

*Looking back to the future:
Celebrating 125 years of BIR*

BIR ANNUAL CONGRESS 2022

22–23 September
Royal College of Physicians, London



#BIRAC22

CPD: 6 credits per day

BIR Annual Congress 2022

The BIR Annual Congress returns with an in-person conference which promises to be our biggest one to date as the BIR celebrates its 125 year anniversary! Now at Royal College of Physicians, London with three exciting streams that offer a comprehensive programme on the latest innovations in imaging and treatment to medical imaging professionals and their senior management teams.

Taking place over two days, the event provides excellent opportunities to meet delegates and network in an open and relaxed environment (including an opportunity to attend Congress dinner and networking drinks).

Schedule of events

Day 1

08:45 Registration opens
09:15 Welcome speech by the BIR President
09:30 Lecture begins
17:45 Drinks reception sponsored by Aidence
19:00 Congress dinner

Day 2

09:00 Registration
09:30 Lecture begins
17:15 Close of event

Who should attend?

This multidisciplinary event will appeal to anyone within radiology, radiation oncology and the underlying sciences, including radiologists, physicists, radiology managers, radiographers, oncologists, clinical scientists, physicians, heads of department, decision makers, radiation protection advisers and supervisors.

Reasons to attend

1. Enhance your knowledge
2. Hear from experts in the field
3. Network with colleagues and peers
4. Extensive ePoster exhibition
5. Array of historical exhibits
6. Meet industry representatives

Looking back to the future: Celebrating 125 years of BIR

ePosters

We once again see the return of electronic posters, which can be viewed on the screens located in the foyer. This will provide delegates with one-to-one interaction with presenters during the ePoster sessions.



Headline sessions

The BIR Sir Godfrey Hounsfield lecture and awards

Dr Thomas Flohr

Head of CT Physics and Application Pre-development; and Adjunct Professor
Siemens Healthineers and Eberhard Karls
University, Germany

Thursday 22 September 14:00



BIR Aidence Mayneord lecture and awards

Dr Giles Maskell

Consultant Radiologist
Royal Cornwall Hospitals NHS Trust
Friday 23 September 14:00



Congress dinner

This year's Congress dinner will be held in the beautiful gardens of Royal College of Physicians. It provides a fantastic opportunity to mix with other delegates, speakers and industry representatives in a relaxed and social environment.

Tickets are £60.

To attend the dinner, please book online or email us at conference@bir.org.uk



08:45 **Registration and refreshments**

09:15 **President's welcome and introduction**

Dr Sridhar Redla, Consultant Radiologist, Princess Alexandra Hospital NHS Trust

Session 1: GI imaging: Current trends

Chair: Professor Stuart Taylor and Dr Simon Jackson

09:25 **Welcome and introduction**

09:30 **Quantitative imaging of abdominal malignancy – where are we?**

Professor Dow Mu-Koh, Consultant Radiologist in Functional Imaging, The Royal Marsden NHS Foundation Trust

09:50 **The demise of barium – modern small bowel imaging techniques**

Dr Andrew Plumb, Associate Professor of Medical Imaging at University College London; and Consultant Radiologist, University College London Hospitals NHS Foundation Trust

10:10 **CT colonography or optical colonoscopy – when and why?**

Dr Ingrid Britton, Consultant Radiologist, University Hospitals of North Midlands NHS Trust

10:30 **Panel discussion**

11:00 **Break**

11:30 **Update on acute pancreatitis diagnosis and management**

Dr Helen Bungay, Consultant Radiologist, Oxford University Hospitals NHS Foundation Trust

11:50 **Liver tumour ablative techniques – first line or last resort?**

Dr David Breen, Clinical Director of Radiology, University Hospital Southampton NHS Foundation Trust

12:10 **Imaging and intervention in abdominal trauma – service provision, protocols and tips for success**

Dr Erika Kashef, Consultant Interventional Radiologist and Trauma Lead, Imperial College Healthcare NHS Trust

