**Wednesday, October 16**  
**Breakout Session #1: 10:15 am – 11:45 am**

| Clinical Trials | **Speakers & Talk Titles:**  
| --- | ---  
| **ROOM 109-110** | • Haleema Shakur: “Tranexamic Acid for the Treatment of Significant Traumatic Brain Injury: An International Randomised, Double Blind Placebo Controlled Trial: CRASH 3”  
• Jaideep Kapur: “Established Status Epilepticus Treatment Trial: ESETT”  
• Gisele Silva: “Endovascular Treatment With Stent-retrieve and/or Thromboaspiration vs. Best Medical Therapy in Acute Ischemic Stroke: RESILIENT”  
• Paul Vespa: “Does Use of Rapid Response EEG Impact Clinical Decision Making (DECIDE)? Multicenter Clinical Trial of Cerebell Rapid Response EEG System”  
• Shane English: “Aneurysmal Subarachnoid Hemorrhage - Red Blood Cell Transfusion and Outcome (SAHaRA): A Randomized Controlled Trial”  
• Alexis Turgeon: “HEMOglobin Transfusion Threshold in Traumatic Brain Injury Optimization: The HEMOTION Trial”  

| PBI CARE: Penetrating Brain Injury - Civilian and Armed Forces Experiences | **Speakers & Talk Titles:**  
| --- | ---  
| **ROOM 118-120** | • Fernando Goldenberg: “Penetrating TBI: Bullet to the Brain”  
• Roderick Fontenette: “PBI in the Field: Managing the Injured Brain in Battle”  
• Deborah Stein: “Prognosis in Penetrating TBI: Is There Such Thing as a Magic Bullet”  
• Emily Durr: “Pharmacological Management of PBI: The Essentials”  
• Paramita Das: “Managing the Shattered Skull: Complex Neurosurgical Problems in PBI”  

| International Practices: Breaking Barriers | **Speakers & Talk Titles:**  
| --- | ---  
| **ROOM 121-122** | • Jose Suarez: “Distance Barriers: Telemedicine in Rural Settings (Spanish)”  
• Hiro Otake: “Distance Barriers: Telemedicine in Urban Settings (Japanese)”  
• Riki Trivedi: “Distance Barriers: Multinational Epidemiological Research in Neurotrauma: The GNOS Study (UK)”  
• Robert Stevens: “Data Science and Precision Medicine in Neurointensive Care (French)”  
• Danilo Fischer: “Evidence Gaps: Blood Transfusions in Neurocritical Care (Spanish)”  

| Moderator: Sarah Nelson, MD | Moderator: Christopher Kramer, MD & Victoria McCredie, MBChB, PhD  
| Moderator: Yasser Abulhasan, MBChB, FRCPC & Jeanne Teitelbaum, MD |  

| Moderator: Sarah Nelson, MD |  
| Moderator: Christopher Kramer, MD & Victoria McCredie, MBChB, PhD  
| Moderator: Yasser Abulhasan, MBChB, FRCPC & Jeanne Teitelbaum, MD |
### Breakout Session #2: 1:00 pm – 2:00 pm

**Crossroads Between Oncology and Neurocritical Care: CAR T-Cell Therapy. Pharmacology, Neurotoxicity, and Developing a Care Pathway in your NICU Therapeutics**

**ROOM 109-110**  
**Moderator:** Holly Hinson, MD, MCR

**Speakers & Talk Titles:**  
- Theresa Human: “Recognition and Management of Neurotoxicities Related to CAR-T Therapy”  
- Henri Vaitkevicius: “Neurology after CAR-T Treatment”  
- Kara Sutton: “Targeted Neurological Assessment and Escalation of Care Protocols for CAR-T Patients”

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**The Effect of Digitalization of Medicine on Provider professionalism and Patient Safety**

**ROOM 118-120**  
**Moderator:** Panayiotis Varelas, MD, PhD, FNCS, FAAN, MD, PhD, FNCS, FAAN

**Speakers & Talk Titles:**  
- Peter Papadakos: “Distracted Doctoring: How Electronic Devices Have Impacted on the Practice of Medicine”  
- Roy Constantine: “How to Educate Staff and Develop Guidelines to Decrease the Risks of Digitalization in Medicine”

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**SNACC-NCS Joint Panel:**  
Measuring Quality & Safe Transition of Care for Neurological Patients: Exploring Opportunities for Collaborative Efforts

**ROOM 121-122**  
**Moderator:** Kathryn Rosenblatt, MD

**Speakers & Talk Titles:**  
- Deepak Sharma: “Perioperative Neuroscience Quality Measures: The Neuroanesthesia Perspective”  
- Sarah Livesay: “Perioperative Neuroscience Quality Measures: The Neurocritical Care Perspective”  
- Ines Koerner: “Avoiding Harm & Maintaining Quality During OR to ICU Transition of Care”

