The Fifth Annual Neuro ICU Symposium
Cutting-edge Management of Neurological and Neurosurgical Emergencies and Critical Care
The Future of Neurotrauma and Neurocritical Care
MARCH 22-24, 2017
Hyatt Regency, Houston, Texas
DATE
March 22-24, 2017

LOCATION
Hyatt Regency Houston
1200 Louisiana St.
Houston, Texas 77002

COURSE DESCRIPTION
The fifth annual Neuro ICU Symposium is our successful two-and-a-half day CME course designed to educate physicians and other healthcare professionals on how to optimally manage patients using a team approach and evidence-based medicine. This year’s emphasis will be on the future of neurotrauma and the Neuro ICU, focusing on optimization of brain resuscitation in emergency rooms and ICUs. The course has a different look this year and has many exciting highlights: the latest Brain Trauma Foundation guidelines, ER brain resuscitation, advanced hemodynamic management in the unit, controversial hot topics and the ever-popular “Different Viewpoints” discussions. New for this year: parallel programs on Day 1 of the conference – a full day will be dedicated to nursing education as well as a separate neurocritical care board review course.

LEARNING OBJECTIVES
As a result of attending this symposium, participants will be able to:

1. Discuss the latest evidence-based and cutting-edge medical literature in acute neurological and neurosurgical emergencies and discuss how to resuscitate patients with injured brains due to various etiologies.
2. Describe the hot topics in neurological and neurosurgical emergencies and recommendations for management.
3. Treat multiple end-organ system failures that occur in patients with acute brain injury.
4. Develop appropriate strategies for incorporating evidence-based protocols into clinical management through the use of case-based learning and real-life examples.
5. Apply the latest international guidelines on brain trauma when caring for patients.

AUDIENCE
• General and consult neurologists, stroke neurologists and neurointensivists
• General, vascular, spine and trauma neurosurgeons
• Pulmonary critical care medicine physicians
• Surgical critical care and general/trauma surgeons
• Anesthesiology critical care medicine physicians
• Emergency medicine physicians
• Critical care registered nurses and neurological nurses
• Acute care nurse practitioners and physician assistants
• EMTs and paramedics
• Pharmacists
• Physicians and surgeons in training
2017 THEME: THE FUTURE OF NEUROTRAUMA AND NEUROCRITICAL CARE

- **NEW THIS YEAR:**
  - A full-day critical care nursing symposium! A comprehensive program for critical care nurses.
  - A full day of neurocritical care board review. Ace the boards! This will help participants prepare not only for the neurocritical care board but also other types of critical care board examinations.

- **The 4th Brain Trauma Foundation Guidelines:**
  Review the evidence and hear it directly from one of the guideline authors.

- **Saving the Brain Starts in the Emergency Room:**
  Focus on the core of ultra-early brain resuscitation in the ER. Injured brains do not wait for a bed to open up in the Neuro ICU.

- **Heart-Brain Interface:**
  Learn about advanced hemodynamic management for severe brain injury. Explore the intimate relationship between the heart and the brain.

- **Hot Topics and Controversies:**
  Back by popular demand! When faced with a time-sensitive question, we must make decisions quickly, before class I data is available. Watch experts and authorities in the field debate each other.

- **Different Viewpoints:**
  “This is how I manage it.” Two experts demonstrate different ways of managing challenging clinical cases. There is more than one right way of doing things in medicine.
COURSE DIRECTOR

Kiwon Lee, M.D., FACP, FAHA, FCCM
Vice Chairman of Neurosurgery for Critical Care
Associate Professor of Neurosurgery and Department of Neurology
Director, Neuroscience and Neurotrauma Intensive Care Unit
Chief, Division of Neurocritical Care
Director, Neuroscience, Neurotrauma and Neurovascular Intensive Care Unit
Mischer Neuroscience Institute, McGovern Medical School at UTHealth, Memorial Hermann-Texas Medical Center
Houston, Texas

INVITED FACULTY SPEAKERS

Karin M. Halvorson, M.D.
Assistant Professor of Clinical Medicine, Tulane University School of Medicine
Director, Intensive Care Unit, Southeast Louisiana Veterans Healthcare System, New Orleans, Louisiana, USA

