NEUROCRI TICAL CARE
WITHOUT BORDERS
16TH Annual Meeting
SEPTEMBER 25-28, 2018
BOCA RATON RESORT & CLUB
THE WAIT IS OVER FOR FACTOR Xa INHIBITOR PATIENTS WITH LIFE-THREATENING BLEEDS

THERE IS AN URGENT NEED TO ADDRESS FXa INHIBITOR-RELATED BLEEDING

45% ICH Mortality at 30 Days\(^1\)

>28K Deaths Annually\(^2-5\)

As our Society and the neurocritical care field have grown and expanded, this year’s Annual Meeting celebrates the impact and possibilities of our reach as neurocritical care professionals. It also allows us to reflect on NCS’ international presence, showcasing the global achievements of our colleagues in neurocritical care. The event features the cutting-edge scientific and educational programming and the collaborative networking opportunities that are the pinnacles of our Annual Meeting. My hope is that it also provides each of us with the opportunity to step away from our respective institutions and re-focus on our personal and professional goals, all while enjoying beautiful Boca Raton, Florida.

Are you monolingual, polyglot, or hyperglot? We invite you to join us at the International Practice Sessions and share your language skills. This year we are offering scientific sessions in Japanese, Portuguese, and Spanish. If you are English-speaking only, come along and use simultaneous translation. Let’s limit the jangle and clangor, and clear the way for seamless communication. You won’t want to miss the keynote presentation with Barth A. Green, MD, FACS, FAANS, co-founder of “The Miami Project to Cure Paralysis,” the largest, most comprehensive spinal cord injury/paralysis research center in the world. Dr. Green has also made an international impact with his significant contributions through Medishare in Haiti and around the world.

Beyond the education and research, the Annual Meeting is a unique opportunity to connect with colleagues across the neurocritical care field. I hope you will join us at the NCS Welcome Reception and Annual Banquet to network with our neurocritical care community and celebrate this great organization. Discover the latest product offerings and services in the Exhibit Hall, and network with our NCS partners and exhibitors. Lastly, you won’t want to miss opportunities to foster research – and to have fun! Come join the 5th Annual Run for Research on Friday morning and the Golf Tournament or Soccer Game on Friday afternoon.

We hope you enjoy your week in beautiful Boca Raton and leave with new connections and expanded knowledge. Let’s see neurocritical care without borders!

Jose I. Suarez, MD, FNCS
Vice President, Neurocritical Care Society
Chair, 16th Annual Meeting Planning Committee

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Download the Official NCS Mobile App

NCS delivers everything directly to your fingertips via the NCS mobile app! You can use the app to stay connected with NCS year-round, with access to practice guidelines, Currents content and more.

Use the Annual Meeting section of the app to view session descriptions, speakers and scheduling information. Interactive maps will help you navigate the Exhibit Suite with ease, and you’ll stay in the know with conference alerts.

On your smartphone or tablet, search for “NCS” in your app store or direct your mobile browser to www.neurocriticalcare.org/2018mobileapp.
Registration and Information Desk Hours
Registration North, The Mizner Center
TUESDAY, SEPTEMBER 25 ................................ 6:30 a.m. – 7:00 p.m.
WEDNESDAY, SEPTEMBER 26 .......................... 6:30 a.m. – 5:00 p.m.
THURSDAY, SEPTEMBER 27 .............................. 7:00 a.m. – 5:00 p.m.
FRIDAY, SEPTEMBER 28 ................................. 7:30 a.m. – 1:00 p.m.

Exhibit Hall Hours
Royal Palm Ballroom, The Mizner Center
TUESDAY, SEPTEMBER 25 ................................ 5:30 p.m. – 7:00 p.m.
WEDNESDAY, SEPTEMBER 26 .......................... 10:00 a.m. – 5:30 p.m.
THURSDAY, SEPTEMBER 27 .............................. 10:00 a.m. – 5:30 p.m.
FRIDAY, SEPTEMBER 28 ................................. 8:00 a.m. – 11:00 a.m.

Poster Presentations
Grand Foyer & Grand G, The Mizner Center
Posters 1-32 are Distinguished Posters and will be displayed during both sessions.
WEDNESDAY, SEPTEMBER 26 .......................... 4:30 p.m. – 5:30 p.m.
(Posters 1-181)
THURSDAY, SEPTEMBER 27 .............................. 5:30 p.m. – 6:30 p.m.
(Posters 1-32 and 182-330)
A full listing of all poster presentations can be found in the NCS Mobile App.

NCS Connect Booth
Royal Palm Foyer, The Mizner Center
Meeting attendees are invited to visit the NCS Connect Booth to learn more about becoming an NCS member, NCS educational products, Emergency Neurological Life Support (ENLS) and more!
TUESDAY, SEPTEMBER 25 ................................ 6:30 a.m. – 7:00 p.m.
WEDNESDAY, SEPTEMBER 26 .......................... 6:30 a.m. – 5:00 p.m.
THURSDAY, SEPTEMBER 27 .............................. 7:00 a.m. – 5:00 p.m.
FRIDAY, SEPTEMBER 28 ................................. 7:30 a.m. – 1:00 p.m.

Speaker Lounge
Veranda Salon 1, The Mizner Center
MONDAY, SEPTEMBER 24 .............................. 4:00 p.m. – 6:00 p.m.
TUESDAY, SEPTEMBER 25 ............................... 6:30 a.m. – 7:00 p.m.
WEDNESDAY, SEPTEMBER 25 .......................... 6:30 a.m. – 5:00 p.m.
THURSDAY, SEPTEMBER 27 .............................. 7:00 a.m. – 5:00 p.m.
FRIDAY, SEPTEMBER 28 ................................. 7:30 a.m. – 1:00 p.m.

Presentation Access and Handouts
Annual Meeting presentation slides will be available on the NCS OnDemand platform shortly following this year’s Annual Meeting. Annual Meeting presentation slides are complimentary to meeting attendees.

Lunch
Please note that lunch is not provided as a part of this year’s program. Industry Partners are hosting lunch symposia with limited capacity each day. On property, you will find a variety of food and beverage outlets. Learn more about the industry-sponsored symposia on page 17.

