



NEUROANAESTHESIOLOGY

Learning Track 6

Saturday, 3 June 2023
10:30 – 14:30
Tay - Hall 2

EEGW

Safe Brain Initiatives –

EEG Boot-Camp for Anaesthesia and Intensive Care

**IMPORTANT NOTICE: access to this workshop is limited to pre-registered delegates

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Workshop

About this session:

EEG monitors to assess the level of hypnosis during anaesthesia have become widespread. However, anaesthesia staff often do not use the information provided by the EEG activity, as raw traces or its representation in density spectral arrays or by associated parameters to guide and finetune the anaesthesia practice. If the EEG is considered, most often the heavily processed indices are used as only source of information for guidance. This processed information, however, only partially reflects the complete EEG information. To fully appreciate the information of EEG-derived indices, it is essential to understand how the raw EEG and the derived parameters interact during anaesthesia.

The aim of this course is to enable participants to fully integrate the EEG, its sub-parameters and the processed EEG values in a patient-centered and brain protective approach in real-world clinical settings. From electrode placement to EEG interpretation and troubleshooting, all aspects will be interactively taught and discussed in a hands-on approach.

Target audience: Physicians and nurses interested in the field.

Chair: Finn Radtke (Nykoebing, Denmark)

Co-Chair: Susanne Koch (Berlin, Germany)

10:30 **Welcome and introduction**

PART I

10:35 **Why do we need Electroencephalography (EEG) perioperatively?**

Speaker: Finn Radtke (Nykoebing, Denmark)

Speaker: Susanne Koch (Berlin, Germany)

10:55 **How to do EEG? Theory & hands-on - How to use electrodes, impedance, hardware, filters and more.**

Speaker: Matthias Kreuzer (Munich, Germany)

Speaker: Janna Lendner (Tübingen, Germany)

11:15 **The perfect EEG patient (from baseline to PACU) - Hands-on video clinical immersion**

Speaker: Martin Soehle (Bonn, Germany)

Speaker: Falk von Dincklage (Greifswald, Germany)

11:35 **Kahoot – Round 1**

Facilitator: Florian Bubser (Nykoebing, Denmark)

This workshop is kindly supported by

Medtronic

Engineering the extraordinary

11:45-11:55

BREAK

PART II

Anaesthesia EEG case examples - interactive lectures:

11:55

1. TOO DIFFERENT: The medications and signatures

Speaker: Janna Lendner (Tübingen, Germany)

Speaker: Finn Radtke (Nykoebing, Denmark)

12:15

2. TOO NOISY: The artefacts and more

Speaker: Falk von Dincklage (Greifswald, Germany)

Speaker: Matthias Kreuzer (Munich, Germany)

12:35

3. TOO SPECIAL: The young and the old

Speaker: Susanne Koch (Berlin, Germany)

Speaker: Martin Soehle (Bonn, Germany)

12:55

Kahoot – Round 2

Facilitator: Florian Bubser (Nykoebing, Denmark)

13:05-13:30

BREAK

WORKSTATIONS

13:30

1 - The Monitor: tips and tricks

Facilitator: Janna Lendner (Tübingen, Germany)

Facilitator: Falk von Dincklage (Greifswald, Germany)

13:45

2 - Signals and artefacts: the Quiz I

Facilitator: Matthias Kreuzer (Munich, Germany)

Facilitator: Susanne Koch (Berlin, Germany)

14:00

3 - Video clinical immersion: EEG in action / Recognition Quizz II

Facilitator: Finn Radtke (Nykoebing, Denmark)

Facilitator: Martin Soehle (Bonn, Germany)

14:15-14:30

Outlook and summary