie (Addis Ababa) and Dr Johanna Feary (London)

- 1) This story started long, long ago: the legacy of poor lung health across the generations  
Professor Refiloe Masekela (South Africa)
- 2) In the beginning, there was fire: but is this the “killer in the kitchen” or just smoke and mirrors?  
Professor Kevin Mortimer (Liverpool)
- 3) Taking turns to breathe the same air: why the air in Africa matters to us all and to the health of our planet  
Dr Gabriel Okello (Uganda)

#### Learning objectives

- Discuss early life determinants of lung health centred around air pollution exposures in Africa.
- Discuss controversies around the role of household air pollution in causing lung disease in children and adults.
- Discuss air quality and lung health in Africa and the UK in the context of the new WHO air quality recommendations.

2.15pm – 3.45pm **SYMPOSIUM**  
**NEW TREATMENTS FOR CHRONIC COUGH**

Chaired by: Claire Slinger (Preston) and Dr Richard Turner (London)

- 1) The cough reflex and hypersensitivity  
Professor Jacky Smith (Manchester)
- 2) Speech therapy treatment for cough hypersensitivity  
Jennifer Butler (Newcastle upon Tyne)
- 3) New drugs for cough hypersensitivity  
Dr Paul Marsden (Manchester)

#### Learning objectives

- ‘Deep dive’ into the current science of cough. Particular focus on cough reflex physiology and cough hypersensitivity.
- Non pharmacological approaches, usually delivered by SALT are very effective for managing cough. Update on evidence and what is involved. Particular focus on developing clinical services, the role of AHP’s in the respiratory MDT and development of speech therapy ‘upper airway’ service to support respiratory medicine.
- Update the audience on current antitussives and on the current state of play with novel antitussives, in particular P2X receptor antagonists that are currently being reviewed by the FDA and NICE.

2.15pm – 3.45pm **SYMPOSIUM**  
**IMPROVING UPTAKE OF PULMONARY REHABILITATION: A PATIENT-CENTRED APPROACH**

Chaired by: Lucy Gardiner (Birmingham) and Dr Claire Nolan (London)

- 1) Service user perspectives of factors influencing pulmonary rehabilitation uptake  
Dr Jane Watson (London)
- 2) Improving pulmonary rehabilitation uptake: are remote models the answer?  
Dr Linzy Houchen-Wolloff (Leicester)
- 3) Real world strategies for improving uptake of pulmonary rehabilitation  
Professor Keir Lewis (Swansea)

#### Learning objectives

- To understand some of the potential barriers to PR uptake.
- To determine the evidence base for remote models of PR.
- To demonstrate some real-world attempts to improve PR uptake.

4.15pm – 5.45pm **SYMPOSIUM**  
**WHAT’S HOT IN ILD?**

Chaired by: Dr Anjali Crawshaw (Birmingham) and Dr Simon Hart (Hull)

- 1) Genetic profiling in IPF. Is it all about MUC5B?  
Dr Justin Oldham (Sacramento)
- 2) Needle in a haystack: how do we find a biomarker for lung fibrosis?  
Professor Gisli Jenkins (London)
- 3) Pulmonary hypertension with ILD: how do we treat?  
Dr Sheila Ramjug (Manchester)

#### Learning objectives

- Understand genetic contribution to ILD and IPF and discuss the complex interplay between genes, ageing and tendency to develop ILD. Furthermore, it would be important to know if airway related genes are significantly more important than matrix genes and if we are approaching an era where personalised therapy is going to be offered in IPF/ILD.
- Appreciate the emerging biomarkers in ILD
- Since the licence of inhaled Treprostinil in PH-ILD (in USA by FDA), it is very timely that we discuss the state of play here in the UK as there are many patients with the condition and would benefit from therapy.

4.15pm – 5.45pm

**SYMPOSIUM**

**JOINT BTS/BPRS SYMPOSIUM – BACK TO THE FUTURE:  
WHERE NOW FOR DIGITAL HEALTHCARE?**

Chaired by: Dr Louise Fleming (London) and  
Professor Dominick Shaw (Nottingham)

- 1) Technology dependent children: past, present and future  
Professor Heather Elphick (Sheffield)
- 2) The virtual ward and oximetry at home: a life beyond  
COVID-19?  
Professor Matthew Inada-Kim (Eastbourne)
- 3) Telemonitoring: opportunities, pitfalls and ethical challenges  
Dr David Drummond (Paris)

**Learning objectives**

- To gain an understanding of the number of children on LTV and trends over time.
- To discuss transition of children and young people on LTV and the impact on adult services.
- To explore how some of the innovations in remote monitoring developed for COVID-19 could be extended to a wider range of respiratory diseases.
- To discuss some of the ethical and logistical challenges of remote monitoring.
- To explore the development and further implementation of telemonitoring.

