

WELCOME

LECTURE	08:30 08:40 08:40 08:50 09:20 09:20 09:20 09:20 09:20 09:20	10:10 10:20 10:30 10:30 10:40 10:50 11:00			12:00 12:10 12:20 12:20 12:30 12:50 13:50	1.1	BIK/PHDA 13:20 13:30 13:40 13:50 13:50 13:50 MATERALISE	14:10 14:20 14:30 14:40 14:50 15:10	15:20 15:30	ATACK 15:00 ATACK 16:00 ATACK 16:00 16:20 16:20 16:20 16:20 16:20
ZONE			Virtual reality	true 3D	r S		OSL		NUANCE	
	EXHIBITION OPENS 09.00						FRCH drop in sessions CENTRAL 8	FRCR	drop in sessions	
EXHIBITION HALL	EXHIBITION			MSK Ultrasound Ilnner			MSK	Ultrasound Lower		Head & Neck Ultrasound
					2H Head and Neck OsiriX EXCHANGE 10					4H Breast Tomography workshop EXCHANGE 6/7
	1G Introduction to 0siriX EXCHANGE 10	r edicine and			2G RCR Trainees session tips for portfolio development COBDEN 3/4		on stands	3G Research as a successful component of career development	CHARTER 3	4D New models of aducation to promote developments EXCHANGE 9
	1F Urology CENTRAL 5/6/7	urgeon, Associate Dear t f Maryland School of M	l education on stands		2F Emerging technologies and strategies CHARTER 3		Lunch, exhibition and education on stands	3F Breast mutitidisciplinary meeting CHARTER 4		4C Urology CHARTER 3
	1E Head and neck soft tissues EXCHANGE 9	scopic and Colorectal S don Medical School, Uk n Systems, University o n, USA	Refreshments, exhibition, poster tours and education on stands		LE Functional topics in gynaecology CENTRAL 5/6/7		Lunch, ex	3E Skull and neck AUDITORIUM		4G Porfferred papers: Service optimisation COBDEN 3/4
	1D The Italian Job LIVE DEMO SESSION CENTRAL 3/4	Plenary session Plenary session nior Lecturer, Barts and the London M Vice Chair Research Information Syste VA Maryland Healthcare System, USA AUDITORIUM	Refreshments, exh	1	2U Bone & 2U tumours and their imaging AUDITORIUM			3D Imaging of pervic pain EXCHANGE 9		4B RPS masterclass: IR regulations CENTRAL 5/6/7
	1C New approaches to neurosurgery & neuro-oncology OOBDEN 3/4	aons? Shafi Ahmed, Cor and Honorary Senior Lec d, Professor and Vice Ch VA Mar		5	2C Short 2 long term implications of cancer EXCHANGE 9		re - arston, Provincial	3C PACS up in the air INTERACTIVE COBDEN 3/4		4A Collaboration between NHS and the Private sector AUDITORIUM
n onen	18 Radiographers contribution to image interpretation CHARTER 3	Plenary session Will robots replace surgeons? Shafi Ahmed, Consultant General. Laparoscopic and Colorectal Surgeon, Associate Dean and Honorary Senior Lecturer, Barts and the London Medical School, UK Machine learning and Al Eliot Siegel, Professor and Vice Chair Research Information Systems, University of Maryland School of Medicine and VA Maryland Healthcare System, USA AUDITORIUM		2B Profferred	papers villicat CHARTER 4		AUN Stantey Menute Lecture - Coming out in healthcare Amanda Bolderston, Provincial Professional Practice and Academic Leader, British Columbia Cancer Agency, Canada ALDITORIUM	3B UKRO Molecular radiotherapy CENTRAL 3/4		4F UKRO Proffered papers CHARTER 4
08 00-19 00 Redistration open	14 Building a sustainable radiotherapy service CHARTER 4	Machine lea		2A UKRO	Drawy merapy CENTRAL 3/4		Sud Coming out in he <i>Professional Practi</i>	3A UKRO Measuring toxicity CENTRAL 5/6/7		4E UKRO Data CENTRAL 3/4
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UKRC

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EXHIBITORS SYMPOSIA & DEMO ZONE

> EXHIBITION PLAN & LIST

> EXHIBITOR INFORMATION

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	Duilding a model along wedleth groups consider
<u>08.30 - 09.30</u> 1A	Building a world class radiotherapy service for the 21st century
UKRO	Chairs: Angela Baker, President, UKRO, UK
UK RO	Challenges and strategy for implementation
	of a sustainable radiotherapy service
CHARTER 4	Nick Slevin, Consultant Clinical Oncologist, The Christie NHS Foundation Trust, UK
	Developing an internationally competitive
	radiotherapy research programme
	Anthony Chalmers, Professor of Clinical
	Oncology, University of Glasgow, UK
<u>08.30 - 09.50</u>	Closing the gap - radiographers contribution
1B	to image interpretation in 2017
Service innovation &	Chair: Bev Snaith, Lead Consultant Radiographer, Mid Yorkshire Hospitals NHS
optimisation	Trust, UK
CHARTER 3	Reducing the potential for error and
ONWITTERTO	miscommunication in the emergency department - can Australian radiographers
	reach new heights? Michael Neep, Metro
	South Health, Queensland, Australia
	Radiographers and lung cancer: An
	opportunity for change? Nick Woznitza, Clinical Academic Reporting Radiographer,
	Homerton NHS Trust & Canterbury Christ
	Church University, UK
	The radiologists view Nicholas Spencer,
	Consultant Radiologist, Mid Yorkshire Hospitals NHS Trust, UK
	The managers view: A DGH journey from start
	to finishwhy a consultant radiographer?
	Mark Buckley, Professional Lead Radiology,
	Medical Physics, Medical Photography, Cardiac and Respiratory Physiology, The Rotherham
	NHS Foundation Trust, UK
08.30 - 09.50	NHS Foundation Trust, UK New approaches to neurosurgery and
1C	New approaches to neurosurgery and neuro-oncology
1C Imaging	New approaches to neurosurgery and neuro-oncology Chair: John Ridgway, Head of Magnetic
1C Imaging technologies	New approaches to neurosurgery and neuro-oncology
1C Imaging technologies &informatics	New approaches to neurosurgery and neuro-oncology Chair: John Ridgway, Head of Magnetic Resonance Physics, Leeds Teaching Hospitals NHS Trust, UK Advanced MR imaging techniques for
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Interactive FET-CT

Soft tissues Chair: Rhian Rhys, Consultant Radiologist, Cwm Taf University Health Board, UK Thyroid nodules - an epidemic! Steve Colley, Consultant Radiologist, University Hospital Birmingham NHS Trust, UK Parathyroid imaging update Polly Richards, Consultant Radiologist, Barts NHS Trust, UK Salivary stones, baskets and balloons Nick Drage, Consultant Dental and Maxillofacial Radiologist, Cardiff and Vale University Health Board, UK Sialendoscopy and minimally invasive salivary surgery Katherine George, Consultant Oral and Maxillofacial Surgeon, King's College Hospital, Guy's & St Thomas' NHS Foundation Trust, UK
Urology Chair: Alison Bradley, Consultant Radiologist, Royal Cornwall Hospitals Trust, UK Imaging of prostate cancer. Current status Peter Beddy, Consultant Radiologist, St James Hospital, Dublin, Ireland Staging of renal cancer Grainne Govender, Consultant Radiologist, St James Hospital, Dublin, Ireland Scrotal tumours Navin Ramachandran, Consultant Radiologist, University College Hospital, London, UK
Introduction to OsiriX for beginners Introductory workshop with MAC workstations loaded with OsiriX, to enable participants to look at case studies.
Opening plenary Chair: Maryann Hardy, President, UKRC, UK Will robots replace surgeons? Shafi Ahmed, Consultant General, Laparoscopic and Colorectal Surgeon, Associate Dean and Honorary Senior Lecturer, Barts and the London Medical School, UK Machine learning and AI Eliot Siegel, Professor and Vice Chair Research Information Systems, University of Maryland School of Medicine and VA Maryland Healthcare System, USA
Refreshments and exhibition, poster viewing, demo sessions and education on the stands
Virtual reality True 3D This session will give attendees the opportunity to view CT and MRI data sets in True 3D. Patient specific anatomy will be visible in the open 3D space on top of the monitor screen using the EchoPixel True 3D software. Participants will be able, in small groups, to interact with the full DICOM data set in real-time, enabling them to reach in, grasp, dissect and interact with the key clinical features in a truly 3D form, as if they were the real physical objects.

