2013

Enhancing Best Practices Worldwide

11th Annual Neurocritical Care Society Meeting
October 1-4, 2013
Philadelphia Marriott Downtown
Philadelphia, PA

www.neurocriticalcare.org
Welcome to the Neurocritical Care Society 11th Annual Meeting! As we enter our second decade, the annual meeting reflects the diversity of our membership, the strong ethic of participation and collaboration and our commitment to advancing patient care and research. The theme of this year’s meeting is “Enhancing Best Practices Worldwide.” This theme captures the essence of the mission of the Neurocritical Care Society and emphasizes the fact that neurocritical care is truly an international discipline where care of patients is improved by learning from each other’s best practices and developing ways to incorporate them into our own.

How are we doing this at the annual meeting? Well, there is something for everyone. In response to society member feedback, we have changed the format of the previous “board review” course to now encompass a broader Practice Update format. This means that the program is not limited to preparation for the UCNS board exam, but really will serve all members who desire up-to-date information about neurocritical care clinical practice topics, whether you are a nurse, fellow, international member, or already UCNS-certified. This aspect of the program will run during the morning of the three full-days of the meeting so that attendees can pick and choose among the Practice Update as well as other offerings.

A high-quality syllabus accompanies the Practice Update.

Program highlights include a session on Brain Death addressing worldwide variation and ways to improve consistency in diagnosis, the members’ submitted session directed by Ines Koerner on the autonomic nervous system in neurocritical care, and the return of Debate Team in which last year’s debate winners will serve as this year's judges. New and ongoing guidelines will be highlighted and models of neurocritical care delivery will be discussed. Special sponsored symposia will be available this year and we encourage you to attend. In fact, we wish to acknowledge the gracious support and participation of all our annual meeting supporters and exhibitors.

Workshops are back! David Seder and Josh Goldstein have done a fantastic job in continuing to enhance our workshop offerings. These practical sessions include education in general critical care topics such as: airway, ventilation, hemodynamics, imaging, and ultrasound with a focus on neurocritical aspects of these interventions. A new workshop on “Surviving TBI” is a highlight. The workshops have become an essential “must do” part of the meeting for many attendees. We encourage everyone to participate in at least one workshop.

I want to thank Javier Provencio and Kevin Sheth for shepherding the Scientific Program. We anticipate increased use of electronic media for presentation and dissemination of original research. We have a half-day Translational Science Symposium and a new Pre-Meeting Symposium on Research Career Development organized by Jonathan Rosand. The Neurocritical Care Society meeting has become the flagship meeting for presentation of relevant clinical and translational neurocritical care science. We encourage your participation!

We are extremely privileged to have colleagues from the National Space Biomedical Research Institute present at our plenary session on the first day of the meeting. The session on space physiology will be both interesting and directly relevant to neurocritical care physicians and monitoring. Followed by the keynote address by Dr. Jonathan Clark, medical director of the Red Bull Stratos program, we expect this to be a stimulating and exciting session and hope it leads to collaborations with NCS members to address some of the challenges faced by astronauts and earth-dwellers alike.

And finally the annual meeting banquet. The Hard Rock Cafe in Philadelphia will be the site for the next legendary shindig. Enough said, be there. So please join me in Philadelphia as we come together from across the world to enhance best practices for neurocritical care.

J. Claude Hemphill, III, MD, MAS
Chair, Annual Meeting Program Committee
Vice-President, Neurocritical Care Society

11TH ANNUAL NEUROCRITICAL CARE SOCIETY MEETING

Annual Meeting Learning Objectives

- Apply current best clinical practices to the management of patients in the neurocritical care unit
- Describe how emerging translational research approaches are directly relevant to the clinical practice of neurocritical care
- Describe the challenges and methods of conducting neurocritical care research in various international settings
- Apply standardized protocols to the determination of brain death
- Integrate the neurocritical care of acute ischemic stroke patients undergoing endovascular treatment
- Understand different models of neurocritical care delivery and apply these as appropriate in clinical practice

Workshop Learning Objectives (varying depending on workshops attended)

- Describe unique aspects of airway and ventilation management for neurocritical care patients
- Implement procedures such as bronchoscopy and ultrasound as applicable to neurocritical care patients
- Describe current issues in neuropharmacy for neurocritical care patients
- Interpret relevant diagnostic studies involved in acute management of neurocritical care patients including neuroimaging and electrophysiology
- Direct management of systemic and cerebral hemodynamics to optimize the care of neurocritically ill patients

Target Audience

- Physicians in neurosurgery and neurology
- Physicians in critical care and pulmonary medicine
- Physicians in anesthesiology
- Physicians in surgery
- Physicians in emergency medicine
- Critical care nurses
- Neurological nurses
- Advanced critical care nurse practitioners
- Physician assistants
- Pharmacists
- Translational Neuroscientists
## SCHEDULE AT-A-GLANCE

### SUNDAY, SEPTEMBER 29

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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<tbody>
<tr>
<td>7:00 a.m. - 8:00 a.m.</td>
<td>Consensus Conference on Multimodality Monitoring Registration</td>
<td>Junipers Room at Courtyard Marriott</td>
</tr>
<tr>
<td>8:00 a.m. - 5:00 p.m.</td>
<td>International Consensus Conference on Multimodality Monitoring Registration</td>
<td>Junipers Room at Courtyard Marriott (separate registration required)</td>
</tr>
<tr>
<td>4:00 p.m. - 8:00 p.m.</td>
<td>Registration</td>
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### MONDAY, SEPTEMBER 30

<table>
<thead>
<tr>
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<th>Event</th>
<th>Location</th>
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<tbody>
<tr>
<td>8:00 a.m. - 12:00 p.m.</td>
<td>International Consensus Conference on Multimodality Monitoring Registration</td>
<td>Junipers Room at Courtyard Marriott</td>
</tr>
<tr>
<td>9:30 a.m. - 6:00 p.m.</td>
<td>Registration</td>
<td>5th Floor Foyer</td>
</tr>
<tr>
<td>12:00 p.m. - 5:00 p.m.</td>
<td>Integrated Medical Environment Decision Support, IMEDS, Team Workshop, with support from Draper Labs (lunch included)</td>
<td>Franklin Hall 2</td>
</tr>
<tr>
<td>12:00 p.m. - 4:45 p.m.</td>
<td>Research Career Development in Neurocritical Care (lunch included)</td>
<td>Franklin Hall 1</td>
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### TUESDAY, OCTOBER 1