## FRIDAY 25<sup>TH</sup> NOVEMBER 2022

8.00am – 8.30am **JOURNAL CLUB**

### COVID-19 AND RESPIRATORY INFECTIONS

Dr Andrea Collins (Liverpool)

#### Learning objectives

- To update on the latest evidence for the management of patients with COVID-19.
- To discuss preventative strategies for severe respiratory infections.

So that delegates may review the papers to be presented in advance, the relevant references will be available on the BTS website and Winter Meeting app, in early November.

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8.30am – 10.00am **SYMPOSIUM**

### RESPIRATORY PHYSIOLOGY IN 2022: INNOVATIONS AND EVOLUTION

Chaired by: Julie Lloyd (Birmingham) and  
Joanna Shakespeare (Coventry)

- 1) Defining normal: insights from the Global Lung Initiative  
Professor Brendan Cooper (Birmingham)
- 2) AI in respiratory physiology  
Dr William Man (London)
- 3) New approaches to remote diagnosis and monitoring  
Dr James Hull (London)

#### Learning objectives

- To understand the effect of the Global Lung Initiative on defining abnormal spirometric values.
- To recognise the potential use of artificial intelligence in respiratory physiology.
- To summarise recent advances in remote diagnosis and monitoring of respiratory disease.

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8.30am – 10.00am **SYMPOSIUM**

### CT SCREENING FOR LUNG CANCER: THE NEXT STEPS

Chaired by: Dr Neal Navani (London) and  
Dr Emma O'Dowd (Nottingham)

- 1) Alternatives and adjuncts to CT screening for early lung cancer  
Professor Robert Rintoul (Cambridge)
- 2) Screening inequities – a time and a place  
Dr Samantha Quaife (London)
- 3) Challenges and opportunities in CT screening implementation  
Professor David Baldwin (Nottingham)

#### Learning objectives

- To gain an understanding of the additional screening modalities in development for lung cancer and how these might fit in to a national screening programme.
- To explore the barriers to participation in a national screening programme.
- To explore the challenges and opportunities a national screening programme may present.

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8.30am – 10.00am **SYMPOSIUM**

### MISTAKEN IDENTITIES: WHEN MIGHT EXPOSURES AT WORK BE KEY?

Chaired by: Dr Huda Badri (Manchester) and  
Dr Gareth Walters (Birmingham)

- 1) Phenotyping severe occupational asthma  
Professor Frédéric de Blay (Strasbourg)
- 2) How does a chemical get labelled as a respiratory sensitiser?  
Professor Paul Cullinan (London)
- 3) Workplace outbreaks of COVID-19: what do we know and what can we do?  
Dr Sarah Beale (London)

#### Learning objectives

- Understand the different phenotypes of patients with severe occupational asthma.
- Understand modifiable risk factors for severe OA.
- Understand the evidence required to identify a chemical as a new respiratory sensitiser in the context of EU Regulations for the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).
- Discuss the controversies around the legislation and regulation relating to labelling chemicals as new respiratory sensitisers.
- Discuss the relative contributions to mortality from work and non-workplace factors.
- Understand how SARS-CoV-2 seropositivity varies across occupations.
- Discuss factors within a workplace that contribute to transmission of SARS-CoV-2 infection.

10.30am – 12.00pm **SYMPOSIUM**

**PLEURAL INFECTION IN 2022: CHALLENGING THE STATUS QUO**

Chaired by: Sarah Johnstone (Leicester) and  
Dr Eleanor Mishra (Norwich)

- 1) New insights into the microbiome of pleural infection  
Dr Nikolaos Kannelakis (Oxford)
- 2) Refining diagnostics and antibiotic management  
Dr David Arnold (Bristol)
- 3) Fibrinolytics versus surgery: insights from the MIST-3 study  
Dr Eihab Bedawi (Oxford)

**Learning objectives**

- To gain a deeper understanding of the pathogens contributing to the development of pleural infection.
- To explore novel biomarkers of diagnosis and rationalise current antibiotic strategies.
- To explore the roles of fibrinolytics and surgery in the management of pleural infection.

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10.30am – 12.00pm **SYMPOSIUM**

**ASTHMA: IS IT ALL ABOUT BIOLOGICS?**

Chaired by: Dr Andrew Hearn (London) and  
Dr Hitasha Rupani (Southampton)

- 1) A scientific review of poor/partial biological response and how we interpret and manage this clinically  
Professor Celeste Porsbjerg (Copenhagen)
- 2) Barriers to remission: age, gender, ethnicity, social and health  
Professor Liam Heaney (Belfast)
- 3) Air pollution and environmental challenges and asthma: a review and take-home messages for clinical delivery  
Dr Paul Pfeffer (London)

**Learning objectives**

- An insight into our understanding of biologic response and potential underlying mechanisms that underlie super response versus poor response to biologic therapy with an introduction to asthma remission.
- Understand the impact of these non-modifiable factors on asthma control by discussing recent outputs from the UK Severe Asthma Registry.
- Provide an oversight into the links between air pollution and asthma development and control: from bench to bedside to the air.

