### SNACC Mentoring Session, Research Symposium & TCD Workshops at a Glance - Thursday, October 10, 2013

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>10:00 am - 7:00 pm</strong></td>
<td>Registration .................................................................................................................. West Lounge</td>
</tr>
</tbody>
</table>
| **12:00 n - 5:00 pm** | Mentoring Session: Getting Started and Maintaining a Successful Academic Career  
Moderator: Jeffrey J. Pasternak, MD .................................................................. Union Square 19-20 |
| **4.0 AMA** | Lecture 1: Experience with a Formal Mentoring Program  
Michael M. Todd, MD |
| | Lecture 2: Getting Started and Staying Alive in Research  
Gregory J. Crosby, MD |
| | Lecture 3: Academic Appointments and Promotions: Philosophy & Application  
William L. Lanier, MD |
| | Lecture 4: Work-life Balance and the Enjoyment of Academic Medicine  
Kathryn K. Lauer, MD |
| **12:00 n - 1:00 pm** | Lunch (Mentoring Session Participants Only) ............................................. Union Square 19-20 |
| **2:00 pm - 5:00 pm** | SNACC Research Symposium: CNS Inflammation: Friend or Foe?  
Moderator: William M. Armstead, PhD ................................................................. Franciscan D |
| **3.0 AMA** | Physiology and Pathophysiology of Brain Inflammation  
Edward R. Sherwood, MD, PhD |
| | Role of Inflammation in POCD and Alzheimer’s Disease  
Roderic G. Eckenhoff, MD |
| | Role of Inflammation in the Development of Chronic Pain Syndromes  
Temugin Berta, PhD |
| | Role of Inflammation in Stroke  
Midori Yenari, MD |
| | What’s New in Neuroinflammation from Our Research Group? |
| **12:00 pm - 2:00 pm** | Transcranial Doppler (TCD) Ultrasonography Beginner Workshop  ..................... Franciscan AB |
| **2.0 AMA** | Short lectures including hands-on experience and TCD simulator  
Organized by Deepak Sharma, MBBS, MD, DM |
| | Cerebrovascular Anatomy and Principles of TCD  
W. Andrew Kofke, MD, MBA, FCCM |
| | Performing the Basic TCD Examination  
Deepak Sharma, MBBS, MD, DM |
| | Applications of TCD  
Arthur Lam, MD, FRCPC |
### 1:00 pm - 5:00 pm
**Transcranial Doppler (TCD) Ultrasonography Advanced Workshop**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:00 pm</td>
<td>Interpretation of TCD Waveforms and Results</td>
</tr>
<tr>
<td></td>
<td>Arthur Lam MD, FRCPc</td>
</tr>
<tr>
<td></td>
<td><strong>TCD for Emboli Monitoring</strong></td>
</tr>
<tr>
<td></td>
<td>W. Andrew Kofke MD, MBA, FCCM</td>
</tr>
<tr>
<td></td>
<td><strong>TCD for Carotid Endarterectomy</strong></td>
</tr>
<tr>
<td></td>
<td>Deepak Sharma MBBS, MD, DM</td>
</tr>
<tr>
<td></td>
<td><strong>Cerebrovascular Reactivity Testing: Autoregulation &amp; CO2R</strong></td>
</tr>
<tr>
<td></td>
<td>Arthur Lam MD, FRCPc</td>
</tr>
<tr>
<td></td>
<td><strong>TCD for Cerebral Vasospasm</strong></td>
</tr>
<tr>
<td></td>
<td>Ryan Pong, MD</td>
</tr>
<tr>
<td></td>
<td><strong>TCD for Cerebral Circulatory Arrest</strong></td>
</tr>
<tr>
<td></td>
<td>Abhijit V. Lele, MD</td>
</tr>
</tbody>
</table>

**Dinner Symposium**  
(No CME)  
Grand Ballroom B

### Dinner symposium is supported by a generous grant from Masimo

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>5:00 pm - 6:00 pm</td>
<td>Reception</td>
</tr>
<tr>
<td>6:00 pm - 6:10 pm</td>
<td>Welcome Address</td>
</tr>
<tr>
<td></td>
<td>Martin Smith, MBBS, FRCA, FFICM</td>
</tr>
<tr>
<td>6:10 pm - 7:00 pm</td>
<td><strong>Blood Products and Fluids in Neurosurgery</strong></td>
</tr>
<tr>
<td></td>
<td>Moderator: W. Andrew Kofke, MD, MBA, FCCM</td>
</tr>
<tr>
<td></td>
<td><strong>Issues in RBC Transfusion in Neurosurgery Patients</strong></td>
</tr>
<tr>
<td></td>
<td>Keith J. Ruskin, MD</td>
</tr>
<tr>
<td></td>
<td><strong>Managing Anticoagulated Patients in Neurosurgery</strong></td>
</tr>
<tr>
<td></td>
<td>Jerrold Levy, MD, FAHA, FCCM</td>
</tr>
<tr>
<td>7:00 pm - 8:00 pm</td>
<td>Dinner</td>
</tr>
<tr>
<td>8:00 pm - 8:45 pm</td>
<td>Use of Colloids and Crystalloids in Neurosurgery</td>
</tr>
<tr>
<td></td>
<td>Jose I. Suarez, MD</td>
</tr>
</tbody>
</table>

