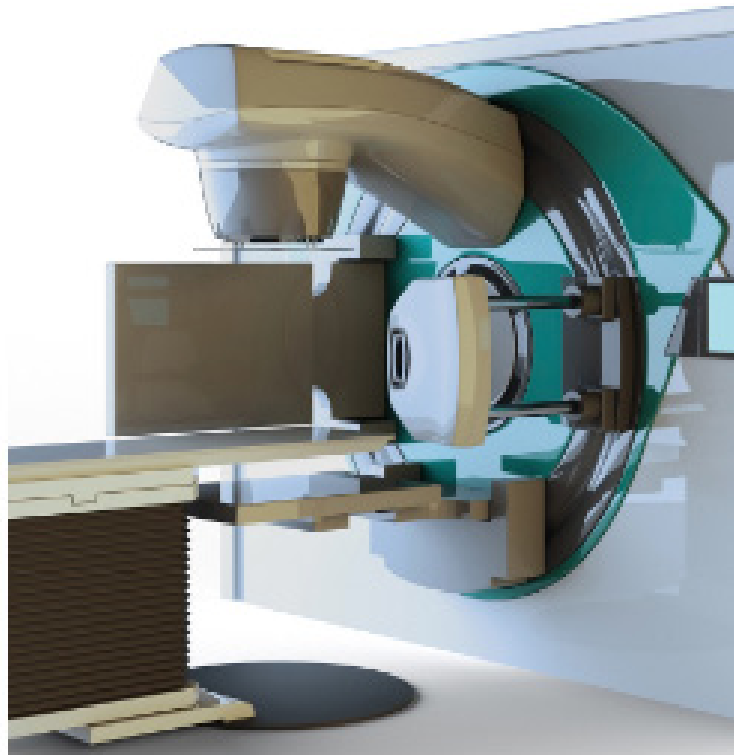




BIR ANNUAL RADIOTHERAPY AND ONCOLOGY MEETING 2023

30 March–31 March 2023
etc.venues St Paul's, London



#BIRTO23

**12 CPD credits
(6 credits per day)**

BIR ANNUAL RADIOTHERAPY AND ONCOLOGY MEETING 2023

This is the third meeting for the BIR, which brings together speakers from around the world and national experts too, to share experiences and expertise in a wide range of aspects for today’s cutting-edge radiotherapy and oncology. As with 2022’s highly successful face-to-face meeting, this one will include presentation and discussion of the latest techniques, technologies, methods and hot-topics in radiotherapy and oncology....do come and join us! Renewed opportunities aplenty for networking with fellow professionals and discussing the latest offerings from manufacturers; and presenting your own material too.

As previously, parallel streams will be used to maximise the sessional opportunities, together with expert plenary talks on “Patient voices” and other state-of-the-art topics in radiotherapy.

Schedule of event

Day one

09:00 Registration opens
09:20 Welcome speech
09:30 Lecture begins
13:00 Lunch and networking
17:00 Close of day

Day two

09:00 Registration opens
09:30 Lecture begins
13:00 Lunch and networking
14:00 BIR Medal for Outstanding International Achievement
17:00 Close of day

Who should attend?

This event will appeal to anyone working within radiotherapy and oncology including clinical oncologists, radiographers, physicists, service managers, Linac and IT engineers, dosimetrists, manufacturers and department heads.

Five reasons to attend

1. Enhance your knowledge
2. Hear expert opinion and share your own
3. Refresh your understanding
4. Share your own research
5. Network with colleagues, peers and industry representatives

BIR ANNUAL RADIOTHERAPY AND ONCOLOGY MEETING 2023

ePosters

There will be electronic posters in an online format, which can be viewed anytime from a computer, laptop or mobile device.