Matthew A. Koenig, M.D., FNCS
Medical Director of Telehealth, The Queen’s Health Systems
Associate Medical Director of Neurocritical Care, The Queen’s Medical Center
Associate Professor of Medicine, University of Hawaii John A. Burns School of Medicine
Honolulu, Hawaii, USA

Stephan A. Mayer, M.D., FCCM
Professor of Neurology and Neurological Surgery
Director of Neurocritical Care
Former President of Neurocritical Care Society, Mount Sinai School of Medicine
New York, New York, USA

Jennifer L. Moran, M.S.N., ACNP-BC
Stroke Coordinator
Neurocritical Care Advance Practice Registered Nurse, The Queen’s Medical Center
University of Hawaii John A. Burns School of Medicine
Honolulu, Hawaii, USA

Kees Polderman, M.D., Ph.D.
Professor of Critical Care Medicine, Department of Critical Care Medicine,
University of Pittsburgh Medical Center
Pittsburgh, Pennsylvania, USA

Andrés M Rubiano, M.D., Ph.D., FACS
Professor of Neurosciences and Neurosurgery, El Bosque University, Bogotá, Colombia
President, Neurotrauma and Critical Care Chapter, Colombian Association of Neurosurgery
Vice President, Neurotrauma and Critical Care Chapter, Latin American Federation of Neurosurgical Societies
Chair, International Committee, Neurotrauma and Critical Care Section, AANS
Bogota, Colombia

Jose I. Suarez, M.D.
Professor of Neurology-Vascular Critical Care
Head, Section of Vascular Neurology and Neurocritical Care, Baylor College of Medicine
Houston, Texas, USA
MEMORIAL HERMANN AND MCGOVERN MEDICAL SCHOOL AT UTHEALTH FACULTY SPEAKERS

- Wamda Ahmed, M.D., Assistant Professor, Vivian L. Smith Department of Neurosurgery, McGovern Medical School at UTHealth
- Bindu Akkanti, M.D., Assistant Professor of Critical Care Medicine, Department of Medicine, McGovern Medical School at UTHealth
- Salman A. Arain, M.D., Assistant Professor, Division of Cardiovascular Medicine, Department of Medicine, McGovern Medical School at UTHealth
- Andrew Barreto, M.D., M.S., Associate Professor, Division of Cerebrovascular Diseases, Department of Neurology, McGovern Medical School at UTHealth
- Spiros Blackburn, M.D., Associate Professor, Vivian L. Smith Department of Neurosurgery, McGovern Medical School at UTHealth
- Ritvij Bowry, M.D., Assistant Professor, Vivian L. Smith Department of Neurosurgery and Neurology, McGovern Medical School at UTHealth
- Robert Brown, M.D., Assistant Professor, Vivian L. Smith Department of Neurosurgery, McGovern Medical School at UTHealth
- Tiffany Chang, M.D., Assistant Professor, Vivian L. Smith Department of Neurosurgery, Director of Neurocritical Care Fellowship Training Program, McGovern Medical School at UTHealth
- P. Roc Chen, M.D., Associate Professor, Vivian L. Smith Department of Neurosurgery, McGovern Medical School at UTHealth
- Reena Chokshi, M.D., Assistant Professor, Division of Gastroenterology, Department of Medicine, McGovern Medical School at UTHealth
- Arthur Day, M.D., Professor and Vice Chair, Vivian L. Smith Department of Neurosurgery, Director of Neurosurgery Residency Training Program, McGovern Medical School at UTHealth
- Kevin Finkel, M.D., Vice Chair and Professor of Medicine, Division Director for Renal Diseases and Hypertension, Department of Medicine, McGovern Medical School at UTHealth
- Nicole Gonzales, M.D., Associate Professor, Division of Cerebrovascular Diseases, Department of Neurology, McGovern Medical School at UTHealth
- James C. Grotta, M.D., Director of Mobile Stroke Unit Consortium, Director of Stroke Research, Clinical Innovation and Research Institute, Vascular Neurologist, Memorial Hermann-Texas Medical Center at UTHealth
- Sigmund Hsu, M.D., Assistant Professor, Vivian L. Smith Department of Neurosurgery, McGovern Medical School at UTHealth
- Ryan Kitagawa, M.D., Assistant Professor, Vivian L. Smith Department of Neurosurgery, McGovern Medical School at UTHealth
- Kiwon Lee, M.D., Vice Chair for Critical Care, Departments of Neurosurgery and Neurology, Associate Professor of Neurosurgery and Neurology, Director of Neurocritical Care, Neuroscience Intensive Care Unit, McGovern Medical School at UTHealth
- Thy Nguyen, M.D., Assistant Professor of Neurology, Director of Clinical Neurophysiology Fellowship Training Program, McGovern Medical School at UTHealth
- Sophie Samuel, PharmD, BCPS, Critical Care Clinical Specialist, Neurosciences, Memorial Hermann-Texas Medical Center at UTHealth
- Jeremy Ragland, M.D., Assistant Professor, Vivian L. Smith Department of Neurosurgery, McGovern Medical School at UTHealth
2017 NEURO ICU SYMPOSIUM

