

# Intraoperative Neurophysiology A State-of-the-Art Approach



Jun 04 - Jun 07 | Hilton, Sibiu

## Time & Location

Jun 04, 2026, 7:30 AM GMT+3 – Jun 07, 2026, 4:00 PM GMT+3

Hilton, Sibiu, Strada Pădurea Dumbrava 1, Sibiu 550399, Romania

## The Organizing Committee



**Ionela Codita, MD**  
*Senior Neurologist  
Elias University Emergency Hospital  
Bucharest, Romania*



**Mirela Simon, MD, MSc**  
*Associate Professor of Neurology  
Harvard Medical School  
Boston, USA*



**Ioana Mindruta, MD, PhD**  
*Associate Professor of Neurology  
Carol Davila University of Medicine  
Bucharest, Romania*



**Claudiu Matei, MD, PhD**  
*Head, Department of Neurosurgery  
MedLife Polisano  
Sibiu, Romania*



**Dan Filip, MD, PhD**  
*Senior Neurologist  
MedLife Polisano  
Sibiu, Romania*



**Ovidiu Banea, MD, PhD**  
*Senior Neurophysiologist  
Regina Maria Hospital  
Timisoara, Romania*



**Alexandru Thiery, MD**  
*Head, Pediatrics Orthopaedics&Spine  
Monza Brain Institute  
Bucharest, Romania*





### **Ovidiu Banea, MD, PhD**

*Senior Neurophysiologist  
Regina Maria Hospital  
Timisoara, Romania*

*Dr. Ovidiu Banea is a clinical neurophysiologist specializing in intraoperative neurophysiological monitoring (IONM), EEG, EMG, TMS, and evoked potentials. He completed his clinical neurophysiology training at Hospital del Mar in Barcelona in 2015 and also holds a specialization in Sports Medicine from the University of Barcelona, obtained in 2007. In 2022, he earned a PhD in Applied Sciences from Reykjavík University, focusing on neurophysiological biomarkers for rTMS treatment in schizophrenia and auditory verbal hallucinations. Dr. Banea graduated from the Faculty of Medicine in 2000 and the Faculty of Sciences – Ecology in 1997, both in Sibiu, Romania, in his hometown.*



### **William Butler, MD**

*Assistant Professor of Neurosurgery  
Harvard Medical School  
Boston, MA*

*Dr. William Butler earned his Doctor of Medicine degree from Harvard Medical School and completed both his internship and neurosurgery residency at Massachusetts General Hospital in Boston, USA. He is an experienced neurosurgeon with advanced subspecialty training in pediatric neurosurgery, specializing in complex surgical conditions affecting the brain, brainstem, cranial nerves, spinal cord, and nerve roots. His expertise includes treating tumors, trauma, and developmental abnormalities. Dr. Butler has a strong interest in innovative surgical techniques, including computer-assisted image guidance, stereotactic, and laser surgery. His current research explores cerebellar functional anatomy. He is also widely recognized as a dedicated educator and mentor in pediatric neurosurgery.*



### **Alexandru Calin, MD, PhD**

*Neuroscientist & Academic Fellow  
King's College Hospital  
London, UK*

*Beginning as a medical student in Bucharest, this researcher worked in translational neuroscience under the mentorship of Mihai Moldovan, focusing on EEG reactivity and cerebral ischaemic injury. Research at Massachusetts General Hospital and within the ComaEEG network contributed to the development of EEG reactivity indices, including Default EEG Reactivity (DER) using oscillatory macrostate analysis. Doctoral studies at University of Oxford, supported by the Wellcome Trust, explored epileptiform activity and neural balance restoration techniques. Currently an Academic Clinical Fellow at King's College Hospital, his work combines machine learning, neurophysiology, and imaging to improve coma monitoring, prognostication, and patient management.*



**Ionela Codita, MD**

*Senior Neurologist*

*Elias University Emergency Hospital*

*Bucharest, Romania*

*Dr. Ionela Codita is a Romanian neurologist who earned her MD degree from Carol Davila University of Medicine and Pharmacy in Bucharest. She currently practices at Elias University Emergency Hospital and collaborates with Monza Brain Institute. Certified in Clinical Neurophysiology since 2004, she has focused extensively on developing intraoperative neurophysiological monitoring (IONM) in Romania, completing advanced training through the International Society of Intraoperative Neurophysiology. Dr. Codita established one of Romania's first IONM practices, with experience in over 600 spinal deformity correction cases and complex spinal tumor surgeries. She also serves as Secretary of Romanian Society of Electrodiagnostic Neurophysiology and is actively involved in neurophysiology education and mentoring.*