Advances

EXHIBITION PLAN & LIST

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<u>11.30 - 12.50</u> 2A	Advancing techniques and technologies in brachytherapy	<u>11.50 - 13.10</u> 2C	Short and long term implications of cancer treatments
UKRO UKRO CENTRAL 3/4	Chairs: Chris Lee, Lead Consultant Physicist - Specialist Services, The Clatterbridge Cancer Centre NHS Foundation Trust, UK and Peter Hoskin, Consultant Clinical Oncologist, Mount Vernon Cancer Centre, UK	UKRCO Joint session EXCHANGE 9	Chairs: Gerry Hanna, Senior Lecturer and Consultant in Clinical Oncology, Queen's University of Belfast, UK and Julian Kabala, Consultant Radiologist, University Hospital Bristol, UK
	Advancing techniques and technologies in modern brachytherapy Bradley Pieters, Head of the Brachytherapy - Academic Medical Centre, University of Amsterdam, Netherlands Physics & technology in brachytherapy: Is something new? Dimos Baltas, Director Division of Medical Physics, Department of Radiation Oncology, Medical Center University of Freiburg, Germany Brachy HERO Peter Hoskin, Consultant Clinical Oncologist, Mount Vernon Cancer Centre, UK Proffered paper Evaluation of MR-CT fusion for image guided brachytherapy for gynaecological cancer Nancy Lewis, University Hospitals Southampton NHS Foundation Trust, UK		Cancer risk estimates from diagnostic medical radiation exposures in young people Mark Pearce, Professor of Applied Epidemiology, Newcastle University, UK Impact of target volumes on 2nd cancer risk from lymphoma radiotherapy? Robin Prestwich, Consultant Clinical Oncologist, Leeds Teaching Hospitals NHS Trust, UK Late GI side-effects following abdominal or pelvic radiotherapy Clare Donnellan, Consultant Gastroenterologist, St James's University Hospital, Leeds, UK Acute and late radiological changes following thoracic radiotherapy Lynne Armstrong, Consultant Radiologist, University Hospitals Bristol, UK
11.30 - 12.50 2B Proffered papers CHARTER 4	Proffered papers - clinical Chair: Vikas Shah, Consultant Radiologist, University Hospitals of Leicester, UK Interpretation of TMJ pathology - a jaw- dropping review Gary Cross, Royal Free Hospital, UK Assessing the appropriateness of requests for Lumbar spine radiography for low back pain in the community Ken-win To, Kettering General Hospital NHS Foundation Trust, UK Renal disease in Northern Territory, Australia - a matter of life choices? Tu Anh Dao, Alice Springs Hospital, Northern Territory, Australia Mature and immature ovarian teratomas: A spectrum of features and multimodality problem solving Kelsey Watt, Plymouth Hospitals NHS Trust, UK MRI-TRUS fusion - guided prostate biopsy - initial clinical experience Maeve O'Sullivan, AMNCH, Ireland	11.50 - 13.10 2D MSK AUDITORIUM	 Bone and soft tissue tumours and their imaging Chair: Andrew Carne, Consultant Radiologist, Deputy Medical Director, Chief Clinical Information Officer, Royal Surrey County Hospital NHS Foundation Trust Bone tumours in the appendicular skeleton Prudencia Tyrrell, Consultant Radiologist, Robert Jones and Agnes Hunt Orthopaedic Hospital, Oswestry, UK Bone tumours in the axial skeleton Bernhard Tins, Consultant Radiologist, Robert Jones and Agnes Hunt Orthopaedic Hospital, Oswestry, UK Soft tissue tumours Naomi Winn, Consultant Radiologist, Robert Jones and Agnes Hunt Orthopaedic Hospital, Oswestry, UK Tumour mimics Jaspreet Singh, Consultant Radiologist, Robert Jones and Agnes Hunt Orthopaedic Hospital, Oswestry, UK
11.30 - 12.50	MRI characterisation of incidentalomas in the liver: Is intravenous contrast required? Vincent Leung, University Hospitals of North Midlands, UK Aunt Minnies of uroradiology Jonathan Bevan, Salford Royal Foundation Trust, UK MSK Ultrasound	11.50 - 13.10 2 E Obstetrics & gynaecology CENTRAL 5/6/7	Functional topics in gynaecology Chair: Katherine van Ree, Consultant Radiologist, Imperial College NHS Trust, UK PET CT in gynaecological malignancies Tara Barwick, Consultant Radiologist, Imperial College NHS Trust, UK Functional tumours of the ovary Anju Sahdev,
MSK Ultrasound	Hands on demonstration sessions with live models in the exhibition hall.		Reader and Consultant Radiologist, Barts Health, UK
EXHIBITION HALL		12.00 - 13.20 2 F Breast CHARTER 3	Emerging technologies and strategies Chair: Tamara Suaris, Consultant Radiologist, St Bartholomew's Hospital, London, UK Contrast spectral mammography Sarah Tennant, Consultant Radiologist, Nottingham University Hospitals NHS Trust, UK Updates on digital breast tomosynthesis Juliet Morel, Consultant Radiologist, King's College Hospital, London, UK Surgical updates Andrew Baildam, Consultant Oncoplastic Surgeon, St Bartholomew's Hospital, London, UK

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EDUCATION ON THE STANDS

EXHIBITORS SYMPOSIA & DEMO ZONE

> EXHIBITION PLAN & LIST

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12.00 - 13.20 2G RCR Trainees COBDEN 3/4	Tips for portfolio development and preparing for a consultant career Chairs: Janarthan Suntharanathan, Radiology Specialty Registrar, Health Education North West, UK and Caroline Parkin, Consultant Breast Radiologist, Nightingale Centre,	14.00 - 14.20 Oncology Systems Ltd DEMO ZONE	Sales Specialist, Oncology Systems Ltd, UK	
	University of South Manchester NHS Foundation Trust, UK Thinking about consultancy - what's right for you? Diana Rosof Williams, Consultant Radionuclide Radiologist, Lancashire	14.00 - 14.30 Materialise EXHIBITION LECTURE	Materialise Medical 3D printing and the future for radiology Peter Metherall, Sheffield Teaching Hospitals NHS Foundation Trust, UK	
	Teaching Hospital Trust, UK Obtaining your consultant post - how to do it? Kate Downey, Consultant Radiologist, The Royal Marsden Hospital, UK Transitioning from trainee to consultancy:	14.00 - 15.20 MSK Ultrasound EXHIBITION HALL	MSK Ultrasound Hands on demonstration sessions with live models in the exhibition hall.	
	Leadership and management Pavan Najran, Consultant Radiologist, The Christie NHS Foundation Trust, UK Creating a successful CV Alex Weller, Consultant Radiologist, Northwick Park NHS Foundation Trust, UK Less than full time (LTFT) training - Having the best of both worlds Tharsi Sarvananthan, ST4 Radiology Registrar, HEKSS - Frimley Park Hospital, UK	14.10 - 15.30 3A UKRO UK RO CENTRAL 5/6/7	Measuring toxicity Chair: Kevin Franks, Consultant Clinical Oncologist, St James' Institute of Oncology (SJIO), Leeds Cancer Centre & Honorary Clinical Associate Professor, University of Leeds, UK Measuring toxicity in pelvic radiotherapy patients Alexandra Gilbert, NIHR Academic Clinical Lecturer in Clinical Oncology, University of Leeds, UK Assessment of Patient Reported Outcomes	
12.00 - 13.20 2H Head & neck OsiriX EXCHANGE 10	Head and neck OsiriX Rhian Rhys, Consultant Radiologist, Cwm Taf University Health Board, UK Steve Colley, Consultant Radiologist, University Hospital Birmingham NHS Trust, UK		(PROs) in clinical trials of cancer therapy developing validated PROs Dame Lesley Fallowfield, Director of Sussex Health Outcomes Research & Education in Cancer, UK Patient reported outcomes, what's important to patients? Margaret Grayson, Chair, Northern Ireland Cancer Research	
<u>12.50</u>	Lunch, exhibition and education on the stands		Consumer Forum, UK	
12.40 - 13.10 Nuance communications EXHIBITION LECTURE	Nuance communications Improved quality. Outcomes. Productivity. Data-driven analytics Bill Boonn, Chief Medical Information Officer, Nuance Communications, UK	14.10 - 15.40 3B UKRO	Molecular radiotherapy Chair: Glenn Flux, Head of Radioisotope Physics, Royal Marsden Hospital & Institute of Cancer Research, UK The changing landscape of molecular	
13.00 - 13.20 Healthcare Software Solutions Ltd DEMO ZONE	Healthcare Software Solutions Ltd CRIS central - the cross-site reporting and imaging sharing solution Matthew Smith, Business Strategy Manager, Healthcare Software Solutions Ltd, UK and Phil James, Account Director, Healthcare Software Solutions Ltd, UK	CENTRAL 3/4	radiotherapy Glenn Flux, Head of Radioisotope Physics, Royal Marsden Hospital & Institute of Cancer Research, UK Toward personalised treatment planning for molecular radiotherapy Lidia Strigari, Head of Laboratory of Medical Physics and Expert System, Regina Elena National Cancer Institute, Italy	
SCoR Keynote AUDITORIUM	SCoR Keynote: Stanley Melville Lecture Chair: Steve Herring, President, Society of Radiographers, UK Coming out in healthcare Amanda Bolderston, Provincial Professional Practice and Academic Leader, British Columbia Cancer Agency, Canada		Beyond volume delineation: Theragnostic PET imaging to predict response to radium-223 molecular radiotherapy lain Murray, Principal PET Physicist, Joint Department of Physics, Royal Marsden NHS Foundation Trust, UK	
13.20 - 14.20 FRCR Drop in session CENTRAL 8	FRCR Drop in session FRCR VIVA teaching tutorial run by experienced FRCR tutors.		Proffered papers Two year review of a clinical Ra223 service Sarah Atkinson, Newcastle Hospitals NHS Trust, UK Impact of non-rigid registrations for	
13.20 - 13.50 BIR/PRDA EXHIBITION LECTURE	BIR/PRDA Pelvic radiation disease a late effect of radiotherapy		a clinical trial in Peptide Receptor Radionuclide Therapy Berenato Salvatore, School of Engineering, Cardiff University, UK Comparison of quantitative lutetium-177 (177Lu) measurements in European hospitals James Scuffham, Royal Surrey County Hospital, UK	

