A Message from the President

On behalf of the Officers and Board of Directors of the Society for Neuroscience in Anesthesiology and Critical Care (SNACC), I invite you to attend the 43rd Annual SNACC Meeting on October 22-23, 2015 at the Manchester Grand Hyatt Hotel in San Diego, California. This year’s meeting was organized by George Mashour, MD, PhD, who has provided us with a number of excellent and engaging sessions on both days. Friday will remain the official day of the SNACC Annual Meeting, but once again we are offering three sessions on Thursday afternoon prior to the Dinner Symposium.

The first Thursday afternoon session is a Mentoring session for trainees, “Getting Ready for Tomorrow – Transition from Training to Practice” moderated by Chanannait Paisansathan. This session is symbolic of the devotion that SNACC has to the development of our trainees and SNACC leaders of tomorrow. In addition to the mentoring session there will be a Clinical Care Symposium moderated by Irene Osborn, MD on the topic of “Chronic Pain and the Neurosurgery Patient”, and a Basic Science Symposium that I will moderate on one of my favorite topics: “Anesthetic Neurotoxicity in the Young and Elderly.” Early registration for the Thursday sessions is recommended as they are very popular and fill up early.

Thursday will conclude with the annual Pre-Meeting Dinner Symposium, organized by Jeffrey Pasternak, MD and moderated by Martin Smith, MBBS, FRCA, FFICM on the topic of “Contemporary Multimodal Monitoring of the Brain.” This session is a favorite among SNACC members. It combines an opportunity to socialize with career-long SNACC friends with education about up-to-date methods to monitor the most important organ in the body. Registration for the Dinner Symposium is required by October 16, 2015 and space is limited so register early.

Our Annual Meeting will begin on Friday with the second Annual Maurice Albin Lecture on “Consciousness and Anesthesia” by Michael Alkire, MD. The day will also include three mini symposia. The first is on the topic of “Neurologic Complications in the Perioperative Period” moderated by Adrian Gelb, MD whereas the second is on the topic of “The Unresponsive Patient”. The second session is co-sponsored with the Center for Consciousness Science at the University of Michigan Medical School and will be moderated by Max Kelz, MD, PhD. The last mini symposium will be on the topic of “The Perioperative Home and Neurosurgical Patients: Promises and Pitfalls” moderated by Gregory Crosby, MD. Two moderated poster sessions showcasing research in our field will fill out the day and thrill the scientist in all of us.

The meeting on Friday also includes the Annual Business Luncheon and Award Presentations, opportunities to visit with exhibitors, and will conclude with a Wine and Cheese Reception. The Special Interest Group Meetings (SIG) will also meet during this time.

Mark your calendars now because this is one Annual Meeting you don’t want to miss! You can find more information about the SNACC Annual Meeting and how to download the SNACC app for your iPhone or Android at our website: www.snacc.org. I look forward to seeing you in beautiful San Diego in October.

Sincerely,
Deborah J. Culley, MD
SNACC President

PROGRAM PLANNING COMMITTEE

George A. Mashour, MD, PhD
Program Chair
University of Michigan
Ann Arbor, MI
Deborah J. Culley, MD
Harvard Medical School
Brigham & Women’s Hospital
Boston, MA

Kristin R. Engelhard, MD, PhD
University Medical Center of the
Johannes Gutenberg University

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

Jeffrey J. Pasternak, MD
St. Mary’s Hospital/ Mayo Clinic
Rochester, MN
Mission of SNACC
The mission of the Society for Neuroscience in Anesthesiology and Critical Care is to advance the art and science of the care of the neurologically impaired patient.

Statement of Need
The overall scientific program of the SNACC 43rd Annual Meeting addresses the specialty’s practice gaps and underlying educational need in multiple areas. Through workshops we will address mentorship for trainees with transition from training to practice, clinical care of neurosurgical patients with chronic pain, and anesthetic neurotoxicity in the young and elderly. There will be lectures on consciousness and anesthesia, neurologic complications in the perioperative period, assessment and neurobiology of the unresponsive patient, and the perioperative home for neurosurgical patients.