**Isabel Fernandez-Conejero, MD**

*Director, Intraoperative Neurophysiology Unit*

*Bellvitge University Hospital*

*Barcelona, Spain*

*Dr. Isabel Fernandez-Conejero graduated in Medicine and Surgery at the University of Barcelona, where she also completed Clinical Neurophysiology residency. She moved to New York to complete an IOM fellowship under Prof. Vedran Deletis at St. Luke's Roosevelt Hospital. She is Director of the Intraoperative Neurophysiology Unit at University Hospital of Bellvitge in Barcelona and has developed educational programs for residents across Spain, Europe, and South America. She has authored numerous publications on advanced neurophysiological techniques, especially cranial nerve and brain surgery applications. She is Chair of the Educational Committee and former President of the International Society of Intraoperative Neurophysiology.*



**Ricardo Ferreira, MD**

*Neuro-physiologist*

*University of Sao Paulo*

*Sao Paulo, Brazil*

*Dr. Ricardo Ferreira, MD, is Assistant Physician at the Orthopedic and Traumatology Institute of the University of São Paulo, within the IOM Spine Surgery Group. He graduated in Medicine from the Federal University of Rio Grande in 1984 and is a physiatrist and neurophysiologist, affiliated with the Brazilian Association of Physical Medicine and Rehabilitation and the Brazilian Society of Clinical Neurophysiology. He developed early intraoperative monitoring work at AACD in São Paulo and introduced motor evoked potentials in Brazil in 2001. He collaborated with major universities including UNIFESP, UNICAMP, USP, and Santa Casa, and has extensive teaching and leadership roles within ISIN and Latin American neurophysiology networks.*



### **Dan Filip, MD, PhD**

*Senior Neurologist  
MedLife Polisano  
Sibiu, Romania*

*Dr. Filip Dan is a Romanian neurologist who earned his MD from the University of Medicine and Pharmacy of Târgu Mureș and currently practices at Medlife Polisano Hospital Sibiu. Certified in Clinical Neurophysiology, he has worked in intraoperative neurophysiological monitoring (IONM) since 2014, beginning training at Hospital del Mar Barcelona and completing advanced programs with the International Society of Intraoperative Neurophysiology. In 2017, he obtained a PhD in Medical Science from Lucian Blaga University of Sibiu, focusing on IONM in neurosurgery. He is part of the Medlife Polisano Sibiu Brain Team, with extensive experience in multimodal monitoring during brain, skull base, and spinal tumor surgeries.*



### **Ștefan Ioan Florian, MD**

*Professor of Neurosurgery  
Iuliu Hațieganu University of Medicine and Pharmacy  
Cluj-Napoca, Romania*

*Dr. Ștefan Ioan Florian is Professor of Neurosurgery at the Iuliu Hațieganu University of Medicine and Pharmacy in Cluj-Napoca, Romania. He also serves as Head of the Department of Neurosurgery at the Cluj County Emergency Hospital, where he is actively involved in advanced neurosurgical practice and clinical leadership. Prof. Florian is the former President of the Romanian Society of Neurosurgery, reflecting his national leadership role in the field. Since 2014, he has been President of the Euroacademia Multidisciplinaria Neurotraumatologica (EMN), contributing to international collaboration in neurotraumatology, education, and multidisciplinary research across Europe.*



### **Greg Fulton, MD**

*Professor of Vascular Surgery  
Cork University Hospital  
Cork, Ireland*

*Professor Fulton is an experienced vascular surgeon at Cork University Hospital in Cork, Ireland. Originally from Belfast, he graduated in medicine from Trinity College Dublin in 1990 with Honours in Surgery. He completed postgraduate training in Ireland and became a Fellow of the Royal College of Surgeons of Ireland in 1994. Afterwards he undertook a two-year research fellowship at Duke University, USA, and received an MD thesis from Trinity College Dublin in 1997. In 2000 he obtained an Intercollegiate Fellowship and completed an International Fellowship in Endovascular Surgery at the Cleveland Clinic Foundation in 2002. He remains active in practice.*



**Faisal Jahangiri, MD, DABNM**

Assistant Professor  
University of Texas  
Dallas, USA

*Dr. Faisal R. Jahangiri is a neurophysiologist based in Dallas, Texas, specializing in intraoperative neurophysiological monitoring (IONM). He is President and CEO of Global Innervation LLC and has over 30 years of experience, having supervised more than 17,000 surgical cases across 300+ hospitals internationally, including the United States, Middle East, and Pakistan. His work spans neurosurgery, orthopedics, ENT, vascular, and general surgery, as well as ICU and epilepsy monitoring. He is involved in academic teaching as faculty at the University of Texas at Dallas, Labouré College of Healthcare, and Lawrence Technological University. He has authored numerous publications and leads global training programs in surgical neurophysiology.*



**Zoltan Maior, MD, MSc, PhD**

Head, Neurophysiology Department  
National Center for Spinal Disorders  
Budapest, Hungary

