

UCL / NHNN Neurosurgery Research Symposium  
Thursday 23 February 2023 | 33QS LT

**Programme**

**13:00** - Introduction from **Rob Brownstone (Professor and Head, Division of Neurosurgery UCL Queen Square Institute of Neurology)**

**Session 1**

**13:05** - Analysing acute neurosurgical service demand: a machine learning time-series analysis - **Anand Pandit (Neurosurgical Registrar, NHNN, Post-Doctoral Research Fellow, High-Dimensional Neurology, UCL IoN)**

**13:17** - Sleep stage variation in intracranial pressure and pulse amplitude - **Lucia Darie (Clinical Hydrocephalus Fellow)**

**13:29** - The behaviour of ICP and pulse amplitude when humans move - **Eleanor Moncur (Hydrocephalus Research Fellow)**

**13:41** - Neurophysiological Monitoring of Brain Retraction Injury - **Will Muirhead (Neurosurgical Skull Base Fellow)**

**13:53** - Impact of Global Warming on Brain Temperature - **Kanza Tariq (PhD candidate with UCL IoN, Research Fellow with the Hydrocephalus Team in The National)**

**14:05** - Harnessing artificial intelligence to learn, assess and audit pituitary adenoma surgery - **Danyal Khan (Neurosurgery Trainee, NHNN, NIHR Academic Clinical Fellow, UCL)**

**14:17** - Diffusion and perfusion MRI in paediatric posterior fossa tumours - **Seb Toescu (PhD, ST5 Neurosurgery Royal London Hospital)**

**14:29** - Anti-inflammatory microglia and macrophages associate with T cells at human glioblastoma invasive margins, with clinical impact - **Imran Noorani (NIHR Clinical Lecturer / SpR in Neurosurgery UCL, and Postdoctoral Clinical Fellow Francis Crick Institute)**

**Break – Tea/coffee & refreshments**

**Session 2**

**15:00** - Surgical management of cerebrospinal fluid-venous fistula: a case series - **David Rowland (Neurosurgery Registrar)**

**15:12** - Plans for the CADET Project (DBS for paediatric epilepsy) - **Rory Piper (Neurosurgery Registrar and PhD Student at Great Ormond Street Hospital)**

**15:24** - Unit-level functional network analyses in tuberous sclerosis complex reveal that tuber-tuber interactions drive network dynamics - **Aswin Chari (Neurosurgical Trainee)**

**15:36** - Early postnatal ablation of proprioceptive afferents leads to subtle motor deficits in adult mice - **Ammar Natalwala (NIHR Clinical lecturer, Specialist Registrar in Neurosurgery (ST8) UCL Queen Square)**

**15:48** - Ventral intermediate nucleus anatomical variability assessment by diffusion MRI connectivity - **Francisca Ferreira (Neurosurgery Registrar)**

**16:00** - The development of novel neuronal brain signals to optimise deep brain stimulation therapy in Parkinson's disease - **San San Xu (Honorary Neurology Fellow)**

**16:12** - Beyond the basal ganglia: spinal circuit dysfunction as a final pathway for movement disorganisation in DYT1 dystonia - **Amanda Pocratsky (Postdoctoral Fellow)**

