

AI in Imaging and Treatment Planning

Monday 17 November 2025 – Zoom, Online

9:00 – 9:15	Welcome and Introductions
	<i>Ms Afsana Choudhury, IPEM Training Development Officer</i>
9:15-10:15	AI Primer: Demystifying the Jargon
	<i>Mr Richard Meades, Principal Nuclear Medicine Physicist, Royal Free London NHS FT</i>
10:15-10:30	Break
10:30-11:30	AI in Imaging
	<i>Mr Anil Mistry, AI Safety Lead and Senior Clinical Scientist in AI, Clinical Scientific Computing Team at Guys and St Thomas NHS FT</i>
11:30 - 11:45	Break
11:45 - 12:45	AI in Radiotherapy, from Theory to Practice and Back Again
	<i>Professor Raj Jena, Clinical Professor, University of Cambridge Department of Oncology</i>
12:45 – 13:15	Panel Discussion / Q+A Opportunity
13:15 – 14:00	Lunch

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	Imaging Stream	Radiotherapy Stream
14:00-14:30	Multi-vendor Comparison of Commercial Chest X-ray Classification Tools	Implementing AI contouring for radiotherapy
	<i>Dr Jonathan Taylor, Consultant Clinical Scientist, Sheffield Teaching Hospitals NHS FT</i>	<i>Dr Alison Starke, Principal Radiotherapy Physicist, NHS Greater Glasgow and Clyde and Dr Niall MacDougall Head of Clinical Dosimetry, Barts Health NHS Trust</i>
14:30-15:00	Developing and Testing AI PET Algorithms	Implementing AI solutions for radiotherapy at Imperial College Healthcare NHS Trust
	<i>Professor Daniel McGowan, Head of Education and Research, Consultant Clinical Scientist, Oxford University Hospitals NHS FT</i>	<i>Dr Josh Mason, Principal Radiotherapy Physicist, Imperial College Healthcare NHS Trust</i>
15:00 – 15:15	Break	Break
15:15 – 15:45	Applications of AI in whole-body diffusion-weighted MRI: Segmentation, acceleration and uncertainty quantification	Using Image Analysis Techniques and AI to Personalise Radiotherapy
	<i>Dr Matthew Blackledge, Group Leader of Computational Imaging, The Institute of Cancer Research</i>	<i>Dr Camarie Welgemoed, Research and Development Lead, Imperial College Healthcare NHS Trust</i>
15:45 – 16:00	Session Wrap Up / Final Questions	Session Wrap Up/ Final Questions
16:00 – 16:15	Final thoughts (All streams)	