*Dr. Zoltán Zsigmond Major, MD, MSc, PhD, is a neurologist and neurophysiologist with over 20 years of experience in clinical neurophysiology. He serves as Head of the Neurophysiology Department at the National Center for Spinal Disorders in Budapest and is an Adjunct Clinical Senior Research Fellow at Babeş-Bolyai University Cluj-Napoca. He performs intraoperative neurophysiological monitoring (IONM) in complex spinal and cranial surgeries across Hungary and Romania, with extensive multidisciplinary experience since 2010 for peripheral and 2014 for central nervous system procedures. He trained at the National Institute for Clinical Neurosciences Budapest and Hôpitaux Universitaires Genève. He is a founding committee member of the IONM section of the Hungarian Society of Neurophysiology.*



**Jose Manuel Matamala, MD, PhD**

Associate Professor of Neurology  
University of Chile  
Santiago de Chile, Chile

*Dr. Jose Manuel Matamala earned an MD in Neurology from the University of Chile, a Master's degree in Neurological Electrodiagnostics from the University of Barcelona, and a PhD in Medicine from the University of Chile. He completed a postdoctoral fellowship in Clinical Neurophysiology and Motor Neuron Disease at the Brain and Mind Centre, University of Sydney, under Prof. Matthew Kiernan. He trained in intraoperative neurophysiological monitoring in Brazil and the USA. He is Associate Professor at the Hospital del Salvador and the Faculty of Medicine, University of Chile, and leads the Translational Neurology and Neurophysiology Lab (NODO Lab), focusing on biomarkers in motor neuron and neuromuscular diseases.*



### **Claudiu Matei, MD, PhD**

*Head, Department of Neurosurgery  
MedLife Polisano  
Sibiu, Romania*

*Dr. Claudiu Matei holds both MD and PhD degrees in Medical Sciences and is Assistant Professor of Neurosurgery at Lucian Blaga University of Sibiu, Faculty of Medicine. He is also Head of the Neurosurgery Department at MedLife Polisano Clinic Sibiu. He is a member of the European Society for Pediatric Neurosurgery and has gained extensive clinical experience through training and practice at major pediatric neurosurgical centers, including the Cluj University Center and Zentral Klinikum Bad Berka in Germany. His academic activity includes peer-reviewed publications in pediatric neurosurgery and lecturing in international courses. He also serves as Chair of the Organizing Committee of an annual Neuro-Oncology Congress at Lucian Blaga University.*



### **Ioana Mindruta, MD, PhD**

*Associate Professor of Neurology  
Carol Davila University of Medicine and Pharmacy  
Bucharest, Romania*

*Dr. Ioana Mindruță is a senior neurologist with over 25 years of clinical experience and Head of the Epilepsy Monitoring Unit at the University Hospital of Bucharest. She coordinates the Romanian national presurgical evaluation program for invasive cerebral exploration, leading multidisciplinary selection for epilepsy surgery and neurostimulation therapies. Trained in epileptology at the Grenoble Epilepsy Center, she has advanced expertise in long-term video-EEG monitoring, scalp and invasive EEG interpretation, EMG, and evoked potentials. She is Associate Professor at Carol Davila University of Medicine and Pharmacy and Vice President of the Romanian Society of Clinical Electrophysiology and Electrodiagnostics, with research focused on epileptogenic network biomarkers and functional connectivity.*



### **Silvia Mazzali Verst, MD, PhD**

*Intraoperative Neurophysiologist  
Sao Paulo Universtiy  
Sao Paulo, Brazil*

*Dr. Mazzali Verst is a clinical neurophysiologist with extensive expertise in intraoperative applications, including brain mapping and monitoring in awake and asleep craniotomies, as well as multimodality intraoperative monitoring in spinal cord surgery. She currently serves as Director of the Intraoperative Neuromonitoring (IOM) Program within the Clinical Neurophysiology residency at the University of São Paulo in São Paulo, Brazil, and is also coordinator of the IOM Fellowship at Brain Spine Neurophysiology. She is the editor of the textbook \*Intraoperative Monitoring, Neurophysiology and Surgical Approaches\*, published in English and German editions. Her work focuses on advancing practical IOM training, clinical standards, and multidisciplinary neurosurgical collaboration.*



### **Denise Medeiros De Melo, MD, MSc**

*Clinical Neurophysiologist Specialist  
SARAH Network of Rehabilitation Hospitals  
Federal Distric, Brazil*

*Dr. Denise Lima Medeiros De Melo earned her MD from the University of Brasília and a Professional Master's degree from the Federal University of São Paulo (UNIFESP). She completed residencies in Neurology at the Hospital das Clínicas of Ribeirão Preto (University of São Paulo) and in Clinical Neurophysiology at UNIFESP. She holds specialist certification in Neurology from the Brazilian Academy of Neurology and in Clinical Neurophysiology from the Brazilian Society of Clinical Neurophysiology. She currently works as a neurophysiologist within the Sarah Network of Rehabilitation Hospitals in Brazil, focusing on clinical neurophysiology and rehabilitation-oriented neurological assessment.*