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14.10 - 15.30 3 C Imaging echnologies informatics NTERACTIVE COBDEN 3/4 14.10 - 15.30	Clouds & bunkers: PACS up in the air, extreme collaboration and staying prepared Chair: Anant Patel, IM&T Advisory Group, Society and College of Radiographers, UK New collaborative cloud systems Simon Harris, Vanguard Project Manager, EMRAD (East Midlands Radiology Consortium), UK Closer to home: The European cloud Fredrik Häll, VP Product Management, Sectra, Sweden Best practice disaster recovery Huw Shermer, CCIO Wales, Medical Director, NHS Wales Informatics Service, UK Business continuity in a 24/7 industry Gareth Baxendale, Head of Technology, National Institute for Health Research - Clinical Research Network, UK	14.20 - 15.40 3G Education & research CHARTER 3	Research as a successful component of radiographer career development Chair: Rachel Harris, Professional and Educational Manager, SCoR, Steering Group Chair of CAHPR, UK Dual registration improves image guidance in head and neck radiotherapy: An implementation study Simon Goldsworthy, Principal Research Radiographer, Taunton and Somerset NHS Foundation Trust, UK The only way is ethics! Julie Woodley, Senio Lecturer - Allied Health, University of the West of England, UK Inter-observer variation in quality assurance of sonographer performed non-obstetric ultrasound Peter Cantin, Consultant Sonographer, Plymouth Hospitals NHS Trust, UK Supporting allied health professional
3D Obstetrics & gynaecology EXCHANGE 9	Chair: Katherine van Ree, Consultant Radiologist, Imperial College NHS Trust, UK The diagnosis of chronic pelvic pain - how to triage patients using ultrasound Susanne Johnson, Associate Specialist in Gynaecology, Princess Anne Hospital, University Hospital Southampton, UK Pelvic congestion syndrome - imaging and treatment Kate Waters, Consultant	15.10 - 16.10 FRCR Drop in session CENTRAL 8	Supporting allied nearth professional involvement in research Rachel Harris, Professional and Educational Manager, SCoF Steering Group Chair of CAHPR, UK FRCR Drop in session FRCR VIVA teaching tutorial run by experienced FRCR tutors.
14.20 - 15.40 3E Head & neck	Radiologist, University Hospitals of Leicester, UK Skull and neck Chair: Rhian Rhys, Consultant Radiologist, Cwm Taf University Health Board, UK	15.30 - 15.50 Nuance communications DEMO ZONE	Nuance communications Nuance mPower Clinical Analytics, innovated by Montage
AUDITORIUM	Temporal bone - cholesteatoma Ravi Lingam, Consultant Radiologist, Northwick Park Hospital, London Northwest Healthcare NHS Trust, UK Temporal bone - if it's not cholesteotoma Matt Bull, Consultant Radiologist, Frimley Health NHS Foundation Trust, UK Central skull base - pearls and pitfalls Gitta Madhani, Consultant Radiologist, Imperial College Healthcare NHS Trust, UK Intracranial complications of ENT disease Gillian Potter, Consultant Neuroradiologist, Salford Royal NHS Foundation Trust, UK	15.40 - 17.00 Hot topic: NHS cyber attack EXHIBITION THEATRE	NHS cyber-attack: What happened and what can we learn from it? Chair: Maryann Hardy, President, UKRC, UK What happened to the NHS? (Overview of the malicious software, why it happened, and are we at risk of it happening again?) Andrew Dwyer, Cyber Security Oxford, University of Oxford, UK The NHS under attack (Experience from the ground floor - Hospital impact and radiology impact) Timothy Taylor, Consultai Radiologist, Nottingham University Hospitals NHS Trust and Medical Director EMRAD
14.20 - 15.40 3 F Breast CHARTER 4	Multidisciplinary meeting Chair: Tamara Suaris, Consultant Radiologist, St Bartholomew's Hospital, London, UK Speakers: • Juliet Morel, Consultant Radiologist, King's College Hospital, London, UK • Sarah Tennant, Consultant Radiologist, Nottingham University Hospitals NHS Trust, UK • Louise Jones, Consultant Histopathologist, St Bartholomew's Hospital, London, UK • Louise Jones, Consultant Histopathologist, St Bartholomew's Hospital, London, UK • Andrew Baildham, Consultant Oncoplastic Surgeon, St Bartholomew's Hospital/ Manchester, UK		NHS Trust and Medical Director, EMRAD (East Midlands Radiology Consortium), UK Wannacry!? Industry reflections on the journey Peter Harrison, Managing Director, Siemens Healthineers, UK

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15.50 - 17.10 4A UKRCO Joint session AUDITORIUM	Beyond competition: Collaboration between the NHS and the private sector Chair: Peter Sharpe, Chief Executive Officer, Cobalt Health, UK Community imaging provision: Experience from the Sussex MSK service Ian Francis, Founder/Director, Medical Imaging Partnership, UK Key commercial partnerships in Information Technology: Delivering strategic change in the NHS Andrew Fearn, Director of ICT Services and SIRO, Nottingham University Hospitals NHS Trust and Accountable Officer, EMRAD (East Midlands Radiology Consortium), UK Outsourced reporting service: Ensuring service continuity Charles House, Consultant Radiologist, Divisional Director, University College London, UK Integrating the independent sector provision in cancer treatment Mark Lomax, UK General Manager, Genesis Care, UK	15.50 - 17.10 HEAD & NECK ULTRASOUND EXHIBITION HALL 16.00 - 17.30 4 E UKRO UK RO CENTRAL 3/4	Head and neck Ultrasound Rhian Rhys, Consultant Radiologist, Cwm Taf University Health Board, UK Steve Colley, Consultant Radiologist, University Hospital Birmingham NHS Trust, UK Data Chair: Colin Baker, Head of Radiotherapy Physics, Royal Berkshire NHS Foundation Trust, UK Possibilities and pitfalls of big data analysis in radiotherapy Marcel van Herk, Professor, University of Manchester, Manchester Academic Health Science Centre and The Christie NHS Trust, UK The VoxTox programme – recent outcomes, updates and implications Neil Burnet, Professor of Radiation Oncology, Cambridge University Department of Oncology, Addenbrooke's Hospital, UK SABR outcomes analysis: A prototype for a centralised UK registry of radiotherapy
15.50 - 17.10 4B RPS CENTRAL 5/6/7	RPS Masterclass Chair: Graham Hart, RPA/LPA, Your RPA, UK Revision of lonising radiations regulations Clare McNicholas, Policy Lead, Health & Safety Executive, UK		plan information and clinical outcomes Gareth Webster, Operational Lead Physicist, Worcestershire Oncology Centre, UK Governance issues concerning the sharing of data in radiotherapy Andrew Reilly, Head of Radiotherapy Physics, North West Cancer Centre, UK
15.50 - 17.10 4C Urology CHARTER 3	Urology Chair: Navin Ramachandran, Consultant Radiologist, University College Hospital, UK Developing diagnostic imaging strategies for investigating haematuria Nigel Cowan, Consultant Radiologist, Queen Alexandra Hospital, Portsmouth, UK Imaging the uroepithelium Michael Maher, Professor of Radiology, Cork University Hospital and University College Cork, Iroland		Proffered papers Effects of registration uncertainties in image-based data mining Eliana Vasquez Osorio, The University of Manchester, UK Towards a state-wide distributed learning and datamining network in radiation oncology to support clinical decisions David Thwaites, Institute of Medical Physics, University of Sydney, Australia
15.50 - 17.10 4D Education & research EXCHANGE 9	 Hospital and University College Cork, Ireland Benign renal lesions Alison Bradley, Consultant Radiologist, Royal Cornwall Hospitals Trust, UK New models of education to promote positive developments in healthcare Chair: Janice St John Matthews, Associate Head of Department, Allied Health Professions, University of the West of England, Bristol, UK Utilising an adapted 'world café' method to teach integrated care concepts to postgraduate healthcare students Kerry Mills, Senior Lecturer - Diagnostic Imaging, University of the West of England, Bristol, UK How can education help to ensure radiographers are at the heart of the changing NHS Ben Roe, Deputy Chief Operating Officer, Taunton & Somerset NHS Trust, UK Multi qualification radiographers at threshold - the Finnish multi qualification Päivi Wood, CEO, Radiography Professional Body, Finland A model for collaborative development of the workforce Petra Jacobs, Deputy Radiotherapy Services Manager, University 	16.10 - 17.10 4 F UKRO UK RO CHARTER 4	UKRO proffered papers Chair: Andy Beavis, Consultant Medical Physicist and Head of Radiation Physics, Hull and East Yorkshire NHS Hospitals Trust, UK Clinical implementation of a knowledge based planning tool for prostate VMAT Richard Powis, Worcestershire Acute Hospitals NHS Trust, UK Evaluating a fully automated VMAT planning system with a clinically intuitive site-based calibration Phillip Wheeler, Velindre Cancer Centre, UK The impact of electron return effect on radiotherapy plan quality for peripheral sarcomas Julie Webb, The Christie NHS Foundation Trust, UK Volumetric modulated arc therapy (VMAT) for complex breast radiotherapy treatments - planning, delivery and QA experience Ali Esmail, Ipswich Hospital NHS Trust, UK Hypofractionated dose painting IMRT with 20 fractions for intermediate to high risk prostate cancer Joachim Cham, Clatterbridge Cancer Centre NHS Foundation Trust, UK