12:30 **Panel discussion**

13:00 **Lunch**

13:15 **Sponsored lunchtime symposium: Advanced Accelerator Applications**

Dr Amy Eccles, Consultant Nuclear Medicine Physicians, Hammersmith Hospital

13:45 **Lunch**

14:00 **The Sir Godfrey Hounsfield lecture and award: 'A brief history of computed tomography – from Hounsfield's brain scanner to photon counting CT'**

Dr Thomas Flohr, Head of CT Physics and Application Pre-development, Siemens Healthineers; and Adjunct Professor of Medical Physics, Eberhard Karls University, Germany

15:05 **Break**

Session 2: Post-treatment imaging

Chair: Professor Stuart Taylor and Dr Simon Jackson

15:35 **Imaging of the post-operative abdomen – pearls and pitfalls**

Dr Rebecca Greenhalgh, Consultant Radiologist, London North West University Healthcare NHS Trust

15:55 **Assessing tumour response in the liver – beyond RECIST**

Dr David Bowden, Consultant GI/HPB Radiologist and MR Clinical Lead, Addenbrooke's Hospital

16:15 **Pancreatic malignancy – optimising post treatment assessment**

Dr Raneem Albazaz, Consultant Radiologist, Leeds Teaching Hospitals NHS Trust

16:35 **Rectal cancer – evaluating treatment response and future directions**

Professor Gina Brown, Consultant Radiologist, The Royal Marsden NHS Foundation Trust

16:55	Panel discussion
17:15	Evolution of the workforce Dr Adrian Thomas, BIR Honorary Historian
17:45	Close of day and drinks reception sponsored by Aidence
19:00	Congress dinner

Thursday 22 September

Stream B

CURRENT TRENDS AND AI IN RADIOTHERAPY AND ONCOLOGY

08:45 **Registration and refreshments**

09:15 **President's welcome and introduction**

Dr Sridhar Redla, Consultant Radiologist, Princess Alexandra Hospital NHS Trust

Chair: Nikki Blackler

09:25 **Welcome and introduction**

09:30 **Radiology – multidisciplinary workforce planning from an AI hub in radiology**

Ana Ribeiro, Clinical Scientist, The Royal Marsden NHS Foundation Trust

09:45 **Multidisciplinary working: Streamlining the radiotherapy pathway – a worked example**

Dr David Woolf, Consultant in Clinical Oncology and Honorary Senior Lecturer, The Christie NHS Foundation Trust and The University of Manchester; and Rachael Wooder, The Christie NHS Foundation Trust

10:00 **AI in breast radiotherapy – the future is bright**

Dr Richard Sidebottom, Consultant Radiologist, Gloucestershire Hospitals NHS Foundation Trust; and Dr Anna Kirby, Consultant Clinical Oncologist, The Royal Marsden NHS Foundation Trust

10:40 **Panel discussion**

11:00 **Break**

11:30 **Prostate cancer: Evolving pelvic radiotherapy treatments using AI**

Dr Francesco Giganti, Associate Professor of Radiology, University College London; and Charlotte Shelley, Clinical Fellow in Adaptive Radiotherapy, Royal Surrey County Hospital

12:10 **Lung cancer: SABR developments AI outlining for challenging cases lung and adrenal/oligo mets**

Dr Richard Lee, Consultant Physician in Respiratory Medicine and Champion for Early Cancer Diagnosis, The Royal Marsden NHS Foundation Trust

12:50 **Panel discussion**

13:00 **Lunch**

13:15 **Sponsored lunchtime symposium: Advanced Accelerator Applications**

Dr Amy Eccles, Consultant Nuclear Medicine Physicians, Hammersmith Hospital

13:45 **Lunch**

14:00 **The Sir Godfrey Hounsfield lecture and award: 'A brief history of computed tomography – from Hounsfield's brain scanner to photon counting CT'**

Dr Thomas Flohr, Head of CT Physics and Application Pre-development, Siemens Healthineers; and Adjunct Professor of Medical Physics, Eberhard Karls University, Germany

