



Workshop Title:

## NEUROMONITORING WORKSHOP IN PICU

### Workshop Date / Time:

June 2, 2024 / 08:00 - 12:15

June 2, 2024 / 12:45 – 17:00 (workshop repeat)

### Workshop Type:

In-person Half-Day Workshop with theoretical part provided in advance

### Workshop Organizer:

Gustavo A. Costales

### Workshop Facilitators:

Juan D. Roa, Milton David Herrera, Gustavo A. Costales, Patrick Danny Caqui Vilca, Paula Caporal, Edwin Mauricio Cantillano

### Learning objectives:

- Understand the technical aspects of EEG monitoring, the 10 -20 system and its variants.
- Develop an understanding of the pathophysiology of seizures and epileptic status. Identify different patterns of encephalopathy in the EEG tracing.
- Understand the indications and usefulness of EEG monitoring in critical care and be able to interpret it.
- Initiate those involved in acquiring the necessary skills for the understanding, performance and mastery of Transcranial Doppler, duplex and optic nerve sheath, Non-invasive techniques, performed at the patient's bedside, which allows the assessment of cerebral hemodynamics, useful in all those pathologies that can affect cerebral perfusion (intracranial hypertension, traumatic brain injury, CNS infections, stroke, subarachnoid hemorrhage, etc.)

### Workshop program

#### I. **Workshop part:** EEG monitoring (1h 40 min)

Speakers: Juan D. Roa, Milton David Herrera, Gustavo A. Costales

Theoretical content is prepared as pre-recorded talks that will be shared with the registered participants of the workshop in advance in both languages (English and Spanish).

Practical component: A brief introduction will be made and any doubts that may arise from the theorist will be answered in order to dedicate most of the time to practice.

#### II. **Workshop part:** Transcranial Doppler and Optic Nerve Sheath (2h)

Speakers: Patrick Danny Caqui Vilca, Paula Caporal, Edwin Mauricio Cantillano, Gustavo A. Costales



Theoretical content is prepared as pre-recorded talks that will be shared with the registered participants of the workshop in advance in both languages (English and Spanish).

Practical component: A brief introduction will be made and any doubts that may arise from the theorist will be answered in order to dedicate most of the time to practice.