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Advance

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16.00 - 17.20 4G Proffered papers	Proffered papers - service optimisation and innovation <i>Chair: Nicholas Spencer, Consultant Radiologist,</i> <i>Mid Yorkshire Hospitals NHS Trust, UK</i>	16.00 - 17.20 4H Breast Tomography	Breast tomography workshop David Evans, Consultant Radiologist, St Bartholomew's Hospital, London, UK
COBDEN 3/4	On call provisional CT reporting - are we getting it right? Jaymini Patel, London North West Healthcare Trust, UK	EXCHANGE 6/7	Exhibition, welcome wine reception and posters
	Automatically populated worklist enhances safety of on call CT scan checking systems Nemi Gandy, London North West NHS Trust, UK An audit of waiting times for patients with known or suspected malignancy	17.00 - 18.00 BIR EXHIBITION HALL	Meet Simon Thompson, the new Chief Executive and Andy Rogers, President both of the British Institute of Radiology on stand P2 during the wine reception.
	undergoing CT-guided percutaneous biopsy Frances Sheehan, East and North Hertfordshire NHS Trust, UK The consultant breast radiographer - a role innovation exemplar Anne-Marie Culpan, University of Leeds, UK A five year longitudinal evaluation of the impact of a bespoke professional development	17.00 - 18.00 Radiology fellowships networking event DEMO ZONE	Radiology fellowships networking event At this networking event trainees interested in doing fellowships can meet with representatives from units that offer fellowships. It will help trainees identify their current and future options, expand their network of contacts and gather information.
	programme for consultant radiographers Julie Nightingale, University of Salford, UK Is radiography ready for apprenticeships? A critical review of the evidence and reflection on its implications Denise Baker, University of Derby, UK An audit on the impact of a regional collaborative out of hours service on trainee feedback Christopher Keegan, Mersey School of Radiology, UK and Shruti Patel, Mersey School of Radiology, UK Variations in reporting radiographer report structure Anthony Manning-Stanley, University of Liverpool, UK	17.10 - 17.30 The doctorate den EXHIBITION LECTURE	The doctorate den Calling all radiography Doctorate students, perspective Doctorate students and newly completed Doctorate students. In 2016, the Society & College of Radiographers released the "Research Strategy 2016-2021" and pledged 1% of the profession would hold Doctorates by 2021. This is an informal networking opportunity for those who share this ambition. Be part of the growing community of "Radiographers' undertaking Doctorates" to advance the profession. Learn how you can stay connected over the

Bar and music night - The Milton Club 20.30

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TUESDAY 13 JUNE UK Dose awareness day 😪



TUESDAY 13 JUNE UK Dose awareness day 😪

08.00 - 09.00 5A UKRO Elekta UK RO CHARTER 4	future Radiation Therapy Prof. Uwe Oelfke, Royal Marsden Hospital and the Institute of Cancer Research	08.00 - 09.20 5 E Neuro CHARTER 3	Neuroradiology Chair: Maneesh Patel, Consultant Neuroradiologist, Imperial College NHS Trust, UK Brain tumour update Adam Waldman, Professor of Neuroradiology, University of Edinburgh, UK Update on stroke imaging Grant Mair, Senior Clinical Fellow and Honorary Consultant Neuroradiologist, The University of Edinburgh, UK
08.00 - 09.20 5B Service innovation & optimisation COBDEN 3/4	Optimising CT Chair: Bev Snaith, Lead Consultant Radiographer, Mid Yorkshire Hospitals NHS Trust, UK CBCT: An alternative approach to extremity imaging Peter Sharpe, Chief Executive Officer,	08.00 - 09.20 5F OsiriX EXCHANGE 10	Introduction to OsiriX for beginners Introductory workshop with MAC workstations loaded with OsiriX, to enable participants to look at case studies.
	Cobalt Health, UK and Charlie McCaffrey, Managing Director, Carestream Health Limited, UK Optimising clinical pathways Martine Harris, Research Radiographer, The Mid Yorkshire Hospitals NHS Trust, UK Optimising dose - implementing the COMARE 16 report Paul Charnock, Scientific Officer, Integrated Radiological Services, UK Optimising staffing - generalist, specialist, neither or both? The modern CT radiographer Janice St John Matthews, Associate Head of Department, Allied Health Professions, University of West of England, Bristol, UK	09.30 - 10.30 Plenary debate AUDITORIUM	Plenary debate Introduction Angela Baker, President, UKRO, UK The end is nighAl-enabled machines have placed imaging and oncology professionals on the path to extinction This debate is not about arguing the need for Al, it's about arguing whether Al can deliver on its promises or not. We have exactly what machines need to learn from – binary data. You can use this right now, in your own home. With an online tutorial, you can train a programme to find patterns in plain
08.00 - 09.20 5C Imaging technologies & informatics CENTRAL 3/4	Cross organisational working in IT Chair: Kevin Tucker, National Officer for Wales, Society and College of Radiographers, UK Integration plans in Northern Ireland Julie Moss, Trust PACS Manager, Belfast Health & Social Care Trust, UK Shared services for radiology in Scotland Linda Kerr, Programme Manager for Radiology & Medical Physics, NHS Scotland Share Services Welsh clinical portal – imaging in the		films. Using convoluted neural networks it is possible to get a first read from a machine and an explanation of what it thinks is the diagnosis and why. Intelligent machines can also direct image acquisition and treatment sequences for defined disease pathways. So if machines have the capacity to do all this, will we need imaging and oncology professionals in the future or an army of computers operated by unqualified staff and supervised by a specialist medical computer scientists? <i>Abstract supplied by Hugh Harvey, Radiologist, Institute of Cancer Research, London, UK</i>
08.00 - 09.20 5D MSK EXCHANGE 9	valleys Rob Jones, Head of Applications Design, NHS Wales Informatics Service, UK Cross organisational working in practice Andy Kinnear, Director of Digital Transformation, NHS South, Central and West CSU, UK Imaging in elite sport Chair: Gajan Rajeswaran, Consultant Musculoskeletal Radiologist, University College Hospital London, UK MRI interpretation in elite sport Sarath Bethapudi, Consultant MSK Radiologist, County Durham and Darlington Hospitals, UK Pre-signing MRI: What it involves and		Panel membersChair: Dr Phil Hammond, GP and Presenter, UKAgainst: Eliot Siegel, Professor and ViceChair Research Information Systems,University of Maryland School of Medicineand VA Maryland Healthcare System, USA;Andy Beavis, Consultant Medical Physicistand Head of Radiation Physics, Hull and EastYorkshire NHS Hospitals Trust, UKFor: Declan O'Regan, Consultant Radiologist,Imperial College London, UK; Shaona Ghosh,Postdoctoral Researcher, University ofCambridge, UK
	what the radiologist's role is Andrew Dunn, Consultant Musculoskeletal Radiologist, Northwest MSK Imaging, UK Is grading muscle, tendon and ligament injury important? Waqar Bhatti, Professor & Consultant MSK and Sport Radiologist, University Hospital of South Manchester, UK Lower limb sports injuries: The good, the bad & the ugly Steven James, Consultant Radiologist, The Royal Orthopaedic Hospital NHS Foundation Trust, UK	10.30 10.40 - 11.10 Bayer EXHIBITION LECTURE	Refreshments and exhibition, poster viewing, demo sessions Bayer Update on Gd presence in the brain after repetitive administration of GBCA Dr Lukas Weberling, Department of Neuroradiology, University Hospital Heidelberg, Germany Bayer have funded an exhibition stand and symposium only at this meeting.

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TUESDAY 13 JUNE UK Dose awareness day