15:05 **Break**

15:35 **The requirements for AI in radiotherapy**

Dr Mark Gooding, Chief Scientific Officer, Mirada Medical

16:00 **AI in auto-segmentation**

Dr Rajesh Jena, Academic Consultant Clinical Oncologist, University of Cambridge

16:25 **AI in auto-planning**

Mr Wayne Martel, Regional Business Director, RaySearch Laboratories

16:50 **Panel discussion**

17:15 **Evolution of the workforce**

Dr Adrian Thomas, BIR Honorary Historian

17:45 **Close of day and drinks reception sponsored by Aidence**

19:00 **Congress dinner**

Stream C

SAFETY AND WELLBEING IN IMAGING (AM)

EVOLUTION OF TECHNOLOGY/IMAGING (PM)

08:45 Registration and refreshments

09:15 President's welcome and introduction

Dr Sridhar Redla, Consultant Radiologist, Princess Alexandra Hospital NHS Trust

Session 1: Safety and wellbeing in imaging

Chair: Professor Stephen Keevil and Dr TC See

09:25 Welcome and introduction

09:30 Protecting our workforce: Looking after the people who look after the patients

Dr Debbie Ford, Consultant Clinical Psychologist, Royal Brompton and Harefield NHS Foundation Trust

09:50 Peer-to-peer wellbeing support

Dr Louise Freeman, Co-chair, Doctors' Support Network

10:10 Ergonomics in radiology

Dr Paul McCoubrie, Consultant Radiologist, North Bristol NHS Trust

10:30 Safety in magnetic resonance imaging: A multidisciplinary approach

Dr Geoff Charles-Edwards, Consultant Physicist, Guy's and St Thomas' NHS Foundation Trust

10:50 Panel discussion: 'Why is staff wellbeing important to patient safety in radiology'?

11:00 Break

Session 2: Evolution of technology/imaging

Chair: Mr Andy Rogers

11:30 Evolution of MR technology: Early MRI, MR spectroscopy, MR perfusion, MR elastography, DTI, functional MR, 7 Tesla+, PET/MR

Professor Paul Morgan, Professor of Medical Physics, University of Nottingham

11:50 Evolution plain film and intervention: Early plain films, latest image processing opportunities

Susan Doshi, Principal Clinical Scientist, Velindre Cancer Centre, Cardiff

12:10 Interventional and fluoroscopy (tubes/filters, detectors, control logic): The changing landscape

Mr Andy Rogers, Lead Interventional Medical Physics Expert, Nottingham University Hospitals NHS Trust

12:30 The future of quality control: Look no hands!

David Platten, Clinical Scientist, United Lincolnshire Hospitals NHS Trust

12:50 Radiation protection: From martyrs to 'zero dose': Changes to protection and zero dose techniques such as robotics, optical image guidance

John Kotre, Visiting Research Fellow, University of Cumbria

13:10 Lunch

13:15 Sponsored lunchtime symposium: Advanced Accelerator Applications

Dr Amy Eccles, Consultant Nuclear Medicine Physicians, Hammersmith Hospital

13:45 Lunch

14:00 The Sir Godfrey Hounsfield lecture and award: 'A brief history of computed tomography – from Hounsfield's brain scanner to photon counting CT'

Dr Thomas Flohr, Head of CT Physics and Application Pre-development, Siemens Healthineers; and Adjunct Professor of Medical Physics, Eberhard Karls University, Germany

15:05	Break
15:35	Evolution of imaging education Dr David Little, Royal United Hospitals Bath NHS Foundation Trust
16:25	The future of ultrasound Professor Paul Sidhu, Professor of Imaging Sciences, King's College Hospital
17:15	Evolution of the workforce Dr Adrian Thomas, BIR Honorary Historian
17:45	Close of day and drinks reception sponsored by Aidence
19:00	Congress dinner

Friday 23 September

Stream A

MSK: SPINE AND NEURO

09:00 Registration and refreshments

Chair: Dr Ata Siddiqui and Dr Jozef Jarosz

09:25 Welcome and introduction

09:30 Neurological spine

Dr Daniel Scoffings, Consultant Neuroradiologist, Cambridge University Hospitals NHS Foundation Trust