Internet
NCS attendees can access wireless internet in all meeting spaces at the Boca Raton Resort & Club. Internet can be accessed by using the network NEUROCRITICALCARE and password NCSBOCA18.

Stay Connected
Follow what others are saying and post your own insights and event highlights on Facebook and Twitter using #NCS2018.
**Target Audience**
This activity is designed for physicians, nurses, pharmacists and other healthcare specialists, including residents/fellows, who care for patients requiring neurocritical care.

**Learning Objectives**
- Discern clinical practice and challenges for neurocritical care patients around the globe.
- Examine ongoing clinical trials, controversies in clinical practice and end-of-life decision-making strategies in the care of patients with neurologic injury.
- Determine opportunities to use neuromonitoring, informatics, genomics and quality metrics in the neuroscience ICU to improve quality of care.
- Identify challenges and strategies for prognostication and management of critically ill patients with hypoxic-ischemic encephalopathy, near-brain dead conditions, and post-ICU syndrome.

**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.

**Disclosure**
NCS 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.

**Planning Committee and Faculty Disclosure Summary**
Disclosure information is available to all participants at the Registration and Information Desk.

**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 30 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 30 contact hours for nurses.

**Pharmacists**
This activity has been accredited for 3.00 CEU (30 credit hours) of continuing education credit.

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.

**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. NCS 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.
Highlighted areas are being used for the NCS Annual Meeting. Please see the Schedule of Events on pages 7-9 or the NCS mobile app for session locations.
### Session descriptions and speaker information can be found in the NCS Mobile App. All events will take place in The Mizner Center unless otherwise noted.

### Schedule of Events

#### MONDAY, SEPTEMBER 24 (PRE-MEETING)

Monday workshop attendees can go directly to the TCD workshops, located in Granada AB. You do not need to check-in at the Registration Desk.

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
</table>
| 8:00 a.m. – 12:00 p.m. | Transcranial Doppler (TCD) Course Workshop: Part 1 – Physics & Background  
Directed by: Andrei Alexandrov, MD  
Granada AB, The Great Hall Center |
| 1:00 p.m. – 5:00 p.m.   | Transcranial Doppler (TCD) Course Workshop: Part 2 – 50 Cases  
Directed by: Andrei Alexandrov, MD  
Granada AB, The Great Hall Center |

#### TUESDAY, SEPTEMBER 25

#### TUESDAY, SEPTEMBER 25 (CONTINUED)

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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</table>
| 7:30 a.m. – 11:30 a.m. | Morning Workshops  
Basic Airway and Bronchoscopy  
Directed by: Ines Koerner, MD, PhD  
Grand Ballroom I  
Clinical Monitoring of Spreading Depolarizations  
Directed by: Jed Hartings, PhD  
Grand Ballroom H  
Critical Care Ultrasound  
Directed by: Jose Diaz-Gomez, MD, FCCM, FASE  
Grand Ballroom A  
Intracranial Monitoring  
Directed by: Amedeo Merenda, MD  
Grand Ballroom C  
Neurocritical Care Pharmacotherapy  
Directed by: Jason Makii, PharmD, MBA, FCCM, BCPS, BCCCP  
Grand Ballroom D  
Transcranial Doppler (TCD) Course Part 3 – 50 Cases  
Directed by: Andrei Alexandrov, MD  
Granada AB, The Great Hall Center  
You Are Named in a Medical Malpractice Suit: Now What?  
Directed by: James Szalados, MD, MBA, Esq., FCCM  
Grand Ballroom G |
| 12:45 p.m. – 4:45 p.m. | Afternoon Workshops  
Advanced Hemodynamics  
Directed by: Neeraj Badjatia, MD, MSc  
Grand Ballroom C  
Advanced Practice Providers  
Directed by: Lori Madden, PhD, RN, ACNP-BC, CCRN, CNRN  
Grand Ballroom G  
Applied Neuromonitoring  
Directed by: Soojin Park, MD, FAHA, FNCS  
Grand Ballroom H |
| 5:00 p.m. – 5:30 p.m. | Awards Ceremony  
Grand Ballroom EF |
| 5:30 p.m. – 7:00 p.m. | Welcome Reception and Exhibits  
Royal Palm Ballroom |
| 7:00 p.m. – 8:30 p.m. | Mentorship Mingle: Meeting Your Milestones in Your Early NCC Career (Residents, Fellows, Junior Attendings)  
Estate Ballroom |
## WEDNESDAY, SEPTEMBER 26

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
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<tbody>
<tr>
<td>7:00 a.m. – 7:50 a.m.</td>
<td>Industry-Sponsored Breakfast Symposium</td>
<td>Estate Ballroom</td>
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<tr>
<td>7:00 a.m. – 8:00 a.m.</td>
<td>Continental Breakfast</td>
<td>Royal Palm Assembly</td>
</tr>
<tr>
<td>8:00 a.m. – 9:00 a.m.</td>
<td>Keynote Presentation&lt;br&gt;Creating a New Opportunity: Neurosurgery and Neurocritical Care in Haiti in 2018&lt;br&gt;Barth A. Green, MD, FACS, FAANS</td>
<td>Grand Ballroom EF</td>
</tr>
<tr>
<td>9:00 a.m. – 10:00 a.m.</td>
<td>Business Meeting and Presidential Address</td>
<td>Grand Ballroom EF</td>
</tr>
<tr>
<td>10:00 a.m. – 5:30 p.m.</td>
<td>Exhibit Hall Open&lt;br&gt;Royal Palm Ballroom</td>
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<tr>
<td>10:30 a.m. – 12:00 p.m.</td>
<td>Optimizing Outcome After Critical Illness&lt;br&gt;Grand Ballroom EF</td>
<td></td>
</tr>
<tr>
<td>12:10 p.m. – 1:00 p.m.</td>
<td>Industry-Sponsored Lunch Symposium&lt;br&gt;Addison Ballroom and Estate Ballroom</td>
<td></td>
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<tr>
<td>1:15 p.m. – 2:45 p.m.</td>
<td>How Do We Approach ICH?&lt;br&gt;Grand Ballroom AB</td>
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<tr>
<td>2:45 p.m. – 3:30 p.m.</td>
<td>Coffee Break in the Exhibit Hall&lt;br&gt;Royal Palm Ballroom</td>
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<tr>
<td>3:30 p.m. – 4:30 p.m.</td>
<td>Platform Presentations&lt;br&gt;Grand Ballroom EF</td>
<td></td>
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<tr>
<td>4:30 p.m. – 5:30 p.m.</td>
<td>Poster Session 1 (Posters 1-181)&lt;br&gt;Grand Ballroom Foyer and Grand Ballroom G</td>
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## WEDNESDAY, SEPTEMBER 26 (CONTINUED)