### **Mihai Moldovan, MD, PhD**

*Associate Professor of Neuroscience  
Department of Neurology, North Zealand Hospital  
Hillerød, Denmark*

*Dr. Mihai Moldovan obtained his MD from Carol Davila University of Medicine and Pharmacy, Bucharest, in 1999. He earned a PhD in neurophysiology from the University of Copenhagen in 2004, continuing as Associate Professor in translational neuroscience. He maintained long-term collaboration with the Department of Physiology and Neuroscience at Carol Davila University. In 2011, he founded the COMAEEG.RO network focused on EEG-based monitoring of coma and brain excitability. He is also founder of the National Neuroscience Society of Romania (SNN) and the Romanian Society of Electrodiagnostic Neurophysiology (ASNER), serving in leadership roles. He currently works clinically at North Zealand Hospital Hillerød and collaborates with Rigshospitalet Copenhagen on AI-driven electrodiagnostic research.*



### **Aliasgar Moiyadi, MD**

*Professor of Neurosurgery  
Tata Memorial Center  
Mumbai, India*

*Prof. Dr. Aliasgar V. Moiyadi is a neurosurgeon specializing in neuro-oncology and serves as Chief of Neurosurgery at the Tata Memorial Centre in Mumbai, India, where he has helped develop dedicated neuro-oncology services. His clinical and research work focuses on glioma resection strategies, intraoperative brain mapping, and minimally invasive neurosurgery. He has authored over 170 peer-reviewed publications and contributes to multiple neurosurgical journal editorial boards, with active involvement in clinical trials and translational research. He also holds leadership roles within the Neurological Society of India and the Indian Society of Neuro-Oncology, contributing to national neurosurgical education and organizational development.*



### **Marc Nuwer, MD, PhD**

*Professor of Neurology and Neurosurgery  
University of California, Los Angeles (UCLA)  
Los Angeles, USA*

*Dr. Marc R. Nuwer earned MD and PhD from Stanford University School of Medicine. He is Professor at UCLA Medical Center and Director of Clinical Neurophysiology Program. Trained in evoked potentials and electrical engineering, he pioneered intraoperative spinal cord monitoring and continuous evoked potentials, improving surgical safety, and helped establish critical-care EEG and transition EEG from analog to digital EEG, and collaborated with J. Engel to develop early epilepsy monitoring units. He is past President of American Clinical Neurophysiology Society and International Federation of Clinical Neurophysiology, and serves in American Medical Association policy body.*



### **Tatsuya Oishi, MD**

*Assistant Professor of Neurology  
Mayo Clinic  
Rochester, USA*

*Tatsuya Oishi, M.D., is Assistant Professor of Neurology at Mayo Clinic in Rochester, Minnesota, USA. His clinical and research interests include intraoperative neuromonitoring, outpatient electromyography (EMG), and evoked potentials. He serves as a lecturer for the Mayo Clinic School of Health Sciences Clinical Neurophysiology Technology Program. He earned his MD from the University of Illinois College of Medicine at Chicago, followed by neurology residency and a clinical neurophysiology/EMG fellowship at Mayo Clinic in Rochester. His work focuses on advancing neurophysiological diagnostics in perioperative and outpatient settings, with emphasis on electrophysiological monitoring and training of allied health professionals in neurodiagnostic practice.*



### **Konstantinos Papadopoulos, MD, D.Sc**

*Intraoperative Neurophysiology Academic Associate  
Evangelismos Hospital & University of Athens  
Athens, Greece*

*Dr. Konstantinos Gervasios Papadopoulos is an Intraoperative Neurophysiology Academic Associate at Evangelismos Hospital Athens, within the Department of Neurosurgery of the National and Kapodistrian University of Athens. He previously worked in the Scoliosis & Spinal Cord Unit at KAT Hospital Athens and has been active in intraoperative neurophysiological monitoring (IONM) since 2004. He has supported surgical teams across neurosurgery, orthopedics, vascular, and general surgery, contributing to approximately 6,700 cases, including 3,900 complex spinal procedures involving deformity, trauma, degenerative disease, and tumors. He has helped introduce IONM services in multiple centers, expanding access to monitoring. He is also active in education, research, and standardization of IONM practice and serves as Chair of the Membership Committee of the International Society of Intraoperative Neurophysiology.*



### **George Petrescu, MD, PhD**

*Assistant Professor of Neurosurgery  
Carol Davila University of Medicine and Pharmacy  
Bucharest, Romania*