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tr>
<td>6:45 a.m. - 5:30 p.m.</td>
<td>Registration</td>
<td>5th Floor Foyer</td>
</tr>
<tr>
<td>7:00 a.m. - 8:00 a.m.</td>
<td>Breakfast</td>
<td>Franklin Hall</td>
</tr>
<tr>
<td>7:00 a.m. - 8:00 a.m.</td>
<td>Breakfast Symposium: Targeted Temperature Management (TTM)</td>
<td>Salons E</td>
</tr>
<tr>
<td>7:00 a.m. - 4:00 p.m.</td>
<td>Mechanics and Practical Aspects, with support from Bard</td>
<td>Salons E</td>
</tr>
<tr>
<td>7:00 a.m. - 8:00 a.m.</td>
<td>Exhibits</td>
<td>Franklin Hall</td>
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<tr>
<td>8:00 a.m. - 1:00 p.m.</td>
<td>Practice Update</td>
<td>Salons G-H</td>
</tr>
<tr>
<td>8:00 a.m. - 1:00 p.m.</td>
<td>Workshops</td>
<td>Various</td>
</tr>
<tr>
<td>9:45 a.m. - 10:15 a.m.</td>
<td>Break</td>
<td>Franklin Hall</td>
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<tr>
<td>12:00 p.m. - 1:00 p.m.</td>
<td>Lunch</td>
<td>Franklin Hall</td>
</tr>
<tr>
<td>12:00 p.m. - 1:00 p.m.</td>
<td>Satellite Lunch Symposium: The Neurological Pupil index™ (NPi™): An Objective Indicator of CNS Status and Prognosis in Neurosurgical Disorders and in Acute Traumatic Brain Injury with support from NeurOptics</td>
<td>Salons E</td>
</tr>
<tr>
<td>7:00 a.m. - 4:00 p.m.</td>
<td>When I Grow Up I Want to be an Astronaut: Cerebral Physiology in Space</td>
<td>Salons G-H</td>
</tr>
<tr>
<td>7:30 a.m. - 10:00 a.m.</td>
<td>Presidential Address, Annual Business Meeting &amp; Induction of FNCS members</td>
<td>Salons G-H</td>
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<tr>
<td>3:15 p.m. - 4:30 p.m.</td>
<td>Keynote Address</td>
<td>Salons G-H</td>
</tr>
<tr>
<td>4:30 p.m. - 5:30 p.m.</td>
<td>Opening Reception</td>
<td>Franklin Hall</td>
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<tr>
<td>6:30 p.m. - 8:30 p.m.</td>
<td>Satellite Dinner Symposium: New Advancement for Urgent Warfarin Reversal, with support from CSL Behring</td>
<td>Salons E</td>
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### WEDNESDAY, OCTOBER 2

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<td>Registration</td>
<td>5th Floor Foyer</td>
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<tr>
<td>7:00 a.m. - 8:00 a.m.</td>
<td>Breakfast</td>
<td>Franklin Hall</td>
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<tr>
<td>7:00 a.m. - 8:00 a.m.</td>
<td>Breakfast Corners</td>
<td>Various</td>
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<tr>
<td>7:00 a.m. - 4:00 p.m.</td>
<td>Exhibits</td>
<td>Franklin Hall</td>
</tr>
<tr>
<td>8:00 a.m. - 12:00 p.m.</td>
<td>Practice Update</td>
<td>Salons G-H</td>
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<tr>
<td>8:00 a.m. - 12:00 p.m.</td>
<td>Workshops</td>
<td>Various</td>
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<tr>
<td>9:45 a.m. - 10:15 a.m.</td>
<td>Break</td>
<td>Franklin Hall</td>
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<tr>
<td>12:00 p.m. - 1:00 p.m.</td>
<td>Lunch</td>
<td>Franklin Hall</td>
</tr>
<tr>
<td>12:00 p.m. - 1:00 p.m.</td>
<td>Satellite Lunch Symposium Target Temperature Management: The Latest and Coolest with support from Zoll (non-CME)</td>
<td>Salons E</td>
</tr>
<tr>
<td>1:00 p.m. - 2:00 p.m.</td>
<td>Brain Death: Best Practices or Worldwide Variation?</td>
<td>Salons G-H</td>
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<tr>
<td>1:00 p.m. - 5:00 p.m.</td>
<td>Workshops</td>
<td>Various</td>
</tr>
<tr>
<td>2:00 p.m. - 3:00 p.m.</td>
<td>Oral Abstract Session I</td>
<td>Salons G-H</td>
</tr>
<tr>
<td>3:00 p.m. - 3:15 p.m.</td>
<td>Break</td>
<td>Franklin Hall</td>
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<tr>
<td>3:15 p.m. - 5:00 p.m.</td>
<td>Debate Team</td>
<td>Salons G-H</td>
</tr>
<tr>
<td>5:00 p.m. - 6:30 p.m.</td>
<td>Poster Session I</td>
<td>Franklin Hall</td>
</tr>
<tr>
<td>6:30 p.m. - 8:30 p.m.</td>
<td>Satellite Dinner Symposium: Breaking the Light Barrier: New Approaches to Monitoring CBF and Autoregulation, with support from Ornim</td>
<td>Salons E</td>
</tr>
<tr>
<td>9:00 p.m. - 11:00 p.m.</td>
<td>Practical Seminar in Brain Death Diagnosis and Education</td>
<td>Restaurant Thirteen Philadelphia Marriott</td>
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### THURSDAY, OCTOBER 3

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<tr>
<th>Time</th>
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<td>Registration</td>
<td>5th Floor Foyer</td>
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<tr>
<td>7:00 a.m. - 8:00 a.m.</td>
<td>Breakfast</td>
<td>Franklin Hall</td>
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<tr>
<td>7:00 a.m. - 8:00 a.m.</td>
<td>Satellite Breakfast Symposium: Update on Hemodynamic Management in Stroke, with support from The Medicines Company</td>
<td>Salons E</td>
</tr>
<tr>
<td>7:00 a.m. - 4:00 p.m.</td>
<td>Exhibits</td>
<td>Franklin Hall</td>
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<tr>
<td>8:00 a.m. - 12:00 p.m.</td>
<td>Practice Update</td>
<td>Salons G-H</td>
</tr>
<tr>
<td>8:00 a.m. - 12:00 p.m.</td>
<td>Translational Neurocritical Care Science Symposium</td>
<td>Salons E</td>
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<tr>
<td>8:00 a.m. - 12:00 p.m.</td>
<td>Workshops</td>
<td>Various</td>
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<tr>
<td>9:45 a.m. - 10:15 a.m.</td>
<td>Break</td>
<td>Franklin Hall</td>
</tr>
<tr>
<td>12:00 p.m. - 1:00 p.m.</td>
<td>Lunch</td>
<td>Franklin Hall</td>
</tr>
<tr>
<td>12:00 p.m. - 1:00 p.m.</td>
<td>Women in Neurocritical Care Lunch Symposium</td>
<td>Salons E</td>
</tr>
<tr>
<td>1:00 p.m. - 2:00 p.m.</td>
<td>Endovascular Neurocritical Care</td>
<td>Salons G-H</td>
</tr>
<tr>
<td>2:00 p.m. - 3:15 p.m.</td>
<td>Oral Abstract Session II</td>
<td>Salons G-H</td>
</tr>
<tr>
<td>3:15 p.m. - 3:45 p.m.</td>
<td>Break</td>
<td>Franklin Hall</td>
</tr>
<tr>
<td>3:45 p.m. - 5:00 p.m.</td>
<td>Weathering the Storm: Brain Injury &amp; the Autonomic Nervous System</td>
<td>Salons G-H</td>
</tr>
<tr>
<td>5:00 p.m. - 6:30 p.m.</td>
<td>Poster Session II</td>
<td>Franklin Hall</td>
</tr>
<tr>
<td>7:00 p.m. - 12:00 a.m.</td>
<td>Annual Banquet</td>
<td>Hard Rock Café</td>
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### FRIDAY, OCTOBER 4

