



# 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

**W**

Workshop

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

#### 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: Anaesthesia physicians and nurses interested in the field.*

Chair: Finn Radtke (Nykobing, Denmark)

Co-Chair: Susanne Koch (Berlin, Germany)

10:30 **Welcome and introduction**

#### **PART I**

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

Speaker: Susanne Koch (Berlin, Germany)

Speaker: Finn Radtke (Nykobing, Denmark)

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

Speaker: Janna Lendner (Tübingen, Germany)

Speaker: Matthias Kreuzer (Munich, Germany)

11:15 **What does EEG measure? (from neuroanatomy to the index)**

Speaker: Susanne Koch (Berlin, Germany)

Speaker: Matthias Kreuzer (Munich, Germany)

11:35 **Anaesthesia: The perfect EEG patient (from baseline to PACU) - Hands-on video clinical immersion**

Speaker: Falk von Dincklage (Greifswald, Germany)

Speaker: Finn Radtke (Nykobing, Denmark)

This workshop is kindly supported by

**Medtronic**

Engineering the extraordinary

11:55-12:30

**BREAK**

**PART II**

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**Anaesthesia EEG case examples - interactive lectures:**

12:30

**1. TOO NOISY: The artifacts and more**

Speaker: Janna Lendner (Tübingen, Germany)

Speaker: Matthias Kreuzer (Munich, Germany)

12:45

**2. TOO DIFFERENT: The medications and signatures**

Speaker: Janna Lendner (Tübingen, Germany)

Speaker: Susanne Koch (Berlin, Germany)

13:00

**3. TOO FRAIL: The geriatric patient and burst suppression**

Speaker: Susanne Koch (Berlin, Germany)

Speaker: Finn Radtke (Nykobing, Denmark)

13:15

**4. TOO LITTLE: Alpha loss, arousal. Pain and movement.**

Speaker: Falk von Dincklage (Greifswald, Germany)

Speaker: Matthias Kreuzer (Munich, Germany)

13:30

**5. TOO BAD: Delta persistence**

Speaker: Matthias Kreuzer (Munich, Germany)

Speaker: Janna Lendner (Tübingen, Germany)

13:45

**6. TOO SMALL: The paediatric patient, age-specific EEG**

Speaker: Susanne Koch (Berlin, Germany)

Speaker: Falk von Dincklage (Greifswald, Germany)

14:00

**7. TOO SICK: ICU and EEG use**

Speaker: Falk von Dincklage (Greifswald, Germany)

Speaker: Finn Radtke (Nykobing, Denmark)

**WORKSTATIONS (integrated in the interactive lectures)**

**A - The Monitor: tips and tricks**

Facilitator: Susanne Koch (Berlin, Germany)

Facilitator: Matthias Kreuzer (Munich, Germany)

**B - Signals and artefacts: the Quiz**

Facilitator: Matthias Kreuzer (Munich, Germany)

Facilitator: Janna Lendner (Tübingen, Germany)

**C - Video clinical immersion: EEG in action**

Facilitator: Finn Radtke (Nykobing, Denmark)

Facilitator: Falk von Dincklage (Greifswald, Germany)

14:15-14:30

**Outlook and summary**