The Pocket Guide to Neurocritical Care

This book serves as a quick reference guide for management of the most common emergencies and highest-yield topics encountered in neurocritical care. Within each chapter, readers learn about the pathophysiology/etiology, risk factors, work-up, treatment and management principles, disease course and prognostic considerations and differential diagnoses for the disease state.

$40 • $50

Bulk pricing also available.

NCS Podcast Series

This comprehensive series of podcasts consists of interviews with the authors of impactful articles from the Neurocritical Care Journal. Podcasts are released in tandem with the NCS Twitter Journal Club. Together, the NCS Twitter Journal Club and the NCS Podcast Series provide the listener with an in-depth exploration of hot topics in neurocritical care.

FREE

Pharmacotherapy of Neurocritical Care Series (PONS)

The Pharmacotherapy of Neurocritical Care Series (PONS) is a curriculum-based eLearning series comprised of various neuropharmacotherapy topics presented by experts in the field of neurocritical care. PONS can be used as a review for healthcare professionals, to facilitate topic discussions among trainees, to educate trainees, or as a group educational lecture series. Learn more about PONS offerings, including pricing, online at www.neurocriticalcare.org.

NEW! Emergency Neurological Life Support (ENLS) 3.0

ENLS is focused on improving care during the first hours of contact for patients with acute neurological emergencies. Special attention is placed on timely collection of relevant data, which can be communicated effectively to consultants from the emergency department setting. This course is appropriate for practitioners and providers from various backgrounds who work in environments of variable medical complexity.

The ENLS course undergoes a content update once every two years. This new ENLS Version 3.0 includes updated content with three areas of emphasis:

- More directive algorithms and specific information in checklists
- Incorporation of aspects essential to providing nursing care for patients with acute neurological emergencies
- Attention to consistency with published guidelines from the Neurocritical Care Society as well as sister societies involved in emergency and critical care of patients

Pricing:

Pricing information is available online at www.neurocriticalcare.org/ENLS.

Continuing Education:

This activity is designated for a maximum of 15 AMA PRA Category 1 CME, ANCC, ACPE, and CAPCE credit hours.
Aloha and Welcome To Hawaii

On behalf of the Neurocritical Care Society (NCS), the NCS Board of Directors, and the Annual Meeting Committee thank you for joining us!

NCS knows that it takes a village to be successful and that we need all disciplines to work together cohesively to achieve our common goals. In that spirit, we are excited to take this week to come together and celebrate the 15th anniversary of our association, and to bring you innovative education and networking opportunities that will cover a variety of topics at the forefront of neurocritical care, including informatics in neurocritical care, neuromonitoring and translational science. Some educational highlights that you do not want to miss include the debut of ENLS 3.0 on Tuesday afternoon, Wednesday’s keynote presentation from Dr. David Menon from the University of Cambridge, and the Women in Neurocritical Care (WINCC) presentation and networking session on Thursday evening.

The NCS Annual Meeting is more than just education! We encourage you to take advantage of all of our social events and research fundraisers, including the 4th Annual Run for Research, Golf Tournament, and the NCS Soccer Game. Discover the latest product offerings and services within our profession in the Exhibit Hall. Network with colleagues and make new lasting connections all week long. In celebration of our 15th anniversary, we invite you to join us at the end of the week for our closing luau.

We hope you make the most of the NCS Annual Meeting, soaking up all of the cutting-edge scientific and educational programming, while enjoying this beautiful island!

Gretchen M. Brophy, PharmD, BCPS, FCCP, FCCM, FNCS
Vice President, Neurocritical Care Society
15th Annual Meeting Chair

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Download the Official NCS Annual Meeting Mobile App

NCS delivers everything Annual Meeting directly to your fingertips via the 2017 NCS Annual Meeting mobile app. View session descriptions, poster abstracts, speakers and schedule information. Use the interactive maps to navigate the meeting with ease, search the exhibitor directory and stay in-the-know with meeting alerts. Compete in the NCS Mobile App Challenge and you could win great prizes such as an iPad Pro, Apple Watch and more!

On your smartphone or tablet, search for “Neurocritical Care Society” in your app store or direct your mobile browser to www.neurocriticalcare.org/2017mobileapp.

Follow what others are saying or post your own insights on Twitter during the Annual Meeting using #NCS2017.

Download the Mobile App at www.neurocriticalcare.org/2017mobileapp | 3
Conference Information

Registration and Information Desk Hours

Grand Promenade

Monday, Oct. 9 ........................................... 4:00 p.m. – 6:00 p.m.
Tuesday, Oct. 10 ....................................... 6:30 a.m. – 6:00 p.m.
Wednesday, Oct. 11 .................................. 6:00 a.m. – 4:30 p.m.
Thursday, Oct. 12 ................................... 1:00 p.m. – 6:30 p.m.
Friday, Oct. 13 ......................................... 6:30 a.m. – 3:30 p.m.

Poster Presentations

Kona Ballroom

Wednesday, Oct. 11 .................................. 4:30 p.m. – 5:30 p.m.
(Even-numbered posters)
Friday, Oct. 13 ......................................... 4:30 p.m. – 5:30 p.m.
(Odd-numbered posters)

A full listing of all poster presentations can be found in the NCS Mobile App.