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<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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<tbody>
<tr>
<td>5:30 p.m. – 6:30 p.m.</td>
<td>Specialty Corners&lt;br&gt;Fellowship Directors Section&lt;br&gt;Bassford, The Tower&lt;br&gt;Global Member Section&lt;br&gt;Kingman NE, The Tower&lt;br&gt;Nursing Section&lt;br&gt;Cathedral, The Cloister&lt;br&gt;Pediatric NCC&lt;br&gt;Bassford, The Tower&lt;br&gt;Pharmacy Section&lt;br&gt;Tower Card Room, The Tower&lt;br&gt;Resident and Fellow Section&lt;br&gt;Kingman SE, The Tower&lt;br&gt;WINCC Section&lt;br&gt;Grand Ballroom CD</td>
<td></td>
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<tr>
<td>6:30 p.m. – 7:30 p.m.</td>
<td>Women in Neurocritical Care (WINCC)&lt;br&gt;Presentation and Networking Reception&lt;br&gt;Implicit Bias in Healthcare and Medical School Admissions&lt;br&gt;Quinn Capers, IV, MD, FACC&lt;br&gt;Grand Ballroom CD</td>
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## THURSDAY, SEPTEMBER 27

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<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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<tbody>
<tr>
<td>7:30 a.m. – 8:20 a.m.</td>
<td>Industry-Sponsored Breakfast Symposium</td>
<td>Estate Ballroom</td>
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<tr>
<td>7:30 a.m. – 8:30 a.m.</td>
<td>Continental Breakfast</td>
<td>Royal Palm Assembly</td>
</tr>
<tr>
<td>8:30 a.m. – 10:00 a.m.</td>
<td>From Terrorism to Complementary Medicine&lt;br&gt;This session is being presented in Japanese and translated to English.</td>
<td>Grand Ballroom AB</td>
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<tr>
<td>10:00 a.m. – 5:30 p.m.</td>
<td>Exhibit Hall Open&lt;br&gt;Royal Palm Ballroom</td>
<td></td>
</tr>
<tr>
<td>Time</td>
<td>Session</td>
<td>Location</td>
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<tr>
<td><strong>THURSDAY, SEPTEMBER 27 (CONTINUED)</strong></td>
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</table>
| 10:45 a.m. – 12:15 p.m. | Stroke in Low and Middle-Income Countries: From Clinical Trials to Real Life Management  
This session is being presented in Portuguese and translated to English.  
Grand Ballroom AB  
Latest Advances in the Management of Neurocritical Care Complications  
Grand Ballroom CD  
Management of the Not-Yet Brain Dead Versus the Brain Dead Patient: Two Different Phases with the Same Goal of Saving Lives  
Grand Ballroom EF |                   |
| 12:25 p.m. – 1:15 p.m. | Industry-Sponsored Lunch Symposium  
Addison Ballroom and Estate Ballroom |                   |
| 1:30 p.m. – 3:00 p.m. | Challenges of Neurocritical Care Practice in Latin America: Leaving Colonialism towards High-Impact Scientific Production  
This session is being presented in Spanish and translated to English.  
Grand Ballroom AB  
The Path Forward for Brain Death: Controversy, Law, and Policy  
Grand Ballroom CD  
Spreading Depolarizations: The Silent Culprit of Secondary Injury That You’ve Been Missing  
Grand Ballroom EF |                   |
| 3:00 p.m. – 4:30 p.m. | Coffee Break in the Exhibit Hall  
Royal Palm Ballroom  
NCS Committee Meetings  
Various Locations – See Mobile App for Details |                   |
| 4:30 p.m. – 5:30 p.m. | Platform Presentations  
Grand Ballroom EF  
Build, Launch, Run: How to Successfully Establish a Neurocritical Care Service  
Grand Ballroom CD  
NORSE  
Grand Ballroom AB |                   |
| 5:30 p.m. – 6:30 p.m. | Poster Session 2 (Posters 1-32 and 182-330)  
Grand Ballroom Foyer and Grand Ballroom G |                   |
| 7:00 p.m. – 10:00 p.m. | Annual Banquet  
Purchase your Annual Banquet tickets at the NCS Registration Desk ahead of time.  
Grand Lawn |                   |
| **FRIDAY, SEPTEMBER 28** |                                                                                                                                                                                                       |                   |
| 7:00 a.m. | 5th Annual Run for Research  
Mulligans, West Side of Golf Course Building on Resort Property | Royal Palm Ballroom |
| 8:30 a.m. – 11:00 a.m. | Exhibit Hall Open  
Royal Palm Ballroom |                   |
| 8:30 a.m. – 9:00 a.m. | Continental Breakfast in the Exhibit Hall  
Royal Palm Ballroom |                   |
| 9:00 a.m. – 12:30 p.m. | Professionalism & Leadership (P&L) Sessions  
Addison Ballroom  
Translational Genomics and Bioinformatics  
Grand Ballroom AB  
NCS Guidelines  
Grand Ballroom CD |                   |
| 10:45 a.m. – 12:15 p.m. | Individualizing Therapy and Prognostication for Patients in the Neurocritical Care Unit  
Grand Ballroom AB  
Cerebral Goal Directed Therapy After Cardiac Arrest: Moving Beyond Targeted Temperature Management  
Grand Ballroom EF  
Traumatic Brain Injury Management: An International Multidiscipline Perspective of the Challenges and Difference in Management  
Grand Ballroom CD |                   |
| 1:00 p.m. – 5:00 p.m. | ENLS Train-the-Trainer Live Course  
Grand Ballroom CD  
Future Clinical Leader’s Forum  
Pre-approved applicants only  
Grand Ballroom G  
Research Mentoring Session  
Pre-approved applicants only  
Estate Ballroom |                   |
| 1:30 p.m. | Golf Fundraiser for Research  
Resort Golf Course  
Soccer Game for Research  
Sand Pine Park |                   |
Education Highlights

Keynote Presentation

Barth A. Green, MD, FACS, FAANS,
University of Miami Miller School of Medicine

Creating a New Opportunity: Neurosurgery and Neurocritical Care in Haiti in 2018

Dr. Green is a professor of the Department of Neurological Surgery at the University of Miami Miller School of Medicine. He is a world-renowned specialist in the surgical management of complex spinal cord injuries/disorders and a cofounder of “The Miami Project to Cure Paralysis,” the largest, most comprehensive spinal cord injury/paralysis research center in the world.