*Dr. George Petrescu holds both MD and PhD degrees in Medical Sciences from Carol Davila University of Medicine and Pharmacy in Bucharest, Romania. Following completion of his neurosurgery residency at Bagdasar-Arseni Clinical Emergency Hospital, he joined the staff and remains clinically active. He also serves as a lecturer in the Department of Neurosurgery at Carol Davila University, where he is involved in teaching medical students and residents. His research focuses on identifying new therapeutic targets for primary brain tumors and improving quality of life after neuro-oncological surgery. He is also engaged in developing educational tools using extended reality technologies for training and patient education in neuro-oncology.*



### **Octav Ginghina, MD, PhD**

*Professor Oncological Surgery  
Carol Davila University of Medicine and Pharmacy  
Bucharest, Romania*

*Octav Ginghină is a senior consultant surgical oncologist and Professor at Carol Davila University of Medicine and Pharmacy. Trained in Belgium and South Korea, he specializes in hepato-bilio-pancreatic and endocrine oncologic surgery. With 53 ISI-indexed publications and an H-index of 25, he leads national research projects and is an active member of major European surgical societies. Prof. Ginghină is recognized for his expertise in multidisciplinary endocrine and oncologic surgical care.*



### **Kathleen Seidel, MD**

*Professor of Neurosurgery  
Inselspital, University Hospital  
Bern, Switzerland*

*Prof. Dr. med. Kathleen Seidel is a board-certified neurosurgeon and Professor in the Department of Neurosurgery at Inselspital, University Hospital Bern, Switzerland, with a specialization in neuro-oncological surgery. Since 2008, she has established and led the unit of intraoperative neurophysiology (IONM) at Inselspital. Following a fellowship in IONM with Prof. Vedran Deletis and Sedat Ulkatan in New York, she has focused on advancing IONM modalities, improving patient safety in high-risk neurosurgical procedures, and training international specialists through courses and observerships. She has authored numerous publications and book chapters on IONM, subcortical brain mapping, and spinal cord mapping, and is co-editor of an IONM textbook. She is currently President of the International Society of Intraoperative Neurophysiology and a recipient of the Theodor Kocher Prize of Bern University.*



**Mirela Simon, MD, MSc**

*Associate Professor of Neurology  
Harvard Medical School  
Boston, USA*

*Dr. Simon, originally from Romania, earned her MD from Carol Davila University of Medicine and Pharmacy and an MSc in Epidemiology from the Harvard T.H. Chan School of Public Health. She completed neurology training at Boston University Medical Center, followed by fellowship training in Clinical Neurophysiology and Epilepsy at Massachusetts General Hospital, where she later joined the faculty. She established and led an intraoperative neurophysiology (ION) unit and physician training program at MGH. She is Associate Professor at Harvard Medical School and Beth Israel Deaconess Medical Center. She is past President of the American Board of Clinical Neurophysiology, co-director of the American Clinical Neurophysiology Society IONM course, and Secretary of the International Society of Intraoperative Neurophysiology.*



**Andrea Szelenyi, MD, PhD**

*Professor, Intraoperative and Clinical Neurophysiology  
Ludwig Maximilians University  
Munich, Germany*

*Andrea Szelenyi is Professor of Intraoperative and Clinical Neurophysiology at the Department of Neurosurgery, Ludwig Maximilians University of Munich, Germany. Her clinical expertise focuses on multimodal intraoperative monitoring and advanced brain mapping techniques in glioma surgery, including awake speech and motor mapping. Trained as a neurologist, she completed a fellowship in intraoperative neurophysiology with Prof. Vedran Deletis in New York. She previously established intraoperative and clinical neurophysiology units at the Universities of Leipzig and Frankfurt, and served as Associate Professor at the University of Düsseldorf. Her research centers on motor system monitoring using motor evoked potentials in neurosurgery. She has published extensively, serves on editorial boards, and was President of the International Society of Intraoperative Neurophysiology from 2015 to 2017.*



**Maria Tellez, MD, DABNM**

*Attending Neurophysiologist  
Mount Sinai West  
New York, USA*

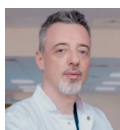
*Dr. Maria Tellez earned her MD in Spain and completed a four-year residency in Clinical Neurophysiology, followed by a four-year fellowship in Intraoperative Neuromonitoring at Mount Sinai West in New York. She is a diplomate of the American Board of Neurophysiologic Monitoring (ABNM) and currently serves as an attending neurophysiologist at Mount Sinai West Hospital. Her research focuses on brainstem and cranial nerve monitoring, with emphasis on novel reflex-based methodologies, including the laryngeal adductor reflex, masseter H-reflex, and trigeminal–hypoglossal reflex. She has published approximately 40 peer-reviewed studies and received recognition for her innovative work in laryngeal reflex monitoring, including the Laryngological Association Young Faculty/Practitioner Award.*