This program reflects the diversity of the specialty as well as the needs and interests of both the general and subspecialist anesthesiologist’s practice. The moderated posters will reflect experimental and clinical neuroscience.

Target Audience
The SNACC 43rd Annual Meeting has been designed to meet the educational needs of neurosurgical and critical care anesthesiologists and neuroscientists involved in the care of patients with neurological disorders and is intended for neurosurgical and critical care anesthesiologists, neuroscientists, faculty, residents, fellows and medical students. The Society supports the attendance by members in the educational sessions of the Annual Meeting. The program is generated from member requests and an assessment of need by the program committee.

Attendance at this meeting does not guarantee competency or proficiency in the performance of any procedures which may be discussed or taught during the course.

Educational Format
CME activities may include the following formats: plenary sessions, lectures, moderated poster discussions, oral abstracts and skill set workshops.

Participation in the SNACC 43rd Annual Meeting
Attendance shall be open to all health practitioners, provided that they have registered for the meeting. CME credit will only be offered to MDs, DOs or equivalent. A completed Physician Verification of Attendance form must be submitted at the conclusion of the meeting.

ACCME Accreditation and AMA Designation Statement
This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint provid- ership of the American Society of Anesthesiologists and the Society for Neuroscience in Anesthesiology and Critical Care. The American Society of Anesthesiologists is accredited by the ACCME to provide continuing medical education for physicians.

The American Society of Anesthesiologists designates this live activity for a maximum of 14.75 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Disclaimer
The information provided at this CME activity is for continuing education purposes only and is not meant to substitute for the independent medical judgment of a healthcare provider relative to diagnostic and treatment options of a specific patient’s medical condition.

Commercial Support Statement
The CME activity is supported by educational grants. A complete list of supporters will be published in the program syllabus.

Disclosure Policy
The American Society of Anesthesiologists remains strongly committed to providing the best available evidence-based clinical information to participants of this educational activity and requires an open disclosure of any potential conflict of interest identified by our faculty members. It is not the intent of the American Society of Anesthesiologists to eliminate all situations of potential conflict of interest, but rather to enable those who are working with the American Society of Anesthesiologists to recognize situations that may be subject to question by others. All disclosed conflicts of interest are reviewed by the educational activity course director/chair to ensure that such situations are properly evaluated and, if necessary, resolved. The American Society of Anesthesiologists educational standards pertaining to conflict of interest are intended to maintain the professional autonomy of the clinical experts inherent in promoting a balanced presentation of science. Through our review process, all American Society of Anesthesiologists CME activities are ensured of independent, objective, scientifically balanced presentations of information. Disclosure of any or no relationships will be made available for all educational activities.

How to Receive CME Credit
In order to receive CME credit, participants must sign-in to the ASA Education Center, review the CME information and complete the evaluation. Further instructions will be emailed to each participant immediately prior to and after the activity.

Lodging Information
The SNACC 43rd Annual Meeting will be held at the Manchester Grand Hyatt Hotel in San Diego. Hotel reservations for the Manchester Grant Hyatt can be made through the American Society of Anesthesiologists (ASA) website. Visit www.asahq.org for more information.
LEARNING OBJECTIVES

At the conclusion of this activity, participants should be able to:

• Describe the basic science and clinical evidence relevant to anesthetic neurotoxicity.

• Describe the signs and symptoms of centralized pain, plan an analgesic regimen for a chronic pain patient, and identify risks and benefits of scalp block for craniotomy.

• Identify the techniques and skills to initiate and maintain a successful career as an academic anesthesiologist.

• Describe how key multimodal monitoring technologies can be utilized to better understand the healthy and injured brain. Attendees will also be able to explain how multimodal monitoring of the brain can be applied to direct and individualize patient care.

• Become familiar with the brain regions and processes involved in conscious experience.

• Identify the basic risk factors of perioperative neurologic complications and develop clinical strategies aimed at prevention. The objective is to help the neuroanesthesiologist become a general consultant for neurologic outcomes of surgery.