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12.30pm – 1.15pm **GUEST LECTURE**

**THE BTS GRAND CHALLENGE LECTURE**

Dr Soumya Swaminathan (WHO)

1.30pm – 3.00pm **SYMPOSIUM**

**PRECISION MEDICINE FOR BRONCHIECTASIS**

Chaired by: Dr Holly Keir (Dundee) and  
Dr Anita Sullivan (Birmingham)

- 1) Microbiome-host interactions in bronchiectasis  
Professor Sanjay Chotirmall (Singapore)
- 2) Airway clearance: how do we measure benefit?  
Professor Judy Bradley (Belfast)
- 3) New developments with inhaled antibiotics  
Dr Charles Haworth (Cambridge)

**Learning objectives**

- To understand the role of bacteria, fungi and viruses and how their interactions affect endotype and precision medicine approaches in bronchiectasis.
- To discuss the latest evidence for airway clearance in bronchiectasis and how to measure outcomes in bronchiectasis trials.
- To discuss how recent clinical trials affect the place of inhaled antibiotics in management of patients with bronchiectasis.

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1.30pm – 3.00pm **SYMPOSIUM**

**GETTING A GOOD NIGHT'S SLEEP: IMPROVING SLEEP AND BRAIN OUTCOMES FOR OUR PATIENTS**

Chaired by: Dr Sonya Craig (Liverpool) and  
Dr Alanna Hare (London)

- 1) Neuroinflammation and OSA: the importance of sleep to brain health  
Dr Ivana Rosenzweig (London)
- 2) Insomnia in our hospital patients and how to improve it  
Dr Kirstie Anderson (Newcastle upon Tyne)
- 3) The Optimal Sleep Pathway – an NHS England initiative  
Dr Martin Allen (Stoke-on-Trent)

**Learning objectives**

- To improve basic science knowledge of how sleep disorders such as OSA disrupt brain mechanisms and pathways.
- To increase understanding of how poor sleep environments affect all hospital inpatients and how we can improve this.
- To gain knowledge on how we can improve our diagnostic pathways for sleep medicine in the UK.

3.15pm – 4.45pm

### SYMPOSIUM

#### TOBACCO DEPENDENCY: CURRENT TREATMENTS TO FUTURE ERADICATION

Chaired by: Dr Zaheer Mangera (London) and Wendy Preston (Royal College of Nursing)

- 1) A call to arms in tobacco control policy: what will it take to achieve smoke-free by 2030?  
Professor Deborah Arnott (Action on Smoking & Health)
- 2) Role of vaping in preventing harms from tobacco addiction  
Professor Jamie Brown (London)
- 3) E-cigarettes as an opportunistic smoking cessation intervention in emergency departments: an RCT  
Professor Caitlin Notley (Norwich)
- 4) Cytisine and other new kids on the block in the treatment of tobacco dependency  
Dr Matthew Evison (Manchester)

#### Learning objectives

- To set out the current landscape relating to the harms of tobacco use in the UK and the steps required from a regulatory perspective to achieve Smoke-Free by 2030.
- To understand the benefits of vaping as an important intervention to reduce harm from tobacco addiction.
- To be aware of the current data and trials looking at the use of vaping in helping people to quit smoking and the role vaping has in a hospital-based patient population.
- To learn about the potential use of Cytisine and other pharmacotherapy treatments of tobacco dependency.

3.15pm – 4.45pm

### SYMPOSIUM

#### BTS AUDIT AND QUALITY IMPROVEMENT

Chaired by: Dr Mark Juniper (Swindon)

- 1) BTS QI and Audit Programme: introduction and future plans  
Dr Mark Juniper (Swindon)
- 2) BTS Outpatient Management of Pulmonary Embolism Audit 2021  
Dr Robin Condliffe (Sheffield)
- 3) Respiratory Support Unit Pilot Audit 2021  
Dr Michael Davies (Cambridge)
- 4) Model of care for Specialised Weaning Units  
Dr Ben Messer (Newcastle upon Tyne)
- 5) Closing comments  
Dr Mark Juniper (Swindon)

#### Learning objectives

- To disseminate audit results from the BTS 2021/22 Audit Programme.
- To provide an insight to the future direction the BTS Quality Improvement Programme.
- To be aware of the new model of care for Specialised Weaning Units.
- To understand the variations of practice for respiratory support outside of critical care units, as found by the Respiratory Support Pilot.

### FUTURE BTS MEETINGS

#### Summer Meeting 2023

22<sup>nd</sup> & 23<sup>rd</sup> June  
Manchester

#### Winter Meeting 2023

22<sup>nd</sup> to 24<sup>th</sup> November  
London



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