Headline sessions

Day one

Plenary lecture on Patient voices

Day two

Plenary lecture

BIR Medal for Outstanding International Achievement

Professor Søren Bentzen

Director of the Division of Biostatistics and Bioinformatics, University of Maryland, and Director of the Biostatistics Shared Service, University of Maryland Greenebaum Cancer Center



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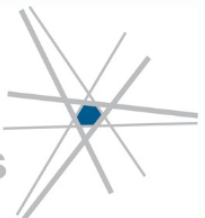
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Stream A

09:00 Registration and refreshments

09:20 Welcome and introduction

Session 1: MR informed radiotherapy

Chair: Mr Scott Hanvey

09:30 **Commissioning an MR sim and overview of IPEM guidance on the use of MRI for external beam radiotherapy**
Dr Richard Speight, Principal Clinical Scientist, Leeds Teaching Hospitals NHS Trust

10:00 **MRI-Linac: Technical concepts**
Professor Gary Liney, MRI-Linac Lead Physicist, Independent MRI-RT physicist

10:30 **Inter-observer variability of contours for locally advanced pancreatic cancer on the MR Linac**
Jessica Gough, Clinical Research Fellow, The Royal Marsden NHS Foundation Trust

10:45 **Using immobilisation masks in magnetic resonance imaging radiotherapy planning scans: The experiences of male patients with head and neck cancers**
Louise Jordan, Research Radiographer, Newcastle Hospitals NHS Foundation Trust

11:00 Break

Session 2: Adaptive radiotherapy

Chair: Mr Alex Morris

11:30 **Integrating MR-guided adaptive SABR into modern oncology practice**
Dr James Good, Consultant Clinical Oncologist, University Hospitals Birmingham NHS Foundation Trust

12:00 **Adaptive proton therapy: Making radiosurgery the new norm?**
Professor Tony Lomax, Chief Medical Physicist, Paul Scherrer Institute

12:30 **Early experiences of implementing therapeutic radiographer target volume contouring for magnetic resonance image guided adaptive radiotherapy**
Ms Bethany Williams, Senior 1 MR Linac Therapeutic Radiographer, The Royal Marsden NHS Foundation Trust

13:00 Lunch

Plenary session: Patient voices

Chair: Ms Sarah-Jane Ketterer

14:00 **Title to be confirmed**
Ms Jemima Reynolds, Head of Programmes and Engagement, Trekstock

14:20 **Patient prostate cancer options website**
Dr Diane Whitney, Head of Brachytherapy Physics, Cambridge University Hospitals NHS Foundation Trust

14:40 **A patient's voice in research: Introduction to patient and public involvement (PPI)**
Mr Andrew Wragg, Patient and Public Involvement Manager (Research and Innovation), Nottingham University Hospitals NHS Trust

15:00	Break
Session 3: Manufacturer session	
Chair: Mr Phil Neale	
15:30	Introducing Hypersight™ Mr Michael Stead, Senior Product Marketing Manager, Varian
15:45	Enhancing accuracy and efficiency in dosimetry data collection with SunSCAN 3D Mr Greg Martin, Application Scientist, Sun Nuclear - A Mirion medical technologies company
16:00	Title to be confirmed Dr Karl Otto, CEO, Limbus AI (for AMG Medtech)
16:15	Evaluation of myQA® SRS Detector as a tool for stereotactic body radiotherapy plan quality assurance Ms Sally Fletcher, Head of Radiotherapy Physics, Bristol Haematology and Oncology Centre (for Oncology Systems Limited)
16:30	How to standardise radiotherapy Mr Jarkko Niemelä, Chief Product Officer, Co-Founder, MVision
16:45	Optimizing radiation oncology workflows with automation Mr Mauricio Leick, Medical Physicist, Team Leader for Radiation Planning at the KSA-KSB Radio-Oncology Center, Kantonsspital Aarau AG (Switzerland) (for Radformation)
17:00	Advanced imaging and interoperability in radiation oncology Dr Sylvain Reuzé, Clinical Applications Leader Radiotherapy, GE Healthcare
17:15	Close of day

Thursday 30 March

Stream B

09:00 Registration and refreshments

09:20 Welcome and introduction

Session 1: Making radiotherapy more effective

Chair: Mrs Nicola Blackler and Mr Charles Kelly

09:30 **Practical implementation of BIR guidance for margin determination: Experience, tips and learning**
Dr Isabel Palmer, Principal Radiotherapy Physicist (Imaging Lead), Barts Health NHS Trust