Exhibit Hall Hours

Grand Promenade

Tuesday, Oct. 10 ....................................... 4:30 p.m. – 6:00 p.m.
Wednesday, Oct. 11 .................................. 6:00 a.m. – 2:30 p.m.
Thursday, Oct. 12 ................................... 2:00 p.m. – 6:00 p.m.
Friday, Oct. 13 ......................................... 6:30 a.m. – 2:30 p.m.

Speaker Lounge

Waikola 1

Tuesday, Oct. 10 ....................................... 6:30 a.m. – 6:00 p.m.
Wednesday, Oct. 11 .................................. 6:00 a.m. – 4:30 p.m.
Thursday, Oct. 12 ................................... 1:00 p.m. – 6:30 p.m.
Friday, Oct. 13 ......................................... 6:30 a.m. – 2:30 p.m.

Internet

NCS attendees can access wireless Internet in all meeting spaces and common areas in the convention area space. Internet can be accessed by using the network NCS2017. The password is hawaii17.

Presentation Access and Handouts

PDF copies of the Annual Meeting PowerPoint® slides will be available on the NCS OnDemand platform shortly following this year’s Annual Meeting. You may pre-purchase access to these presentations at the NCS Connect Booth.

Lunch

Please note that lunch is not provided as a part of this year’s program. Industry supporters are hosting Lunch Symposia with limited capacity each day. Learn more about the Industry-sponsored Symposia on page 17. There are over 10 food and beverage outlets on property. A guide to local restaurants is also available at the Registration and Information Desk.

NCS Connect Booth

Meeting attendees are invited to visit the NCS Connect Booth, located in the Grand Promenade. Stop by the booth to learn more about becoming an NCS member, NCS educational products, Emergency Neurological Life Support (ENLS), and more!

Hours

Grand Promenade

Monday, Oct. 9 ......................................... 4:00 p.m. – 6:00 p.m.
Tuesday, Oct. 10 ....................................... 6:30 a.m. – 6:00 p.m.
Wednesday, Oct. 11 .................................. 6:00 a.m. – 4:30 p.m.
Thursday, Oct. 12 ................................... 1:00 p.m. – 6:30 p.m.
Friday, Oct. 13 ......................................... 6:30 a.m. – 3:30 p.m.
Target Audience
This activity is designed for physicians, nurses, pharmacists and other healthcare specialists, including residents/fellows, who care for neurocritical care patients.

Learning Objectives
• Explore global differences and evidence gaps in clinical practice and treatment of neurocritical care patients.
• Identify best practice strategies and clinical challenges when caring for neurocritical care patients with status epilepticus, traumatic brain injury, stroke and autoimmune encephalitis.
• Examine ongoing clinical trials, controversies in clinical practice and end-of-life decision-making strategies in the care of patients with neurological injury.
• Determine opportunities to use neuromonitoring, neuroinformatics and quality metrics in the neuroscience ICU to improve quality of care.
• Evaluate global translational research studies and their impact on the care of critically ill encephalitis patients.

Activity Goal
This activity is designed to address the following core and team competencies: Patient Care, Medical Knowledge, Practice-based Learning, System-based Practice, Interdisciplinary Teams, Quality Improvement, Utilize Informatics and Employee evidence-based Practice.

Accreditation
In support of improving patient care, this activity has been planned and implemented by Ciné-Med and the Neurocritical Care Society. Ciné-Med is jointly accredited by the Accreditation Council for Continuing Medical Education (ACCME), the Accreditation Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC) to provide continuing education for the healthcare team.

Physicians
Ciné-Med designates this live activity for a maximum of 35 AMA PRA Category 1 Credit(s)™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Nurses
This educational activity is approved for 35 contact hours for nurses.

Pharmacists
This activity has been accredited for 3.50 CE (35 credit hours) of continuing education credit. ACPE Universal Number: 0399-9999-17-001-L01-P. All other healthcare professionals will receive a Certificate of Participation. For information on the applicability and acceptance of Certificates of Participation for activities designated for AMA PRA Category 1 Credits™, consult your professional licensing board.

Disclosure
Ciné-Med adheres to accreditation requirements regarding industry support of continuing medical education. Disclosure of the planning committee and faculty’s commercial relationships will be made known at the activity. Speakers are required to openly disclose any limitations of data and/or any discussion of any off-label, experimental, or investigational uses of drugs or devices in their presentations. All Ciné-Med employees and activity planners in control of content have indicated that they have no relevant financial relationships to disclose.

Faculty Disclosure Summary
Disclosure information is available to all participants at the Registration Desk.

Non-Endorsement Statement
Ciné-Med verifies that sound education principles have been demonstrated in the development of this educational offering as evidenced by the review of its objectives, teaching plan, faculty, and activity evaluation process. Ciné-Med does not endorse or support the actual opinions or material content as presented by the speaker(s) and/or sponsoring organization.

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.

Claiming Credit
Please visit the following URL to collect your certificate of credit/completion http://cine-med.com/certificates/ncs2017.

