BIR
The British Institute of Radiology
1897 125 Years 2022

BIR ANNUAL RADIOTHERAPY AND ONCOLOGY MEETING 2022

31 March–1 April 2022
etc.venues St Paul's, London

#BIRTO22

14 CPD credits
(7 creditsper day)

BIR ANNUAL RADIOTHERAPY AND ONCOLOGY MEETING 2022

This is the second 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. Planned as an in-person event, the event will cover the latest techniques, technologies, methods and hot-topics will be discussed in this comprehensive meeting taking place over two days. Renewed opportunities aplenty for networking with fellow professionals and discussing the latest offerings from manufacturers.

Schedule of event

Day one

09:00 Registration opens
09:20 Welcome speech
09:30 Lecture begins
17:00 Teaching session
18:00 Close of day

Day two

08:30 Teaching session
09:00 Registration opens
09:30 Lecture begins
17:30 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 2022

ePosters

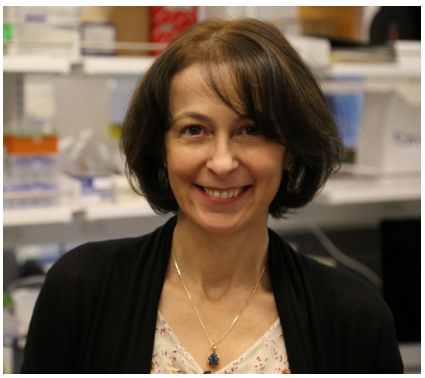
There will be electronic posters in an online format, which can be viewed anytime from a computer, laptop or mobile device.

Headline sessions

Plenary lecture
Professor Andy Beavis
Head of Medical Physics
Hull University Teaching Hospitals NHS Foundation Trust

Professor Ranald Mackay
Director
Christie Medical Physics and Engineering
Thursday 31 March 14:00

Plenary lecture
Professor Sandra Demaria
Professor of Radiation Oncology, Pathology and Laboratory Medicine
Weil Cornell Medicine
Friday 1 April 14:00



Teaching sessions

Challenging radiotherapy planning / Radiomics
Thursday 31 March 17:00

Adaptive radiotherapy / Brachytherapy
Friday 1 April 08:30

BIR ANNUAL RADIOTHERAPY AND ONCOLOGY MEETING 2022 WELCOMES ITS INDUSTRY PARTNERS

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Advanced Accelerator Applications, S.A. (AAA), a Novartis company, is an innovative medicines company developing targeted radioligand therapies and precision imaging radioligands for oncology. We are committed to transforming patients' lives by leading innovation in nuclear medicine. AAA currently has over 1,000 employees working across 31 sites in 12 countries (Canada, France, Germany, Israel, Italy, the Netherlands, Poland, Portugal, Spain, Switzerland, the UK and the US). The company also has global manufacturing capabilities with 19 facilities in eight countries, and six research & development sites. For more information, please visit: https://www.adacap.com/

Bayer's Radiology business is well placed to be the partner of choice in helping NHS trusts to address the many challenges faced today including the increasing need for governance to demonstrate best practice and improving patient care within increasing financial constraints. With market-leading contrast media and power injector systems, Bayer is able to offer innovative patient care and with the addition of its informatics platform, it can support radiology departments in driving protocol standardisation and easily accessible audit data that enable departments to meet further challenges faced around contrast and radiation dose management. 0118 2063999 www.radiology.bayer.co.uk

GE Healthcare is a leading provider of medical imaging, monitoring, and life science technologies. GE Healthcare enables precision health in diagnostics, therapeutics and monitoring through intelligent devices, data analytics, applications and services to help providers, researchers and life sciences companies in their mission to improve outcomes for patients around the world.