### **Kamylla Thiago DeAlmeida, MD**

*Chief, Intraoperative Neurophysiology Unit  
Central State Hospital  
Vitoria, Brazil*

*Dr. Kamylla Thiago De Almeida is a board-certified neurologist and clinical neurophysiologist with subspecialty training in epilepsy, EEG, and intraoperative neurophysiological monitoring. She completed an epilepsy and EEG fellowship at Federal University of São Paulo in Brazil, followed by an IONM fellowship at Massachusetts General Hospital and Harvard Medical School in Boston, USA. She currently serves as Chief of the Intraoperative Neurophysiological Monitoring Unit at Central State Hospital in Brazil and is CEO of Almeida Neurology and Ictal Associates. Her clinical and academic work focuses on perioperative neurophysiology, epilepsy monitoring, and the integration of advanced neurodiagnostic techniques into surgical and critical care settings.*



### **Alexandru Thiery, MD**

*Head, Pediatrics Orthopaedics&Spine  
Monza Brain Institute  
Bucharest, Romania*

*Dr. Alexandru Thiery is a senior pediatric orthopedic surgeon and co-director of the robotic spinal surgery team at the BRAIN Institute, Monza Hospital, Bucharest, Romania. He graduated from the Carol Davila University of Medicine and Pharmacy in 1997, completed his residency at the Grigore Alexandrescu Clinical Emergency Hospital for Children, and undertook a spinal surgery fellowship at UZ Gent in Belgium. He has held senior roles across major Romanian hospitals and, since 2014, has coordinated pediatric orthopedics at Monza Hospital. He holds the European Diploma in Spinal Surgery and is a member of AO Spine and other professional societies. His expertise includes complex spinal deformity, congenital malformations, trauma, and tumor surgery, with a focus on advanced reconstructive and robotic techniques.*



### **Sedat Ulkatan, MD, DABNM**

*Director, Intraoperative Neuromonitoring Service  
Mount Sinai West  
New York, USA*

*Dr. Sedat Ulkatan graduated from Ankara University Medical School and completed his neurology residency at the same institution in Ankara, Turkey. He pursued a two-year fellowship in intraoperative neurophysiological monitoring and later worked as an IONM professional at Beth Israel Medical Center and Mount Sinai West in New York, USA. He is a diplomate of the American Board of Neurophysiological Monitoring and currently serves as IOM Service Director and Director of the IONM Fellowship Program at Mount Sinai West Hospital. He has published extensively in peer-reviewed journals and book chapters, with notable contributions to cranial nerve reflex monitoring. He is a member of the Executive Committee and immediate Past President of the International Society of Intraoperative Neurophysiology.*