• Describe the clinical management of unresponsive patients in the operating room and intensive care unit setting, as well as advanced techniques of MRI and EEG revealing mechanisms/metrics of unresponsiveness and unconsciousness.

• Explain the concept and describe the advantages and disadvantages of the perioperative home for surgical patients.

MARK YOUR CALENDARS!

SNACC 44th Annual Meeting
October 20-21, 2016
Chicago, IL

SNACC 45th Annual Meeting
October 19-20, 2017
Boston, MA
**PROGRAM FACULTY**

<table>
<thead>
<tr>
<th>Name</th>
<th>Affiliation</th>
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<tbody>
<tr>
<td>Michael T. Alkire, MD</td>
<td>University of California</td>
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<td>Ansgar Brambrink, MD, PhD</td>
<td>University of Oregon</td>
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<td>Chad M. Brummett, MD</td>
<td>University of Michigan</td>
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<td>Gregory J. Crosby, MD</td>
<td>Harvard Medical School</td>
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<td>Deborah J. Culley, MD</td>
<td>Harvard Medical School</td>
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<tr>
<td>Adrian W. Gelb, MD</td>
<td>University of California</td>
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<td>Paul E. Hilliard, MD</td>
<td>University of Michigan</td>
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<td>Zeev N. Kain, MD, MBA</td>
<td>University of California</td>
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<td>Max B. Kelz, MD, PhD</td>
<td>University of Pennsylvania</td>
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<td>Kathryn K. Lauer, MD</td>
<td>Medical College of Wisconsin</td>
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<td>Lorri A. Lee, MD</td>
<td>University of Washington</td>
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<td>Jacqueline M. Leung, MD</td>
<td>University of California</td>
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<td>Peter D. LeRoux, MD, FACS</td>
<td>University of Pennsylvania</td>
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<td>George A. Mashour, MD, PhD</td>
<td>University of Michigan</td>
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<td>David L. McDonagh, MD</td>
<td>Duke University</td>
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<td>Laurel E. Moore, MD</td>
<td>University of Michigan</td>
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<td>Irene P. Osborn, MD</td>
<td>Mount Sinai Hospital</td>
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<td>Chanannait Paisansathan, MD</td>
<td>University of Illinois</td>
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<td>Piyush M. Patel, MD</td>
<td>University of California</td>
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<td>Patrick Purdon, PhD</td>
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<td>Claudia Robertson, MD</td>
<td>Baylor College of Medicine</td>
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<td>Lauryn R. Rochlen, MD</td>
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<td>Barbara Sinner, MD</td>
<td>University of Regensburg</td>
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<td>Martin Smith, MBBS, FRCA, FFICM</td>
<td>University College</td>
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<td>Robert D. Stevens, MD</td>
<td>Johns Hopkins University</td>
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<td>David S. Warner, MD</td>
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WEDNESDAY, OCTOBER 21, 2015

3:30 pm – 4:30 pm  Executive Committee Meeting
5:00 pm – 7:00 pm  Board of Directors Meeting (Part I)

THURSDAY, OCTOBER 22, 2015

8:00 am – 11:00 am  Board of Directors Meeting (Part II)
10:00 am – 5:00 pm  Registration

Mentoring Session for Trainees:  
Getting Ready For Tomorrow – Transition from Training to Practice

5.0 AMA PRA Category 1 credits™
Moderator: Chanannait Paisansathan, MD

12:00 n – 1:00 pm  Lunch (Included): Honoring Women in Neuroanesthesia  
Chanannait Paisansathan, MD
1:00 pm – 1:45 pm  Life after Residency – Board Preparation and MOCA  
Lauryn R. Rochlen, MD
1:45 pm – 2:30 pm  Academic Mentoring – How To Give It and How To Get It  
Martin Smith, MBBS, FRCA, FFICM
2:30 pm – 3:15 pm  Academic Appointments and Promotions – How to Survive the Research Tsunami  
David S. Warner, MD
3:15 pm – 4:00 pm  Work-Life Balance and the Enjoyment of Academic Medicine  
Kathryn K. Lauer, MD
4:00 pm – 5:00 pm  Roundtable Discussion
Clinical Care Symposium: Chronic Pain and the Neurosurgery Patient