<table>
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<tr>
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<td>Registration</td>
<td>5th Floor Foyer</td>
</tr>
<tr>
<td>7:00 a.m. - 8:00 a.m.</td>
<td>Breakfast</td>
<td>Franklin Hall</td>
</tr>
<tr>
<td>8:00 a.m. - 9:15 a.m.</td>
<td>Oral Abstract Session III</td>
<td>Salons G-H</td>
</tr>
<tr>
<td>8:00 a.m. - 12:00 p.m.</td>
<td>Workshops</td>
<td>Various</td>
</tr>
<tr>
<td>9:15 a.m. - 10:15 a.m.</td>
<td>The News: Update on Guidelines and Science</td>
<td>Salons G-H</td>
</tr>
<tr>
<td>10:15 a.m. - 10:30 a.m.</td>
<td>Break</td>
<td>Franklin Hall</td>
</tr>
<tr>
<td>10:30 a.m. - 12:00 p.m.</td>
<td>Models of Neurocritical Care: Best Practices or Practical Solutions?</td>
<td>Salons G-H</td>
</tr>
<tr>
<td>12:00 p.m. - 1:00 p.m.</td>
<td>Lunch (on your own)</td>
<td>Franklin Hall</td>
</tr>
<tr>
<td>1:00 p.m. - 5:00 p.m.</td>
<td>ENLS Train The Trainer (separate registration required)</td>
<td>Salons A</td>
</tr>
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</table>
Acknowledgement:
The Neurocritical Care Society gratefully acknowledges support from:
(as of August 2013)

Platinum Level - $50,000
Codman
CSL Behring
Ornim Medical

Gold Level - $25,000
Integra
The Medicines Company
ZOLL Medical Corporation

Silver Level - $15,000
Bard Medical
NeurOptics

Silver Level - $10,000
Draper Labs

Exhibition:
The Neurocritical Care Society welcomes the following 2013 exhibitors! (as of August, 2013)
ABRET
Arbor Pharmaceuticals, LLC
ASET - The Neurodiagnostic Society
Bard Medical
Cadwell Laboratories, Inc.
Cheetah Medical, Inc.
Cincinnati Sub-Zero
Codman Neuro
Compumedics USA, Inc.
Cook Medical
Cornerstone Therapeutics
Covidien - Patient Monitoring
CSL Behring
Draper Labs
DWL USA, Inc.
Edge Therapeutics, Inc.
Elsevier, Inc.
ENLS
Hemedex Inc.
Hospira
Innerspace Neuro, Inc.
Integra
InTouch Health
Jan Medical
Jefferson University
M Dialysis
Moberg - CNS Technology
Natus Neurology Incorporated
NeuMedx
NeuroLogica
NeurOptics
Nihon Kohden America
Ornim
Otsuka America Pharmaceutical, Inc.
Persyst Development Corporation
Philips InnerCool
Pulsion Medical
Raumedic, Inc.
Rhythmlink International, LLC
RosmanSearch, Inc.
Springer Science & Business Media
UCR, Inc.
ZOLL Medical Corporation

Endorsements
The following organizations endorse the Neurocritical Care Society 11th Annual Meeting:

2013 Annual Meeting Committee
J. Claude Hemphill, III, MD, Chair
J. Javier Provencio, MD, Chair, Scientific Subcommittee
Kevin Sheth, MD, Co-Chair, Scientific Subcommittee
Arash Afshinnik, MD
Gary L. Bernardini, PhD, MD, Co-Chair, Practice Update
Guadalupe Castillo-Abrego, MD
Gail Pyne-Gethman, Dphil
Romer Geocadin, MD
Josh Goldstein, MD, Co-Chair, Workshops
David Greer, MD, Co-Chair, Practice Update
Theresa Human, PharmD
Michael L. “Luke” James, MD
Geoffrey Ling, MD, PhD
Sarah Livesay, MSN
continued
Harish H.K. Murthy, MD
Mauro Oddo, MD
DaiWai Olson, PhD, RN, CCNR
Venkatakrishna Rajaje, MD
Fred Rincon, MD, MSc
Anthony Shaun Rowe, PharmD
David B. Seder, MD, Co-Chair, Workshops
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J. Christopher Zacko, MD

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continued
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Stephan A. Mayer, MD, FCCM
Mohammed Fazlur Rehman, MD
Denise Rhoney, PharmD, FCCP, FCCM
Michael Schneck, MD
Gene Sung, MD
Paul Vespa, MD
Wow - Check out the 2013 NCS Workshop Series!

The Neurocritical Care Society Workshop series is unique – a reasonably-priced, multispecialty, multidisciplinary approach to continuing medical education. The faculty includes some of the leading experts and educators in neurocritical care, and workshop sessions are intensive with a case-based and pragmatic approach. There is something here for everyone!

Every person attending the annual meeting should plan to participate in a workshop. These will provide participants with more than their money’s worth in education. Once again, our goal is to give away the secrets of neurocritical care – so that you can use them to help patients, advance your career, and build a program that suits and improves your hospital.

Neurocritical Care Pharmacology

Wednesday, October 2  •  8:00 a.m. - 12:00 p.m.

Director: Theresa Human, PharmD, BCPP
Faculty: Christine Lesch, PharmD, BCPS
John J. Lewin III, PharmD, MBA, FASHP
R. Loch MacDonald, MD, PhD, F.A.C.S., F.C.C.N., FAANS,
FACS, Alejandro A. Rabinstein, MD

Designed to cover the hottest topics in neurocritical care pharmacotherapy today! Experts will discuss the role of NSAIDs in neuro-ICU fever control, pharmacologic treatment of refractory vasospasm, delirium in the neurologically injured patient, intravenous medication administration, and pharmacologic treatment of dysautonomia after severe traumatic brain injury. Case-based, small-group discussions will highlight controversies and areas of interest.

Neurocritical Care Ultrasound

8:00 a.m. - 12:00 p.m. & 1:00 p.m. - 5:00 p.m.