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### Breakout Session #3 + Platform Presentations: 2:15 pm – 3:15 pm

**High Speed Critical Care in the NeuroICU: Pushing the Envelope**

**ROOM 109-110**  
**Moderator:** Roderick Fontenette, MD

**Speakers & Talk Titles:**  
- Donald Griesdale: “ECMO After Neurologic Injury: Has its Time Come?”  
- Alberto Goffi: “Neurologic Sequelae of Drug Abuse: Endocarditis, Strokes and Preparing for the Cardiac OR”  
- Kathleen Chester: “Pain Management in the Opioid-addicted Neurocritical Care Patient”  
- Joseph Shiber: “Cardiac Dysfunction in Neurologically Injured Patients”  
- Karen Hirsch: “Kidney Injury, Renal Failure and RRT in NCC Patients”

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**Platform Presentations**

**ROOM 118-120**  
**Moderator:** Victoria McCredie, MBChB, PhD & Guido Falcone, MD, ScD, MPH

**Speakers & Talk Titles:**  
- Wei-Ting Chiu: “Management Of Refractory Status Epilepticus: an international COhort study (MORSE CODe) – outcomes”  
- Henri Vaitkevicius: “Phase 2 Open-label Study of Intravenous Ganaxolone for the Treatment of Refractory Status Epilepticus”  
- Asher Albertson: “Stroke in Aged Mice Causes Greater Cortical Network Disruption and is Associated with Prolonged Disability”  
**International Practices: Bridging the Gaps**

**ROOM 121-122**

**Moderator:** Gisele Silva, MD, MPH, PhD & Jeff Singh

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<thead>
<tr>
<th>Speakers &amp; Talk Titles:</th>
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<tbody>
<tr>
<td>Yasser B. Abulhasan: “Brain Death: Intersections of Science, Law and Culture (Kuwait)”</td>
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<td>Francis Bernard: “Sedation/Analgesia in End of Life (Canada- French)”</td>
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<td>Halinder Mangat: “Developing a Neurotrauma Program in Tanzania (UK)”</td>
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<tr>
<td>Shirish M. Hastak: “Acute Stroke Treatment in India (India)”</td>
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<td>Jose Suarez: “Developing Neurocritical Care in Ecuador (Ecuador)”</td>
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**Thursday, October 17**

**Breakout Session #4: 9:00 am – 10:30 am**

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<th>Current Topics in Acute Ischemic Stroke: Groin, Blood Pressure, and Drugs</th>
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<td><strong>ROOM 109-110</strong></td>
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<td><strong>Moderator:</strong> Stefan Schwab, MD, PhD, DSc (hon)</td>
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**Speakers & Talk Titles:**
- Anne W. Alexandrov: “The Immediate Post-thrombectomy Nursing Care with Reflection on Groin Complications, Vascular Complications, and Type of Sedation Used During the Procedure”
- Lucas Elijovich: “Goal of Blood Pressure After Thrombectomy in Stroke Patients, Moving Away from Standard Guidelines to an Individualized Therapy”
- Diana Greene-Chandos: “The Rise in Endocarditis and Opiate Epidemic- Special Considerations for Stroke Care”
- Leslie Hamilton: “Neurovascular Complications of Street Drugs”

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<tr>
<th>The Promise and Perils of Artificial Intelligence for Neurocritical Care</th>
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<td><strong>ROOM 118-120</strong></td>
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<tr>
<td><strong>Moderator:</strong> Eric Rosenthal, MD</td>
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**Speakers & Talk Titles:**
- Story Kummer: “Training Artificial Intelligence to Read CT Scans: Even My Child Can Do It!”
- Geert Meyfroidt: “What is Machine Learning and How Can We Apply Artificial Intelligence to Neurocritical Care Research?”
- Ari Ercole: “What is Deep Learning and How do We Use Neural Networks to Dissect Physiology and Outcomes After Brain Injury?”
- Jan Claassen: “Data-driven Approaches to Understanding Consciousness and Detecting Awareness in Clinically Comatose Patients”
- Eric Rosenthal: “A Collaborative Platform to Integrate and Analyze Multiple Data Streams for Intelligent Quantification and Prediction”
### Pediatric Multi-modal Non-invasive Neuromonitoring: Applications in Cardiac Arrest and Traumatic Brain Injury

**ROOM 121-122**  
**Moderator:** Robert Tasker, MD, FRCP

**Speakers & Talk Titles:**  
- Guillaume Emeriaud: “Making this Real: Creating Real-time Decision Support for Neurocritical Care”  
- Jennifer Lee: “Cerebral Autoregulation Monitoring in Neonatal Hypoxic-Ischemic Encephalopathy”  
- Alexis Topjian: “Blood Pressure Management After Cardiac Arrest”  