**3.0 AMA PRA Category 1 credits™**

**Moderator: Irene P. Osborn, MD**

1:00 pm – 1:15 pm  **Introduction**  
Irene P. Osborn, MD

1:15 pm – 2:00 pm  **Spine Pain and the Fibromyalgia Phenotype**  
Chad M. Brummett, MD

2:00 pm – 2:45 pm  **Post-Craniotomy Pain and Scalp Blocks**  
Irene P. Osborn, MD

2:45 pm – 3:30 pm  **High-dose Opioid Taper**  
Paul E. Hilliard, MD

3:30 pm – 4:00 pm  **General Discussion and Q&A**  
Irene P. Osborn, MD

Basic Science Symposium: Anesthetic Neurotoxicity in the Young and Elderly

**3.0 AMA PRA Category 1 credits™**

**Moderator: Deborah C. Culley, MD**

2:00 pm – 2:15 pm  **Introduction**  
Deborah C. Culley, MD

2:15 pm – 3:00 pm  **Basic Science of Neural Injury and Protection**  
Piyush M. Patel, MD

3:00 pm – 3:45 pm  **Preclinical Studies of Anesthetic Neurotoxicity**  
Ansgar Brambrink, MD, PhD

3:45 pm – 4:30 pm  **Clinical Studies of Relevance to Anesthetic Neurotoxicity**  
Barbara Sinner, MD

4:30 pm – 5:00 pm  **General Discussion and Q&A**  
Deborah C. Culley, MD

Dinner Symposium: Contemporary Multimodal Monitoring of the Brain

**2.25 AMA PRA Category 1 credits™**

**Moderator: Martin Smith, MBBS, FRCA, FFICM**

5:00 pm – 6:00 pm  **Reception (Cash Bar)**

6:00 pm – 6:10 pm  **Welcome Address**  
Deborah C. Culley, MD

6:10 pm – 6:15 pm  **Introduction of Session**  
Martin Smith, MBBS, FRCA, FFICM

6:15 pm – 6:45 pm  **Brain Tissue Oxygen Monitoring**  
Peter D. LeRoux, MD

6:45 pm – 7:15 pm  **Bringing Cerebral Microdialysis to the Bench and Bedside**  
Claudia Robertson, MD

7:15 pm – 8:00 pm  **Dinner**

8:00 pm – 8:30 pm  **Brain Monitoring with Near Infrared Technology**  
W. Andrew Kofke, MD, MBA, FCC

8:30 pm – 8:45 pm  **Panel Discussion**

8:45 pm – 9:00 pm  **Concluding Remarks**  
Martin Smith, MBBS, FRCA, FFICM
FRIDAY, OCTOBER 23, 2015

6:30 am – 5:00 pm  Registration

7:00 am – 7:50 am  Continental Breakfast with Exhibits, Various Committee Meetings

7:50 am – 8:00 am  Welcome Address
Deborah C. Culley, MD

8:00 am – 8:45 am  Annual Maurice Albin Keynote Lecture
( Co-sponsored with the Center for Consciousness Science, University of Michigan)
Moderator: George A. Mashour, MD, PhD

Consciousness and Anesthesia
Michael T. Alkire, MD

Mini Symposium One - Neurologic Complications in the Perioperative Period

1.5 AMA PRA Category 1 credits™
Moderator: Adrian W. Gelb, MD

8:45 am – 9:15 am  Perioperative Stroke
Laurel E. Moore, MD

9:15 am – 9:45 am  Postoperative Delirium
Jacqueline M. Leung, MD

9:45 am – 10:15 am  Postoperative Visual Loss
Lorri A. Lee, MD

10:15 am – 10:45 am  Coffee Break with Exhibitors

Poster Session One

1.25 AMA PRA Category 1 credits™
Moderator: Chanannait Paisansathan, MD

10:45 am – 12:00 n  Poster Session

12:00 n – 1:30 pm  Business Lunch & Award Presentations
Resident Research Awards, SNACC Award for Best Abstract (IARS), John D. Michenfelder Award
Mini Symposium Two - The Unresponsive Patient
(Coming with the Center for Consciousness Science, University of Michigan)