Directors: Jordi Bonomo, MD & Venkatakrishna Rajajee, MD, MBBS

Wednesday, October 2

This is the critical care skill you should always want but didn’t have time to learn! Critical care ultrasound is quickly becoming a required skill in the ICU. The workshop consists of didactic teaching and hands-on stations covering the fundamentals of critical care echocardiography, lung ultrasound, assessment of volume status, detection of lower limb DVTs, and optic nerve sonography for the detection of raised intracranial pressure. Come learn this and more…

Neuroendovascular Workshop

Thursday, October 3  •  8:00 a.m. - 12:00 p.m.

Directors: Michael Stiefel, MD, PhD & Robert Taylor, MD

Not sure how to optimize peri-endovascular care? This workshop is intended to instruct clinicians on best critical care practices for the endovascular patient. We begin with an intensive review of the scope of neuroendovascular practice in 2013, including types of procedures, indications and contraindications, new technology, routine post-procedure ICU care, complications, and management. We will also cover acute endovascular decision-making in stroke and SAH, discuss stenting, and describe optimal standards of critical care in the INR suite itself.

Neuroimaging for the Non Neurologist

Friday, October 4  •  8:00 a.m. - 12:00 p.m.

Director: Christopher Horn, MD
Faculty: Samuel K. Trappidi, MD, Vishal Patel, MD, Benjamin Atkinson, MD

Isn’t it time you were taught how to read neuroimaging? This workshop promises intensive instruction on fundamentals of neuroimaging and contemporary principles of CT, MRI, cerebral angiography, then develop and hone your skills with clinical cases and real-world scenarios. Topics will include acute ischemic stroke, subarachnoid hemorrhage, intracerebral hemorrhage, and trauma.

Neurovascular Ultrasound

Wednesday, October 2  •  1:00 p.m. - 5:00 p.m.

Director: Arthur Lam, MD
Faculty: David McDonagh MD, Andrei Alexandrov, MD

An intensive introduction to transcranial Doppler (TCD), transcranial color-coded sonography (TCCS), and carotid ultrasound. A didactic session will cover neurovascular ultrasound basics, and attendees will then rotate through stations where they will perform hands-on ultrasound or use US data to manage clinical scenarios such as stroke, subarachnoid hemorrhage, and vasospasm.

Surviving TBI

Wednesday, October 2  •  8:00 a.m. - 12:00 p.m.

Director: Claudia Robertson, MD
Faculty: Galen Henderson, MD, Lori Shutter, MD, FCCM, Diana Goodman, MD

Maximizing survival from traumatic brain injury with expert clinicians. We will review recent advances in the care of patients starting in the prehospital period and following through rehabilitation. Small groups will follow didactic sessions, and hands-on cases, working to develop multidisciplinary treatment plans emphasizing prehospital, emergency room, and early hospital care, indications for anticonvulsant therapy, prognostication, end-of-life issues, and rehabilitation.

WORKSHOPS

Thrive through the week-long program in the workshop sessions that are perfect for your needs:

Advanced ICU Hemodynamics

Thursday, October 3  •  8:00 a.m. - 12:00 p.m.

Director: William McGee, MD, MHA
Faculty: Chris Junker, MD, Kiwon Lee, MD, FACP, FAHA, FCCM, Joseph Melzter, MD

Want to optimize cerebral blood flow? Hemodynamics can be manipulated to improve outcomes in neurocritical care, and the technology is evolving rapidly. The workshop will focus on the area of hemodynamic management in TBI, SAH, vasospasm, and acute lung injury/ARDS. The workshop will also cover hemodynamic management of the organ donor, which has been shown to increase organ yield. Small group sessions will focus on use of the various technologies and data interpretation. The emphasis will be on pulse contour analysis technology which is ideal for this population and an overview of basic ECHO techniques that are essential for practicing neuro-intensivists. Interpretation of right heart catheter data will also be covered. Our workshop will include description and use of the “physiologic optimization program” through real case interactive simulation sessions to emphasize the course content. Attendees will be able to track both the cases and the principles of physiologic optimization back to their units to train staff on the essentials.

Development of a De Novo Neuro-ICU

Tuesday, October 1  •  8:00 a.m. - 12:00 p.m.

Director: Owen Samuels, MD
Faculty: Bradford Thompson, MD, Krista Garner, MD

Explore all aspects of developing a neurocritical care program, from ICU design to technology needs assessment, staffing and staff development, creating a business plan, political obstacles and opportunities, and training. The workshop will cover the range of hospital resources, from money-is-no-object to non-financial-resources-at-all. Attendees will be taught by experts, and will have the opportunity to discuss their own situations and concerns with the faculty.

Difficult Mechanical Ventilation

Friday, October 4  •  8:00 a.m. - 12:00 p.m.

Director: Patrick Mailloux, DO, MD
Faculty: Brian G. Lee, MD, Richard Riker, MD, Amber Rollstin, MD, Jeffrey M Singh, MD, MSc, FRCP

Develop confidence and expertise in the mechanical ventilation of patients with neurological diseases through a combination of case-based scenarios and interactive sessions. Improve your neuromonitoring problems and difficult ventilation challenges encountered routinely in the ICU, with an emphasis on problems specific to Neurocritical Care. Hands-on the ventilators!

Essentials of Neurocritical Care

Friday, October 4  •  8:00 a.m. - 12:00 p.m.

Directors: Thomas Bleck, MD, FCCM & Cherylee Chang, MD

Faculty: Katherine Johnson, MS, Matthew Koenig, MD

Weed good shoes, because past NCS Presidents Tom Bleck and Cherylee Chang with Kathy Johnson, RN, will cover a lot of ground in this intensive fundamentals course! Basic neuroanatomy and EEG essentials, management of ICP and brain hemiation, effects of common ICU interventions on cerebral blood flow, neuromuscular emergencies in the ICU, rating scales (GCS, FOUR, Hunt and Hess, WFNs, Fisher and modifications, NIHSS, ICH, Rankin, Barthel, etc.), anticonvulsant drugs, adverse neurologic effects of common ICU drugs, and iatrogenic disturbances. Whether you or your patients will be on the up side, the basics, whether you’re a physician, nurse, midlevel provider, or any other care provider.

Intracranial Monitoring

Tuesday, October 1  •  8:00 a.m. - 12:00 p.m.

Director: Kristine O’Phelan, MD
Faculty: Benjamin Emanuel, DO, Amedeo Merenda, MD, Tracey Berlin, MSN-Ed, RN, CCRN, CNRN, Vince Loh, MD

A hands-on workshop in which you will learn and practice basic techniques for the insertion, management, troubleshooting, data interpretation, and removal of intracranial monitoring devises! Includes ventricular catherization, intraparenchymal ICP, brain tissue oxygen, cerebral blood flow monitoring, and cerebral microdialysis technologies.

