



2026 SNACC Abstract Presentation Schedule

Friday, September 11 | 10:30 am – 12:00 pm ET

Session 1: Basic Science and Neuromonitoring — *Salon III*

1. **Feasibility of Facial EEG for spectral monitoring during Dexmedetomidine–Sevoflurane anesthetic induction in elective neurosurgery: A pilot observational study**
Kunal Kumar
2. **Sevoflurane Alters REM Sleep–Related Transcriptional Signatures in the Brainstem REM Generator**
Nadia Lunardi
3. **Association of low alpha-wave power and IQ scores with the development of postoperative delirium in patients without intracranial pathology undergoing spinal surgery under total intravenous anesthesia (TIVA).**
Gema Velasco
4. **Ketomidate versus Ketofol for Induction of Anesthesia in Patients with Aneurysmal Subarachnoid Hemorrhage undergoing Surgical Clipping: A Prospective Randomized Double-Blind Trial**
Kiran Jangra
5. **Association of Neuromuscular Blocking and Reversal Agents with Postoperative Delirium in Elective Cranial Neurosurgical Patients: A Retrospective Cohort Study**
Jay Kim
6. **CoMind One: A Continuous Non-Invasive Cerebral Perfusion Monitor Based on a New Form of Optical Sensing**
Robert J Cooper
7. **CoMind One Detects CO₂-Induced Autoregulation Impairment with Performance Equivalent to TCD**
Alexander Ruesch
8. **Neurophysiological Monitoring in At-Risk Populations: A Survey of Physicians and Hospital Administrators in the US**
Abhijit V. Lele
9. **Intraoperative Hypotension and All-cause In-Hospital Mortality In Adults with Traumatic Brain Injury Undergoing Urgent/Emergent Craniotomy/Craniectomy: A Systematic Review and Meta-analysis**
Courtney Gomez



Session 2: Medically Challenging Cases — *Salon IV*

- 1. Beyond PSI: Raw EEG-Guided Neuromonitoring During Liver Transplantation in Pathologic Brain and Sickle Cell Disease**
Chinnarat Pongpruska
- 2. A ketamine-based anesthetic regimen for a patient with concomitant malignant hyperthermia susceptibility and carnitine palmitoyltransferase II deficiency**
Lucas Suazo
- 3. Dual-Language English Arabic Speech Testing During Awake Craniotomy: A Novel Approach for Multilingual Patients**
Pedro Furlan Silott
- 4. A Rare Case of Recurrent Transient Expressive Aphasia After General Anesthesia in a Non-Neurosurgical Patient**
Adeel Faruki
- 5. Point-of-Care Ultrasound Monitoring of Optic Nerve Sheath Diameter to Assess Intracranial Pressure During Steep Trendelenburg Position in a Patient with Idiopathic Intracranial Hypertension**
Sagar Jolly
- 6. Perioperative Management of Brugada Syndrome in Endoscopic Transsphenoidal Surgery.**
Laura Otalora Gonzalez
- 7. A nARROW Escape: Neuroanesthetic Management of a Rare Skull-Base Crossbow Injury-A Case Report**
Jean Beresian
- 8. Labor Epidural Analgesia in a Parturient with Symptomatic Frontotemporal Meningioma and Increased Intracranial Pressure**
Navdeep Kaur
- 9. Difficult Airway Management in a Patient with Klippel-Feil Syndrome and Pulmonary Hypertension Undergoing Suboccipital Craniectomy and Posterior Spinal Fusion**
Meghana S Bharadwaj
- 10. A case of severe pulmonary hypertension presenting for pituitary resection**
Carrie Stump



