



UCL ADVANCED PAEDIATRIC NEUROIMAGING CERTIFICATE COURSE

‘Translating research to clinical practice’

Part 1: 26th of June 2024

Part 2: 3rd of July 2024

Fees: Consultants/Attending: £220.00

Academics/Researchers: £180.00

PhD/Post Doc: £150.00

Course Objectives

- To update learners on new developments in all aspects of clinical Paediatric Neuroimaging.
- To review current and future translatory research trends that strengthen the specialty.
- To have open session discussions on collaborative research.

Course Directors

Kshitij Mankad

Consultant Paediatric Neuroradiologist and Honorary Associate Professor

GOSH / UCL GOS Institute of Child Health

Christopher Clark

Professor of Imaging and Biophysics

Developmental Neurosciences Department

UCL GOS Institute of Child Health

Syllabus

Part 1

13:00-18:00 GMT

Brain tumours in children: molecular and radiological correlations- **Dr. Kshitij Mankad**

Neuropathology of brain tumors- **Prof. Tom Jacques TBC**

Quantitative MRI for precision oncology and trials- **Prof. Darren Hargrave**

Surgical approaches to brain tumours- Using imaging to guide precision- **Mr. Kristian Aquilina**

Cancer predisposition syndromes in children - **Dr. Ulrike Loebel**

Advanced diffusion MRI – applications in neuropediatrics - **Prof. Chris Clarke**

New developments in white matter mapping for iMRI- **Dr. Jon Clayden**

Antenatal detection of intracranial pathologies- **Dr. Kelly Pegoretti-Baruteau**

Radiogenomics of cortical malformations- **Dr. Sniya Sudhakar**

Childhood Epilepsy: Updates on clinicoradiological classification- **Dr. Amy McTague**

Part 2

13:00-18:00 GMT

High and Low Field MR imaging- **Dr. Enrico DeVita**

Using imaging to improve the diagnostic yield for Focal Cortical Dysplasia- **Dr. Konrad Wagstyl**

Imaging for epilepsy surgery planning and for post-surgical follow-up- **Dr. Aswin Chari**

fMRI in neurosurgical planning- **Prof. Torsten Baldeweg**

Post radiotherapy and chemotherapy changes in the brain- **Dr. Harpreet Hayre**

Stroke in Children: different strategies- **Dr. Anoushka Alvis**

Pediatric vasculitis: our current understanding- **Prof. Despina Eleftheriou**

Autoimmune encephalitis and demyelination in children- **Dr. Yael Hacoen**

A practical approach to imaging for leukodystrophy- **Dr. Asthik Biswas**

Developmental amnesia: imaging of the hippocampus and its circuitry- **Prof. Faraneh Vargha-Khadem**