**7:00-7:20** Registration & Welcome Coffee

**7:20-7:30** Welcome

**7:30-9:55** **Dipoles, Action, Near and Far Field Potentials**

*Alexandru Calin MD, PhD*

25 min plenary  
talks followed  
by 20 min Q&A

**Electrical Stimulation in ION**

*Andrea Szelenyi, MD, PhD*

**Variability of Nervous Tissue Excitability - Why it Matters**

*Jose Manuel Matamala, MD, PhD*

**Brain Reactivity and Assessment of Anesthesia**

*Mihai Moldovan, MD, PhD*

**EEG for assessment of ION Procedure-Specific Anesthesia**

*Mirela Simon, MD, Msc*

Q&A Session

**9:55-10:10** Coffee Break

**10:10-12:35** **Supratentorial Surgery- Pathology &**

**Anatomo-Functional Boundaries**

*Claudiu Matei, MD, PhD*

25 min plenary  
talks followed  
by 20 min Q&A

**Preoperative Planning- Neuroimaging & TMS**

*George Petrescu, MD, PhD*

**Preoperative Neurophysiology for Epilepsy Surgery**

*Ioana Mindruta, MD, PhD*

**Sensory Motor Mapping & Monitoring**

*Mirela Simon, MD, Msc*

**Language and Cognitive Functions Mapping & Monitoring**

*Silvia Verst, MD, PhD*

Q&A Session

**12:35-13:25** Lunch +/- 30 min workshop

**13:25-15:50 Intraoperative Electrocorticography for Epilepsy Surgery**

25 min plenary  
talks followed  
by 20 min Q&A

*Mirela Simon, MD, Msc*

**Intraoperative Neurophysiology (ION) in Cerebral Aneurysm Clipping**

*Andrea Szelenyi, MD, PhD*

**CEA**

*Greg Fulton, MD*

**EEG Monitoring in CEA**

*Mirela Simon, MD, Msc*

**Multimodality ION in Vascular and Cardiac Surgery**

*Mirela Simon, MD, Msc*

**Q&A Session**

**15:50-16:10 Coffee Break**

**16:10-18:35 SSEP+ MEP in ION**

25 min  
workshop/DG

*Konstantinos Papadopolous, MD, DSc and Zoltan Major, MD, MSc, PhD*

**Intraoperative Sensory Motor Mapping & Monitoring**

*Mirela Simon, MD, MSc and Dan Filip, MD, PhD*

**EMG in ION**

*Jose Manuel Matamala, MD, PhD and Ionela Codita, MD*

**Corticobulbar MEP in ION**

*Isabel Fernandez Conejero, MD and Ovidiu Banea, MD, PhD Brainstem*

**Brainstem Reflexes in ION**

*Sedat Ulkatan, MD, DABNM and Maria Tellez, MD, DABNM*

**18:35 Adjourn**

**19:00 Welcome Reception**

**7:00-7:20** *Registration & Welcome Coffee*

**7:20-7:30** *Welcome*

**7:30-9:55** **Skull Base & Brainstem Surgery: Pathology & Anatomic-Functional Boundaries**

20 min plenary talks followed by 20 min Q&A

Aliasgar Moiyadi, MD

**Endovascular Endonasal Approach - Pituitary Adenoma Surgery**

Claudiu Matei, MD, PhD

**ION for Protection of CN III, IV & VI ( Middle Cranial Fossa Surgery)**

Tatsuya Oishi, MD

**ION for Protection of CN II & V (Middle Cranial Fossa Surgery)**

Mirela Simon, MD, Msc

**ION for Protection of CN VII & VIII (CPA surgery)**

Mirela Simon, MD, Msc

**ION for Protection of CN IX-XII (Posterior Cranial Fossa Surgery)**

Maria Tellez, MD, DABNM

**Q&A Session**

**9:55-10:10** *Coffee Break*

**10:10-12:35** **Foramen Magnum Meningioma Surgery- Do We Always Need Neuromonitoring?**

25 min plenary talks followed by 20 min Q&A

Stefan Ioan Florian, MD

**Spinal Cord Surgery- Pathology & Anatomic-Functional Boundaries**

Kathleen Seidel, MD

**ION in Intramedullary Spinal Cord Tumor Surgery**

Mirela Simon, MD, Msc

**ION in Extramedullary Spinal Cord Tumor Surgery**

Kamylla Thiago DeAlmeida, MD

**Spinal Column Procedures: Deformity, Minimally Invasive, Tumor Surgery**

Alexandru Thiery, MD

**Q&A Session**

**12:35-13:25** *Lunch +/- 30 min Industry ION Workshop*

## 13:25-15:50 **ION in Spine Deformity Surgery**

25 min plenary  
talks followed  
by 20 min Q&A

Ionela Codita, MD

### **ION in Minimally Invasive Spine Surgery**

Ricardo Ferreira, MD

### **ION in Pelvic Surgery**

Denise Medeiros De Melo, MD, MSc

### **ION In PNS surgery**

Isabel Fernandez Conejero, MD

### **ION in Endovascular Treatment of Brain and Spinal Cord Lesions**

Sedat Ulkatan, MD, DABNM

### **Q&A Session**

## 15:50-16:10 *Coffee Break*

## 16:10-18:35 **Mapping & Monitoring of CR NN III, IV & VI in ION**

25 min  
workshop/DC

Tatsuya Oishi, MD

### **Intraoperative Language and Cognitive Mapping & Monitoring**

Silvia Verst, MD, PhD and Mirela Simon, MD, MSc

### **ION in Intramedullary Spinal Cord Tumor Surgery**

Kathleen Seidel, MD and Ovidiu Banea, MD, PhD

### **ION in Complex Open Spine Column Surgery**

Ionela Codita, MD and Alexandru Thiery, MD

### **ION in Minimally Invasive Spine Surgery**

Ricardo Ferreira, MD and Faisal Jahangiri, MD

## 18:35 *Adjourn*

**7:00-7:20** *Registration & Welcome Coffee*

**7:20-7:30** *Welcome*

**7:30-9:55** **Pediatric Surgery - Pathology, Challenges & Specifics**

William Butler, MD

20 min plenary  
talks followed  
by 20 min Q&A

**ION in Pediatric Surgery**

Mirela Simon, MD, Msc

**Thyroid and Parathyroid Surgery**

TBD

**ION for Protection of Extracranial CN VII and X**

Maria Tellez, MD, DABNM

**Troubleshooting in ION**

Tatsuya Oishi, MD

**Q&A Session**

**9:55-10:10** *Coffee Break*

**10:10-12:35** **Anesthesia and ION - An Anesthesiologist Perspective**

Iulia Dancu, MD

25 min plenary  
talks followed  
by 20 min Q&A

**Anesthesia and ION - A Neurophysiologist Perspective**

Mirela Simon, MD, Msc

**Enhancing Care - A Multidisciplinary Approach to ION - Roundtable**

Discussion Mirela Simon, MD, Msc (moderator), Ionela Codita, MD  
Alexandru Thiery, MD Claudiu Matei, MD, PhD, TBD