10.40 - 12.00 **MSK Ultrasound** Proffered papers - science, education and MSK Hands on demonstration sessions with live radiation protection **6**D Chair: Sarah Allen, Head of Nuclear Medicine models in the exhibition hall. Physics, Guy's and St Thomas' NHS EXHIBITION HALL Foundation Trust, UK CHARTER 3 Writing about radiation in your IRAS **Global radiotherapy challenges** application Andrea Shemilt, Nottingham Chairs: Gerry Hanna, Senior Lecturer and **6**A University Hospitals NHS Trust, UK Consultant in Clinical Oncology, Queen's An audit into radiation awareness and a University of Belfast, UK and Angela Baker, UK RO qualitative assessment into requesting and President, UKRO, UK interpretation of common imaging modalities CENTRAL 3/4 Key challenges on providing radiotherapy - a junior doctor and final year medical services in low to middle income countries student survey Muhammad Khan, Southport Elena Fidarova, Radiation Oncologist, Division And Ormskirk Hospital NHS Trust, UK of Human Health, International Atomic Radiation safety culture initiatives in Energy Agency, Austria X-ray imaging optimisation Hugh Wilkins, Teaching and training of radiotherapy in University of Exeter, UK low and middle income countries: A hands-A review of MR labeling information on experience in Africa Jeannette Parkes, related to IEC 62570 labeling requirements Radiation Oncologist, University of Cape of commercially available MRI accessories Town, South Africa Gina Stateczny, MRI-Tec, Germany Radiotherapy cost effectiveness Clive Peedell, Improving from an IR(ME)R inspection Consultant Clinical Oncologist, South Tees NHS Toni Hall, Oxford University Hospitals NHS Trust, UK Foundation Trust, UK Adaptive IGRT Image quality: Old vs new Stephen Chair: Helen McNair, Research Lead Wolstenhulme, Leeds Teaching Hospitals, UK **6**B Radiographer, The Royal Marsden NHS A method to model the influence of Foundation Trust, UK beam quality on image noise in a digitally UK RO The current status of adaptive therapy reconstructed radiograph (DRR) based CHARTER 4 Kevin Franks, Consultant Clinical Oncologist, computer simulation for optimisation of St James' Institute of Oncology (SJIO), Leeds digital radiography Craig Moore, Hull & East Yorkshire Hospitals NHS Trust, UK Cancer Centre & Honorary Clinical Associate Professor, University of Leeds, UK The efficacy of routine radiographer QA Future developments in adaptive therapy testing Natalie Thring, Radiation Consultancy Uwe Oelfke, Professor, The Institute of Cancer Services Ltd, UK Research, UK 11.20 - 12.40 Neuroradiology **Proffered papers** Chair: Maneesh Patel, Consultant **6E** Spotlight mode: Reducing imaging time Neuroradiologist, Imperial College NHS Trust, UK and dose to improve the patient experience **Encephalitis-infection and beyond** Kirstie Smith and Robins Kpaul, Hull & East AUDITORIUM Brynmore Jones, Consultant Neuroradiologist, Yorkshire Hospitals, UK Imperial College NHS Trust, UK Reduced 4D CBCT scan time in lung cancer Brain tumour mimics - some interesting patients Abigail Bryce-Atkinson, University of cases and clues Priya Bhatnagar, Consultant Manchester, UK Neuroradiologist, Newcastle upon Tyne Modelling daily anatomical changes in Hospitals NHS Trust, UK patients undergoing radical radiotherapy for head and neck squamous cell 11.20 - 12.40 Advances in cardiac Magnetic Resonance carcinoma Yaolin Zheng, University of Imaging 6F Cambridge School of Clinical Medicine, UK Chair: Stephen Harden, Consultant Cardiac Radiologist, Southampton University 11.20 - 12.40 Harnessing technology to improve clinical EXCHANGE 9 Hospital, UK & fiscal efficiency **6C** MRI with implantable electrical devices Chair: Marina Easty, Consultant Paediatric Paediatrics Bobby Agrawal, Consultant Radiologist, Radiologist, Great Ormond Street Hospital, UK Papworth Hospital, UK COBDEN 3/4 More than PACS Anant Patel, IM&T Advisory Advances in aortic imaging with MRI Group, Society and College of Radiographers, UK Ben Holloway, Consultant Radiologist, Clinical networks Mark Griffiths, University Hospitals Birmingham NHS Paediatric Radiologist, University Hospital Foundation Trust, UK Southampton, UK Hyperpolarised carbon in CMR Neonatal radiography - tackling persistent Ferdia Gallagher, Consultant Radiologist, problems Christina Pedersen, Project University of Cambridge, UK Radiographer, Aarhus University Hospital, Denmark dREAMS Amaka Offiah, Reader in Paediatric Musculoskeletal Imaging, University of Sheffield, UK

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11.20 - 12.40	Trends and challenges - enabling imaging	13.00 - 14.20	Cardiac OsiriX	
6G ROC Research CENTRAL 5/6/7	research to 2030 Chair: Stephen Keevil, Head of Magnetic Resonance Physics, Guy's and St Thomas' NHS Foundation Trust, UK Setting the scene - how NIHR is channelling efforts in support of imaging research	6I Cardiac Osirix EXCHANGE 10	Swamy Gedela, Consultant Cardio-Thoracic Radiologist, Essex Cardio-Thoracic Centre, Basildon, UK Bobby Agrawal, Consultant Radiologist, Papworth Hospital, UK	WELCOME
	Stephen Smye, Honorary Professor, University of Leeds & NIHR Specialty Cluster Lead, UK Juggling clinical referrals with supporting research activity: How do we manage the capacity? Bev Snaith, Lead Consultant Radiographer, Mid Yorkshire Hospitals NHS Trust, UK	13.00 - 13.50 BIR/Toshiba Mayneord Memorial Lecture AUDITORIUM	BIR/Toshiba Mayneord Memorial Lecture Chairs: Andy Rogers, President, British Institute of Radiology, UK and Mark Hitchman, Managing Director, Toshiba Medical Systems, UK A 21st century NHS - delivering tomorrow's medicine, today Keith McNeil, Chief Clinical Information Officer for Health and Social	E-
	Is the future of Imaging is cognitive? Phil Colbourne, Director - Healthcare EMEA, Watson Health Imaging, an IBM Company, UK Big data and radionomics Mike Broomhead, CTO, Healthcare & Life Sciences, UK & Ireland, IBM Certified Senior Architect, UK	13.20 - 13.50 Oncology Systems Ltd EXHIBITION LECTURE	Care, NHS, UK Oncology Systems Ltd Multi-parametric MR analysis for prostate cancer detection and treatment with Watson elementary Susan Barley, Lead Clinical Scientist, Oncology Systems Limited, UK	ACKNOWLEDGE-
11.20 - 12.40 6H Obstetrics & gynaecology OsiriX EXCHANGE 10	Obstetrics and gynaecology OsiriX Facilitator: Victoria Stewart, Stream Lead, UK	14.10 - 15.30 7A UKRCO Joint session AUDITORIUM	MR imaging for clinicians, physicists and radiographers Chairs: Helen McNair, Research Lead Radiographer, The Royal Marsden NHS Foundation Trust, UK and Julian Kabala, Consultant Radiologist, University	INFORMATION
<u>11.20 – 12.20</u> CENTRAL 8	FRCR Drop in session FRCR VIVA teaching tutorial run by experienced FRCR tutors.	Hospital Bristol, UK Parameters and trade off Robert Joh Magnetic Resonance Physicist', Guy's St Thomas' NHS Foundation Trust, UK MRI imaging: Image weighting and R		POSTER
11.50 - 12.30 Dose awareness session EXHIBITION LECTURE	Radiation dose Chair: Matthew Dunn, Head of Radiology Physics, Medical Physics and Clinical Engineering, Nottingham University Hospitals NHS Trust, UK How dose tracking tools can aid in optimisation and also influence practice within CT Shane Foley, BSc Radiography		sequences with clinical application Tamas Schiszler, Consultant Radiologist, UH Bristol NHS Foundation Trust, UK MRI imaging: Applied to radiotherapy planning Dow-Mu Koh, Consultant Radiologist in Functional Imaging, The Royal Marsden NHS Foundation Trust, UK Artefacts and reduction Jill McKenna, MR/	DOSE POSTER LISTING
12.40	Programme Coordinator, University College Dublin, Ireland Lunch, exhibition, poster viewing, demo sessions and education on stands		CT Superintendent Radiographer, Freeman Hospital, Newcastle Upon Tyne & Past President, British Association of Radiographers, UK	ePOSTER LISTING
12.40 - 13.10 Virtual reality True 3D DEMO ZONE	Virtual reality True 3D This session will give attendees the opportunity to view CT and MRI data sets in True 3D. Patient specific anatomy will be visible in the open 3D space on top of the monitor screen using the EchoPixel True 3D software. Participants will be able, in small groups, to interact with the full DICOM data set in real-time, enabling them to reach in, grasp, dissect and interact with the key clinical features in a truly 3D form, as if they were the real physical objects.	14.10 - 15.30 7B Emergency & trauma INTERACTIVE CHARTER 3	Case based 'Blood and guts' Chair: Elizabeth Dick, Lead for Emergency Radiology, Imperial College London, UK Find the bleeding point! Elizabeth Dick, Lead for Emergency Radiology, Imperial College London, UK The role of the interventionalist in trauma Graham Collins, Radiology Consultant, North Bristol NHS Trust, UK The acute abdomen Shoba Philip, Consultant Radiologist, North Bristol NHS, UK Postoperate acute abdomen Priya Healy, Royal Liverpool and Broadgreen University	EXHIBITORS SYMPOSIA & ON THE STANDS DEMO ZONE
12.40 - 13.10 Siemens Healthineers EXHIBITION LECTURE	Siemens Healthineers Improving outcomes through partnership; The Radiology Performance Management Service (RPMS) Bernadette Cronin, Associate Programme Director, Siemens Healthineers, UK Transforming Outcomes and Health Economics Through Imaging (TOHETI) John Wilkinson, Healthcare Consultant, Enterprise Services & Solutions – GB&I, Siemens Healthineers, UK	14.10 - 15.30 7C Paediatrics COBDEN 3/4	 Hospitals NHS Trust, UK Existing technology - evolving applications Chair: Samantha Negus, Paediatric Radiologist, UK CT dose reduction - how low is low? Marcel Dijkshoorn, Research CT Radiographer, Erasmus MC, Rotterdam, The Netherlands Functional MRI of the lungs in children Helen Marshall, Research Fellow in Pulmonary MRI, University of Sheffield, UK Advances in PET imaging in children Marina Easty, Consultant Paediatric Radiologist, Great Ormond Street Hospital, UK 	EXHIBITOR PLAN & LIST PLAN & LIST DE