### Friday - October 11, 2013

**Scientific Program**

### 6:30 am
**Registration** ..........................................................West Lounge

### 7:00 am - 7:50 am
**Continental Breakfast with Exhibits** ..........................................................Yosemite Ballroom

### 7:50 am - 8:00 am
**Welcome Address** ..........................................................................................Imperial Ballroom

### 8:00 am - 8:45 am
**Keynote Lecture**  
Moderator: Adrian W. Gelb, MBBS, FRCPC

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:45 am - 9:45 am</td>
<td><strong>Lessons from Direct Cortical Recording - Can We Hear What You Think?</strong></td>
</tr>
<tr>
<td></td>
<td>Robert T. Knight, MD</td>
</tr>
</tbody>
</table>

### 8:45 am - 9:45 am
**Mini Symposium One**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
</table>
| 1.75 AMA earned for attending from 8:00 am - 9:45 am | Psychoneuroanesthesia Really?  
Moderator: David S. Warner, MD |
| 9:45 am -10:15 am | **General Anesthetics: Do They Trigger or Treat Psychiatric Diseases?** |
|                | Laszlo Vutskits, MD, PhD                                                |
| 10:15 am - 11:30 am | **Deep Brain Stimulation and Depression**                             |
|                | Philip A. Starr MD, PhD                                                 |

### 1.25 AMA

### 9:45 am -10:15 am
**Coffee Break with Exhibits** ..........................................................Yosemite Ballroom

### 10:15 am - 11:30 am
**Poster Session One** ..........................................................Yosemite Ballroom

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:30 am - 12:00 pm</td>
<td><strong>Poster Session Two</strong></td>
</tr>
<tr>
<td></td>
<td>Moderator: Jeffrey J. Pasternak, MD</td>
</tr>
</tbody>
</table>
Session 1: Basic Neuroscience
Moderators: Michael Todd, MD; Jie Zhou, MD

1. Stat3 Inhibition Attenuates Mechanical Allodynia Through Transcriptional Regulation of Chemokine Expression in Spinal Astrocytes
2. Impairment of Neurovascular Coupling in Type 1 Diabetes Mellitus in Rats is Prevented by Pancreatic Islet Transplantation and Reversed by a Semi-selective PKC Inhibitor.
4. The Influence of Depression of the Social Behavior of Rats: The Effect of Antidepressant Treatment
5. Establishment of an Animal Model for Shared Psychiatric Disorder
6. Carbonic Anhydrase 8 (CA8) is a New Inhibitor of Chronic Pain
7. Lidocaine Alleviates Remifentanil-induced Hyperalgesia by Inhibiting CaMKII Phosphorylation of Primary Somatosensory Cortical Rat Neurons

Session 2: Monitoring 1
Moderators: Rafi Avitsian, MD; Matthias Kreuzer, MD

8. Withdrawn
9. Does the Use of AnestAssist Improve Time to Emergence During TIVA During Cases with Neuromonitoring?
10. Comparison of Intraoperative Cerebral Oxygen Saturation and Postoperative Neurological Complications in Pediatric Cardiac Surgery with Selective Cerebral Perfusion
11. Monitoring Upper and Lower Limb Motor Evoked Potentials is No Better Than Upper Limb Alone to Predict Outcome During Cerebral Aneurysm Surgery
13. Seizure Focus Identification by fMRI During SEEG Stimulation
14. Effects of Dexmedetomidine and Remifentanil on Microelectrode Recordings of the Subthalamic Nucleus During Deep Brain Stimulation Electrode Placement

Session 3: Clinical Neuroscience 1
Moderators: Dhanesh Gupta, MD; Robert Peterfreund, MD, PhD

15. Indicators of Central Fever in the Neuroscience Intensive Care Unit
17. Preoperative Lab Testing in Neurosurgical Patients
18. Anesthetic Management of a Symptomatic Sphenoid Wing Meningioma Resection after Cesarean Delivery of a 27 Weeks Fetus
20. Evaluation of Risk Factors for Paraplegia after Endovascular Aortic Repair for Descending Thoracic and Thoracoabdominal Aortic Aneurism
21. A Pilot Study to Evaluate the Changes of Motor Evoked Potentials During Aortic Cross Clamping in Thoracoabdominal Aortic Aneurysm Surgery