1.5 AMA PRA Category 1 credits™

Moderator: Max B. Kelz, MD

1:30 pm – 2:00 pm
Clinical Approach to the Unresponsive Patient
David L. McDonagh, MD

2:00 pm – 2:30 pm
Neuroimaging and Unconsciousness
Robert D. Stevens, MD

2:30 pm – 3:00 pm
EEG and Unconsciousness
Patrick L. Purdon, PhD

3:00 pm – 3:30 pm
Coffee Break with Exhibits

Poster Session Two

1.25 AMA PRA Category 1 credits™

Moderator: Chanannait Paisansathan, MD

3:30 pm – 4:45 pm
Poster Session

Mini-Symposium Three - The Perioperative Home and Neurosurgical Patients: Promises and Pitfalls

1.25 AMA PRA Category 1 credits™

Moderator: Gregory J. Crosby, MD

4:45 pm – 4:50 pm
Introduction
Gregory J. Crosby, MD

4:50 pm – 5:10 pm
Pro:
Zeev N. Kain, MD

5:10 pm – 5:30 pm
Con:
Gregory J. Crosby, MD

5:30 pm – 5:45 pm
Discussion

5:45 pm – 6:00 pm
Closing Remarks
Deborah C. Culley, MD

6:00 pm – 7:00 pm
Wine and Cheese Reception with Exhibitors, Special Interest Group Meetings

Total available to claim CME Credits for 10/22 = 7.25
Total available to claim CME credits for 10/23 = 7.5

Total CME Credits: 14.75
Registration Form (Page 1 of 2)

- PLEASE PRINT OR TYPE -

First Name ___________________________ MI _____ Last Name ___________________________

Credentials __________________ Specialty __________________ Institution __________________

Institution/Work Address ________________________________________________________________

City ___________________________ State _____ Zip Code __________________ Country ___________

Office Phone ___________________________ Home Phone ___________________________ Fax __________________

Email Address* ______________________________________________________________ ASA Member Number ___________

*Email address required for registration confirmation.

Do you have a Neuroanesthesia ☐ NeuroICU ☐ or a Neuromonitoring Fellowship ☐ at your institution?

Meeting Registration

Your registration fee covers Friday’s continental breakfast, lunch, refreshment break, wine and cheese reception, meeting syllabus and handout materials. To register for Thursday workshops and dinner event, please see page two of this form.

<table>
<thead>
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Optional $10 donation for FAER Scholars to attend the Annual Meeting and the Mentoring Workshop

Page One Total $ __________

Page Two Total $ __________

GRAND TOTAL $ __________

Your registration can be completed online at www.snacc.org or mailed or faxed to the address below.

SNACC • 2209 Dickens Road • Richmond, VA 23230-2005 • (804) 565-6360 • Fax (804) 282-0090 • snacc@snacc.org
Pre-Meeting Workshops, Symposium and Dinner Symposium Registration
Thursday, October 22, 2015

12:00 pm - 5:00 pm  
**Mentoring Session for Trainees: Getting Ready For Tomorrow – Transition from Training to Practice**  
(Includes lunch from 12:00 n - 1:00 pm)  
| SNACC Member | $125 | $140 | $__________ |
| Non-Member | $150 | $165 | $__________ |
| Resident, Fellow, Medical Student, Emeritus, Post Doctoral, Graduate Students | $75 | $90 | $__________ |

1:00 pm - 4:00 pm  
**Clinical Care Symposium: Chronic Pain and the Neurosurgery Patient**  
| SNACC Member | $50 | $65 | $__________ |
| Non-Member | $75 | $90 | $__________ |

2:00 pm - 5:00 pm  
**Basic Science Symposium: Anesthetic Neurotoxicity in the Young and Elderly**  
| SNACC Member | $50 | $65 | $__________ |
| Non-Member | $75 | $90 | $__________ |