Neurocritical Care Airway

Tuesday, October 1  •  8:00 a.m. - 12:00 p.m.

Directors: W. Andreas Kofke, MD & Seth Manoach, MD
Faculty: Benjamin Scott, MD, Chimala Macindoe, MD, Arthur Lam, MD, Joshua Atkins, MD, PhD

The course is run off-site at a state-of-the-art simulation facility at the University of Pennsylvania. The NCC Airway course is designed to improve medical knowledge and procedural skills in airway management, emphasizing problems unique to Neurocritical Care. Learn airway assessment, intubation principles, the difficult airway algorithm, and the pharmacology of urgent neurocritical care intubation; practice ventilation and fundamental intubation skills; handle tracheostomies, LMAs, and larynx adjuncts. Small groups, modern facilities, dynamic faculty, and a unique approach make this a session you won’t want to miss!
MEETING SCHEDULE

11TH ANNUAL NCS

PRE-MEETING ACTIVITIES
SUNDAY, SEPTEMBER 29

8:00 - 5:00
International Consensus Conference on Multimodality Monitoring

Chairs: Peter Le Roux, MD and David Menon, MD
Co-Chairs: Paul Vespa, MD and Giuseppe Citerio, MD

This will take place in the Junipers room at the Courtyard Marriott, located at 21 N. Juniper Street, Philadelphia.

MONDAY, SEPTEMBER 30

8:00 - 12:00
International Consensus Conference on Multimodality Monitoring

Chairs: Peter Le Roux, MD and David Menon, MD
Co-Chairs: Paul Vespa, MD, and Giuseppe Citerio, MD

This will take place in the Junipers room at the Courtyard Marriott, located at 21 N. Juniper Street, Philadelphia.

12:00 - 5:00
Integrated Medical Environment Decision Support, IMEDS, Team Workshop, with support from Draper Labs

12:00 - 4:45
Research Career Development in Neurocritical Care

Co-Chairs: Jonathan Rosand, MD and Kevin Sheth, MD

NCS 11TH ANNUAL MEETING
TUESDAY, OCTOBER 1

7:00 - 8:00
Breakfast

7:00 - 4:00
Exhibits

7:00 - 8:00
Breakfast Symposium: Targeted Temperature Management (TTM): Mechanisms and Practical Aspects, with support from Bard (Non-CME)

This course will review the underlying mechanisms and physiological effects for patient management. Special considerations during Targeted Temperature Management (TTM) like thermoregulatory defense mechanisms will also be discussed and implementing a program in the hospital system.

Speaker: Neeraj Badjatia, MD, Department of Neurology University of Maryland School of Medicine, Baltimore, MD

8:00 - 12:00
Various Workshops (See schedule on pg. 9)

8:00 - 9:45
Practice Update

Moderator: Gary Bernardini, MD, PhD

8:00 - 8:25
Acute Ischemic Stroke

Nerissa Ko, MD, MAS

8:25 - 8:50
Intracerebral Hemorrhage

Thorsten Steiner, MD

8:50 - 9:20
Aneurysmal Subarachnoid Hemorrhage

Adam Webb, MD

9:20 - 9:45
Status Epilepticus

Jan Claassen, MD, PhD

9:45 - 10:15
Break

10:15 - 12:00
Practice Update

Moderator: Harish Murthy, MD

10:15 - 10:40
Non-neurologic Trauma

Deborah Stein, MD, MPH

10:40 - 11:05
Mechanical Ventilation in the Neurocritical Care Unit

Julian Boesel, MD

11:05 - 11:35
Sedation & Analgesia in Neurocritical Care

Marek Mrskis, MD, PhD

11:35 - 12:00
Nutrition in the Neurocritical Care Unit

Neeraj Badjatia, MD

12:00 - 1:00
Lunch

12:00 - 1:00
Satellite Lunch Symposium

The Neurological Pupil index™ (NPi™): An Objective Indicator of CNS Status and Prognosis in Neurosurgical Disorders and in Acute Traumatic Brain Injury with support from NeurOptics (non-CME)

This session will present results from the latest clinical studies using the Neurological Pupil index™ (NPi™) and automated pupillometry. The first presentation will discuss how well the NPi™ can predict TBI patient outcome in the Emergency Department setting and how it relates to CT scan results, the need for neurosurgical intervention and other factors. The second presentation will show quantitatively how NPi™ changes under various neurological conditions that affect CN III (e.g., trauma, brain tumor, stroke, etc.) both acutely and long term.

1:00 - 2:45
When I Grow Up I Want to be an Astronaut: Cerebral Physiology in Space

Moderators: Jose Suarez, MD & Kevin Sheth, MD

1:00 - 1:20
Stressors and brain behavior in long-duration spaceflight

Jonathan Clark, MD

1:20 - 1:45
Visual Impairments Associated with Elevated ICP in Astronauts

Christian Otto, MD, MSc

1:45 - 2:10
Non-invasive Technologies to Assess ICP during Space

Eric Bershad, MD

2:10 - 2:30
Research (and Funding) to Safeguard Brain Health in Astronauts

Donat Donaviol, PhD

2:30 - 2:45
Q&A: Future Implications and Applications to Earth Dwellers

2:45 - 3:15
Break

3:15 - 4:30
Presidential Address, Society Business Meeting and Induction of FNCS Awardes

4:30 - 5:15
Keynote Address: Space to Earth: the Physiology of Jumping from the Stratosphere

Jonathan Clark, MD

5:15 - 6:30
Opening Reception

6:30 - 8:30
Satellite Dinner Symposium

New Advancement for Urgent Warfarin Reversal with support from CSL Behring (non-CME)

Speaker: Stephan A. Mayer, MD

8:30 - 10:00
Future NCS Leaders Forum

The NCS Future Leaders Forum is an informal gathering of the NCS Advocacy Committee, leaders from the NCS including presidents and past presidents, as well as NCS Executive staff. The goals of this forum are to provide networking among this group, gather feedback and generate ideas from NCS members about crucial issues pertinent to the future of the neurocritical care specialty and to help create a structured NCS Advocacy and Leadership Training course in 2014.