MCGOVERN MEDICAL SCHOOL AT UTHEALTH FACULTY SPEAKERS

- **Gary Spiegel, M.D.,** Associate Professor, Vivian L. Smith Department of Neurosurgery and Department of Neurology, McGovern Medical School at UTHealth
- **Robert Wegner, M.D.,** Assistant Professor of Anesthesiology, McGovern Medical School at UTHealth
- **George Williams, M.D.,** Associate Professor and Assistant Program Director of Residency and Critical Care Fellowship, Department of Anesthesiology, McGovern Medical School at UTHealth
- **Edwin Wu, M.D.,** Clinical Instructor, Vivian L. Smith Department of Neurosurgery, McGovern Medical School at UTHealth

MEMORIAL HERMANN-TEXAS MEDICAL CENTER STAFF

Alese Henderson, B.S.N., RN, Neuroscience Intensive Care Unit Clinical Coordinator
Nicole Harrison, M.B.A., B.S.N., RN, Mischer Neuroscience Institute Administrative Director
Erin Hutchins, M.O.T., OTR, Rehab-Occupational Therapist
Christina Luther, B.S.N., RN, Neuroscience Intensive Care Unit Orientation Coordinator
Sandi Shaw, B.S.N., RN, Comprehensive Stroke Center Program Manager
Austin Schultea, B.S.N., RN, CCRN, Neuroscience Intensive Care Unit Clinical Coordinator
Jenna Snow, B.S.N., RN, Neuroscience Intensive Care Unit Charge Nurse
Kim Vu, LMSW, Mischer Neuroscience Institute Complex Care Specialist
Colleen Zuckero, B.S.N., RN, CNRN, Neuroscience Intensive Care Unit Clinical Manager

2017 ANNUAL MEETING COMMITTEE

- **Kiwon Lee, M.D.,** Associate Professor and Vice Chair for Critical Care, Vivian L. Smith Department of Neurosurgery and Department of Neurology, Director of Neurocritical Care, McGovern Medical School at UTHealth
- **Tiffany Chang, M.D.,** Assistant Professor of Neurosurgery and Neurology, McGovern Medical School at UTHealth
- **Brooke Moore,** Program Coordinator of Residency Training Program, Vivian L. Smith Department of Neurosurgery, McGovern Medical School at UTHealth
- **Brittany Zalman,** Fellowship Program Coordinator, Neurocritical Care, Vivian L. Smith Department of Neurosurgery, McGovern Medical School at UTHealth
- **Hannah Strak,** Marketing Representative, Mischer Neuroscience Associates
- **Heather Webster, B.S.N., RN, CCRN, CNRN, SCRN,** Neuroscience and Neurotrauma Intensive Care Unit Clinical Education Specialist, Memorial Hermann-Texas Medical Center
- **Susan, Nevada, M.S.N., RN, CNRN, SCRN,** Neuroscience Clinical Education Specialist, Memorial Hermann-Texas Medical Center
- **Nkem Echendu, M.B.A., B.S., RN-BC,** Education Resource Specialist, Memorial Hermann-Texas Medical Center
- **Alisse Pratt,** Director of Marketing, System Neurosciences, Memorial Hermann Health System
- **Gayla Bruner, B.S.N., RN,** Office of Continuing Medical Education, Memorial Hermann Health System
- **Sophie Samuel, PharmD, BCPS,** Critical Care Clinical Specialist, Neurosciences, Department of Pharmacy Services, Memorial Hermann-Texas Medical Center
ACCREDITATION

This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Texas Medical Association (TMA) through the joint providership of the Memorial Hermann Health System, McGovern Medical School at UTHealth, and Memorial Hermann Mischer Neuroscience Institute at the Texas Medical Center. The Memorial Hermann Health System is accredited by the TMA to provide continuing medical education for physicians.