Pharmacotherapeutic Content for Nursing
On pages 7-8, presentations noted with an asterisk (*) have been identified by the NCS Planning Committee as meeting the ANCC requirement for Pharmacotherapeutics, totaling 26.5 contact hours.
## Monday, Oct. 9 (Pre-meeting)

**7:00 a.m. – 11:00 a.m.**

**Transcranial Doppler (TCD) Workshop: Part 1**  
Directed by: Andrei Alexandrov, MD  
Kohala 1

**12:00 p.m. – 4:00 p.m.**

**TCD Workshop: Part 2**  
Directed by: Andrei Alexandrov, MD  
Kohala 1

## Tuesday, Oct. 10 (Pre-meeting)

*The morning Professionalism and Leadership session and the industry-sponsored lunches are the only free programming for this day. All other workshops require pre-registration and an additional fee.*

**7:00 a.m. – 11:00 a.m.**

**Professionalism & Leadership Session**  
Directed by: Marion Buckwalter, MD, PhD; Lori Shutter, MD, FCCM, FNCS; Wendy Wright, MD, JM, FCCM, FNCS  
Kona 4

**Practice Update**  
Directed by: Gisele Silva, MD, MPH, PhD; Panayiotis Varelas, MD, PhD, FNCS  
Monarchy

**7:00 a.m. – 4:00 p.m.**

**Emergency Neurological Life Support (ENLS) Course 3.0***  
Directed by: Chad Miller, MD, FNCS; Kristine O’Phelan, MD  
Kona 2

## Morning Workshops

**Critical Care Ultrasound 101**  
Directed by: Aarti Sarwal, MD  
Kings 2

**EEG 101**  
Directed by: Eric Rosenthal, MD  
Kohala 3

**Essential Skills of Running a NeuroICU**  
Directed by: Kristine O’Phelan, MD  
Kona 5

**Intracranial Monitoring**  
Directed by: Joshua Moldow, MD, MS, FAANS, FACS, FNCS, FAHA, FCCM  
Kohala 4

**Neurocritical Care Pharmacotherapy***  
Directed by: Jason Maika, PharmD, MBA, BCPS, BCSCP  
Kona 1

**TCD Workshop: Part 3**  
Directed by: Andrei Alexandrov, MD  
Kohala 1

**Ventilation Management & Bronchoscopy**  
Directed by: Ines Koerner, MD, PhD  
Kings 1

**11:00 a.m. – 12:00 p.m.**

**Industry-sponsored Lunch Symposia**  
Learn more on page 17.

## Professional & Leadership (P&L) Afternoon Sessions (Pre-approved applicants only)

**Session A: Future Leaders Forum**  
Directed by: Wendy Wright, MD, JM, FCCM, FNCS  
Queens 6

**Session B: Research Mentoring Session**  
Directed by: Marion Buckwalter, MD, PhD  
Kona 4

## Tuesday, Oct. 10 (continued)

### Afternoon Workshops

**Advanced Hemodynamics***  
Directed by: Neeraj Badjatia, MD, MSc  
Kings 1

**Advanced Practice Providers***  
Directed by: Susan Yeager, MS, RN, CCRN, ACNP  
Kona 5

**Applied Neuromonitoring**  
Directed by: Sookin Park, MD, FAHA, FNCS  
Kohala 4

**Critical Care Ultrasound 201**  
Directed by: Aarti Sarwal, MD  
Kings 2

**EEG 201**  
Directed by: Brad Kolls, MD, PhD, MMCI  
Kohala 3

**Prognostication, Communication and Shared Decision Making: Palliative Care in the ICU***  
Directed by: David Y. Hwang, MD  
Kona 1

**TCD Workshop: Part 4**  
Directed by: Andrei Alexandrov, MD  
Kohala 1

### 4:00 p.m. – 4:30 p.m.

**Awards Ceremony**  
Monarchy

### 4:30 p.m. – 6:00 p.m.

**Exhibits Open**  
Grand Promenade

**Welcome Reception**  
Sponsored by NeurOptics  
Grand Promenade and Lagoon Lanai

## Wednesday, Oct. 11

**6:00 a.m. – 7:00 a.m.**

**Continental Breakfast**  
Grand Promenade

**Industry-sponsored Breakfast Symposia**  
Learn more on page 17.

### 6:00 a.m. – 2:30 p.m.

**Exhibits Open**  
Grand Promenade

### 7:00 a.m. – 8:30 a.m.

**Guidelines Update***  
Monarchy

**Treatment Approaches to Status Epilepticus and Autoimmune Encephalitis***  
Queens

### 8:30 a.m. – 9:00 a.m.

**Break**  
Sponsored by Arbor Pharmaceuticals  
Grand Promenade

**NICU Outcomes: From Saving Lives, to Changing Goals, to Death and Saving Lives**  
Monarchy

**Inside the Black Box: Neuromonitoring**  
Kings

### 11:00 a.m. – 12:00 p.m.

**Industry-sponsored Lunch Symposia**  
Learn more on page 17.

### 12:00 p.m. – 1:00 p.m.

**Business Meeting/Presidential Address**  
Monarchy

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*Eligible for ANCC Pharmacotherapeutic credit, see page 5 for details.*
### Wednesday, Oct. 11 (continued)

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
</table>
| 1:00 p.m. – 2:00 p.m. | Keynote Presentation  
David Menon, MD, PhD, FRCP, FRCA, FFICM, FMedSci  
Monarchy |
| 2:00 p.m. – 2:30 p.m. | Break  
Sponsored by Arbor Pharmaceuticals  
Grand Promenade |
| 2:30 p.m. – 3:30 p.m. | Intraarterial Pharmacotherapy in Neurocritical Care*  
Kings |
| 3:30 p.m. – 4:30 p.m. | Platform Presentations  
Monarchy |
| 4:30 p.m. – 5:30 p.m. | Poster Session 1 (Even-numbered Posters)*  
Kona Ballroom |
| 5:30 p.m. – 6:30 p.m. | Mentorship Mingle: Recruitment Forum for Residents and Fellows  
Queens |