WEDNESDAY, OCTOBER 2

7:00 - 8:00
Breakfast

7:00 - 4:00
Exhibits

8:00 - 12:00
Special Interest Group Breakfast Corners

Fellowship Directors: David McDonagh, MD and Joao Gomes, MD - 401

ICU Directors: Kevin Sheth, MD - Salon B

International Members: Julian Boesel, MD - Salon C

Neurohospitalists: Scott Breihart, MD - 402

Nurses: Cindy Bautista, PhD, RN, CNRN, CCNS, ACNS-BC - Salon D

Pharmacists: Theresa Human, Pharm D, BCPS - 403

Residents and Fellows: Matthew Vibbert, MD, MD - Salon A

Allied Health Providers: Robert Blessing - 407

Non-Neurologist Neurointensivists: M Kamran Athar, MD - 408

8:00 - 12:00
Various Workshops (See schedule on pg. 9)

8:00 - 9:45
Practice Update

Moderator: Guadalupe Castillo-Abrego, MD

8:00 - 8:30
Traumatic Brain Injury

Jas Levine, MD

8:30 - 8:55
Traumatic Spinal Cord Injury

William Coplin, MD

8:55 - 9:20
Multimodality Neuromonitoring

Mauro Oddo, MD

9:20 - 9:45
Perioperative Neurosurgical Critical Care

J. Christopher Zacko, MS, MD

9:45 - 10:15
Break

10:15 - 12:00
Practice Update

Moderator: David Greer, MD, MA, FCCM, FAHA

10:15 - 10:40
Neuromuscular Diseases

Alejandro Rubinstein, MD

10:40 - 11:05
Neuroinfectious Diseases

Eric Rosenthal, MD

11:05 - 11:35
Pediatric Neurocritical Care Special Considerations

Jose Pineda, MD, MSc

11:35 - 12:00
Cardiovascular Monitoring & Complications

Jesse Corry, MD

12:00 - 1:00
Lunch

12:00 - 1:00
Satellite Lunch Symposium

Target Temperature Management: The Latest and Coolest with support from Zoll (non-CME)

The purpose of this symposium is to present the latest and the ‘coolest’ in this ancient yet ground-breaking therapy. Specifically, we will discuss what the role of therapeutic hypothermia in patients with cardiac arrest due to nonshockable rhythms (pulseless electrical activity (PEA) and asystole) and in patients with acute neurological injuries for neuroprotection.

Speaker: Ranier Kollmar, MD

1:00 - 5:00
Various Workshops (See schedule on pg. 9)

1:00 - 2:00
Brain Death: Best Practices or Worldwide Variation?

Moderator: Fernando Goldberg, MD

1:00 - 1:20
Worldwide Variation in the Concept of Brain Death

Giuseppe Citerio, MD

1:20 - 1:40
The Science of Brain Death

Eelco Wijdicks, MD, PhD

1:40 - 2:00
The Brain Death Toolkit: NCS Initiatives

Jeffrey Frank, MD

2:00 - 3:00
Oral Abstract Session I

3:00 - 3:15
Break

3:15 - 5:00
DEBATE TEAM

Judges:

Matthew Koening, MD

DaiWai Olson, PhD, RN, CCRN

J. Javier Provencia, MD

Kevin Sheth, MD

Panos Varelas, MD, PhD
Various Workshops
8:00 - 12:00
Translational Neurocritical Care Science Symposium
Moderators: J. Javier Provencio, MD & Kevin Sheth, MD
8:00 - 8:30
Bilirubin oxidation as an instigator of inflammation after SAH
Gail Pyne-Gethman, D.Phil.
8:30 - 8:55
The role of iron in inflammation, the Deferoxamine story
Joao Games, MD
8:55 - 9:20
Inflammation in ICH
Michael “Luke” James, MD
Translational Neurocritical Care Science Symposium (continued)
9:20 - 9:45
Inflammation, edema, and novel pathways for injury in ischemia and trauma
J. Marc Simard, MD, PhD
9:45 - 10:15
Break
10:15 - 10:45
Neurovascular unit, MMP’s, progenitor cells
Eng Lo, PhD
10:45 - 11:10
Albumin as a neurovascular protectant in SAH
Jose Suarez, MD
11:10 - 11:35
Metabolomics and Novel Biomarkers for Acute Brain Injury
W. Taylor Kimberly, MD, PhD
11:35 - 12:00
The NIH BRAIN Initiative
Geoffrey Ling, MD, PhD

11:10 - 11:35
Hypoxic-Ischemic Encephalopathy
Romer Geocadin, MD
11:35 - 12:00
Rare Conditions Encountered in the Neurocritical Care Unit
Tamer Abdelhalik, MD

12:00 - 1:00
Lunch
12:00 - 1:00
WINCC Lunch Session: Mentoring Women in Medicine

1:00 - 2:00
Endovascular Neurocritical Care
Wengui Yu, MD, PhD
1:00 - 1:20
It Starts in the ED: Triage to Endovascular?
William Knight, MD
1:20 - 1:40
The Science of Neuroanesthesia in Endovascular Stroke Care
David McDonagh, MD
1:40 - 2:00
Acute Endovascular Treatment: Beyond Ischemic Stroke
Dileep Yavagal, MD, MBBS
2:00 - 3:15
Oral Abstract Session II
3:15 - 3:45
Break
3:45 - 5:00
MEMBERS SUBMITTED SESSION: Weathering the Storm: Brain Injury & the Autonomic Nervous System
Moderator: Ines Koerner, MD, PhD
3:45 - 4:10
Cardiomyopathy & Neurogenic Pulmonary Edema: Sympathetics on Overdrive?
Ines Koerner, MD, PhD
4:10 - 4:35
Immunomodulation after Acute Brain Injury: the New Sympathetic Pathway
Holly Hinson, MD
4:35 - 5:00
Treating Paroxysmal Sympathetic Hyperactivity after Acute Brain Injury
Soojin Park, MD
5:00 - 6:30
Poster Session II

THURSDAY, OCTOBER 3

7:00 - 8:00
Breakfast
7:00 - 4:00
Exhibits
7:00 - 8:00
Satellite Breakfast Symposium: Update on Hemodynamic Management in Stroke, with support from The Medicines Company (Non-CME)
8:00 - 12:00
Various Workshops (See schedule on pg. 9)

8:00 - 9:45
Practice Update
Moderator: Imo Aisiku, MD
8:00 - 8:25
Neuropsychiatric Update
Anthony Shaun Rowe, PharmD
8:25 - 8:55
Neurocritical Care Nursing Special Considerations
Jennifer Robinson, NP
8:55 - 9:20
Quality of Care Metrics in Neurocritical Care
Michelle VanDemark, CNP
9:20 - 9:45
Prognostic Assessment in Neurocritical Care
Gary Bernardini, MD, PhD
9:45 - 10:15
Break
10:15 - 12:00
Practice Update
Moderator: Scott Glickman, DO, PhD, MPH
10:15 - 10:45
Clinical Evaluation of Coma and Brain Death
David Greer, MD, MA, FCCM, FAHA
10:45 - 11:10
Metabolic Encephalopathies and Delirium
Panos Varelas, MD, PhD

10:45 - 11:15
The Deferoximine story
The role of iron in inflammation, edema, and novel pathways for injury in ischemia and trauma
J. Marc Simard, MD, PhD
11:10 - 11:35
Metabolomics and Novel Biomarkers for Acute Brain Injury
W. Taylor Kimberly, MD, PhD
11:35 - 12:00
The NIH BRAIN Initiative
Geoffrey Ling, MD, PhD
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<tr>
<th>Name</th>
<th>University/Affiliation</th>
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<td>Robert Blessing</td>
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## WORKSHOP SCHEDULE