### Breakout Session #5: 1:00 pm – 2:30 pm

**Subarachnoid Hemorrhage – 2020 Beholds!**  
**ROOM 109-110**  
**Moderator:** Susanne Muehlschlegel, MD, MPH, FCCM, FNCS & Jeanne Teitelbaum, MD

**Speakers & Talk Titles:**  
- Jeffrey Mucksavage: “Fellowship of the Ring: Pharmacotherapy Challenges”  
- Elizabeth Zink: “Fellowship of the Ring: Evolving Challenges in Nursing Care”  
- Jeanne Teitelbaum: “Challenge in Managing the Blood Compartment”  
- Kiwon Lee: “Clinical Challenge in Managing CSF”  
- Susanne Muehlschlegel: “Research in SAH – Multidisciplinary Panel”  
- Anne W. Alexandrov: “Research in SAH – Multidisciplinary Panel”  
- Sherry Chou: “Research in SAH – Multidisciplinary Panel”  
- Loch Macdonald: “Research in SAH – Multidisciplinary Panel”

**Perfusion and Inflammation: Controversies and Therapeutic Approaches in Young Adult Stroke**  
**ROOM 118-120**  
**Moderator:** Kate Lefond, MD

**Speakers & Talk Titles:**  
- Ryan Felling: “Pediatric Cardiac ICU: Every Patient is at Risk for Stroke or Intracranial Hemorrhage”  
- Kristin Guilliams: “Preventing and Managing Neurologic Complications of Sickle Cell Disease in the ICU”  
- Kate Lefond: “Going Beyond the Guidelines: When to Give tPA and When to Consider Thrombectomy in Children”

**We're Going to Need a Bigger Boat: Crossing the Blue Ocean to Cure Coma - Future Directions for Neurocritical Care Research**  
**ROOM 121-122**  
**Moderator:** Paul Vespa, MD, FNCS

**Speakers & Talk Titles:**  
- DaiWai Olson: “Curing Coma: Addressing a Big Challenge in Neurocritical Care”  
- Javier Provencio: “We are Going to Need More Sailors: Developing the Next Generation of Clinician-scientists”

### Breakout Session #6: 2:45 pm – 4:15 pm

**The Plural of Anecdote is Not Data: Treatment Challenges in ICH and the Way Forward**  
**ROOM 109-110**  
**Moderator:** Stefan Schwab, MD, PhD, DSc (hon) & Claude Hemphill, MD, MAS

**Speakers & Talk Titles:**  
- Alessandro Biffi: “Resumption of Anti-coagulation After ICH – Balancing Thromboembolic and Hemorrhagic Complications”  
- Santosh Murthy: “Minimally Invasive Surgery for ICH – Which Operation, When and on Whom?”  
- Wendy Ziai: “MISTIE III – Do we Need More Trials of MIS vs. Conservative Treatment?”  
- Bastian Volbers: “Perihemorrhagic Edema Management: Current Concepts and Developments”  
- Hagen Huttner: “Hematoma Evacuation Surgery in Infratentorial ICH – “3cm-doctrine” Revisited”
### Practical Clinical Application of MMM for Faster and Focused Care

**ROOM 118-120**

**Moderator:** Mypinder Sekhon, MD

**Speakers & Talk Titles:**
- Aarti Sarwal: “Early Use of Brain Ultrasound to Manage CBF Before Invasive Monitoring is Inserted”
- Halinder Mangat: “CPP Opt – Critical Appraisal, Paradigm Shift or Paradigm Drift?”
- Caroline Arbour: “Pupillometry – Beyond Prognostication, Optimizing Pain Management”
- Brian Appavu: “MMM Consultant – The Need for Integrated Interpretation”

### Brain Death: Controversies and Updates

**ROOM 121-122**

**Moderator:** Panayiotis Varelas, MD, PhD, FNCS, FAAN

**Speakers & Talk Titles:**
- Ariane Lewis: “Declaration Post-TTM/HACA (32-34C) – How Long do we Wait?”
- Andrew Baker: “Worldwide Perspectives on Brain Death – Brain Stem Only Declaration vs. Whole Brain Death”
- Michael Rubin: “Pitfalls in Brain Death Ancillary Testing”
- Shaun Keegan: “Declaration in the Setting of the Global Opioid Epidemic – Does it Change the Rubric?”