#### Specialty Focus Corners

- 
**ICU Directors**  
Waters Edge Ballroom
- 
**Non-Neurologist Neurointensivists**  
Waters Edge Ballroom
- 
**Nurses**  
Kohala 3
- 
**Global Members**  
Kohala 1
- 
**Pediatric NCC**  
Waters Edge Ballroom
- 
**Pharmacists**  
Kohala 4

### Thursday, Oct. 12 (continued)

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
</table>
| 5:30 p.m. – 6:30 p.m. | Women in Neurocritical Care (WINCC) Presentation and Networking  
LuAnne E. Thorndyke, MD, FACP  
Monarchy |
| 6:30 p.m. – 8:00 p.m. | Industry-sponsored Dinner Symposia  
Learn more on page 17. |

### Friday, Oct. 13

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
</table>
| 6:00 a.m. | Run for Research  
Sponsored by UCB  
Ocean View Terrace |
| 6:30 a.m. – 7:30 a.m. | Targeted Temperature Management: Using GRADE for NCS Guideline Development*  
Kings |
| 7:30 a.m. – 8:30 a.m. | Controversies and Variability in SAH*  
Queens |
| 7:30 a.m. – 11:00 a.m. | Translational Science: Encephalitis in the ICU*  
Monarchy |

---

*Eligible for ANCC Pharmacotherapeutic credit, see page 5 for details.
### Committee Meeting Schedule

#### Tuesday, October 10

<table>
<thead>
<tr>
<th>Time</th>
<th>Committee/Meeting</th>
<th>Room</th>
</tr>
</thead>
<tbody>
<tr>
<td>6:00 a.m. – 7:00 a.m.</td>
<td>Committee Chairs and Officers</td>
<td>Queens 6</td>
</tr>
<tr>
<td>7:00 a.m. – 9:00 a.m.</td>
<td>Research Committee</td>
<td>Queens 4</td>
</tr>
</tbody>
</table>

#### Wednesday, October 11

<table>
<thead>
<tr>
<th>Time</th>
<th>Committee/Meeting</th>
<th>Room</th>
</tr>
</thead>
<tbody>
<tr>
<td>6:00 a.m. – 7:00 a.m.</td>
<td>Membership Committee</td>
<td>Kohala 3</td>
</tr>
<tr>
<td>6:00 a.m. – 7:00 a.m.</td>
<td>Guidelines Committee</td>
<td>Kohala 4</td>
</tr>
<tr>
<td>7:30 a.m. – 8:30 a.m.</td>
<td>Development Committee</td>
<td>Kohala 3</td>
</tr>
<tr>
<td>10:00 a.m. – 11:00 a.m.</td>
<td>Ethics Committee</td>
<td>Kohala 3</td>
</tr>
<tr>
<td>11:00 a.m. – 12:00 p.m.</td>
<td>NCC Live Committee</td>
<td>Kohala 3</td>
</tr>
<tr>
<td>11:00 a.m. – 12:00 p.m.</td>
<td>Advocacy Committee</td>
<td>Kohala 4</td>
</tr>
<tr>
<td>3:00 p.m. – 4:00 p.m.</td>
<td>FNCS Credentialing Committee</td>
<td>Lagoon Lanai</td>
</tr>
<tr>
<td>3:30 p.m. – 4:30 p.m.</td>
<td>ENLS Certification Sub Committee</td>
<td>Waters Edge Boardroom</td>
</tr>
<tr>
<td>4:00 p.m. – 5:00 p.m.</td>
<td>Nursing Committee</td>
<td>Kohala 3</td>
</tr>
<tr>
<td>4:00 p.m. – 5:00 p.m.</td>
<td>Pharmacy Leadership Committee</td>
<td>Kohala 4</td>
</tr>
</tbody>
</table>

#### Thursday, October 12

<table>
<thead>
<tr>
<th>Time</th>
<th>Committee/Meeting</th>
<th>Room</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:00 p.m. – 2:00 p.m.</td>
<td>Finance Committee</td>
<td>Kohala 3</td>
</tr>
<tr>
<td>1:00 p.m. – 2:00 p.m.</td>
<td>APP Committee</td>
<td>Lagoon Lanai</td>
</tr>
<tr>
<td>1:00 p.m. – 2:00 p.m.</td>
<td>Educational Products Committee</td>
<td>Kohala 4</td>
</tr>
<tr>
<td>2:00 p.m. – 3:00 p.m.</td>
<td>Communications Committee</td>
<td>Kohala 3</td>
</tr>
<tr>
<td>2:00 p.m. – 3:00 p.m.</td>
<td>ENLS Committee</td>
<td>Kohala 4</td>
</tr>
</tbody>
</table>