09:50 Systematic reporting of the degenerative spine: An update

Dr Mark Igra, Consultant Neuroradiologist, Leeds Teaching Hospitals NHS Trust

10:10 Unconscious child in ED: what to think about (Review of the encephalitis, including infection, ADEM, etc)

Dr Ata Siddiqui, Consultant Neuroradiologist, King's College Hospital NHS Foundation Trust

10:30 Panel discussion

11:00 Break

11:30 An update in stroke imaging and treatment

Dr Robert Lenthall, Consultant Neuroradiologist, Nottingham University Hospitals NHS Trust

11:50 Differential diagnosis of brain and spinal white matter lesions (MS, and others)

Dr Naomi Sibtain, Consultant Neuroradiologist, King's College Hospital NHS Foundation Trust

12:10 Confused elderly patient

Dr Jozef Jarosz, Consultant Neuroradiologist, King's College Hospital NHS Foundation Trust

12:30 Panel discussion

13:00 Lunch

13:15 Bayer sponsored lunchtime symposium: 'Understanding the black box: Interpretability and explainability of AI'

Dr Thomas Booth, Consultant Diagnostic and Interventional Neuroradiology and Reader in Neuroimaging, King's College Hospital and King's College London

13:45 Lunch

14:00 The BIR Aidence Mayneord Memorial lecture and award: 'Practising radiology'

Dr Giles Maskell, Consultant Radiologist, Royal Cornwall Hospitals NHS Trust

15:15 Break

15:45 Please join stream B or C

17:05 Close of event

Friday 23 September

Stream B

ARTIFICIAL INTELLIGENCE (AM) CHEST IMAGING WITH CASES (PM)

09:00 Registration and refreshments

Chair: Dr Amrita Kumar, Dr Gerald Lip and Dr Hugh Harvey

09:25 Welcome and introduction

09:30 Current landscape of AI implementation in NHS Trusts

Dominic Cushnan, Director of Artificial Intelligence, Imaging and Deployment, NHS England

10:00 Using AI in breast cancer imaging within NHS – evidence so far

Dr Gerald Lip, Clinical Director, North East Scotland Breast Screening Centre

10:30 Setting up AI implementation in NHS

Dr Amrita Kumar, Consultant Radiologist, Frimley Health NHS Foundation Trust

11:00 Break

11:30 Creating a medical imaging AI marketplace

Dr Imran Siddiqui, Medical Advisor, Radiology UK and Ireland, Bayer Plc

12:00 Nuances of AI regulation

Dr Hugh Harvey, Managing Director, Hardian Health

12:30 Learnings and progress from the multi-agency advisory service for data-driven and AI tech

Clíodhna Ní Ghuidhir, Principal Scientific Adviser, AI Multi-Agency Advice Service, National Institute for Health and Care Excellence (NICE)

13:00 Lunch

13:15 Bayer sponsored lunchtime symposium: 'Understanding the black box: Interpretability and explainability of AI'

Dr Thomas Booth, Consultant Diagnostic and Interventional Neuroradiology and Reader in Neuroimaging, King's College Hospital and King's College London

13:45 Lunch

14:00 The BIR Aidence Mayneord Memorial lecture and award: 'Practising radiology'

Dr Giles Maskell, Consultant Radiologist, Royal Cornwall Hospitals NHS Trust

15:15 Break

Session 2: Chest imaging with cases

Chair: Dr Nick Screatton

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MINDS
RADIOLOGY

15:45 Case 1 - Practical tips to help detect and assess pulmonary hypertension on CT

Dr Andy Swift, Consultant Cardiothoracic Radiologist, The University of Sheffield

16:05 Case 2

Professor Sujal Desai, Consultant Radiologist, Royal Brompton and Harefield Nhs Foundation Trust

16:25 Case 3

Dr Allanah Barker, Consultant Cardiothoracic Radiologist, Papworth Hospital

16:45 Case 4

Dr Arjun Nair, Consultant Radiologist, University College London Hospitals NHS Foundation Trust

17:05 Close of event

Friday 23 September

Stream C IR(ME)R

09:00 Registration and refreshments

Chair: Mr Peter Hiles, Mr Andy Rogers and Ms Helen Hughes

09:25 Welcome and introduction

09:30 Communicating risk and benefit

Dr Sarah Dryhurst, Research Associate in Psychology, Winton Centre for Risk and Evidence Communication, University of Cambridge

09:50 The need for informed consent for radiation risk

Mrs Elizabeth Davies, Clinical Scientist, University Hospitals of Leicester

10:10 Consenting for radiation risk – a medical perspective

Dr Stewart Redman, Royal United Hospitals Bath NHS Foundation Trust

10:30 What do patients and referrers really want to know?