Siemens Healthineers is shaping the future of Healthcare. As a leading medical technology company headquartered in Erlangen, Germany, Siemens Healthineers enables healthcare providers worldwide through its regional companies to increase value by empowering them on their journey towards expanding precision medicine, transforming care delivery, improving the patient experience, and digitalising healthcare. Siemens Healthineers is continuously developing its product and service portfolio, with AI-supported applications and digital offerings that play an increasingly important role in the next generation of medical technology. These new applications will enhance the company's foundation in in-vitro diagnostics, image-guided therapy, and in-vivo diagnostics. Siemens Healthineers also provides a range of services and solutions to enhance healthcare providers' ability to provide high-quality, efficient care to patients. For more information and latest product line visit www.siemens-healthineers.co.uk

Enabling better health and better care at lower cost Philips is a leading health technology company focused on improving people`s lives across the health continuum - from healthy living and prevention, to diagnosis, treatment and home care. Applying advanced technologies and deep clinical and consumer insights, Philips delivers integrated solutions that improve people`s health and enable better outcomes. Partnering with its customers, Philips seeks to transform how healthcare is delivered and experienced. The company is a leader in diagnostic imaging, image-guided therapy, patient monitoring and health informatics, as well as in consumer health and home care. www.philips.co.uk/healthcare

Premium sponsor

Brainlab is a digital medical technology pioneer founded in 1989 and headquartered in Munich. The company employs more than 2000 people in 25 offices around the globe. Brainlab serves physicians, medical professionals and their patients in over 6000 hospitals in 121 countries.
Brainlab creates software-driven medical solutions that digitize, automate and optimize clinical workflows for neurosurgery, spine, trauma, craniomaxillofacial (CMF), general and vascular surgery as well as radiotherapy and radiosurgery. Core products center around surgical navigation, radiotherapy, digital operating room integration, and information and knowledge exchange. The Brainlab open framework operating system will allow third parties to develop medical applications to further advance the field of spatial computing and mixed reality.
Brainlab is dedicated to creating an impact in healthcare. The company connects opportunities from emerging digital technologies to transform healthcare at scale and help improve the lives of patients worldwide. For more information, please visit https://www.brainlab.com/

GenesisCare is the UK's leading independent provider of advanced cancer diagnostics, chemotherapy, radiotherapy and Theranostics. With a philosophy to treat the whole patient not just their cancer, wellbeing and exercise medicine are part of GenesisCare's personalised care programme and are proven to deliver improved patient outcomes.

For almost five decades, Elekta has been a leader in precision radiation medicine. Our more than 4,000 employees worldwide are committed to ensuring everyone in the world with cancer has access to – and benefits from – more precise, personalized radiotherapy treatments. Headquartered in Stockholm, Sweden, Elekta is listed on NASDAQ Stockholm Exchange. Visit elekta.com or follow @Elekta on Twitter, Facebook and LinkedIn.

A pioneer in precision radiation medicine, Elekta develops and supports a range of advanced linear accelerators (linacs) that enable physicians to deliver precise, rapid and patient-specific radiotherapy for individuals with cancer. Elekta's line of high definition digital accelerators includes the latest generation Versa HD™ – a system designed to treat a spectrum of tumors throughout the body using both conventional and highly sophisticated techniques – as well as the clinically-proven and widely used Elekta Synergy® and Elekta Infinity™ linacs.

Elekta Unity is a state-of-the art MR-Linac that is defining a new standard for personalized radiation therapy based on real-time high resolution anatomical and biological MRI at the point-of-care. Unity combines a Philips high-field 1.5T MRI scanner with a best-in-class 7MV linear accelerator and breakthrough online dose replanning software that are fully integrated to enable adaptive radiotherapy and real-time target monitoring.

MOSAIQ® Plaza is a comprehensive suite of digital tools that works seamlessly with Elekta radiotherapy systems to provide the foundation for intelligence-driven, value-based healthcare. MOSAIQ Plaza's smart data center connects healthcare professionals to patients through every step of their journey to ensure efficient, standardized daily practice. Bringing people and information together, MOSAIQ Plaza allows departments to continuously improve their processes, reduce costs and touch more patients' lives.

Healthcare Supply Solutions was set up in April 2021, we are a distributor specialising in SRS, SBRT & SGRT Radiotherapy, we also offer a number of leading products in Urology and Oral Health.

