

EEG in critical care: A window on brain function

Objective: To enhance the skill set for the fundamentals of EEG in critical care setting that will help the attendee understand the why and necessity of continuous EEG in intensive care.

Course organizer: Dr. Rui Antunes, UCIP, Hospital de Santo António, Centro Hospitalar Universitário do Porto

Course director: Dr. Lara Prisco, Neurosciences Intensive Care Unit, Oxford University Hospitals NHS Foundation Trust

Course lecturers: Dr. Sidra Aurangzeb and Dr. Mkael Symmonds, Neurology and Clinical Neurophysiology, Oxford University Hospitals NHS Foundation Trust

PROGRAMME

8:00 – Registration

8:15 - Welcome

8:30 – EEG in Critical Care: Who, When, and How?

9:00 - Logistics of ICU EEG Monitoring (Equipment, Electrodes, Montages, etc.)

9:30 - EEG Interpretation and Terminology: Background, Reactivity & Artifacts

10:00 – Coffee

10:30 – Introduction to Quantitative EEG (LP)

11:00 - EEG for Ischemia Detection: Subarachnoid Haemorrhage

11:30 - EEG for Seizure Detection: Status Epilepticus

12:00 – EEG in the Ictal-Interictal Continuum

12:30 – EEG for prognostication: Cardiac Arrest

13:00 – Lunch

14:00 – EEG to monitor sedation and delirium in ICU

Hands-on sessions: 4 groups rotate through 4 stations of 20' each

14:30 – 14:50: Electrodes and montages

14:50 - 15:10: Raw EEG clinical cases

15:10 – Coffee

15:30 – 15:50: QEEG clinical cases

15:50 – 16:10: Simplified and Multi-Modal Monitoring

16:30 – Closing remarks & Feedback

17:00 – End of course