**Echos and Horizons: The Story and Future of intraoperative  
Neurophysiology- Fireside**

Chat with Marc Nuwer, MD, PhD

*Q&A Session*

**12:35-13:25** *Lunch +/- 30 min ION Workshop*

13:25-15:50

## Case 1

25 min plenary  
case  
presentations

## Case 2

## Case 3

## Case 4

## Case 5

## Case 6

William Butler, MD and Mirela Simon, MD, Msc

Denise Medeiros de Melo, MD, Msc

15:50-16:10

Coffee Break

16:10-18:35

## Spinal Reflexes & Other ION Techniques in Pelvic Surgery

Denise Medeiros De Melo, MD, MSc and Faisal Jahangiri, MD

25 min  
workshop/DC

## ION in PNS Surgery

Zoltan Major, MD, MSc, PhD and Kamylla Thiago De Almeida, MD

## Case Based ION Planning and Workflow

Mirela Simon, MD, Msc

## Documentation and Communication in ION

Victoria Cannon, MD, MS

## Troubleshooting in ION

Tatsuya Oishi, MD

18:35

Adjourn

19:00

Course Dinner and Social Program

**7:00-7:20** *Registration & Welcome Coffee*

**7:20-7:30** *Welcome*

**7:30-9:35** **Case 7**

*Jose Manuel Matamala, MD, PhD*

25 min plenary  
case  
presentations

**Case 8**

*Ovidiu Banea, MD, PHD*

**Case 9**

*Zoltan Major, MD, MSc, PhD*

**Case 10**

*Ionela Codita, MD and Alexandru Thiery, MD*

**Case 11**

*Dan Filip, MD, PhD and Claudiu Matei, MD, PhD*

**Case 12**

*Mirela Simon, MD, Msc*

**9:35-10:10** *Coffee Break*

**10:10-12:35** **Case 13**

25 min plenary  
case  
presentations

**Case 14**

**Case 15**

**Case 16**

**Case 17**

**Case 18**

*Dan Filip, MD, PhD and Claudiu Matei, MD, PhD*

*Ionela Codita, MD and Alexandru Thiery, MD*

*Anna Grigoryan, MD,*

*Mirela Simon, MD, Msc*

**12:35-13:25** *Lunch*

# June 7

**13:25-15:50**

**Case 19**

25 min plenary  
case  
presentations

**Case 20**

**Case 21**

**Case 22**

**Case 23**

**Case 24**

Ionela Codita, MD and Alexandru Thiery, MD

Dan Filip, MD, PhD and Claudiu Matei, MD, PhD

Mirela Simon, MD, Msc

**15:50-16:10**

Adjourn

## Discussion Groups & Workshops Thursday, June 4, 2026

WORKSHOP	LOCATION	16:10 - 16:35	16:40 - 17:05	17:10 - 17:35	17:40 - 18:05	18:10 - 18:35
SSEP and MEP in ION	Versailles	1	5	4	3	2
IntraoperaPve Sensory Motor Mapping Diamnd	Diamond	2	1	5	4	3
EMG in ION	Sapphire	3	2	1	5	4
CorPcobulbar MEP in ION	Topaz	4	3	2	1	5
Brainstem Reflexes in ION	Ruby	5	4	3	2	1

**Discussion Groups & Workshops Friday, June 5, 2026**

WORKSHOP	LOCATION	16:10 - 16:35	16:40 - 17:05	17:10 - 17:35	17:40 - 18:05	18:10 - 18:35
Mapping & Monitoring CN III,IV&VI in ION	Versailles	1	5	4	3	2
Intraoperave Language Mapping	Diamond	2	1	5	4	3
ION in Intramedullary Spinal Cord Tumor Surgery	Sapphire	3	2	1	5	4
ION in Complex Open Spine Column Surgery	Topaz	4	3	2	1	5
ION in Minimally Invasive Spine Surgery	Ruby	5	4	3	2	1

**Discussion Groups & Workshops Saturday, June 6, 2026**

WORKSHOP	LOCATION	16:10 - 16:35	16:40 - 17:05	17:10 - 17:35	17:40 - 18:05	18:10 - 18:35
ION in PNS Surgery	Versailles	1	5	4	3	2
Spinal Reflexes & ION Techniques -Pelvic Surgery	Diamond	2	1	5	4	3
Case Based ION Planning and Workflow	Sapphire	3	2	1	5	4
Documentation and Communication in ION	Topaz	4	3	2	1	5
Troubleshooting in ION	Ruby	5	4	3	2	1