Louise Burton, Senior Lecturer, Sheffield Hallam University

10:50 Q&A

11:00 Break

11:35 Patient pregnancy, transgender issues and the new SCoR guidance

Matthew Noonan and Kate Harrington, Liverpool University Hospitals NHS Foundation Trust

11:55 Incidents and inspections: Lessons for a happy inspection

Mr Matt Dunn, Head of Radiation Physics, Nottingham University Hospitals NHS Trust

12:15 Challenges for the independent sector

Ann Heathcote, Head of CT Clinical Services, Alliance Medical

12:35 The future direction for patient radiation protection: Gazing through the crystal ball

Dr Colin Martin, Head of Health Physics Division, Gartnavel General Hospital

12:55 Q&A

13:10 Lunch

13:15 Bayer sponsored lunchtime symposium: 'Understanding the black box: Interpretability and explainability of AI'

Dr Thomas Booth, Consultant Diagnostic and Interventional Neuroradiology and Reader in Neuroimaging, King's College Hospital and King's College London

13:45 Lunch

14:00 The BIR Aidence Mayneord Memorial lecture and award: 'Practising radiology'

Dr Giles Maskell, Consultant Radiologist, Royal Cornwall Hospitals NHS Trust

15:15 Break

15:45 Effective IOT's: The do's and don'ts

Patrice Burke and Gill Asher

16:05 The benefits of big data: Impact on interventional cardiology service

Ben Hackford-Gentle, Cath Lab Specialist, Nottingham University Hospitals NHS Trust

16:25 Case study 1 – Nodules in HRCT

Dr Jenna Allsup, Research Radiographer, Betsi Cadwaladr University Health Board

16:40 Case study 2 – Optimisation in digital radiography

Dr Craig Moore, Principal Medical Physicist and Radiation Protection Adviser, Hull University Teaching Hospitals NHS Trust

16:55 Optimisation and the ICRP

Dr Colin Martin, Head of Health Physics Division, Gartnavel General Hospital

17:15 Q&A

17:25 Close of event

BIR ANNUAL CONGRESS 2022

Reviews from previous BIR Annual Congress

“Good range of topics, well delivered, reinforced my knowledge, even where one already knew the facts it’s reassuring to have this confirmed and reinforced, also picked up some useful take-home points. Very pleasant and informative day.”

“The event was well organised and venue was superb. The speakers were excellent who were successful in creating a great impact in mind of audience. The topics were relevant to day to day practice.”

“It was a very useful and informative course. It was very interesting and I will recommend it to colleagues.”

VENUE

**Royal College of Physicians
11 St Andrews Place
London
NW1 4LE**

BY TRAIN:

- Euston station (15 mins walk)
- King's Cross and St Pancras stations
- National and International rail services (5 minutes by taxi)
- Marylebone station (5 minutes by taxi)

BY UNDERGROUND:

- Regent's Park station on the Bakerloo line (5 minutes walk)
- Great Portland Street Station on the Circle, Metropolitan and Hammersmith and City lines (5 minutes walk)
- Warren Street Station on the Victoria and Northern lines (10 minutes walk)

BY BUS:

- A – Routes: 18, 27, 30, 205, 453
- B – Routes: 88
- C – Routes: 18, 27, 30, 205
- D – Routes: 18, 27, 30, 205, 453

BY CAR:

- Easy access via M40 and M1
- Car Parking: The RCP offers free parking to disabled guests by prior arrangement and is situated outside the congestion charge zone. The nearest public car park is a few minutes walk away.

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1897 125 Years 2022



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