



MR in the Radiotherapy Pathway

Tuesday 5th November 2019, Edinburgh

PROGRAMME

- 09:00 – 09:55 **Coffee and registration**
- 09:55 – 10:00 **Introduction**
Chair: John Byrne
- 10:00 – 10:30 **Invited talk**
One year of online MR guided adaptive Radiotherapy at RMH/ICR. What did we learn?
Dr Simeon Nill, *Institute of Cancer Research*
- 10:30 – 10:45 **Partial breast implementation for the Unity MR-linac: plan adaptation considerations**
Adam Mitchell, *The Royal Marsden NHS Foundation Trust*
- 10:45 – 11:00 **Simulation of Automatic Contour Propagation using Previous Imaging on an MR-linac**
Steven Jackson, *The Christie NHS Foundation Trust*
- 11:00 – 11:30 **Coffee**
Chair: Organiser
- 11:30 – 12:00 **IPEM working party update: MRI for external beam radiotherapy treatment planning**
Richard Speight, *Leeds Teaching Hospitals NHS Trust*
- 12:00 – 12:15 **Meta-analysis of Elekta Unity MR-Linac Adaptive Treatments**
Jonathan Mohajer, *Royal Marsden Hospital & the Institute of Cancer Research,*
- 12:15 – 12:30 **Questions**
- 12:30 – 13:30 **Lunch**
Chair: Organiser
- 13:30 – 14:00 **Invited talk two**
“MR-Only planning in the real world...”
Dr Hazel McCallum, *Northern Institute for Cancer Research, Newcastle University*
- 14:00 – 14:15 **MRI-only treatment planning for anal and rectal cancer radiotherapy (MANTA-RAY)**
David Bird, *Leeds Teaching Hospitals NHS Trust*
- 14:15 – 14:30 **Assessment of geometric distortion of eleven clinical MRI scanners across the UK**
Meshal Alzahrani, *University of Leeds*
- 14:30 – 14:50 **Questions**
- 14:50 – 15:15 **Coffee**
Chair: Dr Hazel McCallum
- 15:15 – 15:30 **Reconstruction of Interstitial HDR Brachytherapy Needles based on MR data**
Victoria Newton, *Mount Vernon Cancer Centre*
- 15:30 – 15:45 **Technical feasibility of utilising a PET-MR attenuation correction map created for dose calculation in radiotherapy treatment planning**
Hazel McCallum, *Northern Institute for Cancer Research, Newcastle University*
- 15:45 – 16:00 **Evaluating the image quality of PET-MR images acquired in the radiotherapy position**
John Wyatt, *Northern Institute for Cancer Research, Newcastle University*
- 16:00 – 16:30 **Questions/discussion**
- 16:30 **Close**

Organised by IPEM's Radiotherapy Special Interest Group

Programme subject to change