Session 3: Clinical Science Research and Meta Analysis — *Dogwood-Sycamore*

- 1. Diagnostic performance of pulse pressure variation for predicting fluid responsiveness during spine surgery in the prone position: a systematic review and meta-analysis**
Eric Deloso
- 2. Anesthesia for Neurointerventional Procedures in Pregnant Patients: A Narrative Review**
Rania Elkhateb
- 3. Emergency Transfer of patients with Spontaneous Subarachnoid Hemorrhage in Copenhagen: Timing and Transport Characteristics**
Jens Holst Bjerregaard
- 4. Development of an Interactive Educational Tool for External Ventricular Drain Management in Anesthesiology Practice**
Aria Lele
- 5. Patient Perspective Journey in Awake Neurosurgery: A Qualitative Study as a Prelude to a Future Destination Center for Awake Spine and Craniotomy Cases**
Kiran Merchant
- 6. Effects of dexmedetomidine on intraoperative neuromonitoring with evoked potentials – a systematic review and meta-analysis**
Emma Carscadden
- 7. Association Between Perioperative Anxiety and Pain Control - The Role of Dexmedetomidine: A Systematic Review and Meta-Analysis**
Dhanush Bathala
- 8. High-fidelity Simulation for Crisis Management with Intraoperative Loss of Evoked Potentials Using “Neuroanesthetic Emergencies Critical Event Treatment Guides**
Hsin-Yu “Cori” Yang
- 9. Impact of Cannabis Use on Delayed Cerebral Ischemia, Vasospasm and other Functional & clinical Outcomes in Aneurysmal Subarachnoid Hemorrhage: A Systematic review and Meta-analysis.**
Sujoy Banik



Session 4: Clinical Trials/Outcomes — *Salons F-H*

- 1. Continuous, Non-Invasive Cerebral Autoregulation Assessment in Neuro-Intensive Care using CoMind Technology**
Abhijit Lele
- 2. Effect of esketamine on postoperative sleep disturbance in patients undergoing spinal surgery: A randomized, double-blinded, placebo-controlled clinical trial**
Yiwei Chen
- 3. Opioid-Sparing Neuroanesthesia Strategies and Postoperative Opioid Requirements After Complex Spine Surgery: A Retrospective Cohort Study**
Samita Islam
- 4. Effect of Non-invasive, Bioreactance based Goal-Directed Therapy on Delayed cerebral Ischemia After Aneurysmal Subarachnoid Haemorrhage- A randomized control trial**
Rajeeb Kumar Mishra
- 5. Effect of Bilateral Scalp Nerve Block on Intraoperative Opioid Consumption and Postoperative Pain in Children Undergoing Supratentorial Craniotomy**
Girija Rath
- 6. Opioid-dependent modulation of EEG spectral patterns during remimazolam versus propofol anesthesia: a within-subject dose-response analysis**
Jiho Park
- 7. Intra-operative Methadone Use and Post-operative Respiratory Depression in Spine-Surgery Patients: A Propensity-Score Weighted Retrospective Cohort Study**
Sandhya Rani
- 8. Impact of Mobile Stroke Unit Activation on Anesthesia Workflow and Operational Outcomes in Emergent Thrombectomy**
Elvio Mazzotta
- 9. Method-specific responsiveness of non-invasive ICP estimation frameworks during pneumoperitoneum: An exploratory methodological study**
Kunal Kumar



Virtual Session 1: Technology, Neuromonitoring, and Clinical Outcomes — *Zoom*

- 1. Artificial Intelligence Prediction Models for Delayed Emergence After Neuroanesthesia: A Systematic Review**
Justin Kahen
- 2. Pre-Existing Atrial Fibrillation as a Risk Stratifier for 30-Day Major Adverse Cardiac Events After Cranial and Spinal Surgery: A Propensity-Matched Analysis**
Abinav Sakaranthi
- 3. Artificial Intelligence Prediction of Intraoperative Motor Evoked Potential Loss During Spine Surgery: A Systematic Review**
Justin Kahen
- 4. Concurrent Deep Brain Stimulation and Craniotomy for Meningioma with Monitored Anesthesia Care: A Case Report**
Giovanni Mella-Velazquez
- 5. Intraoperative Anesthetic Rescue Burden Predicts Postoperative Complications After Craniotomy**
Abinav Sankaranthi
- 6. Artificial Intelligence Prediction Models for Failure of Awake Craniotomy: A Systematic Review**
Justin Kahen
- 7. Feasibility and safety of awake craniotomy in elderly patients: a retrospective study**
Deepu Subramonian
- 8. Operative Duration Independently Predicts ICU Utilization and Length of Stay Following Spine Surgery**
Abinav Sankaranthi

