

# WEBINAR

**Date:** July, 19th 2024

**Hour:** 6 pm CET

**Platform:** ZOOM



## MEPS IN SPINAL CORD MONITORING - THE BASICS

### SPEAKERS



**David MacDonald**  
Italy



**Andrea Szelenyi**  
Germany

### HEAD OF ORGANIZING COMMITTEE / ISIN PRESIDENT



**Sedat Ulkatan**  
Unites States of America

### EDUCATIONAL COMMITTEE



**Gea Drost**  
The Netherlands



**Gemma Pérez**  
Spain



**Xabier Urriza**  
Spain

### MODERATORS



**Gemma Pérez**  
Spain



**Gea Drost**  
The Netherlands

### AGENDA

**18:00 Introduction**

Sedat Ulkatan

**18:05 Lecture**

David MacDonald

**18:35 Q&A**

Moderated by:

Gea Drost and Gemma Pérez

**18:55 Case presentation**

Andrea Szelenyi

**19:10 Q&A**

Moderated by:

Gea Drost and Gemma Pérez

**19:20 Closing Remarks**

Gea Drost

### OBJECTIVES

After the webinar, participants should be able to

1. Explain the physiological principles underlying motor evoked potentials (MEPs), and clearly distinguish between muscle MEPs and D-waves in terms of their generation, clinical significance, and applications in spinal cord monitoring.
2. Describe MEP monitoring techniques including stimulation circuits, parameters, facilitation, and recording methodology.
3. Summarize the influence of anesthesia on muscle MEPs, explain why total intravenous anesthesia with propofol and opioid is generally optimal, and describe some alternatives.
4. Apply current warning criteria for D-waves and muscle MEPs when used for spinal cord monitoring.

Each objective is designed to build a comprehensive knowledge base, from understanding the fundamental concepts to applying them in practical scenarios, ensuring a well-rounded educational experience in the field of MEP monitoring in spinal surgery.