<table>
<thead>
<tr>
<th>Time</th>
<th>Salon A</th>
<th>Salon B</th>
<th>Salon C</th>
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</thead>
<tbody>
<tr>
<td><strong>Tuesday, October 1</strong></td>
<td>Continuous EEG</td>
<td>Development of a De Novo Neuro-ICU</td>
<td>Neurocritical Care Pharmacology</td>
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<tr>
<td></td>
<td>Salon A</td>
<td>ICU-Salon B</td>
<td>Pharmacology Salon A</td>
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<td>Neurocritical Care Ultrasound</td>
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<td>Ultrasound Salon B</td>
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<td>Intracranial Monitoring Salon C</td>
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<tr>
<td><strong>1:00 PM to 5:00 PM</strong></td>
<td>Neurocritical Care Airway SIM Center</td>
<td>Surviving TBI Salon C</td>
<td>Neurocritical Care Ultrasound</td>
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<td>Neurovascular Workshops Salon A</td>
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<td>Current and Future Practice of Targeted</td>
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<td>Temperature Management Salon C</td>
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<tr>
<td><strong>Wednesday, October 2</strong></td>
<td>Neurocritical Care Ultrasound</td>
<td>Bronchoscopy and Pleural Procedures</td>
<td>Neuroendovascular Workshop Salon A</td>
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<td>Salon B</td>
<td>Salon B</td>
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<tr>
<td><strong>Thursday, October 3</strong></td>
<td>Advanced ICU Hemodynamics</td>
<td>Essentials of Neurocritical Care</td>
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<td>Salon C</td>
<td>Salon A</td>
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<tr>
<td><strong>Friday, October 4</strong></td>
<td>Difficult Mechanical Ventilation</td>
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<tr>
<td></td>
<td>Salon C</td>
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</tbody>
</table>

**NOTE:**
- **Continuous EEG:** Salon A
- **Development of a De Novo Neuro-ICU:** ICU-Salon B
- **Intracranial Monitoring:** Salon C
- **Neurocritical Care Airway:** SIM Center
- **Surviving TBI:** Salon C
- **Neurovascular Ultrasound:** Salon A
- **Current and Future Practice of Targeted Temperature Management:** Salon C

**SIGN UP FOR A WORKSHOP TODAY!**
Disclaimer
The information is provided for general medical education purposes only and is not meant to substitute for the independent medical judgment of a physician relative to diagnostic and treatment options of a specific patient’s medical condition. In no event will the Neurocritical Care Society be liable for any decision made or action taken in reliance upon the information provided through this activity.

Meeting Location
Philadelphia Marriott Downtown
1201 Market St
Philadelphia, PA 19107
Telephone: (215) 625-2900
Website: http://www.marriott.com/hotels/travel/phldt-philadelphia-marriott-downtown/

Annual Meeting Registration
The NCS registration desk will be located on the 5th level of the Philadelphia Marriott Downtown in front of the Salon Ballrooms. The registration desk will be open during the following dates and times.

Sunday, September 29  4:00 p.m. - 8:00 p.m.
Monday, September 30  9:30 a.m. - 6:00 p.m.
Tuesday, October 1   6:45 a.m. - 5:30 p.m.
Wednesday, October 2  6:45 a.m. - 5:30 p.m.
Thursday, October 3  6:45 a.m. - 5:30 p.m.
Friday, October 4  6:45 a.m. - 12:00 p.m.

Registration Cancellation Policy
All cancellations received on or before September 6, 2013, are subject to a $50 cancellation fee. Written notification of your cancellation is required in order to process your refund. No refunds will be issued after September 6, 2013.

Exhibit & Poster Hall
This year’s exhibit & poster hall will be located on the 4th level of the Philadelphia Marriott Downtown in the Franklin Hall. All breakfasts, refreshment breaks and lunches will be in the exhibit hall. Be sure to visit this year’s exhibitors during the following dates and times and join them on Tuesday evening for the Opening Reception!

Tuesday, October 1  7:00 a.m. - 4:00 p.m. & 5:15 p.m. - 6:30 p.m.
Wednesday, October 2  7:00 a.m. - 4:00 p.m.
Thursday, October 3  7:00 a.m. - 4:00 p.m.

Speaker Ready Room:
The Speaker Ready Room is located in Room 502 on Level 5 of the Philadelphia Marriott Downtown, near registration.
Hours of Operation:
Monday, September 30   7:00 a.m. - 6:00 p.m.
Tuesday, October 1    6:30 a.m. - 5:30 p.m.
Wednesday, October 2  6:30 a.m. - 5:30 p.m.
Thursday, October 3  6:30 a.m. - 5:30 p.m.

*Please note: if you have speaker ready room needs on Friday, October 4th, PSAV will have a staffed desk set up near registration

Attire
The attire for the Annual Meeting is business casual.
Attire for the banquet is casual.

Climate
The average temperature in Philadelphia in October is 70 degrees Fahrenheit and mostly sunny.

Membership
To join the Neurocritical Care Society, please visit www.neurocriticalcare.org and click on “Join NCS”. Membership benefits include the Neurocritical Care journal subscription, discounted Annual Meeting rates, access to the members’ only discussion forum, and networking opportunities.

Accreditation
Physicians
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 Ciné-Méd and Neurocritical Care Society. Ciné-Méd is accredited by the ACCME to provide continuing medical education for physicians. Ciné-Méd designates this live activity for a maximum of 38 AMA PRA Category 1 Credit(s) ™. Physicians should only claim credit commensurate with the extent of their participation in the activity.

Pharmacists
Ciné-Méd is accredited by the Accreditation Council for Pharmacy Education as a provider of continuing pharmacy education. This program has been accredited for 0.35 CEUs (38 contact hours) of continuing education credit. ACPE Universal Number: 399-999-13-001-L01-P.

Nurses
Ciné-Méd is accredited as a provider of continuing nursing education by the American Nurses Credentialing Center’s Commission on Accreditation. This educational activity is approved for 38 contact hours for nurses.

This activity is designed to address the following ABMS / IOM competencies:
- Patient care or patient-centered care
- System-based practice
- Medical knowledge
- Interdisciplinary teams
- Practice-based learning and improvement
- Quality improvement
- Interpersonal and communication skills
- Utilize informatics
- Professionalism
- Employ evidence-based practice
New Advancement for Urgent Warfarin Reversal: A Scientific Symposium

Tuesday, October 1, 2013

PROGRAM OVERVIEW
This symposium will provide information on a new advancement for the urgent reversal of warfarin in patients with acute major bleeding.