#### Friday, October 13

<table>
<thead>
<tr>
<th>Time</th>
<th>Committee/Meeting</th>
<th>Room</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:00 a.m. – 12:00 p.m.</td>
<td>Quality Committee</td>
<td>Lagoon Lanai</td>
</tr>
<tr>
<td>11:00 a.m. – 12:00 p.m.</td>
<td>WINCC Committee</td>
<td>Lagoon Lanai</td>
</tr>
<tr>
<td>12:00 p.m. – 1:00 p.m.</td>
<td>Residents &amp; Fellows Committee</td>
<td>Lagoon Lanai</td>
</tr>
<tr>
<td>5:30 p.m. – 6:00 p.m.</td>
<td>Annual Meeting Committee</td>
<td>Kohala 3</td>
</tr>
</tbody>
</table>

*In the event of inclement weather, all meetings on the Lagoon Lanai will be moved inside to Kohala 3 or 4 and an NCS Headquarters staff member will be available to direct attendees.*
**Education Highlights**

Session descriptions and speaker information can be found in the NCS Mobile App.

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**Keynote Overview**

**David Menon, MD, PhD, FRCP, FRCA, FFICM, F MedSci, University of Cambridge**

**Wednesday, October 11 | 1:00 p.m. – 2:00 p.m.**

Professor David Menon is Head of the Division of Anaesthesia and Co-chair of the Acute Brain Injury program at University of Cambridge, and is an honorary member of NCS. He currently acts as Vice Coordinator of the CENTERTBI project, a €30 million European multicenter study of precision medicine and comparative effectiveness research in traumatic brain injury. His research interests include neurocritical care, secondary brain injury, neuroinflammation and metabolic imaging of acute brain injury, using positron emission tomography and high field magnetic resonance imaging.

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**Guidelines Update**

**David Seder, MD, FNCS, Guidelines Committee Chair**

**Aaron Cook, PharmD, BCCCP, Guidelines Committee Chair**

**Wednesday, October 11 | 7:00 a.m. – 8:30 a.m.**

Start off Thursday morning with the best current medical evidence and expert opinions surrounding hot topics in neurocritical care. This year’s Guidelines Update will describe the process for developing clinical guidelines, discuss the evidence-based recommendations regarding Targeted Temperature Management in Neurocritical Care, and identify the top three issues addressed in the AAN Quality Measures Set.

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**Women in Neurocritical Care (WINCC)**

**Luanne E. Thorndyke, MD, FACP**

**University of Massachusetts Medical School**

**Thursday, October 12 | 5:30 p.m. – 6:30 p.m.**

The Women in Neurocritical Care (WINCC) are pleased to sponsor a leadership presentation for all NCS members. We are honored to have distinguished speaker Luanne E. Thorndyke, MD, FACP, Vice Provost for Faculty Affairs and Professor of Medicine, University of Massachusetts Medical School. Her interactive leadership session, “Interpersonal Communication Skills: Graceful Self-Promotion,” will stimulate discussion of the differences between “graceful self-promotion” and bragging, gender differences in the workplace, and ways that individuals can strategically gain visibility for themselves and their work within an organization. Don’t miss a hands on session that is sure to build skills in interpersonal communication, networking, leadership presence and visibility. A networking reception will follow!

---

**Scientific Review**

**Wendy Ziai, MD, MPH, Science Committee Chair**

**Rajat Dhar, MD, Science Committee Chair-elect**

**Friday, October 13 | 7:30 a.m. – 11:00 a.m.**

This year’s scientific program is packed with exciting sessions including updates on important clinical trials, lively debates around controversies in neurocritical care and diving inside the Black Box of Neuromonitoring. By member request, we are offering a special Translational Science Symposium on Friday morning focusing on “Encephalitis in the ICU: Basic to Clinical and Beyond” and includes speakers on the interface of infection and autoimmunity, metagenomics for identification of CNS infections, the role of PET imaging, and neuropathogenesis of Zika and West Nile viruses. The core of the scientific program, however, is the showcase of new work from the most important investigators—ALL OF YOU! Be sure to attend the platform presentations of the top scoring abstracts, followed by interactive poster sessions on Wednesday and Friday afternoon.

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**Poster Presentations**

This year, NCS accepted a record-breaking 466 abstracts for poster presentation. Even-numbered posters will be displayed through Thursday afternoon and odd-numbered posters will be displayed from Thursday to Friday evening.

In addition, during the live presentation times of 4:30 p.m.–5:30 p.m. on Wednesday and Friday evening, join experts for Poster Professor discussions of specific topic areas that interest you. To join a tour, look for the signs in the Kona Ballroom at the start of the hour labeled with the topics listed below. For full details on the posters included in each tour, refer to the handout found at the Registration and Information Desk.

- Education in the ICU
- Clinical Trials and Outcomes Research
- CNS Infections in the ICU
- Coma/Brain Death and Post-Cardiac Arrest
- Head and Spine Trauma
- ICU Organization and Technology
- Intracerebral Hemorrhage
- Ischemic Stroke
- Medical Issues in NeuroICU/Coagulopathy
- Muscle and Nerve Disorders
- Neuromonitoring
- Pediatric NeuroICU
- Peri-Operative Management
- Seizures/EEG
- Subarachnoid Hemorrhage
- Temperature Modulation
Speakers

