

## Multimodal Intraoperative Neuromonitoring

for medical doctors, neurophysiologists and theatre staff  
in the field  
of neurosurgery, neurology, spine-, orthopaedic-  
and neuropaediatric surgery and anaesthesia

17<sup>th</sup> until 19<sup>th</sup> March 2019

**ARKANA**  **FORUM**

Emmendingen, Germany

### PROGRAMME

(subject to alterations)

#### Sunday, 17<sup>th</sup> March 2019

16:00	-	16:30	<i>Registration</i>	
16:30	-	16:45	<b>Welcome</b>	Ott
16:45	-	17:15	<b>History of neuromonitoring</b> From first neurophysiologic recording to modern neuromonitoring methods	Mattmüller
17:15	-	17:55	<b>Introduction to multimodal neuromonitoring</b> Basics of IONM and overview of state of the art	Szelényi
17:55	-	18:10	<i>Coffee break</i>	
18:10	-	19:00	<b>IONM - Anesthesiological considerations</b> Basics of anesthesia and influence on IONM	Malcharek
19:00	-	19:30	<b>Workshop</b> Get to know the IONM system and accessories	
19:30	-	22:30	<i>Get - together</i>	

#### Monday, 18<sup>th</sup> March 2019

8:30	-	9:30	<b>Anatomy and physiology for IONM</b> Relevant structures and pathways	Ref. Group
9:30	-	10:20	<b>Technical basics of IONM</b> Terminology, basics of stimulation and recording, filters	Ref. Group
10:20	-	10:40	<i>Coffee Break</i>	
10:40	-	11:40	<b>IONM during correction of spinal deformities</b> MEP, SEP, EMG of spinal nerves	Campos
11:40	-	12:30	<b>IONM during spinal cord surgeries</b> D-Wave and MEP	Seidel
12:30	-	13:30	<b>Lunch Buffet</b>	
13:30	-	13:50	<b>Intraoperative mapping of the spinal cord</b> Identification of the corticospinal tract and dorsal column	Seidel
13:50	-	14:30	<b>IONM during spinal surgeries</b> Case presentation and discussion	Campos
14:30	-	15:15	<b>Workshop</b> Electrode placement and system setup for spinal surgery case studies	
15:15	-	16:15	<b>IONM during supratentorial surgeries</b> MEP and SEP in cranial surgeries, phase reversal	Szelényi
16:15	-	16:35	<i>Coffee Break</i>	
16:35	-	17:15	<b>Dynamic subcortical mapping</b> Identification of the corticospinal tract	Seidel
17:15	-	18:10	<b>IONM during brainstem surgeries</b> CoMEP, EMG of cranial nerves, AEP	Seidel
19:30	-		<i>Social evening with dinner</i>	

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#### Tuesday, 19<sup>th</sup> March 2019

8:30	-	9:15	<b>IONM during cranial surgeries</b> Case presentation and discussion	Campos
9:15	-	10:15	<b>Workshop</b> Electrode placement and system setup for cranial surgery case studies	
10:15	-	10:35	<i>Coffee break</i>	
10:35	-	11:20	<b>Warning criteria for motor evoked potentials</b> New threshold criterium for MEP in supratentorial surgery	Abboud
11:20	-	11:50	<b>Workshop</b> Pitfalls and Troubleshooting in the OR	
11:50	-	12:05	<i>Break</i>	
12:05	-	12:50	<b>Monitoring of sexual function</b> First experiences in urological surgery	Palomeque
12:50	-	13:00	<b>Certificates and Farewell</b>	
13:00	-	14:00	<i>Lunch</i>	

#### Couse director:

**Andrea Szelényi, MD PhD**

Neurosurgical Clinic of the University of Munich  
Campus Grosshadern, Germany

#### Invited Speakers:

**Tammam Abboud, MD**

Universitätsmedizin Göttingen  
Germany

**Guillermo Martin Palomeque, MD**

Hospital Universitario Ramón y Cajal  
Madrid, Spain

**Marianella Campos Friz, MD**

University Hospital Freiburg  
Germany

**Kathleen Seidel, MD**

Inselspital Bern  
Switzerland

**Michael Malcharek, MD PD**

Klinikum St. Georg  
Leipzig, Germany