TUESDAY 13 JUNE UK Dose awareness day 😚

<u>14.10 - 15.30</u>	MSK intervention
7D	Chair: Rajat Chowdhury, Consultant
MSK	Musculoskeletal Radiologist, Oxford
EXCHANGE 9	University Hospitals, UK
EXCHANGE 9	Hydrodilatation for the frozen shoulder -
	what's the best approach? Subhasis Basu,
	Consultant Musculoskeletal Radiologist,
	Wrightington Hospital, UK
	MSK intervention in the hand - changing
	the surgical landscape Benjamin Roberton,
	Consultant Interventional and
	Musculoskeletal Radiologist, Chelsea and
	Westminster Hospital, UK
	The perils of consent in MSK intervention
	Rowena Johnson, Consultant Radiologist,
	Nuffield Orthopaedic Centre, UK
	Image guided intervention in the elite
	athlete - does it really work? Justin Lee,
	Consultant Musculoskeletal Radiologist, Fortius Clinic, London, UK
	Fortius Clinic, London, UK
14.10 - 15.30	Computer Assisted Radiology and Surgery
7E	(CARS) and emerging technology
Imaging	Chair: Liz Beckmann, Regional Director,
technologies	EchoPixel, UK
& informatics	The future challenge for imaging - a challenge
CHARTER 4	from surgery Nicholas Haden, Neurosurgeon,
UTANIEN 4	Plymouth Hospitals NHS Trust, UK
	The evolution of the digital operating
	theatre for the next 5-10 years Heinz Lemke,
	Director, CARS, Germany
	Emerging technology - solutions for the
	future Stefan Vilsmeier, President & CEO,
	future Stefan Vilsmeier, President & CEO, Brainlab, Germany
14 10 - 15 30	Brainlab, Germany
14.10 - 15.30	Brainlab, Germany Proffered papers – clinical
7 F	Brainlab, Germany Proffered papers - clinical Chair: Nick Woznitza, Clinical Academic
7F Proffered	Brainlab, Germany Proffered papers - clinical Chair: Nick Woznitza, Clinical Academic Reporting Radiographer, Homerton NHS Trust
7F Proffered papers	Brainlab, Germany Proffered papers - clinical Chair: Nick Woznitza, Clinical Academic Reporting Radiographer, Homerton NHS Trust & Canterbury Christ Church University, UK
7F Proffered	Brainlab, Germany Proffered papers - clinical Chair: Nick Woznitza, Clinical Academic Reporting Radiographer, Homerton NHS Trust
7F Proffered papers	Brainlab, Germany Proffered papers - clinical Chair: Nick Woznitza, Clinical Academic Reporting Radiographer, Homerton NHS Trust & Canterbury Christ Church University, UK Value of invasive angiography
7F Proffered papers	Brainlab, Germany Proffered papers - clinical Chair: Nick Woznitza, Clinical Academic Reporting Radiographer, Homerton NHS Trust & Canterbury Christ Church University, UK Value of invasive angiography following negative CT angiogram in the
7F Proffered papers	Brainlab, Germany Proffered papers - clinical Chair: Nick Woznitza, Clinical Academic Reporting Radiographer, Homerton NHS Trust & Canterbury Christ Church University, UK Value of invasive angiography following negative CT angiogram in the haemodynamically unstable patient with pelvic trauma Jen-Jou Wong, Aintree Hospital, UK
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7F Proffered papers	Brainlab, Germany Proffered papers - clinical Chair: Nick Woznitza, Clinical Academic Reporting Radiographer, Homerton NHS Trust & Canterbury Christ Church University, UK Value of invasive angiography following negative CT angiogram in the haemodynamically unstable patient with pelvic trauma Jen-Jou Wong, Aintree Hospital, UK The current state of MRI in vascular access imaging Conor MacDonald, University of Dundee, UK MRI evaluation of epicardial adipose tissue in patients with cardio-metabolic disease: Potential pathophysiological links with inflammation and vascular dysfunction Shaween Al-Talabany, University of Dundee, UK Nebulised 18F-fluorodeoxyglucose (18F-FDG) assessment of pulmonary drug
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14.10 - 15.30 7G Education & research/ Breast JOINT SESSION CENTRAL 5/6/7	The breast imaging academy: An innovative workforce solution Chair: Caroline Parkin, Consultant Breast Radiologist, University Hospital of South Manchester, UK Introduction Caroline Parkin, Consultant Breast Radiologist, University Hospital of South Manchester, UK Radiography training Lyndsay Kinnear, Radiography training Lyndsay Kinnear, Radiographer, University Hospital of South Manchester, UK and Megan Bydder, Consultant Breast Radiologist, University Hospital of South Manchester, UK Breast clinician training Mary Wilson, Consultant Breast Radiologist, University Hospital of South Manchester, UK Breast radiology training Soujanya Gadde, Consultant Radiologist, University Hospital South Manchester, UK
14.20 - 15.10 Dose Awareness session EXHIBITION LECTURE	How to run an image optimisation team Speaker: Matthew Dunn, Head of Radiology Physics, Medical Physics and Clinical Engineering, Nottingham University Hospitals NHS Trust, UK
14.40 - 16.00 7H Neuro OsiriX EXCHANGE 10	Neuro Farah Alobeidi, Consultant Neuroradiologist, Imperial College NHS Trust, UK
<u>15.30</u>	Refreshments, exhibition, poster viewing, demo sessions
15.30 - 16.50 MSK Ultrasound EXHIBITION HALL	MSK Ultrasound Hands on demonstration sessions with live models in the exhibition hall.
15.40 - 16.10 Dose Awareness session EXHIBITION LECTURE	The current and future regulatory framework for patient dose optimisation Chair: Sue Edyvean, Group Leader - Medical (Radiation) Dosimetry Group, Public Health England, UK National DRL's and dose surveys Sue Edyvean, Group leader - Medical (Radiation) Dosimetry Group, Public Health England, UK What do the CQC look for when inspecting the patient dose and optimisation requirements of IR(ME)R Rachael Ward, Clinical Specialist Inspector IR(ME)R, Care Quality Commission, UK What changes to patient dose monitoring and optimisation will the new IRMER regulations bring Steve Ebdon-Jackson, Public Health England, UK

Please see congress app for full speaker information and abstracts



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DOSE POSTER LISTING

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EDUCATION ON THE STANDS

EXHIBITORS SYMPOSIA & DEMO ZONE

EXHIBITION PLAN & LIST

TUESDAY 13 JUNE UK Dose awareness day 😪

16.20 - 17.20 8A UKRO UK RO CHARTER 3	SABR for oligometastases - the great debate! Chair: Kevin Franks, Consultant Clinical Oncologist, St James' Institute of Oncology (SJIO), Leeds Cancer Centre & Honorary Clinical Associate Professor, University of Leeds, UK Motion: Level 1 randomised clinical trials evidence is needed before we implement SABR as a routine service in the NHS For: Stephen Harrow, National Research Scotland Fellow, Beatson West of Scotland Cancer Centre, UK Against: Alison Tree, Consultant Clinical Oncologist, Royal Marsden Hospital and Institute of Cancer Research, UK	16.20 - 17.40 8 F Cardiac EXCHANGE 10	Advances in cardiac Magnetic Resonance Imaging Chair: Bobby Agrawal, Consultant Radiologist, Papworth Hospital, UK The impact of the new NICE guidelines of cardiac CT demand and provision Swamy Gedela, Consultant Cardio-Thoracic Radiologist, Essex Cardio-Thoracic Centre, Basildon, UK Perfusion CT the future? Michelle Williams, Clinical Lecturer in Cardiothoracic Radiology, The University of Edinburgh, UK Advances in cardiac perfusion CMR James Moon, Professor of Cardiac Imaging, Barts Heart Centre, UK	LEDGE- PROGRAMME WELCOME
16.20 - 17.10 8B SCoR Keynote CHARTER 4	SCoR Martine Jackson Memorial Lecture Chair: Steve Herring, President, Society of Radiographers, UK Specialist posts, special radiographers and patient care Sairanne Wickers, Consultant Radiographer, University College London Hospital, UK	16.20 - 17.40 8G RPS CENTRAL 3/4	RPS Masterclass Chair: Graham Hart, RPA/LPA, Your RPA, UK Dose optimisation Matthew Dunn, Head of Radiology Physics, Medical Physics and Clinical Engineering, Nottingham University Hospitals NHS Trust, UK	INFORMATION ACKNOWLEDGE-
16.20 - 17.40 8C History COBDEN 3/4	History Chair: Liz Beckmann, British Society for the History of Radiology, UK Sebastian Gilbert Scott (1879-1941) and the treatment of ankylosing spondylitis Adrian Thomas, Canterbury Christ Church University, UK	16.20 - 17.40 8H Paediatrics EXCHANGE 10	Paediatrics OsiriX Subhasis (Ash) Chakraborty, Consultant Paediatric Radiologist, Children's Hospital, Oxford, UK FRCR Drop in session	POSTER LISTING
	Neville Samuel Finzi (1881-1968) - a radiotherapy pioneer and radiology benefactor Arpan Banerjee, British Society for the History of Radiology, UK Philately and tuberculosis Adrian Thomas, Canterbury Christ Church University, UK	FRCR Drop in session CENTRAL 8 <u>17.20 - 17.50</u> 9A	FRCR VIVA teaching tutorial run by experienced FRCR tutors. UKRO proffered papers <i>Chair: Helen McNair, Research Lead</i>	DOSE POSTER LISTING
16.20 - 17.40 8D MSK INTERACTIVE AUDITORIUM	Rapid reporting of the upper and lower limb: Plain films and beyond Chair: Chand Thorning, Consultant Radiologist, Epsom and St Helier NHS Trust, UK Rapid reporting, upper limb: Test yourself Chand Thorning, Consultant Radiologist,	UKRO UKRO CHARTER 3	Radiographer, The Royal Marsden NHS Foundation Trust, UK Clinical outcome and hippocampal dosimetry in patients treated with stereotactic radiosurgery for brain metastases across South Wales Sahar Najmus Iqbal, University	ePOSTER LISTING
	Epsom and St Helier NHS Trust, UK Rapid reporting, lower limb: Test yourself Kausik Mukherjee, Consultant in Orthopaedic Radiology, University Hospital of Wales, Cardiff, UK		of Cardiff, UK Implementation of SABR for pancreatic tumours Peter Enever, Leeds Cancer Centre, UK A UK collaborative approach to MR- only radiotherapy treatment planning: Improving the patient experience and treatment accuracy Richard Speight, Leeds	EDUCATION ON THE STANDS
16.20 - 17.40 8E Imaging technologies & informatics CENTRAL 5/6/7	Molecular imaging with novel tracers Chair: Heather Williams, Senior Medical Physicist for Nuclear Medicine, Central Manchester University Hospitals, UK Hyperpolarised MRI Ferdia Gallagher, CRUK Clinician Scientist Fellow, University of Cambridge, UK		Cancer Centre, UK Assessment of the effect of geometric distortion in diffusion-weighted magnetic resonance imaging on positional errors in a bladder phantom Jane Rogers, University of Warwick, UK	EXHIBITORS SYMPOSIA & DEMO ZONE
	Novel Positron Emission Tomography radiotracers: Discovery and pathways to clinical translation Eric Aboagye, Professor, Director Cancer Imaging Centre, Imperial College London, UK Bringing novel tracers into clinical use - a	<u>19.30</u> <u>19.30</u>	AXREM dinner - Principal Manchester Hotel Joint congress supper - Holiday Inn Manchester	EXHIBITION PLAN & LIST
	radiopharmacist's perspective Eric Aboagye, Professor, Director Cancer Imaging Centre, Imperial College London, UK			EXHIBITOR