10:00 **Single-dose ablative radiation therapy for prostate cancer with target motion mitigation**
Dr Valeria Faccenda, Medical Physicist, Fondazione IRCCS San Gerardo dei Tintori, Monza (Italy)

10:30 **Radiotherapy for breast cancer: How clinical trials have changed practice**
Dr Anna Kirby, Consultant Clinical Oncologist, The Royal Marsden NHS Foundation Trust and President, European Society Radiation Oncology

11:00 Break

Session 2: SRS/SABR

Chair: Mrs Nicola Blackler

11:30 **Practical considerations of single fraction lung SABR**
Dr Clive Peedell, Consultant Clinical Oncologist, South Tees NHS Foundation Trust

12:00 **Launch of the RCR / UK SABR consortium national audit of SABR reirradiation in the pelvis**
Dr Rebecca Muirhead, Clinical Oncologist, Oxford University Hospital NHS Foundation Trust

12:30 **A novel phantom and workflow for SIMT-SRS QA: Cost-effective 3D dose error measurement**
Mr Jonathan Lane, Head of Radiotherapy Physics, Oxford University Hospitals NHS Foundation Trust

13:00 Lunch

Plenary session: Patient voices

Chair: Ms Sarah-Jane Ketterer

14:00 **To be forewarned is to be forearmed. What I wish I'd known about radiotherapy from a young adult's perspective**
Jemima Reynolds, Head of Programmes and Engagement, Trekstock

14:20 **Patient prostate cancer options website**
Dr Diane Whitney, Head of Brachytherapy Physics, Cambridge University Hospitals NHS Foundation Trust

14:40 **A patient's voice in research: Introduction to patient and public involvement (PPI)**
Andrew Wragg, Patient and Public Involvement Manager (Research and Innovation), Nottingham University Hospitals NHS Trust

15:00 Break

Session 3: Resources and sustainability

Chair: Dr Mike Kirby

15:30 **Sustainability in brachytherapy and nuclear medicine related to radiotherapy**
Dr Nathan Dickinson, Nottingham University Hospitals NHS Trust; Dr Gerry Lowe, Principal Clinical Scientist, Mount Vernon Cancer Centre

16:00 **Addressing environmental sustainability: The answer to workforce in radiotherapy and oncology?**
Mr Ross McGhee, President, Society and College of Radiographers and Radiotherapy Board Member

16:30 **Do more with less: How to assess value in radiation oncology**
Dr Ajay Aggarwal, Consultant Clinical Oncologist, Guy's and St Thomas' NHS Foundation Trust

Friday 31 March

Stream A

09:00 Registration and refreshments

Session 1: Brachytherapy

Chair: Dr Keith Langmack

09:30	Development of the prostate brachytherapy service at the Norfolk and Norwich Hospital Mr Sam Worster, Consultant Radiographer, Norfolk and Norwich University Hospitals NHS Foundation Trust
09:50	HDR Skin brachytherapy service development Dr Amarnath Challapalli, Clinical Director and Consultant Clinical Oncologist, Bristol Hematology and Oncology Center, University Hospitals Bristol and Weston NHS Foundation Trust
10:10	What's the role of prostate brachytherapy in the modern world? Professor Gerard Morton, Radiation Oncologist, Sunnybrook Health Sciences Centre and Associate Professor, Department of Radiation Oncology, University of Toronto, Canada
10:30	Modern tools for brachytherapy: From image guidance to model based dose calculation Professor Tomas Kron, Director of Physical Sciences, Peter MacCallum Cancer Centre

11:00 Break

Session 2: IGRT/SGRT

Chair: Ms Amanda Webster

11:30	Radiotherapy imaging dose and optimisation, and the importance of collaborative working Dr Tim Wood, Principal Medical Physicist, Radiation Protection Adviser, Medical Physics Expert, Radiation Protection and Radiology Physics, Hull University Teaching Hospitals NHS Trust
12:00	Quality assurance on surface-guided radiotherapy – current status and perspectives Dr Vania Batista, Medical Physicist, Heidelberg University Hospital, Germany
12:30	Evaluating the setup and immobilisation accuracy of faceless masks using SGRT/IGRT Dr Mark Ramtohul, Principal Clinical Scientist, University Hospitals Birmingham NHS Foundation Trust