On the international front, Dr. Green cofounded Project Medishare for Haiti in 1994 to help improve the health status of Haiti’s citizens through an integrated, bottoms-up, community approach to development. After the disastrous 2010 earthquake, the UM Global Institute/Project Medishare field hospital opened and treated over 30,000 patients and performed more than 1,500 emergency surgeries.

Women in Neurocritical Care (WINCC) Presentation

Quinn Capers, IV, MD, FACC, Associate Dean for Admissions, The Ohio State University College of Medicine

Implicit Bias in Healthcare and Medical School Admissions

This lecture will review the definition of implicit bias and how it can lead well-intentioned people to unknowingly discriminate based on race, gender, age, etc. Specifically, the discussion will focus on healthcare and how physician and provider implicit bias may contribute to healthcare disparities. After reviewing the foundations of implicit racial and gender biases and their impact in employment and the criminal justice system, Dr. Capers will concentrate on the impact of implicit bias in healthcare. Finally, we will discuss current research about implicit bias in medical school admissions and implications for GME selection and beyond.

Poster Tours

This year, NCS accepted 330 abstracts for poster presentations. Posters 1-32 are Distinguished Posters and will be displayed both Wednesday and Thursday. Posters 1-181 will be displayed through Wednesday evening and posters 1-32 and 182-330 will be displayed through Thursday evening.

In addition, during the presentation times on Wednesday and Thursday evenings, join experts for poster professor discussions of specific topic areas that interest you. To join a tour, look for the signs in the location 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.

- Coma/Brain Death and Post-Cardiac Arrest
- Head and Spine Trauma
- ICU Organization, Staffing and Education
- Intracerebral Hemorrhage
- Ischemic Stroke
- Medical Issues, Pharmacology and Coagulopathy
- Monitoring, Technology, and Temperature Modulation
- Neurosurgical and Peri-Operative Management
- Seizures/EEG
- Subarachnoid Hemorrhage
- Pediatrics, CNS Infections/Inflammatory
- Emerging and Miscellaneous Topics

The Neurocritical Care Society gratefully acknowledges support from the following companies for the 2018 workshops:

| 3D Systems | Integra Lifesciences/ Codman Neuro |
| Ambu | Persyst |
| Cheetah/NICOM | Philips |
| Delica | RAUMEDIC |
| DWL USA, Inc. | RETIA |
| Edwards | Rimed |
| Fujifilm | Sophysa |
| Getinge | Storz |
| Hemedex | University of Miami |
Speaker Listing

Anne Alexandrov, PhD, AGACNP-BC, ANVP-BC, FAAN
UTHSC at Memphis

Andrei Alexandrov, MD
The University of Tennessee Health Science Center, Department of Neurology

Pravin Amin, MD, FCCM
Bombay Hospital Institute of Medical Sciences

Maranatha Ayodele, MD
University of Miami, Jackson Memorial Hospital

Aimee Aysenne, MD
Tulane University, School of Medicine

Riaz Aziz, MBCHB, DTMH, MRCP
London School of Tropical Medicine and Hygiene

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

Ramani Balu, MD, PhD
University of Pennsylvania

Sunshine Barhorst, NP
University of Cincinnati Medical Center

Michael Bell, MD
Children’s National Medical Center

John Bennett, PhD, RVT
Wake Forest School of Medicine

Karen Berger, PharmD, BCPS, BCCCP
NewYork-Presbyterian Hospital, Weill Cornell Medical Center

Tracey Berlin, MSN, RN, CCRN-K, CNRN
Consultant

Francis Bernard, MD, FRCPC
Hôpital du Sacré-Cœur de Montréal, University of Montréal

Tom Bleck, MD, MCCM, FNCS
Rush University Medical Center

Gretchen M. Brophy, PharmD, BCPS, FCCP, FCCM, FNCS
Virginia Commonwealth University

Katharina Busl, MD, MS
University of Florida, College of Medicine

Quinn Capers IV, MD, FACC, FSCAI
The Ohio State University Wexner Medical Center

Meghan Caylor, PharmD, BCPS
Hospital of the University of Pennsylvania

Cherylee Chang, MD, FNCS
The Queen’s Medical Center, John A. Burns School of Medicine, University of Hawaii

Wan-Tsu Wendy Chang, MD
University of Maryland School of Medicine

Maria Mercedes Chumbe Mendoza, MD
National Institute of Neurological Sciences

Giuseppe Citerio, MD
Università Milano Bicocca

Jan Claassen, MD
Columbia University

Robert Clark, MD
Children’s Hospital of Pittsburgh

Christy Cornwell, BS, RVT, LPN
The Ohio State University Wexner Medical Center Neurovascular Lab

Claire Creutzfeldt, MD
University of Washington

Maxwell Damian, MD, PhD, FNCS
Cambridge University Hospitals

Neha Dangayach, MD
Icahn School of Medicine at Mount Sinai and Mount Sinai Health System

Caroline Der-Nigoghossian, PharmD, BCCCP
NewYork-Presbyterian Hospital, Columbia University Medical Center

Raj Dhar, MD
Washington University in St. Louis School of Medicine

José Díaz-Gómez, MD, FCCM, FASE
Mayo Clinic College of Medicine & Science

Solange Dicinini, PhD, RN
Escola Paulista de Enfermagem, Universidade Federal de São Paulo, Brasil

Michael Diringer, MD
Washington University

Jens Dreier, MD
Center for Stroke Research Berlin, Charité University Medicine Berlin

