

Everything MRI All At Once

Tuesday 25th June 2024 – Newcastle

12:00 - 13:00	Registration
Session 1	Plenary session: MRI Advanced Acceleration technologies
13:00 - 13:30	<i>AI in Clinical MRI Image Reconstruction: Theory and Practice</i>
	Joe Martin, Bart's Health
13:30 - 14:00	<i>IPEM AAT T&F Update</i>
	Steven Jackson, The Christie NHS FT
14:00 - 14:15	<i>“Is it Real?” Patient and Public views on AI in MR Image Reconstruction</i>
	Aggie Peplinski, Barts Health NHS Trust
14:15 - 14:30	<i>Visualisation and Analysis of Scanner Utilisation Data to aid Patient Experience</i>
	Oscar Lally, Guy's and St Thomas' NHS Foundation Trust

	<i>Case Studies from AAT T&F</i>
14:30 – 14:35	<i>Compressed SENSE in brain imaging at 1.5T</i>
	Rosa Sanchez Panchuelo, University Hospitals Birmingham NHS Foundation Trust
14:35 – 14:40	<i>Full clinical implementation of Siemens Deep Resolve</i>
	Mike Hutton, Newcastle Upon Tyne Hospitals NHS Foundation Trust
14:40 – 14:45	<i>Deep Learning Reconstruction for Multiple Sclerosis Imaging</i>
	Ed Peake, Cambridge University Hospitals NHS Foundation Trust
14:45 - 15:00	Q&A
15:00 - 15:30	Coffee Break

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Session 2	Parallel session (Scientific dimension)		
Session Theme	Cardiac, cardiovascular and real time imaging		Running an fMRI and Tractography Service
15:30 - 15:45	<i>Implementation of Air Recon DL on clinical real-time protocols for imaging speech.</i>	15:30 - 15:35	<i>Why an IPEM Task & Finish Group on CS-led fMRI and tractography?</i>
	Aggie Peplinski, Barts Health NHS Trust		Laura Mancini, University College London Hospital NHS FT
15:45 - 16:00	<i>Implementing enabler technologies for foetal and neonatal congenital cardiac MRI</i>	15:35 - 15:55	<i>COBIDAS Clinical fMRI for Language Mapping</i>
	David Broadbent, Leeds Teaching Hospitals NHS Trust		Stephen Wastling, National Hospital for Neurology and Neurosurgery
16:00 - 16:15	<i>Training Therapeutic Radiographers for Cardiac Imaging on an MR-guided Linac</i>	15:55 - 16:15	<i>Experiences of setting up a clinical tractography service</i>
	Tom Whyntie, Genesis Care UK		Caitlin O'Brien, Guy's and St Thomas' NHS FT, and Jamie Roberts, University Hospitals Plymouth NHS Trust
16:15 - 16:30	<i>Measurement of myocardial extracellular volume and cell diameter before and after aortic valve replacement in patients with severe aortic stenosis</i>	16:15 - 16:35	<i>Operational considerations for fMRI and tractography services – it's not just about the software</i>
	Alexander Makins, Leeds Teaching Hospital NHS Trust		James Moggridge, National Hospital for Neurology and Neurosurgery
16:35 – 16:40	Break		
16:40 - 17:30	<i>Rountable Discussion: Imaging at the Clinical and Academic Interface</i>	16:40 - 17:30	<i>Roundtable Discussion</i>
17:30	<i>Evening Dinner/Networking</i>		



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08:15 - 08:45	Registration
08:45 - 09:00	Welcome
Session 3	Plenary Session: New technologies in MRI
09:00 - 09:30	<i>Deploying MR Tests</i>
	David Atkinson, University College London
09:30 - 09:45	<i>Implementation of MRI in the Liver SABR Patient Pathway</i>
	Ariona Kruezi, Guy's and St Thomas' NHS FT
09:45 - 10:00	<i>Developing a safety framework for portable MRI</i>
	Blair Johnston, NHS Greater Glasgow and Clyde
10:00 - 10:30	<i>MRgFUS in Dundee, for Scotland</i>
	Jen McFarlane, NHS Tayside
10:30 - 10:50	Coffee Break