Memorial Hermann Health System designates this live activity for a maximum of 17.5 AMA PRA Category 1 Credit(s)™. Participants should claim only the credit commensurate with the extent of their participation in the activity.

The presentation, “High Grade SAH: Who Dies and Why” by Stephan Mayer, on March 23rd, has been designated by Memorial Hermann Health System for 0.50 credit(s) of education in medical ethics and/or professional responsibility.

Memorial Hermann-Texas Medical Center is an approved provider of continuing nursing education by the Texas Nurses Association - Approver, an accredited approver by the American Nurses Credentialing Center’s Commission on Accreditation.

Memorial Hermann is accredited by the Accreditation Council for Pharmacy Education as a provider of continuing pharmacy education. This conference will provide up to 15.2 contact hour(s) or 1.52 continuing education units (CEUs). Pharmacists must register for the meeting and complete an evaluation form for each individual presentation attended. Clearly mark the sessions attended, completely fill out the CE Attendance Form, and provide your NABP eProfile ID and Birth Date (in MMDD format). If the information provided is not clear, you may not receive your continuing education credit.

DISCLOSURE

The Neuro ICU Symposium adheres strictly to the regulations and policies set forth by the ACCME and the Texas Medical Association. In order to maintain independence, fair balance and validity, all Program contents are to be reviewed by the CME office. All faculty speakers, annual meeting committee members, and coordinators are obligated to fully disclose any potential conflicts of interest in providing support and/or content for this educational event.

REGISTRATION INFORMATION

| Registration Fees |
|---|---|---|
| TYPE | EARLY BIRD REGISTRATION (closes Feb 24th) | REGISTRATION (closes Mar 18th) | SINGLE DAY PRICING OPTION |
| Physicians | $450 | $495 | n/a |
| Nurses & Healthcare Professionals (RNs, PAs, NPs, PharmDs etc.) | $250 | $275 | 1 Day: $175 |
| Industry, Hospital Administrators | $625 | $675 | n/a |
| Full-time Students*, Physicians in training | Free of charge | Free of charge | n/a |

*Employed individuals who are only part-time students are not considered as full-time students and are subject to fee based on their status.
CHAIRMAN’S MESSAGE

Welcome to the fifth annual Neuro ICU Symposium in Houston. For the past five years, our conference has grown both in quality and quantity: hundreds of physicians, surgeons and other healthcare providers have come from multiple states and countries. Our symposium is one of the most popular neurocritical care conferences in the country, and we are now moving to an even larger conference center in Houston in order to accommodate a large number of attendees! Once again, we are excited to introduce a whole new set of programs. New for this year, we will dedicate the first full day to two parallel programs: a critical care nursing symposium and a 2017 Neurocritical Care Board Examination review course. Our Program content this year will also highlight the latest Brain Trauma Foundation guidelines and pertinent medical evidence. As usual, neurocritical care education will go beyond the boundaries of a Neuro ICU. A strong emphasis will again be placed on prehospital care as well as ultra-early brain resuscitation that starts in the emergency room. Continuing from previous years, we will discuss the relationship between the heart and the brain in order to optimize the delivery of oxygen and restore cerebral blood flow.

We live in a generation of evidence-based medicine, but there are many questions we have at the bedside for which we must make instant decisions without much data. In fact, when we do have so-called “class I” data, the papers do not instruct us how to manage our patients, as care must be individualized based on good judgments. For these, we present to you “Hot Topics and Controversies,” constructive debates by leading authorities in the field. Back by popular demand, there will be debate-like programs, called “Different Viewpoints.” Two academic neurointensivists will demonstrate how they manage some of the most challenging clinical cases.

The Neuro ICU Symposium is not just for neurology and neurosurgery issues. Patients often have multi-organ failure, and as such, successful resuscitation is not only geared toward the injured brain but also toward the rest of the body and all other end-organ systems. Saving brains but neglecting the rest of the body is not what a true neurointensivist would do. Brain-injured patients are at a high risk of aspiration and ventilator-associated pneumonia; proficiency in airway management skills are critical. ARDS and other refractory cardiopulmonary conditions are not uncommon. Different states of shock can occur, requiring multiple vasoactive pharmacologic agents and occasionally even the need for ECMO and aortic balloon counterpulsation.