13:00 Lunch

14:00	Plenary session Radiation oncology in the era of data science: BIR Medal for Outstanding International Achievement Professor Søren Bentzen, Director of the Division of Biostatistics and Bioinformatics, University of Maryland, and Director of the Biostatistics Shared Service, University of Maryland Greenebaum Cancer Center
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15:00 Break

Session 3: Safety and regulations

Chair: Mr Alex Morris

15:30	Accidental or unintended exposures – an expansion of the simple risk assessment to promote real safety management in radiotherapy Mrs Oonagh Maguire and Mrs Una McElroy, Quality Assurance Radiographer, Northern Ireland Cancer Centre – Radiotherapy Department Belfast City Hospital Belfast Health and Social Care Trust
16:00	In-house manufacture in radiotherapy: New Medical Device Regulation requirements Mr David Grainger, Technical Lead Software, AI and MRI, Devices Division, Medicines and Healthcare products Regulatory Agency
16:30	The Ionising Radiations Regulations 2017: The new consent process Mr James Taylor, Principal Specialist Inspector (Radiation), Health and Safety Executive Radiation Team

17:00 Close of event

Stream B

09:00 **Registration and refreshments**

Session 1: Particle therapy

Ms Samaneh Shoraka and Mr Andrew Poynter

09:30	An update on proton beam therapy in the UK Dr Colin Baker, Group Lead for Proton Beam Therapy Physics, University College London Hospitals NHS Foundation Trust
10:00	The LIGHT proton therapy system: Development and UK projects Dr Jonathan Farr, Chief Clinical Officer, Advanced Oncotherapy plc
10:30	Proton therapy research in Manchester Professor Karen Kirkby, Professor of Proton Therapy Physics, University of Manchester

11:00 **Break**

Session 2: Individualised radiotherapy (including Immunotherapy)

Chair: Ms Nicola Blackler

11:30	Artificial intelligence with radiomics Dr Helen Wang, Trainee in Medical Physics, The Royal Surrey County Hospital NHS Foundation Trust
12:00	Intensity modulated total body irradiation using TomoDirect™ Dr Andrew Dumbill, Clinical Scientist, University Hospitals Birmingham NHS Foundation Trust
12:15	Dosimetric impact of intrafraction prostate motion and interfraction anatomical changes in dose-escalated linac-based SBRT Dr Valeria Faccenda, Medical Physicist, Fondazione IRCCS San Gerardo dei Tintori, Monza (Italy)
12:30	Dose painting radiotherapy for prostate cancer: A better option for patients with localised high risk disease? Professor Isabel Syndikus, Consultant in Clinical Oncology, The Clatterbridge Cancer Centre NHS Foundation Trust

13:00 **Lunch**

14:00	Plenary session Radiation oncology in the era of data science: BIR Medal for Outstanding International Achievement Professor Søren Bentzen, Director of the Division of Biostatistics and Bioinformatics, University of Maryland, and Director of the Biostatistics Shared Service, University of Maryland Greenebaum Cancer Center
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15:00 **Break**

Session 3: Big data and cybersecurity / AI associated regulations

Chair: Dr Keith Langmack

15:30	Real-world data on comorbidity and radiotherapy-induced toxicity in cancer patients Dr Azadeh Abravan, Research Associate, The University of Manchester
16:00	Experience of a national Cyberattack: A Medical Physicists perspective Dr Brendan McClean, Director of Physics, Saint Luke's Radiation Oncology Network
16:30	Experience of a national Cyberattack: A Radiation Oncologists perspective Dr Aileen Flavin, Consultant Radiation Oncologist, Bon Secours/UMPC Radiotherapy Centre in Cork

17:00 **Close of event**

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