We are the exclusive distributor for CDR Systems, Anage, Miropos Medical, Medical Targeting Technologies & Forward Science in the UK & Ireland. As well as the specialist equipment Healthcare Supply Solutions also have a range of consumable items used in everyday practice in Radiotherapy such as Mouldcare, CE Marked Eye Shields, CT Markers to name a few. Come visit us at https://www.healthcaresupplysolutions.co.uk

A Siemens Healthineers Company

A new, unifying, more intelligent array of oncology solutions matters now more than ever. Together with Siemens Healthineers, we're dedicated to connecting all care to realize a world without fear of cancer. We'll achieve that goal through Intelligent Cancer Care. We're shaping the future of oncology with integrated, connected care pathways designed to drive efficiencies and deliver world-class treatment across the cancer continuum to increase impact where it matters most: patients. We're continually broadening the scope of our advances in Intelligent Cancer Care to ensure that you and your patients receive what you need to fight cancer. For over 70 years, we've been committed to creating simpler, fully integrated, and more intelligent ways for you to fight cancer. We're a global leader in developing and delivering multidisciplinary cancer care solutions through our strategy of always putting cancer patients at the center of our thinking. While we're proud of our past successes and committed to present-day treatment, we're not content to stop there. Our goal is to help more patients beat cancer every year going forward. Our vision is: a world without fear of cancer. www.varian.com

Xiel is a specialist distributor of medical technologies in UK and Ireland. We work with global leading solution providers; therefore, continuously improving efficiency and quality for our customers.

Xiel exclusively represent Sun Nuclear, CIVCO, CIRS, Gammex and MVision to name a few. Please visit the booth today to meet our radiotherapy experts.

Gold sponsor

AMG Medtech offer specialist consultancy and distribution of medical technologies and AI software across the UK and Ireland. AMG Medtech curate Oncology and Radiotherapy solutions to address the daily problems you need solving, providing software applications that break new ground in capability, efficiency and usability.

In AI autocontouring we bring the best, Limbus Contour, which has been created by Oncologists for Oncologists. Limbus Contour features an extensive selection of organ contours (OARs) that work out of the box. All your data will be safe and secure within your local network using only standard CPU hardware to deliver all your contouring protocols. 20mins setup and you'll be saving time on every patient plan.

Radformation has one primary goal: to deliver Intelligent Automation in Cancer Care. With the cancer burden growing faster than Radiation Oncology departments can manage, it is imperative that solutions are made available to clinics which deliver clinical benefits for patients while improving day-to-day operations for staff. In under 6 years since the company's founding, Radformation has enabled thousands of clinics to treat more patients, more quickly, while improving quality, through automating multiple phases of the process.

MIM Software Inc. provides practical imaging solutions in the fields of Radiation Oncology, Radiology, Nuclear Medicine, Neuroimaging, and Cardiac Imaging. MIM have been maestros in multimodality image processing for radiotherapy for years, and now AMG is pleased to partner with them to bring you the most capable and intuitive software for radiation oncology and internal dosimetry. MIM Software offer workstation, mobile, locally hosted and cloud-based platforms.

AMG Medtech and our partners are looking forward to meeting you in person.

Guerbet is a worldwide leader in medical imaging that has been supporting healthcare professionals since 1926. Guerbet offers a wide range of pharmaceutical products, medical devices, software and services for diagnostic and interventional imaging to improve the diagnosis and treatment of patients. A pioneer through more than 90 years in the field of contrast media with over 2,7000 colleagues globally. Guerbet is continuously innovating with 10% of revenue dedicated to research and development across four centres in France, Israel and the United States.

Silver sponsor

Delivering world-class medical imaging solutions, MIS Healthcare has built its reputation for excellence by providing high end imaging equipment, supplied by renowned manufacturers. MIS Healthcare has remained diversified, supplying a variety of premier products and solutions everything from, Digital Radiography, Ultrasound, Radiation Oncology Systems and PACS Solutions.

Oncology Imaging Systems Ltd is an established provider of medical devices centred around cancer diagnosis and treatment.

