

CONGRESSO DA Sociedade Portuguesa de Anestesiologia

ENGAGE WITH

CURSO PRE-CONGRESSO – SAFE BRAIN INITIATIVE

FRESENIUS KABI

DATE | TIME

- March 21, 2024
- 8.5 hours

PLACE

- Convento de São Francisco, Coimbra | Sala Almedina C2D

WORKSHOP OBJECTIVES

- Describe the basic concepts of electroencephalography (EEG) and its applications in the operating theatre;
- Interpret EEG signals and recognise the different patterns;
- Discuss the benefits of EEG monitoring in anaesthesiology practice;
- Appraise the implementation of EEG monitoring in the operating theatre;
- Familiarize anaesthesiologists with the use of EEG to optimize patient outcomes during surgery;
- Provide hands-on experience and interactive sessions for participants to enhance their skills in EEG interpretation.

WORKSHOP OUTLINE

08:30-09:00h	I. WELCOME AND INTRODUCTION Welcome introduction to the course Introduction to the concepts of the Safe Brain Initiative
09:00-10:00h	II. FUNDAMENTALS OF EEG INTERPRETATION Why do we need Electroencephalography (EEG) perioperatively? Basics of EEG waveform analysis incl. spectral analysis What does the EEG measure and what do the monitors show ? What do I see in EEG monitoring during a typical general anesthesia ?
10:00-10:40h	III. DISCUSSION ROUND + QUIZ 1: WHAT PROBLEMS DO YOU HAVE IN THE OR WITH THE MONITORS?
10:40-11:00h	Coffee break
11:00-12:30h	IV. CLINICAL APPLICATIONS OF EEG IN ANAESTHESIOLOGY How do I recognize the different drugs in the EEG ? How do I recognize artifacts in the EEG ? How do I recognize nociception in the EEG ?
12:30-13:30h	Lunch box
13:30-14:45h	V. OPTIMIZATION OF PATIENT OUTCOMES WITH EEG What do I have to consider in older patients? What do I have to consider in pediatric patients? How can I transfer knowledge from the OR to the ICU ?
14:45-16:45h	VI. EEG 2.0 EEG-guided anaesthetic management strategies - Case studies and real-world examples Sleep, General Anesthesia and EEG Emergence from General Anesthesia, Neural Circuits and EEG Advancements in EEG technology and its potential impact on anaesthesiology Cost-effectiveness
16:45-17:00h	Coffee break
17:00-18:00h	VII. HANDS-ON SESSIONS AND CASE DISCUSSIONS Subgroup 1: Attaching the electrodes and operating the monitors Subgroup 2: Quiz on signals, artifacts and medication Subgroup 3: Case videos: EEG in action
18:00-18:30h	VIII. WRAP-UP AND CONCLUSION Summary of key learnings from the workshop Test Closing remarks and certificates of participation

FACULTY

Prof. Doctor Finn Radtke | Dr. Francisco Lobo | Dr. Francisco Valente | Dr. Gonçalo Durães
Prof. Doctor Joana Berger-Estilita | Dra. Marta Ribeiro | Dr. Rer. Nat. Matthias Kreuzer
Dra. Patrícia Santos | Dr. Pedro Amorim | Prof. Doctor Sérgio Vide

COORDINATION

Prof. Doctor Sérgio Vide