Emily Durr, PharmD, BCCCP
Grady Health System

Satoshi Egawa, MD
TMG Asaka Medical Center, Neuro ICU

Jonathan Elmer, MD, MS
University of Pittsburgh

Benjamin Emanuel, DO
Keck Medical Center of USC

Ari Ercole, MD, PhD
University of Cambridge

Bobby B. Ergin, BSN, RN, RVT
Johns Hopkins Medicine

Martin Fabricius, DMSc
Rigshospitalet, University of Copenhagen

Guido Falcone, MD, ScD, MPH
Yale School of Medicine

Salia Farrokh, PharmD
Johns Hopkins Hospital

Ericka Fink, MD, MS
Children’s Hospital of Pittsburgh of UPMC

Brandon Foreman, MD, FACNS
University of Cincinnati Medical Center

Samuel Galvagno, DO, PhD, FCCM
University of Maryland School of Medicine, R Adams Cowley Shock Trauma Center

Catherine Gargan, RN, CNRN, CCRN
URMC Strong Memorial Hospital

Emily Gilmore, MD, MS
Yale University

Jenna Gonillo-Davis, ACNPC-AG, CCRN
University of Rochester Medical Center

Barth Green, MD, FACS, FAANS
University of Miami

David Greer, MD, MA, FNCS
Boston University School of Medicine

Mary McKenna Guanci, MSN, RN, SCRN, CNRN
Massachusetts General Hospital
Speaker Listing

Ryan Hakimi, DO, MS, FNCS
University of South Carolina – Greenville Health System

Jed Hartings, PhD
University of Cincinnati

Ahmed Hassan, MD
University of Illinois – Chicago College of Medicine

Joseph Haymore, DNP
University of Maryland School of Nursing

Raimund Helbok, MD
Department of Neurology, Medical University Innsbruck

J. Claude Hemphill, MD, MAS, FNCS
University of California, San Francisco

Karen Hirsch, MD
Stanford University, Neurocritical Care

Lawrence Hirsch, MD
Yale University

Sara Hocker, MD
Mayo Clinic

Eisei Hoshiyama, MD, PhD
Dokkyo Medical University

Monisha Kumar, MD
University of Pennsylvania

Christos Lazaridis, MD, EDIC
University of Chicago

Abhijit Lele, MBBS, MD, MS
Harborview Medical Center, University of Washington

Kimberly Levasseur-Franklin, PharmD, BCPs, BCCCP
Tufts Medical Center

Ariane Lewis, MD
NYU Langone Medical Center

Sarah Livesay, DNP, RN, ACNP-BC, ACNS-BC
Rush University

Carolina Maciel, MD
University of Florida

Lori Kennedy Madden, PhD, RN, ACNP-BC, CCRN, CNRN
UC Davis Health

Dea Mahanes, MSN, RN, CCNS, FNCS
University of Virginia Health System

Sherif Mahmoud, BCSc, MSc, PhD
University of Alberta

Jason Makii, PharmD, MBA, FCCM, BCPs, BCCCP, FNCS
University Hospitals Cleveland Medical Center

Nelson Maldonado, MD
Universidad San Francisco de Quito USFQ

Edward Manno, MD, FNCS
Northwestern University Feinberg School of Medicine

Airtón Leonardo Manoel, MD, PhD
Hospital Paulistano – UnitedHealth Group Brasil

Karen March, MN, RN
Consultant

Jason Marzuola, MSN, RN, CNRN
Integra LifeSciences

William McGee, MD, MHA, FCCM, FNCS
Baystate Medical, University of Massachusetts Medical School

Molly McNett, PhD, RN, CNRN, FNCS
The MetroHealth System

Joshua Medow, MD, MS, FAANS, FACS, FNCS, FAHA, FCCM
University of Wisconsin – Madison

Jorge Mejía-Mantilla, MD, MSc, FNCS
Fundación Valle del Lili, University Hospital

Amedeo Merenda, MD
University of Miami Miller School of Medicine

Kimberly Meyer, PhD, APRN
University of Louisville, Neurosurgery

Asma M. Moheet, MD, FNCS
Cedars-Sinai Medical Center

Christopher Morrison, PharmD, BCCCP, FNCS
Grady Memorial Hospital

Jeffrey Mucksavage, PharmD
University of Illinois at Chicago, College of Pharmacy

Susanne Muehlischlegel, MD, MPH, FCCM, FNCS
University of Massachusetts Medical School

Masao Nagayama, MD, PhD, FAAN, FACP, FNCS
International University of Health and Welfare School of Medicine

Lauren Ng, MD, MPH
Mayo Clinic

Jessica Nielsen, PhD
University of Minnesota Twin Cities

Paul Nyquist, MD, MPH
Johns Hopkins School of Medicine

Nicole O’Brien, MD
Nationwide Children’s Hospital

Takahiro Ohnuki, MD
Teikyo University School of Medicine, Department of Emergency Medicine