Tamer Abdelhak, MD  
Spectrum Health System

Sarah Adriance, PharmD, BCPS  
Ohio State University Wexner Medical Center

Arash Afshinnik, MD  
University of California San Francisco - Fresno

Christine Ahrens, PharmD  
Cleveland Clinic

Yama Akbari  
University of California, Irvine, Department of Neurology

Andrei V. Alexandrov, MD  
University of Tennessee Health Science Center

Khalid Alsherbini, MD  
University of Tennessee Health Science Center

Mary Amatangelo, MS, RN, ACNP-BC, CCRN, CNRN  
Brigham and Women’s Hospital

Ed Amorim, MD  
Massachusetts General Hospital

Brian Appavu  
Columbia University Medical Center

Mary Kay Bader, RN, MSN, CCNS, FNCS, FAHA  
Mission Hospital

Neeraj Badjatia, MD, MSc  
University of Maryland School of Medicine

JJ Baumann, MS, RN, CCNS-BC, CCRN, SCRN  
Stanford University, School of Medicine

Karen Berger, PharmD, BCPS, BCCCP  
New York - Presbyterian Hospital/Weill Cornell Medical Center

Tracey Berlin, RN, MSN, CCRN, CNRN  
Consultant and Clinical Applications Specialist

Matthew Bevers, MD, PhD  
Brigham and Women’s Hospital

Thomas Bleck, MD, MCCM, FNCS  
Rush Medical College

Bob Blessing, NP  
Duke University

Julian Bösel, MD, FNCS  
University Hospital Heidelberg

Joshua Botdorf, DO  
Boone Hospital Center

Gretchen M. Brophy, PharmD, BCPS, FCCP, FCCM, FNCS  
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Rush University Medical Center

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Case Western Reserve University School of Medicine

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Washington University, Barnes-Jewish Hospital

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Duke University

David Hwang, MD  
Yale School of Medicine

Ruchira Jha  
University of Pittsburgh
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<td>Navaz Karanjia, MD</td>
<td>University of California - San Diego</td>
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<td>Queen's Medical Center</td>
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<td>Nerissa Ko, MD, MAS</td>
<td>University of California - San Francisco</td>
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<td>Osaka Mishima Emergency Critical Care Center</td>
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<td>Ariane Lewis, MD</td>
<td>New York University, Langone Medical Center</td>
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<td>Madigan Army Medical Center</td>
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<td>Lori Kennedy Madden, PhD, RN, ACNP-BC, CCRN, CNRN</td>
<td>University of California - San Francisco</td>
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<td>University Hospitals Cleveland Medical Center</td>
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<td>Nelson Maldonado, MD</td>
<td>Universidad San Francisco de Quito, NeuroQuito</td>
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<td>Leonardo Manoel, MD</td>
<td>Hospital Israelita Albert Einstein</td>
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<td>Teresa May, DO</td>
<td>Maine Medical Center</td>
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<td>Jessica McFarlin, MD</td>
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<td>University of Massachusetts Medical School</td>
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<td>International University of Health and Welfare, School of Medicine</td>
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<td>Lauren Ng, MD, MPH</td>
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<td>Roberta (Robin) Novakovic, MD</td>
<td>UT Southwestern Medical Center</td>
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<td>Johns Hopkins School of Medicine</td>
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<td>Kristine O’Phelan, MD</td>
<td>University of Miami, Miller School of Medicine</td>
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<td>Abhi Pandhi</td>
<td>University of Tennessee Health Science Center</td>
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<td>Soojin Park, MD, FAHA, FNCS</td>
<td>Columbia University Medical Center</td>
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<td>John Probasco, MD</td>
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<td>Mayo Clinic</td>
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<td>Shyam Rao, MD</td>
<td>Massachusetts General Hospital, Harvard Medical School</td>
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<td>Ben Rodgers, MD, FAANS, FACS</td>
<td>Indiana University School of Medicine</td>
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<td>Novant Health Forsyth Medical Center</td>
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<td>Kathryn Rosenblatt, MD</td>
<td>Johns Hopkins University School of Medicine</td>
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<td>Eric Rosenthal, MD</td>
<td>Massachusetts General Hospital</td>
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<td>Michael Rubin, MD, MA</td>
<td>University of Texas Southwestern Medical Center</td>
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<td>Owen Samuels, MD</td>
<td>Emory School of Medicine</td>
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<td>Aarti Sarwal, MD</td>
<td>Wake Forest Baptist Health Center</td>
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<td>Lori Shutter, MD, FNCS</td>
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<td>Jose Suarez, MD</td>
<td>Baylor College of Medicine</td>
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<tr>
<td>James Szalados, MD, MBA, Esq</td>
<td>Rochester Regional Health System</td>
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Welcome Reception
Kick off the NCS Annual Meeting on Tuesday, October 10 at 4:30 p.m. by making new connections and greeting your friends as you preview the exhibitors and their services in the Grand Promenade.

Sponsored by: NEUROPTICS

4th Annual Run for Research
The fourth annual 5K run and one-mile walk will kick off at 6:00 a.m. on Friday, October 13, on the beautiful Big Island. This year, NCS is holding a team fundraising competition, where individuals have joined or formed a team, either by institution or any other designation to raise funds for research. All participants will receive a high-quality running shirt pending size availability; the winning team will receive a special “Top Fundraiser” t-shirt. Stop by the Registration and Information desk today to make a donation or sign up for the run.

Sponsored by: Inspired by patients. Driven by science.