We specialise in innovative products and solutions for diagnostic imaging, radiotherapy treatment, and medical physics applications.

Visit us at the BIR Annual Radiotherapy and Oncology Meeting and find us online at www.oncologyimaging.com @ OncologyImaging

PTW designs, develops, manufactures and distributes high quality dosimetry and quality control equipment mainly for use in the medical field, especially in radiation therapy, diagnostic radiology and nuclear medicine. We have a global network of subsidiaries including here in the UK and ROI.

Our products are well known throughout the world and are recognized for their workmanship and high level of quality. Founded in 1922, PTW celebrates our centenary this year.

Bronze sponsor

OSL are suppliers of outstanding products, services, support, and value to the radiotherapy community.
Our expert team comprises HCPC therapy radiographers, physics and imaging specialists, engineers and administration gurus enabling OSL to provide state-of-the-art radiotherapy equipment.

Visit our website to view our product range: www.osl.uk.com

RaySearch Laboratories

Lunchtime symposium

MVision AI is the pioneer of guideline-based AI segmentation, GBAIS™, radiotherapy software. Using our deep learning system, we help you automate organ-at-risk contouring, including lymph nodes, to streamline your cancer treatment planning. Robust and GDPR compliant, we bring the highest quality radiotherapy planning SaaS solution for your oncology department.

Thursday 31 March

Stream A

09:00	**Registration and refreshments**
09:20	**Welcome and introduction**
Session 1: Patient voices	
09:30	**Radiotherapy trials – a patient perspective** Julie Wolfarth, The Institute of Cancer Research (remote)
09:50	**Immunotherapy perspective** Mrs Nicola Blackler, Head of Treatment Planning, Plymouth Hospital NHS Trust (remote)
10:10	**Both sides now** Dr Rachel Harris, Head of Professional Practice and Education, The Society and College of Radiographers (remote)
10:30	**Late effects** Ms Lisa Durrant, Research Radiographer, Oxford University Hospitals NHS Foundation Trust (remote)
10:50	**Discussion**
11:00	**Break**
Session 2: Practice changing clinical trials	
11:30	**Clinical trial versus real world data; understanding the arguments** Professor Emma Hall, Deputy Director of the ICR Clinical Trials and Statistics Unit, The Institute of Cancer Research
12:00	**Palliative radiotherapy for bone metastases: evidence-based guidance** Professor Arjun Sahgal, Professor of Radiation Oncology, Sunnybrook Odette Cancer Centre, University of Toronto (remote)
12:30	**Evidence supporting dose and fractionation for EBRT in breast cancer** Dr Indrani Bhattacharya, Consultant Clinical Oncologist, Addenbrook's Hospital (remote)
13:00	**Lunch** **Lunchtime symposium: Worldwide service delivery issues** Dr CS Pramesh, Director of Tata Memorial Mumbai, India and Lead for the National Cancer Grid (REMOTE)
14:00	**Plenary session: 'Debate – X-rays or MR for on-treatment adaptive radiotherapy'** Professor Andy Beavis, Head of Medical Physics, Hull University Teaching Hospitals NHS Foundation Trust; and Professor Ranald MacKay, Director, Christie Medical Physics and Engineering
15:00	**Break**
Session 3: Optimising resources – reuse / recycle / substainability	
15:30	**Climate change and oncology** Dr Rob Chuter, Principal Clinical Scientist, The Christie NHS Foundation Trust; and Honorary Lecturer, University of Manchester
16:00	**Sustainability of radiotherapy: An IAEA perspective** Dr Katie Wakeham, Section Head, Applied Radiation Biology and Radiotherapy, IAEA (remote)
16:30	**Delivering radiation oncology for a sustainable future** Hilma Nordquist, Group Sustainability Director, Elekta AB (remote)
Teaching session: Challenging radiotherapy planning	
17:00	Kirsty Blythe, Radiotherapy Physics, Guy's and St Thomas' NHS Foundation Trust
18:00	**Close of day**