UK RO

WELCOME

PROGRAMME

INFORMATION

08.10 - 09.10	
10A UKRO Varian Medical Systems UK RO CHARTER 4	Varian Medical Systems sponsor symposium Innovations in radiotherapy Information-guided cancer care: Improving patient outcomes - The clinical development and implementation of Varian's suite of clinical & patient portal Eleanor Love, GenesisCare, UK High quality radiotherapy: Addressing challenges, advancing capabilities Tom Wilson, Varian Medical Systems International AG, Switzerland
08.00 - 09.20 10B Service innovation & optimisation EXCHANGE 9	Benchmarking and driving improvement in UK radiology Chair: Nicholas Spencer, Consultant Radiologist, Mid Yorkshire Hospitals NHS Trust, UK NHS benchmarking and its application in radiology Stephen Watkins, Director, NHS Benchmarking, UK Service review and radiology advisory services: An independent perspective Peter Cavanagh, Radiologist, UK Insights from another service specialty: A&E Kevin Reynard, Clinical Director (North), Emergency Care Improvement Programme, NHSI, UK GIRFT principles, application to improve cancer pathways in the NHS Tim Briggs, Royal National Orthopaedic Hospital, Stanmore and GIRFT Lead, NHS Improvement, UK
08.00 - 09.20 10C GI & Hep OsiriX EXCHANGE 10	Cross-sectional evaluation of biliary dilatation Siobhan Whitley, Consultant Radiologist, Addenbrooke's Hospital, UK James Tanner, Radiology Trainee, Addenbrooke's Hospital, UK
08.00 - 09.20 10D Chest CHARTER 3	Technological advances in thoracic imaging Chair: Mary Roddie, Imperial College Healthcare NHS Trust, UK Reduction in radiation dose - how low can we go? Michelle Williams, Clinical Lecturer
	in Cardiothoracic Radiology, University of Edinburgh, UK What's new in chest radiography? Nick Screaton, Consultant Radiologist, Cambridge, UK Dual energy CT - ready for prime time? Sarah Sheard, Consultant Radiologist, Imperial College Healthcare NHS Trust, UK Quantitative pulmonary CT - new horizons Joe Jacob, Research Collaborator, Mayo Clinic, Rochester, USA
08.00 - 09.20 10E RPS CENTRAL 3/4	Edinburgh, UK What's new in chest radiography? Nick Screaton, Consultant Radiologist, Cambridge, UK Dual energy CT - ready for prime time? Sarah Sheard, Consultant Radiologist, Imperial College Healthcare NHS Trust, UK Quantitative pulmonary CT - new horizons Joe Jacob, Research Collaborator, Mayo

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	3D CT based orthopaedic reconstructive software David Liston, Sectra Ltd, UK High index of suspicion aided with musculoskeletal ultrasound can resolve complex midfoot and hindfoot problems, which can be otherwise sometimes labelled as - non-specific footpain: Review of literature with pictorial review of differential diagnosis Ajay Chourasia, East Surrey Hospital, UK Do radiologists and radiographers need to know about osteoporosis? Amit Gupta, Bradford Teaching Hospitals NHS Foundation Trust, UK Gout imaging with dual energy CT: Imaging protocol, post-processing techniques and its limitations Chuang Wei Ling, Singapore General Hospital, Singapore
09.10 - 10.00 10H Jack Fowler CHARTER 4	Jack Fowler Remembrance Lecture Chair: Angela Baker, President, UKRO, UK Speakers: Søren M. Bentzen, Professor of Epidemiology and Public Health, Professor of Radiation Oncology, University of Maryland School of Medicine, Baltimore, USA John Fenwick, Radiotherapy Physicist and Senior Lecturer, University of Liverpool, UK
<u>09.20</u> 09.40 - 11.00	Refreshments and exhibition, poster viewing, demo sessions and education on the stands Chest OsiriX
10G Chest EXCHANGE 10	Workshop with MAC workstations loaded with OsiriX, to enable participants to look at chest and lung case studies.
10.00 - 11.20 11 A UKRO UK RO CHARTER 4	Protons Chair: Julia-Claire Handley, Radiotherapy Physics Group Leader, The Christie NHS Foundation Trust, UK Overview of the national proton programme Ed Smith, Consultant Clinical Oncologist, The Christie NHS Foundation Trust, UK Improving proton therapy through advanced imaging Tracy Underwood, Research Fellow, University College London, UK Where next for particle therapy in the UK Stuart Green, Director of Medical Physics, University Hospitals Birmingham NHS Foundation Trust, UK Operational aspects of Proton Beam Therapy: Challenges of planning for a new UK service Hazel Pennington, Lead Radiographer, Proton Beam Therapy Project, The Christie NHS Foundation Trust, UK
10.00 - 11.20 11B UKRCO Joint session COBDEN 3/4	Changing pathways, cancer and beyond Chair: Nicholas Spencer, Consultant Radiologist, Mid Yorkshire Hospitals NHS Trust, UK Opinion leadership in healthcare: Ghanaian experience and its possible application in cancer care Carole South-Winter, Assistant Professor, University of South Dakota, USA Opportunities to translate the Danish Cancer pathway to enable NHS transformation Sean Duffy, Programme Director West Yorkshire & Harrogate Cancer Alliance, UK Improving effectiveness of cancer multidisciplinary teams Rose Gray, Senior Policy Adviser, Cancer Research UK, UK