Session 4: Cerebral Ischemia 1
Moderators: John Bebawy, MD; Deepak Sharma, MBBS, MD

22. The Influence of Aging on Post-stroke Depression using a Rat Model Via Middle Cerebral Artery Occlusion
23. Cerebrospinal Fluid Concentrations of Glial Fibrillary Acidic Protein (GFAP) and Neurofilament light (NFL) Correlate to One-year Outcome After a Severe Traumatic Brain Injury
24. Morphologic Changes in Adult-born Hippocampal Granule Cells Following Controlled Cortical Impact Injury in POMC-EGFP Mice
25. Secondary Insults During Extracranial Surgery in Pediatric Traumatic Brain Injury
26. Sex and Age Differences in Immune Cell Infiltration into the Brain Following Cardiac Arrest and Cardiopulmonary Resuscitation
27. Mechanical Thrombectomy in Acute Ischaemic stroke

Session 5: Neuroprotection
Moderators: James Cottrell, MD; Zhiyo Zuo, MD, PhD

28. The Elevation of Blood Glutamate Concentration During the Course of Blood Bank Storage
29. The Effects of Peritoneal Dialysis on Blood Glutamate Levels - Implementation for Neuroprotection
30. The Effect of Plasminogen Activator Inhibitor (PAI)-2 on Cerebral Inflammation and Brain Water Content After Traumatic Brain Injury in Mice
31. Propofol Ameliorates Calpain-induced Collapsin Response Mediator Protein-2 (CRMP2) Proteolysis and Affords Neuroprotection Following Traumatic Brain Injury in Rats
32. Treatment of Combined Traumatic Brain Injury and Hemorrhagic Shock with Fractionated Blood Products vs. Fresh Whole Blood
33. Effect of Intraoperative Brain Protection with Propofol on Postoperative Cognition in Patients Undergoing Temporary Clipping During Intracranial Aneurysm Surgery
Session 6: Clinical Neuroscience 2
Moderators: Joel Johnson, MD, PhD; Antoun Koht, MD
34. Assessing Patient Satisfaction in a Tertiary Neurosurgical Centre using the Leiden Perioperative Patient Satisfaction Questionnaire
35. VAE Associated with Neurosurgery in the Semi-sitting Position Does Not Affect Outcome. Retrospective Analysis of 793 Cases.
36. Coagulation Abnormalities Following Aneurysmal Subarachnoid Hemorrhage During Perioperative Period as Detected by ROTEM Thromboelastography (TEG)
37. Management of Coagulopathy with Recombinant Factor VIIa in a Cirrhotic Patient Undergoing Instrumented Spine Surgery
38. Anaesthetic Management, Perioperative and Postoperative Outcome of Patients Undergoing Surgery for Moyamoya Disease - Our Institutional Experience
39. A Retrospective Review on Current Practices on Hemodynamic Management of Patients Undergoing Angioplasty for Cerebral Vasospasm in Our Center
40. Peri-operative Lumbar Drains - Complications of Insertion

Session 7: Physiology 1
Moderators: William Armstead, PhD; Laurel Moore, MD
41. tPA-S481A Prevents Impairment of Cerebrovascular Autoregulation by Endogenous tPA After Traumatic Brain Injury By Upregulating p38 MAPK and Inhibiting ET-1
42. Hemodynamic Perturbations in Deep Brain Stimulation Surgery: First Detailed Description
43. Changes in Regional Cerebral Oxygen Saturation and Cardiac Output During Sitting Position in Neurosurgical Patients
44. Effect of Clevidipine on Cerebral Blood Flow
45. Flow Arrest Intraarterial Delivery of Anti-Transferrin Receptor Antibody
46. Feasibility of Intraarterial Drug Delivery to Brain Tissue Using Cell Penetrating Peptides
47. Optical Pharmacokinetic Tomography: Linear, Planar, and Spatial Mapping of Tracer Tagged Intraarterial Nanoparticle Delivery

Session 8: Clinical Neuroscience 3
Moderators: Kirstin Erickson, MD; Alana Flexman, MD
48. Enzyme-inducing Anticonvulsants Increase Clearance of Dexmedetomidine: A Pharmacokinetic and Pharmacodynamic Study
49. Intubation after Cervical Spine Surgery: A Retrospective Review
50. Single Level Lumbar Microdiscectomy for Day-Case Surgery
51. Acute Hyperkalemia and Hyponatremia Following Intraoperative Mannitol Administration
52. Blood Pressure Measurement in Neurocritical Care Unit
53. Use of Serum Prolactin as a Marker for Perioperative Seizure
54. Scalp Nerve Blocks for Post-Operative Supra-Tentorial Craniotomy Analgesia