SPEAKER
STEPHAN A. MAYER, MD
Professor of Neurology and Neurological Surgery
Columbia University
New York, NY

AGENDA
Registration & Dinner: 6:30 PM to 7:00 PM
Symposium: 7:00 PM to 8:30 PM

LOCATION
Salon E, 5th Floor
Philadelphia Marriott Downtown

Dinner will be provided.
Since space is limited, we encourage you to arrive early to ensure seating.
In accordance with the PhRMA Code on Interactions with Healthcare Professionals, attendance at this educational program is limited to healthcare professionals only. We ask that all healthcare professionals abide by all relevant state and institutional restrictions on attending off-site, company-sponsored meals. Due to state regulations, the featured meal may not be provided to healthcare professionals licensed in Minnesota or Vermont, or those who are employed by the states of Colorado or Louisiana. No continuing education credits will be offered. The Neurocritical Care Society (NCS) was not involved in the planning of the content for this symposium.

Visit CSL Behring at Booth #2 and #3

New Advancement for Urgent Warfarin Reversal:
A Scientific Symposium

To be held at the 11th annual NCS Conference, on Wednesday, October 2nd (6:30 – 9:00pm), Marriot Hotel Downtown (Salon E), Philadelphia, PA.
This is a Non-CME activity

Speakers:
Wade Smith MD, PhD
Blood Flow to the Brain: Why it is Important and Why We Need to Monitor It

Howard Yonas, MD
CBF, the most important clinical variable after CPP

Andrew Kofke, MD, MBA, FCCM
What I have and what I need in my ICU

Stephan A. Mayer, MD, FCCM
Advanced monitoring of the hypoxic-ischemic brain

John Murkin, MD
CBF & Autoregulation during cardiac bypass

Visit Ornim at Booth #29
The content of this session was not planned by NCS

Ornim, Inc. provides physicians with the most advanced monitoring tools to help direct safe and decisive patient care when the perfusion of vital tissue is at stake. Ornim has two monitors on the market; the c-FLOW Non-invasive blood flow monitor, which is a stand-alone unit; and the CerOx Research Module Monitor which is the only devices enabling simultaneous, non-invasive measurement of blood flow and oxygen saturation. The combination of these parameters is key to understand perfusion, helping direct treatment and lower the cost of patient care. With over 400 monitored patients in 15 medical centers worldwide, Ornim is pushing the envelope in new cerebral monitoring technology.
NCS has convened an international group of experts from multiple medical societies for a one-and-a-half day conference in order to present the scientific evidence to address Multimodality Monitoring in neurocritical care patients. The goal of the conference is to critically review a process-based approach for the use of Multimodality Monitoring and to develop and publish an evidence-based consensus statement to provide additional guidance to practitioners in the management of these patients. This session is being opened to up to 40 attendees in order to observe the process. These attendees will have the opportunity to submit questions in advance and be part of the organized Q/A portion of the session. Fee is $195 and includes 2 breakfasts and lunch.

Integrated Medical Environment Decision Support, IMEDS, Team Workshop, with support from Draper Labs
Monday, September 30, 12:00 p.m. – 5:00 p.m.
Caregivers need to understand the data and its implications in order to make the best choices about treatment. IMEDS™ is a nation-wide non-profit consortium of leading clinicians and engineers working side by side to develop the capability to synchronize, integrate, and process medical data from diverse sources, distill the results into relevant and clinically actionable information, and effectively communicate this information to clinicians in real-time at the bedside. This will be a working session for members of the IMEDS informatics consortium. Guests are invited. Come participate and learn more about neurocritical care informatics and decision support. Lunch is provided. There is no fee; separate sign up is required.

Research Career Development in Neurocritical Care
Monday, September 30, 12:00 p.m. – 4:45 p.m.
The Neurocritical Care Society Career Development Symposium has been specifically designed for young neurointensivists who aspire to become leading researchers in our field. The central goal of this forum is to provide participants with the tools essential to develop a successful NIH or other early career development award application. Sessions are led by senior investigators with a track record of successful funding and mentorship and will focus on specific proposals as well as overall strategies. Lunch will be included and registration is limited to 40. Please visit the following link to apply for complimentary registration:
http://www.surveymonkey.com/s/ncsresearchapp

POST-MEETING:

ENLS Train The Trainer
Friday, October 4, 1:00 p.m. – 5:00 p.m.
NCS will offer the first ENLS train-the-trainer course. Eligible applicants are NCS members who have certified in ENLS and are willing to learn effective methods to teach ENLS to broad audiences. Following the model of ENLS training, participants will certify in ENLS training techniques by passing an online module following this half-day course. With this training, applicants will be able to (a) demonstrate facility in presenting the various ENLS topics using slides and/or interactive methods, (b) explain and demonstrate the steps required to become certified in ENLS, (c) present the goals of ENLS and its history of development, (d) explain how users of ENLS can provide feedback to help improve the protocols. NCS requires that teachers of ENLS have trainer certification. Enrollment is limited, so sign up now. Fee is $75, lunch is not included.

TAKE THE ENLS COURSE ONLINE.

Emergency Neurological Life Support (ENLS) is designed to help healthcare professionals improve patient care and outcomes during the most crucial time - the critical first hours of the patient’s neurological emergency. ENLS covers a collaborative, multi-disciplinary approach that outlines a consistent set of protocols, practical checklists, decision points, and suggested communication to use during patient management. Completion of this course provides 15 hours of Level 1 CME credit and ENLS Certification.

ENLS offers:
• Advanced knowledge
• Ability to be up to date/current on advancements in treatment
• Topics that are directly relevant to neurocritical care
• Improved patient care

Topics:
• Acute Non-Traumatic Weakness
• Acute Stroke
• Airway and Ventilation and Sedation
• Coma
• Intracerebral Hemorrhage
• Ischemic Stroke
• Meningitis/Encephalitis
• Resuscitation following Cardiac Arrest
• Spinal Cord Compression
• Status Epilepticus
• Subarachnoid Hemorrhage
• Traumatic Brain Injury
• Traumatic Spine Injury

Sub-Topics:
• Elevated ICP and Herniation
• Glasgow Coma Scale (GCS)
• Hunt Hess Classification of SAH
• World Federation Neurological Scale

Pricing
Physicians
Reside in the US, Group A countries and any country not listed on the International Rate Guide $300
Reside in Group B countries on the International Rate Guide $100

Nurses, Pharmacists, Physicians Assistants & Healthcare Professionals
Reside in the US and countries not listed on the International Rate Guide $150
Reside in Group A and B countries on the International Rate Guide $75

For more information on ENLS including how to register and begin taking the courses, visit:
http://www.neurocriticalcare.org (click on ENLS on the drop down menu)
12th Annual Meeting

Save the Date

2014

Seattle

September 10-14, 2014

1900 5th Avenue Seattle, WA 98101
(206) 728-1000