### Breakout Session #7: 4:30 pm – 5:30 pm

#### Debates Session: Controversial Topics in Neurocritical Care

**ROOM 109-110**

**Moderator:** Sanjeev Sivakumar, MD

**Speakers & Talk Titles:**
- Monisha Kumar: “Pro 1”
- John Lewin: “Con 1”
- Jessica McFarlin: “Pro 2”
- Ryan Hakimi: “Con 2”
- Michael Wagner: “Pro 3”
- Salia Farrokh: “Con 3”

### Delirium Identification and Treatment: The Canary in the Neurocritical Care Unit

**ROOM 118-120**

**Moderator:** Leslie Hamilton, PharmD, FCCP, FCCM, BCPS, BCCCP & Aaron Cook, PharmD, FNCS

**Speakers & Talk Titles:**
- DaiWai Olson: “Pitfalls of Diagnosing Delirium”
- Megan Brissie: “Non-pharmacologic Treatment of Delirium”
- Casey May: “Pharmacotherapy for Delirious Neuro ICU Patients”

### Optimizing Outcomes: Improved Care Transitions and Early Rehabilitation

**ROOM 121-122**

**Moderator:** Dea Mahanes, DNP, RN, CCNS, FNCS & Elizabeth Fox, MSN, ACNS, AGACNP, CCRN, FAHA

**Speakers & Talk Titles:**
- Dea Mahanes: “Overview and Introduction”
- Jeanette Hester: “Transforming Mobility Culture to Best Practice”
- Kathleen Chester: “They Can’t Go Out on That! Medication Management”
- Liz Fox: “Panel Discussion”

### Friday, October 18

#### Breakout Session #8: 9:15 am – 10:45 am

#### Guidelines Update

**ROOM 109-110**

**Moderator:** Herb Fried, MD, MA, FNCS

**Speakers & Talk Titles:**
- Katja Wartenberg: “NCS-DGNI Consensus Statement- Gap Analysis Statement”
- Susanne Muehlischlegel: “NCS-DGNI Consensus Statement- Work-to-date on the Guideline”
- Aaron Cook: “Cerebral Edema Guideline”
- Lori Shutter: “Cerebral Edema Guideline”
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<tr>
<th>Big Data in Neurocritical Care: What, Why, and How</th>
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<td>• Soojin Park: “Opening the Black Box: Big Data in Neurocritical Care”</td>
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<td><strong>Moderator:</strong> Ayham Alkhachroum, MD</td>
<td>• Ari Ercole: “Understanding Brains with Brains: Why Me? Why Now?”</td>
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<tr>
<td>Updates in the Management of Refractory Status Epilepticus</td>
<td>• Geert Meyfroidt: “Artificial Intelligence at the Bedside: Questions Big Data can Answer in Neurocritical Care”</td>
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<td>ROOM 121-122</td>
<td>• Eric Oermann: “Visions of the Future: Computer Vision in Neurocritical Care”</td>
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<tr>
<td><strong>Moderator:</strong> Henrikas Vaitkevicius, MD</td>
<td>• Guido Falcone: “Code from Code: AI and Omics Data”</td>
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**Breakout Session #9: 11:00 am – 12:00 pm**

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<th>Connecting with the Unconnected: Undocumented, Unbefriended, and Unlikely to Improve</th>
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<tr>
<td>ROOM 109-110</td>
<td>• Barak Bar: “Care of the Undocumented Patient”</td>
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<tr>
<td><strong>Moderator:</strong> Ariane Lewis, MD</td>
<td>• Deepa Malaiyandi: “Care of the Unbefriended Patient”</td>
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<tr>
<td>Measures Outcomes in Neurocritical Care: The Quest for the Holy Grail</td>
<td>• Michael Schneck: “Care of the Patient Who is Unlikely to Improve”</td>
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<td>ROOM 118-120</td>
<td><strong>Speakers &amp; Talk Titles:</strong></td>
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<tr>
<td><strong>Moderator:</strong> Pedro Kurtz, MD, PhD &amp; Susanne Muehlschlegel, MD, MPH, FCCM, FNCS</td>
<td>• Edilberto Amorim: “The Promise of Big Data For Measuring Outcomes and Performance in Health Care”</td>
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<td>• Alejandro Rabinstein: “Risk Adjustment In Neurocritical Care Outcomes: What are we Missing?”</td>
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<td>• Matt Kirschen: “Measuring Outcomes in Children: Little People and Great Responsibilities”</td>
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<td>Telemedicine and Billing in the NSICU</td>
<td><strong>Speakers &amp; Talk Titles:</strong></td>
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<td>ROOM 121-122</td>
<td>• Imo Aisiku: “Telemedicine Landscape in 2019”</td>
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<tr>
<td><strong>Moderator:</strong> George Lopez, MD, PhD, FNCS &amp; H. Alex Choi, MD</td>
<td>• Galen Henderson: “Historical Perspective of Telestroke and NSICU in Academic Practice,” and “Billing Practice Review”</td>
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<td>• Abhay Kumar: “Perspectives of Integrating Telemedicine into a NSICU Practice,” and “NSICU Taxonomy and Mid-level Utilization”</td>
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