Virtual Session 2 — *Zoom*

- 1. Anesthesia-Related Risk Factors for Post-Extubation Altered Consciousness After Brain Tumor Craniotomy**
Sana Jaleel
- 2. Silencing the Storm: A Multidisciplinary Approach to Perioperative Management of Deep Brain Stimulator Placement in Super-Refractory Status Epilepticus**
Tam Le



Saturday, September 12 | 8:00 am – 9:30 am ET

Session 1: Basic Science and Translational Science — *Salon III*

1. **Age-Related Decoupling of Prestimulus EEG Alpha Power and Early Visual Processing: A Potential Mechanism of Delirium Vulnerability**
Leah Acker
2. **COMBINATION OF 10% MANNITOL WITH 10% GLYCERINE VERSUS 20% MANNITOL FOR INTRAOPERATIVE BRAIN RELAXATION IN PATIENTS WITH ACUTE ANEURYSMAL SUBARACHNOID HAEMORRHAGE UNDERGOING CRANIOTOMY AND CLIPPING OF ANEURYSM**
Kiran Jangra
3. **Multimodal neuromonitoring for spinal cord injury: a novel device and systematic review of spinal cord evoked potentials**
Serban Negoita
4. **Gq astrocyte activation within the preoptic area of the hypothalamus results in delayed emergence from isoflurane anesthesia in mice, and is prevented by caffeine**
Samuel Bowers
5. **Comparative evaluation of propofol versus ketofol on post induction hypotension in adult patients undergoing cervical spine surgery: A Randomized controlled pilot study**
Kirandeep Kaur
6. **Depth of anesthesia alters surgery-induced microglia activity**
Woosuk Chung
7. **Non-Invasive Intracranial Pressure Recordings During Anesthetic Induction for Craniotomy: A Prospective Observational Pilot Study**
Noah Jouett
8. **Early Autonomic Dysfunction and Cerebral Hemodynamics After Severe Traumatic Brain Injury**
Vijay Krishnamoorthy
9. **Tranexamic Acid and Intraoperative Neuronal Excitability**
Kelvin Brace



Session 2: Medically Challenging Cases — *Salon IV*

- 1. When Normal Coagulation Is Not Reassuring: a Case Report of Intraoperative Hemorrhage in Noonan Syndrome**
Marta Ravasi
- 2. Discordance Between Electroencephalography and Near-Infrared Spectroscopy During Carotid Endarterectomy for Acute Ischemic Stroke: A Case Report**
Marta Ravasi
- 3. ST-Segment Drama in the OR: When the Brain has a plan and the Heart Files a Complaint**
David Obadina
- 4. Awake, Agitated, and Salvaged: A Remimazolam Success Story**
Kalli Fautsch
- 5. Perioperative Complications with LITT procedure - Lessons to Learn**
Rubina Sharma
- 6. L2-L3 Corpectomy for MRSA-Associated Osteomyelitis: A Case Report**
Aishat Awe
- 7. Abrupt Hemodynamic Collapse After Prone-to-Supine Repositioning: A Case Report of Suspected Venous Air Embolism**
Akira Mukai
- 8. Staged Spine and Retroperitoneal Tumor Resection in a Patient With Neurofibromatosis-Associated Malignant Peripheral Nerve Sheath Tumor**
Zuhaila Hired
- 9. A Rare Case of Contralateral Epidural Hematoma Following Awake Craniotomy with Scalp Block**
Vikas Chauhan
- 10. Anesthetic Management of Emergency ECoG-Guided Resection of Focal Cortical dysplasia in Pediatric Refractory Status Epilepticus**
Sandhya Rani Shettihally Vishwantha Reddi