Session 9: Neurotoxicity 1
Moderators: Ines Koener, MD, PhD; David Warner, MD
55. Reduced Middle Cerebral Artery Velocity During Cross-Clamp Predicts Cognitive Dysfunction after Carotid Endarterectomy
56. Neutrophil-Lymphocyte Ratio as a Predictor of Cognitive Dysfunction in Carotid Endarterectomy Patients
57. Sexually Dimorphic Impairment of Brain Mitochondrial Respiration Following Neonatal Rat Hypoxic-Ischemia
58. Isoflurane Differentially Affects Associative Memory and Social Recognition in Males
59. Pressure Management During Carotid Endarterectomy & Early Cognitive Dysfunction
60. Influence of Oxygen Tension on Inflammatory Microglia-induced Mitochondrial Respiratory Inhibition

11:30 am - 1:00 pm

Business Lunch and Award Presentations ........................................... Continental Ballroom 5

Resident Research Award Presentations
Moderator: Jeffrey J. Pasternak, MD
Presenter: Chanannait Paisansathan, MD

SNACC Award For Best Abstract in Neuroscience and Perioperative Medicine at the International Anesthesia Research Society Meeting (IARS) in San Diego, May 2013
Introduction: Jeffrey J. Pasternak, MD
Recipient: Arthur Leitzke, MD, Loma Linda University
Title of Abstract: Isoflurane Pretreatment Ameliorated Germinal Matrix Hemorrhage-Induced Brain Injury by Activating the Sphingosine Kinase / AKT Pathway in Neonatal Rats

John D. Michenfelder 2013 New Investigator Award Oral Presentation
Moderator: Jeffrey J. Pasternak, MD
Presenter: Michael L. “Luke” James, MD
1:00 pm - 2:30 pm

Mini Symposium Two

**Neuroanesthesia: Myths and Fads**
Moderator: Gregory J. Crosby, MD

**Evoked Potential Monitoring - The Good, The Bad, and The Ugly**
Arthur Lam, MD

**Do Neurosurgeons Need a Neuroanesthesiologist?**
Ramsis F. Ghaly, MD

**Every Neuroanesthesiologist Should Participate in NeuroSim**
Elizabeth H. Sinz, MD

**Neuroanesthesia and Dead Horses - Round Two?**
Michael M. Todd, MD

1.5 AMA earned for attending from 1:00 pm - 2:30 pm

2:30 pm - 3:00 pm

**Coffee Break with Exhibits**

3:00 pm - 4:15 pm

**Poster Session Two**

Moderator: Jeffrey J. Pasternak, MD

**Session 10: Monitoring 2**

Moderators: Christoph Seubert, MD, PhD; Kenji Yoshitani, MD

61. **Jugular Venous Oximetry During Resection of an Intracranial Arteriovenous Malformation: A Case Report**
62. **Bilateral Bispectral Index Monitoring in Comparison Between Electroconvulsive and Magnetic Seizure Therapy**
63. **Propofol Induced Changes of Local Auditory Processing**
64. **Changes in Resting State Functional Connectivity Under Anesthesia: Prospective Observational Study**
65. **Hypnotic Concentrations of Isoflurane Increase the Time Lag of the Analytic Amplitude's Cross Correlation Between Local Field Potentials Recorded in Hippocampus and Basolateral Amygdala in Mice**
66. **Symbolic Transfer Entropy and Embedding Dimension: A Simulation**
67. **Patterns of Cortical and Subcortical Activity and Connectivity During Propofol Induction**

**Session 11: Clinical Neuroscience 4**

Moderators: Verna Baughman, MD; Lauren Berkow, MD

68. **One Year of 24/7 Neuroanesthesia Coverage in a University Hospital: Caseload, Educational and Financial Impact**
69. **Trends in Severity of Injuries to the Visual Pathways and Medicolegal Payments Patient**
70. **Postpartum Cerebral Angiopathy as a Rare Cause of Headache in a Non-eclamptic Patient**
71. **The Pharmacokinetics and Dynamics of Propofol During Awake Craniotomy**
72. **Anesthetic Maintenance with Propofol Infusion is Less Expensive per Minute of Surgical Time than Sevoflurane or Desflurane: A Randomized Prospective Trial**
73. **Statewide Implementation of a Pre-Hospital Traumatic Brain Injury Quality Improvement Program**
74. **A New Scheme for Manual Infusion of Propofol, Allowing Individualization of Doses Required for Anesthesia Induction and Adequacy of the Initial Maintenance Rate**

