Advanced Neuro MRI – from research to clinical implementation

15th November 2022 – Birmingham Rep and Library

Time	Session
10:00 – 10:05	**Introduction**
10:05 – 10:35	**Neuro MRgFUS applications (pre-recorded)** Wladyslaw Gedroyc, Imperial College Healthcare NHS Trust
10:35 – 10:55	**Clinical Evaluation of Three MRI Tractography Software** Sam Butler, University Hospitals of North Midlands NHS Trust
10:55 – 11:15	**Accurate localization of tracts during brain tumour resection in an interventional MRI suite** Laura Mancini, University College London Hospitals NHS Foundation Trust
11:15 – 11:45	**Coffee**
11:45 – 12:05	**Ultra High-Field MRI (7T) of the thalamic ventral intermediate nucleus (VIM) to validate 3T diffusion tractography and 3T anatomical targeting for MR-guided focused ultrasound (MRgFUS) of Essential Tremor** Joely Smith, Imperial College Healthcare NHS Trust
12:05 – 12:25	**Detection of Vestibular Schwannomas in MRI using Convolutional Neural Networks** Helen Le Sueur, Royal Surrey County Hospital NHS Foundation Trust
12:25 – 13:30	**Lunch and Networking**
13:30 – 14:00	**Clinical Translation of the Advanced Neuroimaging Facilities in Scotland (pre-recorded)** Jennifer MacFarlane, NHS Tayside and Director of SINAPSE
14:00 – 14:20	**Introduction of a Novel, Convenient ADC Phantom for Multicentre Routine Quality Assurance of Clinical Diffusion Weighted Image Protocols** Rebecca Sawbridge, University Hospitals Birmingham NHS Foundation Trust
14:20 – 15:05	**Interactive session -** "How do we encourage wide-scale information sharing to aid local implementation of advanced neuro MRI techniques in a clinical environment?"
15:05 – 15:30	**Coffee**
15:30 – 15:50	**Pre-surgical evaluation in epilepsy patients: clinical reliability of the "Home Town Walk" fMRI paradigm for lateralisation of memory function** Nigel Davies, University Hospitals Birmingham NHS Foundation Trust
15:50 – 16:10	**Assessing the clinical benefit of edge enhancement post-processing of MP2RAGE 3D T1-weighted MRI in localising Focal Cortical Dysplasia** Enrico De Vita, Great Ormond Street Hospital for Children NHS Foundation Trust
16:10 – 16:30	**General discussion, wrap up and thanks**

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