Golf for Research
NCS’s Golf for Research will take place on the Waikoloa Beach Course at the beautiful Waikoloa Beach Resort on Thursday, October 12 at 7:00 a.m. Enjoy views of the Pacific Ocean while lava fields border the fairway on the left and right. Net proceeds from the tournament will be donated to the NCS research campaign. Golfers of all skills/levels are welcome and encouraged to participate. This will be a “Captain’s Choice” tournament, so it’s really all about the fun! Didn’t sign up? Visit the Registration and Information desk to sign up and golf.

NCS Soccer Game
The NCS friendly soccer game — U.S. vs. International — will be played on Thursday, October 12 at 8:00 a.m., near the Hilton Waikoloa. After the U.S. team’s narrow victory in the first game, International (“The Empire”) struck back massively last year. So the game is on again.

NCS Annual Banquet
To close out our Annual Meeting, attendees and their guests will head out to the Lagoon Lanai of the Hilton Waikoloa for our Annual Banquet, Friday, October 13 at 6:00 p.m. — this year, a luau! Set adjacent to the Grand Promenade and the Grand Staircase, the Lagoon Lanai provides a beautiful location with views of the four-acre, salt-water lagoon and waterfall. Attendees will enjoy a Big Island-themed menu, one-hour luau show and a musical performance by Beyond Paradise, one of Hawaii’s premier Top 40 bands on the island. To purchase guest tickets, please visit the Registration and Information desk.

Specialty Focus Corners
Join your fellow industry professionals at networking corners held throughout the meeting to discuss special interests in your field. From advanced practice providers, to global members, to non-neurologist neurointensivists — there is something for everyone! See the Schedule at a Glance for a listing of dates and locations.

The Neurocritical Care Society gratefully acknowledges support from the following companies for the 2017 Workshops:

- 3D Systems
- Cheetah Medical
- Codman Neuro
- DWL
- Edwards Lifesciences
- FUJIFILM SonoSite, Inc.
- Halyard Health
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- Integra LifeSciences
- Mdialysis
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- Multigon
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- Nonin
- Persyst, Inc.
- Raumedic
- Rimed
- Sophysa USA
- Storz
Awards Recognition

Fellow of Neurocritical Care Society (FNCS)
The Neurocritical Care Society recognizes members who have demonstrated exceptional service, academic excellence and leadership in the field of neurocritical care by awarding them Fellow of Neurocritical Care Society (FNCS) status. Individuals who meet the requirements of this Fellowship can be identified with the letters FNCS after their respective titles.

This year’s recipients are:

- Jordan Bonomo, MD, FCCM, FNCS
- Diana Greene-Chandos, MD, FNCS
- David Hwang, MD, FNCS
- Monisha Kumar, MD, FNCS
- Peter LeRoux, MD, FACS, FNCS
- Dea Mahanes, RN, MSN, CNRN, CORN, CCNS, FNCS
- Jorge Mejia-Mantilla, MD, MSc, FNCS
- Kristine O’Phelan, MD, FNCS
- Michael Rodricks, MD, FNCS
- Aarti Sarwal, MD, FNCS

Best Scientific Abstract Award
This award is distributed to the author of an outstanding scientific abstract submitted by a member of the society. This year’s winner is W. Andrew Mould for the abstract titled, *ICH Removal Leads to a Reduction in Perihematomal Edema: Results from the MISTIE III Trial.*

Christine Wijman Young Investigator Award
This award is distributed to the author of an outstanding abstract submitted by a junior member of the society. This year’s winner is Shyam Rao for the abstract titled, *An Early EVD Clamp Trial Approach for Subarachnoid Hemorrhage is Associated with a Lower Ventriculoperitoneal Shunt Rate, Shorter Length of Stay, and Fewer EVD Complications – A Retrospective Study.*

Presidential Citation Award
Presidential Citations recognize NCS members who have made extraordinary contributions of time, energy and resources to NCS and the field of neurocritical care.

Yuuki Abe
Arash Afshinnik, MD
Yasuhiro Ajimi, MD, PhD
Masahiko Akiyama
Mary Amatangelo, NP
Takashi Araki, MD
Hidki Arimoto
Tohru Aruga
Barak Bar, MD
Cynthia Bautista, RN, PhD
Megan Brissie, NP
Sherry Choi
Aaron Cook, PharmD
Marin Darsie, MD
Satoshi Egawa, MD
Salia Farrokh, PharmD
Herb Fried, MD, FNCS
Shigeki Fujitani
Hiraku Funakoshi
Yuichi Furukawa, MD
Akira Fuse, MD, PhD
David Greer, MD, FNCS, MA, FCCM, FAHA, FANA, FANA
Ryan Hakimi, DO
Kohichi Hirata
Teruyasu Hirayama, MD, PhD, IFAANS
Thuy-Tien Ho, PA
Mitsuru Honda, MD, PhD
Eisei Hoshiyama, MD, PhD
Theresa Human, PharmD, BCPS, FNCS
David Hwang, MD
Hisato Ikeda, MD, PhD
Jyoji Inamasu
Masaaki Iwase, MD, PhD
Saej Izzy, MD
Navaz Karianjia, MD
Masahiro Kawanishi
Elizabeth Kim, CNS
Jennifer Kim, MD
Kosaku Kinoshita
Hitoshi Kobata, MD, PhD, FNCS
Kazutoshi Kuboyama
Yuichi Kuboyama
Abhay Kumar, MD
Yasuhiro Kuroda, MD
Arthur Lam, MD
Kimberly Lovasseur-Franklin, PharmD
Joshua Levine, MD
Sarah Livesay, RN, NP, CNS
Lori Madden, RN, PhD, NP
Takeshi Maeda
Dea Mahanes RN, MSN, CCNS, CORN, CNRN
Jason Makii, PharmD, MBA
Nelson Maldonado, MD
Ryan Martin, MD
Molly McNett, RN, PhD
Chad Miller, MD
Yosuke Miyaji
Yasuhi Miyake
Asma Moheet, MD
Akihiro Morita
Takashi Moriya, MD, PhD
Jeffrey Mucksavage, PharmD
Susanne Muehlenschlegel, MD, MPH, FNCS, FCCM
Masao Nagayama, MD, PhD
Hidetoshi Nakamoto, MD
Takehiro Nakamura, MD, PhD
Yasuhiro Norisue, MD
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Susu Yamashita
Sunghoon Yang
Susan Yeager, RN, NP
Shoji Yokobori, MD, PhD
Hiroyuki Yokota
Lara Zimmerman, MD
Congratulations to the 2017 Travel Grant Awardees