A modern Neuro ICU has become diagnostically and therapeutically a challenging place for clinicians and nurses. Our conference was launched with all of these concerns in mind. Each day, the Program is full of dynamic speakers and plenty of audience involvement.

Please join us for this exciting fifth annual Neuro ICU Symposium in Houston!

Kiwon Lee, M.D., F.A.C.P., F.A.H.A., F.C.C.M.

Course Director and Committee Chairman, Fifth Annual Neuro ICU Symposium • Vice Chairman of Neurosurgery for Critical Care • Associate Professor, Department of Neurology and Vivian L. Smith Department of Neurosurgery • Chief, Division of Neurocritical Care • Director, Neuroscience, Neurotrauma and Neurovascular Intensive Care Unit, McGovern Medical School at UHealth, Mischler Neuroscience Institute, Memorial Hermann-Texas Medical Center, Houston, Texas, USA
SESSION A: CRITICAL CARE NURSING SYMPOSIUM
3rd Floor, Imperial Ballroom West
• A full-day course dedicated to an intensive care unit and neuroscience ward nursing symposium
• A comprehensive program for neurocritical care and comprehensive stroke nursing
• Ethical dilemmas and neuro Jeopardy

PROGRAM SCHEDULE
8 a.m.  Continental Breakfast and Registration
8:50 a.m.  Welcome remarks to the first annual Critical Care Nursing Symposium
            Nicole Harrison, M.B.A., B.S.N., RN

A.M. SESSION 1  NURSING SYMPOSIUM I: NEUROCRITICAL CARE NURSING
                 Moderators: Alese Henderson, B.S.N., RN, and Austin Schultea, B.S.N., RN, CCRN
9 a.m.  Why Did We Choose Neurocritical Care Nursing? • Colleen Zuckero, B.S.A., RN, CNRN
9:30 a.m.  Advanced Neurological Assessment: The Most Powerful Tool is Your Neuro Exam! •
            Alese Henderson, B.S.N., RN
10 a.m.  Neurological Emergencies and Brain Code • Kiwon Lee, M.D., FACP, FAHA, FCCM
10:30 a.m.  Break
11 a.m.  Hypertonic Saline Versus Mannitol in Traumatic Intracranial Hypertension •
            Sophie Samuel, PharmD, BCPS
11:30 a.m.  Unstable Patients: Neuro and Cardiac Monitoring • Wamda Ahmed, M.D.
Noon  Lunch

P.M. SESSION 1  NURSING SYMPOSIUM II: COMPREHENSIVE STROKE MANAGEMENT
                 Moderators: Jennifer Moran, M.S.N., ACNP-BC and Nicole Harrison, M.B.A., B.S.N., RN
1 p.m.  How to Achieve The Joint Commission’s CSC Designation and Sustain It •
            Nicole Harrison, M.B.A., B.S.N., RN and Sandi Shaw, B.S.N., RN
1:30 p.m.  What’s in the Details: Get with the Guidelines for Acute Stroke Nursing •
            Jennifer Moran, M.S.N., ACNP-BC
2 p.m.  Intracerebral Hemorrhages and Aneurysmal Subarachnoid Hemorrhage •
            Tiffany Chang, M.D.
2:30 p.m.  Break
3 p.m.  Neurorehabilitation and Recovery • Erin Hutchins, M.O.T., OTR

P.M. SESSION 2  INTERACTIVE SESSIONS: AUDIENCE RESPONSE SYSTEM FOR PARTICIPATION
                 Moderators: Christina Luther, B.S.N., RN and Jenna Snow, B.S.N., RN
3:30 p.m.  Ethical dilemmas: Who is the decision maker? Why are we continuing medical care?
            Is this futile? • Kim Vu, LMSW
4 p.m.  Neuro Jeopardy • Christina Luther, B.S.N., RN and Jenna Snow, B.S.N., RN
4:45 p.m.  Adjourn

OPENING NIGHT RECEPTION
5 p.m.  Opening Night Welcome Reception and Exhibition
            Poster Presentation
            All Invited
            Hyatt Regency Houston – 2nd Floor Level, Windox Box
## PROGRAM SCHEDULE

