

Everything MRI All At Once

Tuesday 25th June 2024 – Newcastle

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| 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 |

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| | <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) | | |
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| 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 | Evening Dinner/Networking | | |

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| 08:15 - 08:45 | Registration |
| 08:45 - 09:00 | Welcome |
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| Session 3 | Plenary Session: New technologies in MRI |
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| 09:00 - 09:30 | <i>Deploying MR Tests</i> |
| | David Atkinson, University College London |
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| 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 |
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| 10:30 - 10:50 | Coffee Break |

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| Session 4 | Parallel session (professional dimension) | |
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| Session Theme | Horizon scanning: the future of MRI physics in healthcare in the UK: strategy and workforce | Early Career Session |
| 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> | |
| 12:20 - 13:20 | Lunch and Poster Session | |

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| Session 5 | Common session: Metrology, QA and regulatory aspects of MRI |
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| 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 |
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| 14:50 - 15:20 | Coffee Break |

| Session 6 | Protocol optimisation and multi-centre co-ordination |
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| 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

Thermal and Imaging Correlation for the Validation of an MRI-guided Cryoablation Protocol

Mobeen Ali, University Hospital Southampton NHS FT

QSM Observational Case Studies of Superficial Siderosis Patients Undergoing Chelation Therapy

Mobeen Ali, University Hospital Southampton NHS FT

Characterisation of a large plate of unknown magnetic shielding below a proposed MRI scanner room

Cormac McGrath, Belfast Health and Social Care Trust

Development of a QA workflow for clinical quantitative diffusion imaging

Emily Kilgour, NHS Grampian

Does slice orientation affect spatial resolution when using SMS?

Aimon Qazi, NHS Grampian

Measuring the dimensions of structures within the ACR Large MRI QA phantom using CT

Stephen Powell, Sheffield Teaching Hospitals NHS Foundation Trust

An RF cage can successfully attenuate radio waves from an RFID door security system so that it will not affect 39K-MRI at 14MHz

Alan Wright, Guy's and St Thomas' NHS Foundation Trust

Evaluating the Reproducibility of Radiomic Features with AIR Recon DL: A Phantom-Based Analysis

Edward Peake, Cambridge University Hospitals

An MR Core Lab to support validation, quality assurance and evaluation of quantitative MR imaging biomarkers.

Julia Markus, University College London

A Survey of Faraday Cage Attenuation Measurements of New Clinical MRI Systems

Jamie Small, Guy's and St Thomas' NHS Foundation Trust