Tomoya Okazaki, MD
Emergency Medical Center, Kagawa University Hospital
<table>
<thead>
<tr>
<th>Name</th>
<th>Institution/Location</th>
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<tr>
<td>Casey Olm-Shipman, MD</td>
<td>UNC Chapel Hill, School of Medicine</td>
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<td>DaiWai Olson, PhD, RN</td>
<td>UT Southwestern</td>
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<td>Kristine O’Phelan, MD, FNCS</td>
<td>University of Miami, Department of Neurology, Miller School of Medicine</td>
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<tr>
<td>Kent Owusu, PharmD, BCCCP</td>
<td>Yale-New Haven Hospital</td>
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<td>Yuko Palesch, PhD</td>
<td>Medical University of South Carolina</td>
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<td>Soojin Park, MD, FAHA, FNCS</td>
<td>Columbia University/NY Presbyterian</td>
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<td>Audrey Paulson, DNP</td>
<td>Good Samaritan Hospital, San Jose</td>
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<td>Michael Pizzi, DO, PhD</td>
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<td>Gabriel Prada, MD</td>
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<td>Alejandro Rabinstein, MD</td>
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<td>Frank Anthony Rasulo, MD</td>
<td>University of Brescia at Spedal Civil Hospital</td>
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<td>Kelly Rath, ACNP</td>
<td>University of Cincinnati Medical Center</td>
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<td>Cássia Righy, MD, PhD</td>
<td>Instituto Estadual do Cérebro, Fundação Oswaldo Cruz</td>
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<td>Lucia Rivera-Lara, MD</td>
<td>Johns Hopkins University</td>
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<td>Debra Roberts, MD, PhD</td>
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<td>Jonathan Rosand, MD, MSc</td>
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<td>Kate Rosenblatt, MD</td>
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<td>Eric Rosenthal, MD</td>
<td>Massachusetts General Hospital, Department of Neurology</td>
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<td>Aarti Sarwal, MD, FNCS, FAAN</td>
<td>Wake Forest Baptist Health Center</td>
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<td>Magdy Selim, MD, PhD</td>
<td>Beth Israel Deaconess Medical Center, Harvard Medical School</td>
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<td>Diana Jean Serondo, RN, NVRN-BC</td>
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<td>Kevin Sheth, MD</td>
<td>Yale University School of Medicine</td>
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<td>Gentle Shrestha, MD, FACC, EDIC, FCCP</td>
<td>Tribhuvan University Teaching Hospital</td>
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<td>Lori Shutter, MD, FNCS</td>
<td>University of Pittsburgh Physicians – CCM</td>
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<td>Bill Shuttleworth, PhD</td>
<td>University of New Mexico, Health Sciences Center</td>
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<td>Gisele Silva, MD</td>
<td>Hospital Albert Einstein and UNIFESP</td>
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<td>Peter Smielewski, PhD</td>
<td>University of Cambridge, Department of Clinical Neuroscience</td>
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<td>Wade Smith, MD, PhD</td>
<td>University of California, San Francisco</td>
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<td>Jose I. Suarez, MD, FNCS</td>
<td>Johns Hopkins University School of Medicine</td>
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<td>Gene Sung, MD, MPH</td>
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<td>James Szalados, MD, MBA, Esq., FCCM, FNCS</td>
<td>Rochester General Hospital, Rochester Regional Health System</td>
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<td>Michel Torbey, MD, MPH</td>
<td>The Ohio State University</td>
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<td>Chani Traube, MD, FAAP, FCCM</td>
<td>Weill Cornell Medical College</td>
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<td>Kamila Vagnerova, MD</td>
<td>OHSU</td>
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<td>Henry Ford Hospital</td>
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<td>Carla Venegas-Borsellino, MD</td>
<td>Mayo Clinic</td>
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<td>Chethan Venkatasubba Rao, MD, FNCS</td>
<td>Baylor College of Medicine</td>
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<td>Paul Vespa, MD</td>
<td>UCLA</td>
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<td>Walter Videtta, MD, FNCS</td>
<td>Hospital nacional Prof. A. Posadas</td>
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<td>Amy Wagner, MD</td>
<td>University of Pittsburgh</td>
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<td>Katja Wartenberg, MD, PhD</td>
<td>University of Leipzig</td>
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<td>Scott Watson, MD, MPH</td>
<td>Seattle Children’s Hospital and University of Washington</td>
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<td>Wendy Wright, MD, FNCS, JM</td>
<td>Emory University</td>
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<td>Wei Xiong, MD</td>
<td>University Hospitals, Case Western Reserve University</td>
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<td>Sunghoon Yang, MD</td>
<td>International University of Health and Welfare</td>
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<td>Sahar Zafar, MD</td>
<td>Massachusetts General Hospital</td>
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<td>Kathryn Zelazsy, RPA-C</td>
<td>University of Rochester Medical Center</td>
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<td>Wendy Ziai, MD, FNCS</td>
<td>Johns Hopkins University</td>
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**Social and Fundraising Events**

**Welcome Reception**  
**Tuesday, September 25 | 5:30 p.m. – 7:00 p.m.**

Officially kick off the NCS Annual Meeting on Tuesday, September 25 in the Royal Palm Ballroom by making new contacts and greeting your friends as you preview NCS exhibitors and their services in the Exhibit Hall.

**Specialty Focus Corners**  
**Wednesday, September 26 | 5:30 p.m. – 6:30 p.m.**

Join your fellow industry professionals at networking corners held throughout the meeting to discuss special interests in your field. From nurses, to global members, to residents and fellows—there is something for everyone!

**NCS Annual Banquet**  
**Thursday, September 27 | 7:00 p.m. – 10:00 p.m.**

Join us for a night in Havana to celebrate our Annual Meeting! Attendees and their guests will head out to the Grand Lawn of the Mizner Center for our Annual Banquet, Thursday, September 27. Attendees will enjoy a Cuban-themed menu, an interactive salsa performance and a musical performance by one of Miami’s top 40 bands. Attendee and guest tickets can be purchased at the Registration and Information Desk.

**5th Annual Run for Research**  
**Friday, September 28 | 7:00 a.m.**

The fifth annual 5K and one-mile walk will kick off at 7:00 a.m. on Friday, September 28. Again, 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 t-shirt pending size availability; the winning team will receive a special “Top Fundraiser” t-shirt. Stop by the Registration and Information Desk to make a donation or sign up for the run.

**Golf for Research**  
**Friday, September 28 | 1:30 p.m.**

NCS’s Golf for Research will take place on the Resort Course at the Boca Raton Resort & Club on Friday, September 28. This stunning par-71 course plays 6,253 yards from the back tees and features a range of elevation changes and 12 acres of water including the signature water feature designed by Hugh Hughes. Net proceeds from the tournament will be donated to the NCS research fund. 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!

**NCS Soccer Game**  
**Friday, September 28 | 1:30 p.m.**

The NCS friendly soccer game—U.S. vs. International—will be played on Friday, September 28, at Sand Pine Park. Net proceeds from the game will be donated to the NCS research fund.
Awards Recognition

Award recipients will be recognized during the Awards Ceremony, taking place on Tuesday, September 25 from 5:00 p.m. – 5:30 p.m. in Grand Ballroom EF. All attendees are encouraged to join.