**Session 12: Clinical Neuroscience 5**

Moderators: Michael Haile, MD; William Lanier, MD

75. **Cardiac Dysfunction following Brain Death after Severe Pediatric Traumatic Brain Injury: A Report of 32 Children**
76. **Guanfacine for Emergence Delirium in Children - A Case Report in Twins**
77. **General Anesthesia and Endotracheal Intubation for a Patient with Anomalous Carotid Arteries**
78. **Comparison of Flat Screen Simulation Versus Problem-based Discussion for Teaching in Neuroanesthesia During Residency**
79. **Intraoperative Hyperthermia in a Case of Sellar – Suprasellar SOL Surgery**
80. **The Indo-US Collaborative Head Injury and Adherence to Guidelines (CHIRAG) Project Project Feasibility, Clinical Characteristics, and Interim Results**
81. **Does the Frequency of Blood Pressure Measurement Affect the Ability to Detect a Difference in the Hemodynamic Response to Skull Pin Fixation?**

**Session 13: Neurotoxicity 2**

Moderators: Eric Heyer, MD, PhD; Lisa Wise-Faberowski, MD

82. **Prenatal Propofol Exposure Delays Postnatal Development in the Rats**
83. **Prenatal Exposure to Propofol Induces Synaptic Loss and Long-term Behavioral Deficits in the Rats**
84. **Recovery of Cognitive Function After Ambulatory Surgery Under TIVA and Inhalational Anesthesia: A Pilot Study**
85. **Sevoflurane Does Not Alter Long-term Potentiation When Present Before But Not During the High Frequency Stimulation**
86. **Effects of One Week of Isoflurane Anesthesia in Physiologically Supported Rats**
87. **Sevoflurane Anesthesia Results in Increased Protein Kinase Mζ Expression in the Adult Mouse Hippocampus: Implications for Post-operative Cognitive Dysfunction**

**Session 14: Clinical Neuroscience 6**

Moderators: Stacie Deiner, MD; Kathryn Lauer, MD

88. **Anesthetic Management and Postoperative Recovery After Supratentorial Craniotomy**
89. **Anaesthesia for Awake Craniotomy: A Retrospective Study of 54 Cases**
90. Comparing the Effects of Oral Clonidine Premedication with Intraoperative Dexmedetomidine Infusion on Anesthetic Requirement and Recovery from Anesthesia in Patients Undergoing Major Spine Surgery

91. Spinal Anesthesia is Effective for Surgical Treatment of Lumbar Spondylosis

92. Time of Admission Influences Intrahospital Delay and Mortality in Subarachnoid Hemorrhage

93. Neurogenic Stress Cardiomyopathy: Three Unique Cases of Acute Cardiomyopathy Associated with Subarachnoid Hemorrhage


Session 15: Physiology 2
Moderators: George Mashour, MD, PhD; Jeffrey Sall, MD, PhD

95. The Effectiveness of Transient Cerebral Hypoperfusion Assisted Intraarterial Delivery of Cationic Liposomes

96. Surface Charge Of Liposomes - Not Blood Brain Barrier Disruption - Determines Uptake Of After Intraarterial Delivery

97. The Effect of Positive Surface Charge Intensity on the IA-TCH Assisted Delivery of Cationic Liposomes

98. Cerebrovascular CO2 Reactivity Under Propofol Anesthesia

99. Abnormal Electrocardiographic Findings and Association with Abnormal Echocardiography in Patients with Isolated Traumatic Brain Injury

100. A Comparison of Equiosmolar Solutions of Mannitol and Hypertonic Saline for Brain Relaxation During Craniotomy (preliminary results).

101. Reasons for Elective Ventilation in Patients Undergoing Intracranial Tumor Surgery

Session 16: Cerebral Ischemia 2
Moderators: Eric Schnell, MD; Alexander Zlotnik, MD, PhD

102. Endovascular Treatment of Acute Ischemic Stroke (AIS): Experience from a Tertiary Care Centre in the United Kingdom Regarding its Anesthetic Management and Outcome

103. Contrasting Brain Injury and Behavioral Patterns in Two Subarachnoid Hemorrhage Models in the Rat. Hemorrhage Distribution Determines Brain Injury and Behavioral Patterns in Experimental Subarachnoid Hemorrhage.

104. Quantification of the Burden of Intraoperative Secondary Insults During Extracranial Surgery in Patients with Traumatic Brain Injury

105. General Anesthesia for Stroke (GAS)

106. Involvement of the PERK/UPR Pathway in Hypoxic Preconditioning of Hippocampal Neurons

107. Subarachnoid Hemorrhage in the “Stroke Belt” of the United States: the MUSC Experience

Session 17: Clinical Neuroscience 7
Moderators: Juan Cata, MD; Shaheen Shaikh, MD

108. Is Serum Lactate a Potential Biomarker for Malignant Primary Brain Tumors? Retrospective Chart Review

109. Restricting Intravenous Fluids Before Tumor Debulking Does Not Affect Brain Relaxation

110. The Evaluation of Postoperative Visual Dysfunction after Aortic Arch Surgery with Selective Cerebral Perfusion

111. Juvenile Nasopharyngeal Angiofibroma with Intracranial Extension – A Review of 29 Cases

112. Comparison of Intraoperative Brain Condition, Hemodynamics and Postoperative Recovery Between Desflurane and Sevoflurane in Patients Undergoing Supratentorial Craniotomy