Thursday 31 March

Stream B

09:00	**Registration and refreshments**
09:20	**Welcome and introduction**
Session 1: MR informed radiotherapy	
09:30	**MR-guided radiotherapy** Dr Shaista Hafeez, Consultant Oncologist, Institute of Cancer Research
10:00	**Practicalities of MR sim and MR treatment delivery from a radiographers view** Trina Herbert, MR Linac Operational Superintendent, The Royal Marsden NHS Foundation Trust
10:30	**Radiotherapy beyond geometric adaption – MR as biomarker to inform biological radiotherapy adaption** Uulke van der Heide, Medical Physicist and Group Leader, The Netherlands Cancer Institute and Leiden UMC
11:00	**Break**
Session 2: In practice discussions	
11:30	**Geometric uncertainties in daily online IGRT: Guidance for implementation** Sam Tudor, Consultant Clinical Scientist, and Head of Quality Control and Dosimetry - Radiotherapy Physics, University Hospitals Birmingham NHS Foundation Trust
12:00	**Motion management** Louise Turtle, Research and Development Expert Practitioner, Clatterbridge Cancer Centre
12:30	**Radiobiology in clinical radiotherapy** Professor Bleddyn Jones, Professor, University of Oxford
13:00	**Lunch** **Lunchtime symposium: Worldwide service delivery issues** Dr CS Pramesh, Director of Tata Memorial Mumbai, India and Lead for the National Cancer Grid (remote)
14:00	**Plenary session: 'Debate – X-rays or MR for on-treatment adaptive radiotherapy'** Professor Andy Beavis, Head of Medical Physics, Hull University Teaching Hospitals NHS Foundation Trust; and Professor Ranald MacKay, Director, Christie Medical Physics and Engineering
15:00	**Break**
Session 3: Manufacturer session	
15:30	**ExacTrac Dynamic: from brain metastases to bone metastases and mobile targets** Ms Antonia Bryan, Senior Medical Physicist, BrainLab
15:45	**Title to be confirmed** Speaker to be confirmed, Elekta
16:00	**Title to be confirmed** James Good, Clinical Director - Stereotactic Radiotherapy, GenesisCare
16:15	**Clinical decision support using intelligent cancer care** Dr Irene Alejandra Pecka Valencia, EMEA Product Marketing Manager Clinical Solutions, Varian a Siemens Healthineers company
16:30	**Enhanced patient safety with the SunCHECK platform** Speaker to be confirmed, SunNuclear
16:45	**Intrafraction prostate motion management during dose-escalated linac-based SBRT** Dr Denis Panizza, Senior Medical Physicist, ASST Monza - San Gerardo Hospital (Healthcare Supply Solutions)
Teaching session: Radiomics – an update for non-radiomics experts: Simple to complex	
17:00	Professor Philippe Lambin, Head of Dept of Radiation Oncology, Maastricht University (remote)
18:00	**Close of day**