Session 3: Q/A, Patient Safety, Education — *Dogwood-Sycamore*

- 1. The Pebble Method: A Visual Model for Teaching EEG Spectrogram Interpretation**
Vikas Chauhan
- 2. A Rare but Surgically Correctable Cardiac Emergency: Echocardiographic Capture of Thrombus-in-Transit Through a Patent Foramen Ovale Underlying Cerebellar Infarction and Massive Pulmonary Embolism**
Sara Muhammad
- 3. Postoperative Fever following Chronic Subdural Haematoma Evacuation: Risk Factors and Clinical Outcomes in a Retrospective Cohort**
Apoorva Singh
- 4. Perioperative Management of Patients with Recent Concussion: A Delphi Consensus Study**
Mouad Elganga
- 5. Unexpected Hemodynamic Collapse During Awake Spine Surgery Under Spinal Anesthesia in the Prone Position**
Kiran Merchant
- 6. Propofol Versus Ketamine for Sedation in Mechanically Ventilated Patients with Intracranial Injury: A Propensity-Matched Multi-center Study of Mortality Outcomes**
Zahra Shakarchi
- 7. Simulation-Based Training for Neuroanesthesia Crises Using Structured Debriefing: A Single-Center Educational Intervention**
Marielle Sakr
- 8. MIND-Spine QI: Mini-Cog Screening to Improve Neurocognitive Outcomes and Reduce Delirium in Older Adults Undergoing Spine Fusion: A Quality Improvement Initiative**
Marta Ravasi
- 9. Prevalence and Patterns of Secondary Brain Insult Reporting During Anesthetic Care for Traumatic Brain Injury: A Systematic Review**
Courtney Gomez



Session 4: Clinical Science — *Salons F-H*

- 1. A high preoperative neutrophil-to-lymphocyte ratio is associated with unfavorable clinical outcomes in patients undergoing combined revascularization surgery for moyamoya disease**
Hyongmin Oh
- 2. Cardiac Autonomic Dysfunction and Intracranial Pressure Instability Predict Mortality in Subarachnoid Hemorrhage: A Multimodal Waveform Study.**
Ibukun Folorunso
- 3. Intraoperative Hypotension Incidence, Risk Factors and Mortality in Adult Patients Undergoing Emergency Craniotomy for Traumatic Brain Injury**
Shuhong Guo
- 4. Propofol Versus Sevoflurane During Mechanical Thrombectomy for Acute Ischemic Stroke: Preliminary Results of a Prospective Randomized Study**
Grace Oeding
- 5. EFFECT OF ANESTHETIC TECHNIQUE ON BRAIN CANCER PROGRESSION (ABC): A RANDOMIZED FEASIBILITY STUDY**
Vitaliy Voznyy
- 6. Understanding Local and National Level Race and Ethnicity Data Representation in Traumatic Brain Injury: A Gap Analysis in Research Methods**
Marie Angele Theard
- 7. Intraoperative Blood Pressure Variability and Failure to Extubate After Intracranial Surgery: A Registry Study**
Samah Yousif
- 8. Hemodynamic effects of 3% hypertonic saline versus 20% mannitol in supratentorial tumor craniotomy: a randomized controlled trial**
Hyongmin Oh
- 9. A Reproducible, Configuration-Driven Framework for Multimodal Physiologic Waveform Processing and Variability Analysis.**
Ibukun Folorunso



Virtual Session 1: Patient Safety and Clinical Sciences — Zoom

- 1. Distinct Roles of Metabolic-Inflammatory Axes in Stroke Onset versus Poststroke Cognitive Trajectories: A Harmonized Analysis of the CHARLS, ELSA, and HRS Cohorts**
Xinyan Wang
- 2. A Perfect Storm: Delayed Recognition of Subclavian Arterial Cannulation Resulting in Embolic Stroke**
Harrison Shrock
- 3. The RESPOND Mnemonic: A Structured, Multidisciplinary Response to Post-Cranioplasty Complications**
Ian Yu-Young Kwan
- 4. "Emergency Mechanical Thrombectomy for Acute Ischaemic stroke (AIS) in a Patient with Hereditary Angioedema (HAE): Perioperative Challenges in a Time-Critical Setting"**
Nupur Gupta
- 5. Cumulative Intraoperative Hypothermia Burden Outperforms Temperature Nadir in Predicting Prolonged ICU Stay After Non-Cardiac Surgery**
Fayiz Faruk
- 6. Peri operative management and outcomes of Neurosurgical patients with Learning Disability (LD): An observational study at a single tertiary neurosciences centre.**
Meghraj Srinivasaiah
- 7. A unique case of hemodynamic instability during meningioma resection**
Debashis Das
- 8. Coming Around to Dexmedetomidine: Dexmedetomidine utilisation in craniotomies**
William Zhou
- 9. Perioperative Challenges in Neuroanaesthesia. Patients with Adult Congenital Heart Disease: A Case Report**
Yeng Yap