113. Integrated Care Developing a Pathway for the Management of Chronic Subdural Haematomas

114. Peripherally Inserted Central Catheter Placement by Anesthesiologists at the Time of Endovascular Intervention for Stroke and Subarachnoid Hemorrhage

Session 18: Neurotoxicity 3
Moderators: Gregory Crosby, MD; Serge Thal, MD

115. Microglia are Activated and Contribute to Delayed Neuronal Death after Cardiac Arrest/Cardiopulmonary Resuscitation

116. Isoflurane Increases Brain Lipid Binding Protein in Astrocytes and Augments Axonal Growth In Neuron-Astrocyte Mixed Culture

117. The Brain-wide Glymphatic Pathway is Stressed by Inhalational Anesthetics

118. A Single Subanesthetic Propofol Bolus Increases Brain Damage and Mediates Calpain-dependent Cell Death After Experimental TBI in Adult Mice

119. Impact of Anesthesia Type on Mortality in Acute Ischemic Stroke Patients Undergoing Endovascular Therapy

120. Case Report of Post-op Delirium & Amnesia with NCT Follow-up – Prefrontal Cortex & the Stroop Task

4:15 pm - 5:05 pm  Pro-Con Debate: Large Database Research, Friend or Foe?  ....................Imperial Ballroom
Moderator: Cor J. Kalkman, MD, PhD
Con: Does Ice Cream Really Cause Boating Accidents?
John C. Drummond, MD, FRCPC
Pro: The Utility and Validity of Database Research
William L. Lanier, Jr., MD

5:05 pm - 5:15 pm  Closing Remarks
Martin Smith, MBBS, FRCA, FFICM

5:15 pm - 5:45 pm  Celebration of the Life of Bill Young

5:45 pm - 7:00 pm  Wine and Cheese Reception  .................................................................Yosemite Ballroom
Program Faculty

William H. Armstead, PhD
University of Pennsylvania
School of Medicine
Philadelphia, PA

Temugin Berta, PhD
Duke University Medical Center
Durham, NC

Gregory J. Crosby, MD
Brigham & Women's Hospital
Harvard Medical School
Boston, MA

Deborah J. Culley, MD
Brigham & Women's Hospital
Harvard Medical School
Boston, MA

John C. Drummond, MD
University of California San Diego
San Diego, CA

Roderic G. Eckenhoff, MD
University of Pennsylvania
School of Medicine
Philadelphia, PA

Adrian W. Gelb, MBBS, FRCPC
University of California San Francisco
San Francisco, CA

Ramsis F. Ghaly, MD
Ghaly Neurosurgical Associates
Aurora, IL

Cor J. Kalkman, MD, PhD
University Medical Center Utrecht
Utrecht, The Netherlands

Robert T. Knight, MD
University of California Berkeley
Berkeley, CA

W. Andrew Kofke, MD, MBA
University of Pennsylvania
School of Medicine
Philadelphia, PA

Arthur Lam, MD
Swedish Neuroscience Institute
Seattle, WA

William L. Lanier, Jr., MD
Mayo Clinic College of Medicine
Rochester, MN

Kathryn K. Lauer, MD
Medical College of Wisconsin
Milwaukee, WI

Abhijit V. Lele, MBBS
University of Kansas Medical Center
Kansas City, KS

Jerrold Levy, MD
Duke University Medical Center
Durham, NC

Jeffrey J. Pasternak, MD
Mayo Clinic College of Medicine
Rochester, MN

Ryan P. Pong, MD
Virginia Mason Medical Center
Seattle, WA

Keith J. Ruskin, MD
Yale School of Medicine
New Haven, CT

Deepak Sharma, MBBS, MD
University of Washington Medical Center
Seattle, WA

Edward R. Sherwood, MD, PhD
Vanderbilt University Hospital
Nashville, TN

Elizabeth H. Sinz, MD
Penn State/Milton S. Hershey Medical Center
Hershey, PA

Philip A. Starr, MD, PhD
University of California San Francisco
San Francisco, CA

Jose I. Suarez, MD
Baylor College of Medicine
Houston, TX

Michael M. Todd, MD
University of Iowa College of Medicine
Iowa City, IA

Laszlo Vutskits, MD, PhD
University Hospital of Geneva
Geneva, Switzerland

David S. Warner, MD
Duke University Medical Center
Durham, NC

Midori Yenari, MD
University of California San Francisco
San Francisco, CA
Learning Objectives

The 41st Annual Meeting of the Society for Neuroscience in Anesthesiology and Critical Care is directed towards creating a learning environment where participants will be able to:

• Discuss the essentials of neuromonitoring in the operating room for Anesthesiologists.
• State how participants can play a more active role in intraoperative neuromonitoring.
• Discuss methods to enhance the development of an academically productive career in Anesthesiology.
• Discuss current controversies in neuroanesthesia.
• Review the interconnectivity of the brain.
• Discuss the role of inflammation in the normal and pathologic brain.
• Employ best practice strategies from lectures, workshops, and poster session to provide best quality and safety in patient management base on up to date information.