Friday 1 April

Stream A

Teaching session: Adaptive radiotherapy	
08:30	Professor Uwe Oelfke, Deputy Head of the Division of Radiotherapy and Imaging, Head of the Joint Department of Physics, The Institute of Cancer Research
09:00	**Registration and refreshments**
Session 1: Adaptive radiotherapy	
09:30	**Developing advanced practice roles for on-line adaptive radiotherapy with Ethos** Ms Siobhan Graham, Head of Radiotherapy in Queens Romford, Barking, Havering and Redbridge University Hospitals NHS Trust
10:00	**Clinical experience with Ethos therapy at MST** Dennis Daal, Senior Radiotherapy Therapist in Medisch Spectrum Twente, Enschede, Netherlands (remote)
10:30	**Patterns of practice for adaptive and real-time radiation therapy (POP-ART RT)** Jenny Bertholet, Post Doc, Inselspital, Bern University Hospital and University of Bern (remote)
11:00	**Break**
Session 2: Engineering / IT / Infrastructure	
11:30	**The Clatterbridge Cancer Centre – 2020 onwards** Dr Carl Rowbottom, Director of Physics, Clatterbridge Cancer Centre
12:00	**Wow that's big** Mr Shaun Atherton, Head of Engineering, The Christie NHS Foundation Trust
12:30	**MR guided online adaptive radiotherapy: Technical challenges and clinical opportunities** Dr Simeon Nill, Head of Translational Radiotherapy Physics, The Royal Marsden Hospital and Institute of Cancer Research
13:00	**Lunch** **Lunchtime symposium sponsored by MVision: "Guideline-compliant AI segmentation"** Jarkko Niemelä, Chief Product Officer, MVision
14:00	**Plenary session: 'Immuno-radiotherapy'** Professor Sandra Demaria, Professor of Radiation Oncology, Pathology and Laboratory Medicine, Weil Cornell Medicine (remote)
15:00	**Break**
Session 3: Particle and other innovative treatments	
15:30	**High energy electron therapy** Prof Magdalena Bazalova-Carter, Associate Professor, University of Victoria (remote)
16:00	**Proton therapy** Professor Antony Lomax, Chief Medical Physicist, Paul Scherrer Institut (remote)
16:30	**Heavy ion therapy** Professor Karen Kirkby, Professor of Proton Therapy Physics, University of Manchester (remote)
17:00	**Plenary session: Role extension and skill mix** Dr Jonathan Hicks, Ms Karen Moore and Ms Susan Morris, Beatson West of Scotland Cancer Centre
17:30	**Close of event**

Friday 1 April

Stream B

Teaching session: Brachytherapy	
08:30	Dr Alex Stewart, Consultant Clinical Oncologist, Royal Surrey County Hospital; and Dr Keith Langmack, Head of Radiotherapy Physics, Nottingham University Hospitals NHS Trust
09:00	**Registration and refreshments**
Session 1: SRS / SABR / Oligomets	
09:30	**Clinical application of SABR in oligometastatic disease** Dr Sean O'Cathail, Clinical Senior Lecturer and Honorary Consultant Clinical Oncologist, Beatson West of Scotland Cancer Centre
10:00	**Clinical experience in physics planning for oligometestatic disease** Ms Susan Morris, Principal Physicist, Glasgow
10:30	**Optimal sequencing of stereotactic radiosurgery and systemic therapy for brain metastases** Professor Mark Pinkham, Radiation Oncologist, Director of Radiation Oncology Research, University of Queensland, Australia (remote)
11:00	**Break**
Session 2: Advances in radiotherapy treatment planning	
11:30	**Turning Hospitals into AI Factories using cloud-based open-source technologies** Dr Rajesh Jena, Group Leader, Machine learning and Radiomics, University of Cambridge
12:00	**Clinical experience of knowledge-based and multi-criteria optimisation planning methods** Nicola Laverick, Principal Physicist, The Beaton West of Scotland Cancer Centre
12:30	**Proton beam therapy planning: Current perspectives and challenge** Ms Gabrielle Testa, Proton Beam Therapy Physics Practitioner, The Christie NHS Foundation Trust, Manchester
13:00	**Lunch** **Lunchtime symposium sponsored by MVision: "Guideline-compliant AI segmentation"** Jarkko Niemelä, Chief Product Officer, MVision
14:00	**Plenary session: 'Immuno-radiotherapy'** Professor Sandra Demaria, Professor of Radiation Oncology, Pathology and Laboratory Medicine, Weil Cornell Medicine (remote)
15:00	**Break**
Session 3: Safety and regulation	
15:30	**UKHSA – National patient safety initiative in radiotherapy** Úna Findlay, Specialist Radiation Protection Scientist, UKHSA (remote)
16:00	**CQC – 'What good looks like'** Caroline Berry, IR(ME)R Inspector – Radiotherapy, CQC (remote)
16:30	**NHSEI – National initiatives in patient safety in healthcare** Lauren Mosely, Head of Patient Safety Implementation, NHSEI (remote)
17:00	**Plenary session: Role extension and skill mix** Dr Jonathan Hicks, Ms Karen Moore and Ms Susan Morris, Beatson West of Scotland Cancer Centre
17:30	**Close of event**

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