Advances

<u>10.00 - 11.20</u> 11C	Technological innovations in radiography education
Education & research	Chair: Viv Gibbs, Head of Department, Allied Health Professions, The University of the West of England, UK
CENTRAL 5/6/7	I'd say it's quite likely that we just didn't read it: Developing an alternative to the standard programme handbook Peter Walker Birch, Senior Lecturer in Medical Imaging, Teesside University, UK & Mark Widdowfield, Senior Lecturer Diagnostic Radiography, Teesside University, UK Computer science for digital radiography - what should radiographers know? Peter Phillips, Senior Lecturer, University of Cumbria, UK Enhancing radiographer threshold clinical competencies through CT simulation Martine Harris, Research Radiographer, The Mid Yorkshire Hospitals NHS Trust, UK Experiences of using virtual reality to enable clinicians to experience the patient journey first hand Nick Peres, Lead for Technologies R+D & PhD Researcher, Torbay and South Devon NHS Trust & Plymouth University, UK
10.00 - 11.20 11D Gastroenter ology CHARTER 3	What's new in rectal cancer? Chair: Vikas Shah, Consultant Radiologist, University Hospitals of Leicester, UK The future of rectal cancer surgery Manish Chand, Consultant Colorectal Surgeon, Honorary Senior Lecturer and Director of MIS Programme, University College London, UK Modern oncology options for rectal cancer Tom Richards, Consultant Oncologist, University College London Hospitals, UK Colorectal controversies that regularly challenge the MDT Gina Brown, Consultant Radiologist, Royal Marsden NHS Foundation Trust, UK
10.10 - 11.10 FRCR Drop in session CENTRAL 8	FRCR Drop in session FRCR VIVA teaching tutorial run by experienced FRCR tutors.
10.20 - 11.40 11E Emergency & trauma INTERACTIVE AUDITORIUM	Case-based: Emergency head and spine imaging Chair: Roland Watura, Radiology Consultant, North Bristol NHS Trust, UK The 'normal' CT head - or is it? Alex Mortimer, Radiology Consultant, North Bristol NHS Trust, UK Essentials of spine trauma from C1 to sacrum Roland Watura, Radiology Consultant, North Bristol NHS Trust, UK
10.20 - 11.40 11F MSK EXCHANGE 9	Post-op orthopaedic imaging Chair: Chintu Gademsetty, Consultant Musculoskeletal Radiologist, Royal Surrey County Hospital, UK Particle disease following orthopaedic surgery Michael Khoo, Consultant Radiologist, Royal National Orthopaedic Hospital, Stanmore, UK Post-op shoulder arthroplasty and complications: What the surgeon wants to know Ian Pressney, Consultant Radiologist, Royal National Orthopaedic Hospital, Stanmore, UK Post-op spinal imaging including novel and complex orthopaedic techniques Philippa Tyler, Consultant Radiologist, Royal National Orthopaedic Hospital, Stanmore, UK Investigation of suspected arthroplasty infection: The evolving role of radiology Rikin Hargunani, Consultant Radiologist, Royal National Orthopaedic Hospital, Stanmore, UK

10.30 - 11.50 11G SMRT CENTRAL 3/4	The Society for MR Radiographers & Technologists - Clinical Education Forum Chair: Muriel Cockburn, The Society for MR Radiographers & Technologists, UK Can MRI radiotherapy planning reduce patient toxicity? Lorraine Whyte, Practice Education Radiographer, Beatson West of Scotland Cancer Centre, UK MR challenges in Europe, from a radiographic perceptive Filip De Ridder, Chief Technologist, UZ Brussel, Belgium Late gadolinium cardiac imaging. Challenges and solutions - Vanessa Orchard, Superintendent Cardiac MRI, Golden Jubilee Hospital, Glasgow
12.00 - 12.50 Closing plenary AUDITORIUM	Closing plenary <i>Rt Hon the Lord Winston of Hammersmith, UK</i>
13.00 - 14.00 FRCR Drop in session CENTRAL 8	FRCR Drop in session FRCR VIVA teaching tutorial run by experienced FRCR tutors.
12.50 - 13.10 T simulation EXHIBITION LECTURE	CT simulation This session will demonstrate CT simulation for undergraduate competency development.
13.10 - 14.00 11H UKRO UK RO COBDEN 3/4	UKRO proffered papers Chair: Kevin Franks, Consultant Clinical Oncologist, St James' Institute of Oncology (SJIO), Leeds Cancer Centre & Honorary Clinical Associate Professor, University of Leeds, UK Dose to patients from X-ray imaging in radiotherapy - an update from the IPEM working party Tim Wood, Hull & East Yorkshire Hospitals NHS Trust, UK Utilising non-invasive mechanical ventilation to facilitate rapid shallow breathing: Controlling motion in radiotherapy Nicholas West, Newcastle Upon Tyne Hospitals NHS Foundation Trust, UK Cost effectiveness analysis of pet-ct for oesophageal cancer Azmi Nor Azina, University of Technology Mara, Malaysia Developing a communication tool for assessment and mobilisation of patients with metastatic spinal cord compression Nicola Cornelius, Lincoln County Hospital, UK Potential impact on patients of proposed reconfiguration of radiotherapy provision in England Gareth Webster, Worcestershire Oncology Centre, UK
SCoR CHARTER 3	SCoR William Stripp Memorial Lecture Chair: Steve Herring, President, Society of Radiographers, UK The importance of correct radiographic technique in shoulder imaging Amanda Martin, Lead Radiographer, Royal Bolton Hospital, UK
	IPEM John Mallard Lecture
IPEM CHARTER 4	Chair: David Brettle, President, Institute of
	Physics and Engineering in Medicine, UK The history and future of image guided radiotherapy Marcel van Herk, Professor, University of Manchester, Manchester Academic Health Science Centre and The Christie NHS Trust, UK

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EXHIBITORS SYMPOSIA & DEMO ZONE

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13.20 - 13.50 Virtual reality DEMO ZONE	Virtual reality with Google Cardboard Learn how cost effective, accessible virtual reality technology is helping transform the medical education classroom. In this workshop we look at its use in aiding humanities learning from the patient perspective.
14.10 - 15.30 12A UKRO UK RO CHARTER 4	Immunotherapy Chairs: Gerry Hanna, Senior Lecturer and Consultant in Clinical Oncology, Queen's University of Belfast, UK and Angela Baker, President, UKRO, UK Radiotherapy and immunotherapy – mechanisms for synergy and potential applications Louise Murray, Yorkshire Cancer Research University Clinical Academic Fellow and Honorary Consultant Clinical Oncologist, Leeds Cancer Centre and University of Leeds, UK SABR/Immunotherapy combinations Fiona McDonald, Consultant Thoracic Clinical Oncologist, The Royal Marsden NHS Foundation Trust, UK Radiotherapy and immunotherapy combinations - the translational considerations Alan Melcher, Professor of Translational Immunotherapy, The Institute of Cancer Research, London, UK
14.10 - 15.30 12B BAMRR EXCHANGE 6/7	BAMRR - MRI in contemporary practice Chair: Paola Griffiths, Supt Research Radiographer and BAMRR President, UK Speakers: Martin Graves, Consultant Clinical Scientist, Cambridge University Hospitals NHS Foundation Trust, UK Mark Warren, Lecturer in Medical Imaging and Radiotherapy Institute of Clinical Sciences, University of Liverpool, UK Jonathan Phillips, Senior Research Officer in Medical Imaging, Swansea University, UK
14.10 - 15.30 12C Imaging technologies & informatics CENTRAL 5/6/7	Practical approaches to motion tracking and correction Chair: John Ridgway, Head of Magnetic Resonance Physics, Leeds Teaching Hospitals NHS Trust, UK MRI-based motion tracking: Applications in lung and liver Martin Fast, Postdoctoral Fellow, NKI-AVL, Netherlands Image-based motion tracking for PET Charalampos Tsoumpas, Lecturer in Medical Imaging, University of Leeds, UK Use of gaming technology for motion tracking Philip Noonan, Research Associate, Imperial College London, UK
14.10 - 15.30 12D Hepatobiliary EXCHANGE 9	Neuroendocrine tumours: An update on imaging and therapy Chair: Vikas Shah, Consultant Radiologist, University Hospitals of Leicester, UK Neuroendocrine tumours: Setting the multidisciplinary scene Juan Valle, Consultant Oncologist, The Christie NHS Foundation Trust, UK CT, MRI and EUS of NETs Edmund Godfrey, Consultant Radiologist, Addenbrooke's Hospital, UK NETs: Molecular imaging update Prakash Manoharan, Consultant Radiologist, The Christie NHS Foundation Trust, UK The role of interventional radiology in the management of NET Dominic Yu, Consultant Radiologist, Royal Free Hospital, UK

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<u>14.10 - 15.30</u> 12E	Challenges in thoracic malignancy Chair: Mary Roddie, Imperial College Healthcare NHS Trust, UK
Chest CHARTER 3	Latest lung cancer staging update: What's new in the 8th edition? Nick Watson, Consultant Thoracic Radiologist, University
	Hospitals of North Midlands, UK Differentiating lung metastases from lung
	cancer in patients with extra-thoracic malignancy Sisa Grubnic, Consultant Radiologist, St George's Hospital, UK
	Pulmonary complications of cancer therapies Nina Tunariu, Consultant Radiologist, Royal
	Marsden Hospital, UK Thoracic lymphoproliferative disorders Sam Hare, Consultant Chest Radiologist, Royal Free London NHS Trust, UK
<u>14.10 - 15.30</u>	The foot
12F MSK	Chair: Rikin Hargunani, Consultant Radiologist, Royal National Orthopaedic Hospital, Stanmore, UK
COBDEN 3/4	Heel pain - a one stop shop Matthew Solan, Consultant Foot and Ankle Orthopaedic Surgeon, Royal Surrey County Hospital, UK
	Imaging of pes planus Chinty Hospital, OK Consultant Musculoskeletal Radiologist, Royal
	Surrey County Hospital, UK Ultrasound of metatarsalgia Nicki Delves,
	Consultant MSK Sonographer, Royal Surrey County Hospital, UK
	The diabetic foot Susan Cross, Consultant Musculoskeletal Radiologist, Barts Health, UK
<u>14.10 - 15.30</u>	Proffered papers
12G Proffered	Proffered papers Chair: Viv Gibbs, Head of Department, Allied Health Professions, The University of the West of England, UK
12G	Chair: Viv Gibbs, Head of Department, Allied Health Professions, The University of the
12G Proffered papers	Chair: Viv Gibbs, Head of Department, Allied Health Professions, The University of the West of England, UK The use of eye tracking technology to assess
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Advances

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INFORMATION ACKNOWLEDGE-MENTS

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