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Session 4	Parallel session (professional dimension)	
Session Theme	Early Career Session	Horizon scanning: the future of MRI physics in healthcare in the UK: strategy and workforce
10:50 - 12:20	<i>Year One as an MRI Clinical Scientist</i>	<i>Summary of the IPEM workforce report</i>
	Jack Foulkes, Imperial College Healthcare	Angela Darekar, University Hospital Southampton
	<i>Discussion</i>	<i>National Healthcare science vision and strategy</i>
	<i>IPEM MRSE Certificate of Competence</i>	Angela Darekar, University Hospital Southampton
	Cameron Ingham, University Hospitals Bristol and Weston	<i>Roundtable discussion: strategy and delivery</i>
	<i>Professional Memberships and Collaboration</i>	
	John McLean, NHS Greater Glasgow Clyde	
	<i>Discussion</i>	
	<i>Higher Specialist Scientist Training (HSST)</i>	
	Harry Poole, The Royal Wolverhampton NHS Trust	
	<i>Discussion</i>	

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Session 5	Common session: Metrology, QA and regulatory aspects of MRI
13:20 - 13:50	<i>Invited Speaker</i>
	Cormac McGrath
13:50 - 14:05	<i>Meaningful Relaxometry Quality Assurance in Clinical Practice</i>
	Alex Goodall, Sheffield Teaching Hospitals NHS FT
14:05 - 14:20	<i>Hazen: An Open-Source MRI Quality Assurance Toolbox</i>
	Ryan Satnarine, Guy's and St Thomas' NHS FT
14:20 - 14:50	Task and Finish Group Discussion
14:50 - 15:20	Coffee Break

Session 6	Protocol optimisation and multi-centre co-ordination
15:20 - 15:35	<i>Update on T&F Optimisation Group, Survey and Q&A</i>
	Holly Elbert and Maria Yanez Lopez
15:35 - 15:50	<i>Practical experience of clinical T2 mapping techniques</i>
	Jack Allen, University College London
15:50 - 16:05	<i>An agile approach to MRI protocol optimisation in Neuroradiology</i>
	Laura Mancini, University College London Hospitals NHS FT
16:05 - 16:35	<i>Panel Discussion</i>
16:35 - 16:40	Final Thoughts
16:55	Close

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Posters

<i>Thermal and Imaging Correlation for the Validation of an MRI-guided Cryoablation Protocol</i>
Mobeen Ali, University Hospital Southampton NHS FT
<i>QSM Observational Case Studies of Superficial Siderosis Patients Undergoing Chelation Therapy</i>
Mobeen Ali, University Hospital Southampton NHS FT
<i>Characterisation of a large plate of unknown magnetic shielding below a proposed MRI scanner room</i>
Cormac McGrath, Belfast Health and Social Care Trust
<i>Development of a QA workflow for clinical quantitative diffusion imaging</i>
Emily Kilgour, NHS Grampian
<i>Does slice orientation affect spatial resolution when using SMS?</i>
Aimon Qazi, NHS Grampian

<i>Measuring the dimensions of structures within the ACR Large MRI QA phantom using CT</i>
Stephen Powell, Sheffield Teaching Hospitals NHS Foundation Trust
<i>An RF cage can successfully attenuate radio waves from an RFID door security system so that it will not affect 39K-MRI at 14MHz</i>
Alan Wright, Guy's and St Thomas' NHS Foundation Trust
<i>Evaluating the Reproducibility of Radiomic Features with AIR Recon DL: A Phantom-Based Analysis</i>
Edward Peake, Cambridge University Hospitals
<i>An MR Core Lab to support validation, quality assurance and evaluation of quantitative MR imaging biomarkers.</i>
Julia Markus, University College London
<i>A Survey of Faraday Cage Attenuation Measurements of New Clinical MRI Systems</i>
Jamie Small, Guy's and St Thomas' NHS Foundation Trust