5:00 pm - 9:00 pm  
**Dinner Symposium: Contemporary Multimodal Monitoring of the Brain**  
(Pre-registration by Oct. 16 is required)  
| SNACC Member | $75 | $85 | $__________ |
| Non-Member | $100 | $110 | $__________ |
| Guest(s) ______________ @ $100 per guest | $100 | $110 | $__________ |
| Resident, Fellow, Medical Student, Emeritus, Post Doctoral, Graduate Students | $50 | $60 | $__________ |

| Check here for vegetarian meal preference |
| Guest Name(s) ____________________________ |

*Add the page two total above to the meeting registration total on page one of this form for payment total.*

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**Special Needs:**  
☐ I will require special accommodations (a SNACC staff member will contact you).

**Payment Information**  
☐ Check payable to SNACC, U.S. Currency  
☐ VISA  
☐ MasterCard  
☐ AMEX  
☐ Discover

Credit Card No. ____________________________ Exp. Date __________ Zip Code _________

Signature ____________________________ Printed Name on Card ____________________________

*CVV code is the three-digit number on the back of VISA, MC or Discover or the four-digit number on the front of AMEX above the account number.

Refund Policy: 80% refund through October 1, 2015; no refunds after October 1, 2015. Refunds will be determined by the date a cancellation request is received in writing at SNACC. Americans with Disabilities Act: The Society for Neuroscience in Anesthesiology and Critical Care has fully complied with the legal requirements of the ADA and the rules and regulations thereof. If any participant in this educational activity is in need of accessible accommodations, please contact SNACC at (804) 565-6360 for assistance.

SNACC • 2209 Dickens Road • Richmond, VA 23230-2005 • (804) 565-6360 • Fax (804) 282-0090 • snacc@snacc.org • www.snacc.org
SNACC Panel at the 2015 ASA Annual Meeting

The ASA Panel Session is not part of the SNACC 43rd Annual Meeting. To attend, you must register through ASA meeting registration. Please check the ASA website www.ASAhq.org for any updates and to register.

Title: (SNACC) Is There Enough Evidence to Implement Protocols for Enhanced Recovery After Neurosurgery?

October 27, 2015 • San Diego Convention Center • 1:00 pm - 3:00 pm

Speakers

Lead Speaker: Adrian W. Gelb, MB,BCh, FRCPC
Anesthesiology, University of California, San Francisco, San Francisco, CA, USA

Navigating the Surging Waves: Pitfalls in Designing and Implementing an Enhanced Recovery Protocol
Timothy Miller, MB,ChB
Duke University, Durham, NC, USA

Finding the Heavy Waves and Avoiding the Riptides: Do We Have Evidence to Choose Which Fluids To Administer During Spine Surgery?
Louanne M. Carabini, MD
Anesthesiology, Northwestern University, Park Ridge, IL, USA

Avoiding the Ankle Slop and Finding the Epic Wave - Is There More to Choosing Anesthetic Techniques for Intracranial Surgery Than Pharmacokinetics?
Dhanesh K. Gupta, MD
Duke University Medical Center, Durham, NC, USA

Learning Objectives:
The learner will be able to:

1. Review the process for developing and implementing an enhanced recovery protocol and discuss the challenges and methods by which protocols are updated for new, emerging clinical data;

2. Examine the clinical evidence for superiority or equivalency of different fluid types for intraoperative fluid therapy in spine surgery and the challenges and methods by which critical gaps in knowledge can be filled;

3. Examine the clinical evidence for superiority or equivalency of different anesthetic techniques for intracranial surgery and the challenges and methods by which critical gaps in knowledge can be filled.

Description:
This subspecialty panel will review the process by which enhanced recovery after surgery (ERAS) protocols are developed and updated. Two specific topics— the choice of intravenous fluid type for spine surgery and the choice of anesthetic technique for intracranial surgery will be used as examples of specific choices that must be made for intraoperative care to establish ERAS protocols, the data supporting superiority or equivalency of different fluid therapies or anesthetic techniques, and methods beyond the randomized controlled trial that can be used to efficiently fill critical gaps in knowledge.