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:

- Arash Afshinnik, MD, FNCS
- Neeraj Badjatia, MD, MS, FNCS
- JJ Baumann, MS, RN, CCNS-BC, CNRN, SCRN, FNCS
- Fern Cudlip, MSN, FNP, CNRN, ANVP, FNCS
- Rachel Garvin, MD, FNCS
- Ryan Hakimi, DO, MS, FNCS
- Galen Henderson, MD, FNCS
- Ines Pia Koerner, MD, PhD, FNCS
- Abhijit Lele, MD, MS, FNCS
- Jason Makii, PharmD, MBA, FCCM, BCPS, BCCCP, FNCS
- William Mcgee, MD, FNCS
- Molly Mcnett, PhD, RN, CNRN, FNCS
- Asma Mohheet, MD, FNCS
- Christopher Morrison, PharmD, FNCS
- Masao Nagayama, MD, PhD, FAAN, FACP, FNCS
- Axel Rosengart, MD, PhD, MPH, FAAN, FNCS
- James Szalados, MD, FNCS
- Eljim Tesoro, PharmD, FNCS
- Chethan Venkatasubba Rao, MD, FNCS
- Chitra Venkatasubramanian, MBBS, MD, MSc, FNCS
- Wendy Zisi, MD, MPH, 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 Jan Claassen, MD, for the abstract titled Uncovering Hidden Command Following in the ICU.

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 Daniel B. Rubin, MD, PhD, for the abstract titled Clinical Features and Electrographic Predictors of Successful Weaning From IV Anesthetics in Refractory Status Epilepticus.

Congratulations to the 2018 Travel Grant Awardees
The 2018 NCS Travel Grant, supported by the Integra Foundation, provides financial assistance to all neuroscience critical care nurses, advanced practice providers, pharmacists, and resident/fellow physicians (MD, DO, RN, PhD, PharmD, mid-level practitioners, fellows, residents) in order for them to attend the NCS Annual Meeting.

- Asher Albertson, MD, PhD
- Ayham Alkhachroum, MD
- Kara Birrer, PharmD, BCPS
- Lorna Caffrey, BSc, RN
- Mark Angel Dizon, RN
- Olabisi Falana, PharmD, BCCCP, BCPS
- Gabriel Fontaine, PharmD, BS PHARM, BCPS
- Sarah Gantz, RN, BSN, CCRN
- Ebony Green, APRN, RN
- Bertrand Hermann, MD
- Ana Kukulj, NP, RN
- Shyam Rao, MD
- Allison Rider, PharmD, BCCCP
- Clio Aracelli Rubinos, MD
- Wren Sherrill, MSN, AG-ACNP
- Keaton Smetana, PharmD, BCCCP
- Jessica Traeger, PharmD, BCCCP
- Heather VanDongen-Trimmer, DNP, RN, CPNP-PC
- Aleksandra Yakhkind, MD
- Ramdinal Aviesena Zairinal, MD

DOWNLOAD THE NCS MOBILE APP AT WWW.NEUROCRITICALCARE.ORG/2018MOBILEAPP
The Neurocritical Care Society (NCS) is excited to announce the launch of a new online, subscription-based resource dedicated to the practice of neurocritical care.

Neurocritical Care ON CALL contains the most up-to-date, comprehensive content and covers 15 core topics applicable to physicians, pharmacists, APPs, nurses and trainees.

The only up-to-date comprehensive resource dedicated to the practice of neurocritical care.

Learn more at oncall.neurocriticalcare.org

Neurocritical Care Society • 330 N Wabash Ave, Suite 2001 • Chicago, IL 60611
www.neurocriticalcare.org • info@neurocriticalcare.org

Subscribers will enjoy immediate access to:

- Case studies, videos, podcasts, quick reference tables and other media
- Monthly webinars presented by leading neurocritical care experts
- Nursing and pharmacy specific content
- Notifications about the latest updates and new topic releases

Learn more at oncall.neurocriticalcare.org

Awards Recognition

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.

Arash Afshinnik, MD, FNCS
Cindy Bautista, PhD, RN, FNCS
Karen Berger, PharmD
Susana Bowling, MD
Megan Brissie, ACNP
Aaron Cook, PharmD
Maxwell Damian, MD, PhD, FNCS
Rajat Dhar, MD
Salia Farrokh, PharmD
Herbert Fried, MD
Jennifer Frontera, MD, FNCS
Diana Greene-Chandos, MD, FNCS
David Greer, MD, MA, FCCM, FAHA, FNCS, FAAN, FANA
Ryan Hakimi, DO, MS
Sherif Hanafy Mahmoud, DO, PhD, BSc, MSc
Karen Hirsch, MD
Theresa Human, BCPS, FNCS, PharmD
David Hwang, MD
Navaz Karanjia, MD
Ines Koerner, MD, PhD, FNCS
Abhay Kumar, MD
Mona Kumar, MD
Kimberly Levasseur-Franklin, PharmD, BCPS
Joshua Levine, MD, FNCS
John Lewin, PharmD, FNCS
Sarah Livesay, CNS, NP, RN
George Lopez, MD, PhD
Matthew Maas, MD
Lori Madden, CNS, NP, PhD, RN, ACNP-BC, CCRN, CNRN
Shradha Mainali, MD
Jason Makki, MBA, PharmD
Karen March, RN, MN, CCRN, CNRN
Molly McNett, RN, PhD, FNCS
Asma Moheet, MD, FNCS
Christopher Morrison, PharmD, FNCS
Jeffrey Mucksavage, PharmD
Susanne Muehlenschlegel, MD, MPH, FNCS
Masao Nagayama, MD, PhD, FNCS
DaiWai Olson, PhD, RN
Kristine O’Phelan, MD, FNCS
Mehrnaz Pajoumand, PharmD
Peter Papadakos, MD, FCCM, FAARC
Javier Provencio, MD, FNCS
Kelly Rath, NP
Michael Rubin, MD, MA, FNCS
Keri S. Kim, PharmD
Aarti Sarwal, MD, FNCS
Michael Schneck, MD
Gentle Shestra, MD
Giselle Silva, MD
Alexis Steinberg, MD
James Szalados, MD, JD, MBA, FNCS
Elijm Tesoro, PharmD, BCPS, FNCS
Huy Tran, MD
Chethan Venkatasubba Rao, MD, FNCS
Chitra Venkatasubramanian, MD, FNCS
Anand Venkatraman, MD
Paul Vespa, MD, FNCS
Brianna Witherspoon, NP
Wendy Wright, MD, JM, FCCM, FNCS
Susan Yeager, NP, RN, MS, CCRN, ACNP, FNCS
Sahar Zafar, MD
Wendy Ziai, MD, FNCS
Industry-Sponsored Symposia*

**TUESDAY, SEPTEMBER 25**
11:40 a.m. – 12:30 p.m.  |  Lunch  |  Addison Ballroom

Controversies in Critical Care Epilepsy Management—A Case-based Approach
Jan Claassen, MD, PhD; Ahmed Hassan, MD; Stephan A. Mayer, MD
See the NCS mobile app for details.