The 2017 NCS Travel Grant, supported by the Integra Foundation, BARD Medical and Zoll Medical Corporation, provides financial assistance to neuroscience critical care nurses, pharmacists and resident/fellow physicians in order for them to attend the NCS Annual Meeting.

Remy Margarette Berroya – Moreno, MD, FPCP, FPNA
Stacy Chu, MD
Kyra Christensen, MSN, CRNP
Salia Farrokh, PharmD, BCPS, BCCCP
David Gagnon, PharmD, BCCCP
Aimee Gowler, PharmD
Lakisha Hayes, ACNP-AG
Jeannette Hester, MSN, RN, CCRN
Langley Kushman, PA-C
Tamra Langley, MSN, APRN, AGACNP-BC
Kimberly Levasseur-Franklin, PharmD, BCPS, BCCCP
Subin Mathew, MD
Casey May, PharmD, BCCCP
Karen Perrin, MSN, ARNP
Tapas Kumar Sahoo, MD, FNB, FCCP, EDIC
Daniel Schacter, MD
Kyle Schmidt, PharmD, BCCCP
Diana Jean Serondo, RN, NVRN-BC
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Andrew Martin, MD
Mohamed Osman, MD
Alexandra Reynolds, MD
Christoph Stretz, MD
Industry-Sponsored Symposia

TUESDAY, OCTOBER 10

11:00 a.m. – 12:00 p.m.

Importance of Continuity of Care in Epilepsy
Christa B. Swisher, MD; Marc Alain Babi, MD
Queens 4
Lunch will be served

WEDNESDAY, OCTOBER 11

6:00 a.m. – 7:00 a.m.

PFO Related Stroke: A Critical Review of the Data Applied to Practice
David L. Tirschwell M.D., M.Sc.
Kings
Breakfast will be served

11:00 a.m. – 12:00 p.m.

Standard of Care for Subarachnoid Hemorrhage (SAH): Contemporary Issues for Clinicians
Soojin Park, MD, FAHA, FNCS; Elij Tesoro, Pharm D, BCPS; Melissa J. Ellis, DNP, MSN, RN, ACNP-BC
Queens
Lunch will be served

THURSDAY, OCTOBER 12

6:30 p.m. – 8:00 p.m.

In-Hospital to Home: New Standards for Extended-Duration VTE Prophylaxis in Acutely Ill Medical Patients
Alpesh Amin, MD, MBA
Queens
Dinner will be served

FRIDAY, OCTOBER 13

6:30 a.m. – 7:30 a.m.

IV Calcium Channel Blockers for Blood Pressure Reduction
Denise H. Rhoney, PharmD
Kohala 1
Breakfast will be served

11:00 a.m. – 12:00 p.m.

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Targeted Temperature Management and the Ever-Expanding Role of the Neurologist
Romergryko G. Geocadin, MD, FNCS
Kohala 1
Lunch will be served

Clinical Data and Real-World Evidence to Support NVAF Treatment Decision Making
Fariborz Rezai, MD, FCCP
Kohala 1
Lunch will be served
NCS Annual Meeting Committee

Overall Plenary Program

**Chair:** Gretchen Brophy, PharmD, BCPS, FCCP, FCCM, FNCS
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Nadeem Rahman, MD
Richard Riker, MD
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Gisele Silva, MD
James Szalados, MBA, MD, MHA, JD
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Matthew Maas, MD
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Kevin Sheth, MD, FNCS

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William Knight, MD, FNCS
Manoj Mittal, DO, MD, MS
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Panayiotis Varelas, MD, PhD

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**Co-Chair:** William McGee, MD, MHA, FCCP, FCCM
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Neeraj Badjatia, MD, MSc
David Y. Hwang, MD
Ines Koerner, MD, PhD
Brad Kolls, MD, PhD, MMCi
Jason Makii, PharmD, MBA, BCPS, BCCCP
Joshua Medow, MD, MSc
Kristine O’Phelan, MD
Eric Rosenthal, MD
Aarti Sarwal, MD
Susan Yeager, MS, RN, CCRN, ACNP
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