Disclaimer

Participants have an implied responsibility to use the newly acquired information to enhance patient outcomes and their own professional development. The information presented in this activity is not meant to serve as a guideline for patient management. Any procedures, medications, or other courses of diagnosis or treatment discussed or suggested in this activity should not be used by clinicians without evaluation of their patient’s conditions and possible contraindications and/or dangers in use, review of any applicable manufacturer’s product information, and comparison with recommendations of other authorities.

A Disclosure of Conflicts of Interest handout is inserted in the Program and Abstracts Book. The handout reflects reports of financial relationships or relationships to products or devices faculty, planners, and managers, or their spouses/life partners, have with commercial interests related to the content of this CME activity. If you do not find this handout inserted in your Program and Abstracts Book, please visit the conference’s Registration Desk.

The planners and managers reported the following financial relationships or relationships they or their spouse/life partner have with commercial interests related to the content of this continuing education activity:

The following PIM planners and managers, Deborah J. Culley, MD, Kristin Engelhard, MD, PhD, Ansgar M. Brambrink, MD, PhD, Martin Smith, MBBS, FRCA, FFICM, W. Andrew Kofke, MD, MBA, FCCM, Deepak Sharma, MBBS, MD, DM, William Armstead, PhD, Jeffrey J. Pasternak, MD, Stewart Hinckley, and Sandra Peterson, hereby state that they or their spouse/life partner do not have any financial relationships or relationships to products or devices with any commercial interest related to the content of this activity of any amount during the past 12 months.
The planners and managers reported the following financial relationships or relationships to products or devices they or their spouse/life partner have with commercial interests related to the content of this CME activity:

The following PIM planners and managers, Laura Excell, ND, NP, MS, MA, PC, NCC; Trace Hutchison, PharmD; Samantha Mattiucci, PharmD, CCMEP and Jan Schultz, RN, MSN, CCMEP hereby state that they or their spouse/life partner do not have any financial relationships or relationships to products or devices with any commercial interest related to the content of this activity of any amount during the past 12 months.

The following Society for Neuroscience in Anesthesiology and Critical Care (SNACC) planners and managers, Deborah J. Culley, MD, Kristin Engelhard, MD, PhD, Ansgar M. Brambrink, MD, PhD, Martin Smith, MBBS, FRCA, FFICM, W. Andrew Kofke, MD, MBA, FCCM, Deepak Sharma, MBBS, MD, DM, William Armstead, PhD, Jeffrey J. Pasternak, MD, Stewart Hinckley, and Sandra Peterson, hereby state that they or their spouse/life partner do not have any financial relationships or relationships to products or devices with any commercial interest related to the content of this activity of any amount during the past 12 months.

Accreditation

This activity has been planned and implemented in accordance with the Essential Areas and policies of the Accreditation Council for Continuing Medical Education through the joint sponsorship of Postgraduate Institute for Medicine and SNACC. The Postgraduate Institute for Medicine (PIM) is accredited by the ACCME to provide continuing medical education for physicians. The PIM designates this live activity for a maximum of 10.5 AMA PRA Category 1 Credit(s)™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

SNACC Mentoring Session – The PIM designates this educational activity for a maximum of 4.0 AMA PRA Category 1 Credit(s)™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

SNACC Research Symposium – The PIM designates this educational activity for a maximum of 3.0 AMA PRA Category 1 Credit(s)™ Physicians should claim only the credit commensurate with the extent of their participation in the activity.

SNACC TCD Beginner Workshop – The PIM designates this educational activity for a maximum of 2.0 AMA PRA Category 1 Credit(s)™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

SNACC TCD Advanced Workshop – The PIM designates this educational activity for a maximum of 4.0 AMA PRA Category 1 Credit(s)™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

SNACC Thursday Evening Dinner Symposium – No CME credits are designated for this activity.

SNACC Scientific Program - The PIM designates this educational activity for a maximum of 6.5 AMA PRA Category 1 Credit(s)™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.
PLATINUM LEVEL
Masimo

BRONZE LEVEL
Covidien
HOSPIRA
Karl Storz Endoscopy-America, Inc.
Moberg Research
NeurOptics
SmartTots
SNACC Education Committee
The Medicines Company
Wolters Kluwer Health

SPONSOR
Integra Lifesciences

EXHIBIT TIMES  Friday - October 11, 2013
7:00 am - 7:50 am      9:45 am - 10:15 am      2:30 pm - 3:00 pm      5:45 pm - 7:00 pm
**PRODUCT DESCRIPTIONS**

<table>
<thead>
<tr>
<th>Company Name</th>
<th>Booth #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Covidien</td>
<td>4</td>
</tr>
<tr>
<td>HOSPIRA</td>
<td>17</td>
</tr>
</tbody>
</table>

For more information, stop by Hospira’s booth or call 1-877-946-7747 to learn the latest regarding Precedex™ (dexametomidine HCl Injection)—See full prescribing information. Hospira is the world’s leading provider of injectable drugs and infusion technologies. Learn more at www.hospira.com.