**WEDNESDAY, SEPTEMBER 26**
7:00 a.m. – 7:50 a.m.  |  Breakfast  |  Estate Ballroom

Abbott
David Tirschwell, MD, MSc; Brijeshwar Maini, MD, FACC
This breakfast symposium includes a review of clinical trial data on PFO closure for stroke prevention and discussion of the latest techniques in PFO closure.

**WEDNESDAY, SEPTEMBER 26**
12:10 p.m. – 1:00 p.m.  |  Lunch  |  Addison Ballroom

Portola Pharmaceuticals
Treatment for Patients with Life-Threatening Bleeds on Novel Oral Anti-Coagulants (NOACS)
Mark J. Alberts, MD
See the NCS mobile app for details.

**WEDNESDAY, SEPTEMBER 26**
12:10 p.m. – 1:00 p.m.  |  Lunch  |  Estate Ballroom

Neuroptics
Illuminating the Injured Brain: Quantitative Pupillometry in Critical Care Practice
Prof. Mauro Oddo, MD
Summarize the emerging role of quantitative pupillometry in critical care to detect secondary and ICU-related cerebral insults, and to improve accuracy of coma prognostication.

**THURSDAY, SEPTEMBER 27**
7:30 a.m. – 8:20 a.m.  |  Breakfast  |  Estate Ballroom

Janssen
An Evidence-Based Approach to Reducing Stroke Risk in Non-Valvular Atrial Fibrillation
Craig Coleman, PharmD, FASHP, RPh
This lecture will present options for reducing the risk in patients with nonvalvular atrial fibrillation.

**THURSDAY, SEPTEMBER 27**
12:25 p.m. – 1:15 p.m.  |  Lunch  |  Estate Ballroom

Biogen
The Bigger Picture of Large Hemispheric Infarction: Diagnosis and Management
Edward Jauch, MD, MS (Session Chair); Sean I. Savitz, MD; Stephan Mayer, MD, FCCM; Jeffrey Saver, MD, FAHA, FAAN, FANA; Tudor Jovin, MD
Case study–guided, interactive panel discussion of large hemispheric infarction and associated life-threatening edema, including prevalence, disease mechanisms, and guidelines for diagnosis, monitoring, treatment, and management.

**THURSDAY, SEPTEMBER 27**
12:25 p.m. – 1:15 p.m.  |  Lunch  |  Addison Ballroom

ZOLL
Experimental and Clinical Evidence for the use of Therapeutic Hypothermia and Targeted Temperature Management
W. Dalton Dietrich, PhD
This lecture reviews the use of therapeutic hypothermia and targeted temperature management in the fields of stroke, traumatic brain injury, acute spinal cord injury and MORE! The strategy from bench to bedside includes preclinical data and current ongoing research and clinical studies.

*Symposia session capacities are limited. Seating and food are available on a first-come, first-served basis.
NCS Annual Meeting Committees

Overall Plenary Program

**Chair:** Jose I. Suarez, MD, FNCS

- Arash Afshinnik, MD
- Imo Aisiku, MBA, MD
- Mary Kay Bader, MSN, RN, CCNS
- Gretchen Brophy, PharmD
- Raj Dhar, MD
- Diana Green-Chandos, MD, FNCS
- Ryan Hakimi, DO, MS
- Leslie Hamilton, PharmD
- Ahmed Hassan, MD
- Nerissa Ko, MD, FNCS
- Lori Madden, PhD, RN, ACNP-BC, CCRN, CNRN
- Dea Mahanes, MSN, RN, CCNS, FNCS
- Jason Makii, PharmD, MBA, FCCM, BCPS, BCCCP, FNCS
- Karen March, MN, RN
- Christopher Morrison, PharmD, BCCCP, FNCS
- Masao Nagayama, MD, PhD, FAAN, FANA
- Soojin Park, MD, FAHA, FNCS
- Javier Provencio, MD
- Aarti Sarwal, MD, FNCS, FAAN
- Lori Shutter, MD, FNCS
- Gisele Silva, MD
- Wade Smith, MD, PhD
- Alexis Steinberg, MD
- James Szalados, MD, MBA, Esq., FCCM, FNCS
- Sam Tisherman, MD
- Panayiotis Varelas, MD, PhD, FNCS
- Chitra Venkatasubramanian, MD, FNCS
- Mark Wainwright, MD, PhD
- Wendy Ziai, MD, FNCS

Development Committee

**Chair:** Ryan Hakimi, DO, MS, FNCS

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- Safdar Ansari, MD
- Mary Kay Bader, CNS, RN, MSN, CCNS, CCRN, CNRN, FNCS
- Gretchen Brophy, PharmD, BCPS, FCCM, FNCS
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- Jennifer Frontera, MD, FNCS
- Emily Gilmore, MD
- David Greer, MD, MA, FCCM, FAHA, FNCS, FAAN, FANA
- William Knight, MD, FNCS
- Jose I. Suarez, MD, FNCS
- Panayiotis Varelas, MD, PhD

Translational Science Sub-Committee

**Chair:** Rajat Dhar, MD

- Paul Akins, MD
- Guido Falcone, MD, ScD, MPH
- John Lewin, MBS, PharmD, FNCS
- Matthew Maas, MD
- Santosh Murthy, MD
THE BIGGER PICTURE OF LHI

Join us for an interactive panel discussion of large hemispheric infarction and associated life-threatening edema.

Thursday, September 27, 12:25 PM–1:15 PM (lunch provided)
Estate Ballroom; Boca Raton Resort and Club

Chairperson:
Edward C. Jauch, MD, MS

Panelists:
Sean I. Savitz, MD
Stephan A. Mayer, MD, FCCM
Jeffrey L. Saver, MD, FAHA, FAAN, FANA
Tudor G. Jovin, MD
Thank You to Our Year-Round Corporate Partners

Commercial Support

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Platinum

Gold

Silver

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## Exhibitor Information

### Royal Palm Ballroom

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