**Integra Lifesciences**
Integra LifeSciences, a world leader in medical devices, is dedicated to limiting uncertainty for surgeons, so they can concentrate on providing the best patient care. Integra offers a vast portfolio of implants, devices, instruments and systems used in neurosurgery and neuro critical care.

**KARL STORZ Endoscopy-America Inc.**
KARL STORZ offers a full range of solutions for managing adult and pediatric airways. The C-MAC® Video Laryngoscopes are equipped with Macintosh blades for routine and difficult intubations, and for teaching. Our C-MAC® Pocket Monitor combines direct laryngoscopy with benefits of video laryngoscopy, with a tiny monitor on the handle that folds to the side for transport. The C-CAM® facilitates connection of flexible intubation fiberscopes and optical stylets for a systems-based approach to airway management.

**Masimo**
Masimo is a global medical technology company that develops and manufactures innovative noninvasive monitoring technologies, including medical devices and a wide array of sensor that may enable earlier detection and treatment of potentially life-threatening conditions. A key medical technology innovator, Masimo is responsible for the invention of award-winning noninvasive technologies that are revolutionizing patient monitoring, including Masimo SET® pulse oximetry, Masimo rainbow SET® noninvasive and continuous hemoglobin (SpHb®), acoustic respiration rate (RRa™), and Masimo SafetyNet™, and SedLine® (EEG-based) Brain Function Monitors.

**Moberg Research**
Moberg provides critical care solutions for multimodal monitoring, EEG, and neuroinformatics. The CNS Monitor seamlessly records and displays neurophysiologic data integrated with continuous, processed EEG. Customizable multimodal displays give greater visibility to data correlations so clinicians can more rapidly and effectively respond to patient care situations. Additional CNS components provide remote-review, analysis, data storage, and decision support. Visit our booth to learn about our 2014 SNACC travel grant to honor the late William Young, MD.

**NeurOptics**
Based in Irvine, California, NeurOptics, Inc., provides devices that collect and process information from the human eye to facilitate medical decision-making and enable clinical research. The company offers the NP1™-100 Pupillometer for Critical Care, as well as pupillometers for Research and Ophthalmology. The Pupillometer is a handheld, cordless and simple to use device which removes subjectivity in the measurement of the papillary light reflex. For more information, visit www.NeurOptics.com.

**SmartTots**
The International Anesthesia Research Society (IARS) presents SmartTots, a collaborative research initiative designed to investigate, fund, and ensure the safety of anesthetics administered to neonates and young children. Visit our booth for information about anesthetic-induced neurotoxicity, ongoing research projects, and how you can contribute to the effort.

**SNACC Education Committee**
SNACC Education Committee would like to hear from the membership about educational material they would prefer to see on the SNACC web site. Please stop by our booth for a chat, provide us with your feedback on current educational material including the “Bibliography” and let us know if you have suggestions for other educational resources.

**The Medicines Company**
The Medicines Company is a global biopharmaceutical organization focused on saving lives, alleviating suffering and improving the economic efficiency of the world’s leading acute and intensive care hospitals. We aim to be a leading provider of solutions for those hospitals. We are specifically focused on improving health and economic outcomes of acute cardiac events, stroke, life-threatening infections, trauma and surgery. Our products and research projects are designed to act rapidly via injection or other direct administration aiming to enable better outcomes of effect, safety, convenience and cost.

**Wolters Kluwer Health**
Wolters Kluwer Health is a global provider of information, business intelligence and point-of-care solutions for the healthcare industry. Major brands include Lippincott Williams & Wilkins, Lippincott’s Nursing Solutions, medical books, journals, and electronic media. Please visit our booth to browse our comprehensive product selection.

**COMMERCIAL SUPPORT**

SNACC would like to thank the following companies for providing an educational grant:

<table>
<thead>
<tr>
<th>Company Name</th>
<th>Booth #</th>
</tr>
</thead>
<tbody>
<tr>
<td>HOSPIRA</td>
<td>4</td>
</tr>
<tr>
<td>Integra Foundation</td>
<td>17</td>
</tr>
<tr>
<td>Masimo</td>
<td>11</td>
</tr>
</tbody>
</table>
42nd Annual Meeting
October 9-10, 2014 • New Orleans, LA