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>8 a.m.</td>
<td>Continental Breakfast and Registration</td>
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<tr>
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<td><strong>A.M. SESSION</strong></td>
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<tr>
<td></td>
<td>NEUROCRITICAL CARE BOARD REVIEW: CRITICAL CARE MEDICINE SECTION</td>
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<tr>
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<td>Moderator: Tiffany Chang, M.D.</td>
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<tr>
<td>9 a.m.</td>
<td>Acute Coronary Syndrome, Heart Failure, and Conduction Disturbances • Salman A. Arain, M.D.</td>
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<td>9:20 a.m.</td>
<td>ARDS, Mechanical Ventilation and VTE/PE • Karin M. Halvorson, M.D.</td>
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<td>9:40 a.m.</td>
<td>Fluid, Electrolytes and Acute Kidney Injuries • Kevin Finkel, M.D.</td>
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<tr>
<td>10 a.m.</td>
<td>Endocrine Disorders in the ICU • Robert Brown, M.D.</td>
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<td>10:20 a.m.</td>
<td><strong>Break</strong></td>
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<tr>
<td>10:40 a.m.</td>
<td>GI Bleeding and Hepatic Failure • Reena Chokshi, M.D.</td>
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<tr>
<td>11 a.m.</td>
<td>Sepsis and Antibiotic Therapies • Karin M. Halvorson, M.D.</td>
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<tr>
<td>11:20 a.m.</td>
<td>Critical Care Coagulopathy and Hemostatic Therapy • Tiffany Chang, M.D.</td>
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<tr>
<td>11:40 a.m.</td>
<td>General Trauma and Burns • Robert Wegner, M.D.</td>
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<tr>
<td>Noon</td>
<td><strong>Lunch</strong></td>
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<td><strong>P.M. SESSION</strong></td>
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<tr>
<td></td>
<td>NEUROCRITICAL CARE BOARD REVIEW: NEURO SECTION</td>
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<tr>
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<td>Moderator: Mathew Koenig, M.D.</td>
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<tr>
<td>1 p.m.</td>
<td>Ischemic Stroke and Intracerebral Hemorrhage • Andrew Barreto, M.D., M.S.</td>
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<td>1:20 p.m.</td>
<td>Aneurysmal Subarachnoid Hemorrhage and AVM • Kiwon Lee, M.D.</td>
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<td>1:40 p.m.</td>
<td>TBI and SCI • Ryan Kitagawa, M.D.</td>
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<tr>
<td>2 p.m.</td>
<td>Status Epilepticus and Seizure Disorders • Jeremy Ragland, M.D.</td>
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<tr>
<td>2:20 p.m.</td>
<td><strong>Break</strong></td>
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<tr>
<td>2:40 p.m.</td>
<td>Neuromuscular Disorders • Thy Nguyen, M.D.</td>
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<td>3 p.m.</td>
<td>CNS Infections • Ritvij Bowry, M.D.</td>
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<td>3:20 p.m.</td>
<td>Toxic Metabolic Disorders • Wamda Ahmed, M.D.</td>
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<tr>
<td>3:40 p.m.</td>
<td>Neuro-Oncology and Paraneoplastic Syndromes • Sigmund Hsu, M.D.</td>
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<tr>
<td>4 p.m.</td>
<td>ICP, Coma, Herniation Syndromes and Brain Death • Mathew A. Koenig, M.D., FNCS</td>
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<tr>
<td>4:20 p.m.</td>
<td><strong>Adjourn</strong></td>
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### OPENING NIGHT RECEPTION

5 p.m. 
Opening Night Welcome Reception and Exhibition 
Poster Presentation  
All Invited  
Hyatt Regency Houston – 2nd Floor Level, Windox Box
DAY TWO: THURSDAY, MARCH 23, 2017

AT THE CORE OF NEUROCRITICAL CARE
3rd Floor, Imperial Ballroom West

PROGRAM SCHEDULE

7 a.m.  Continental Breakfast and Registration
8 a.m.  Opening and Welcome Remarks • Kiwon Lee, M.D., FACP, FAHA, FCCM

A.M. SESSION 1
CEREBROVASCULAR EMERGENCIES
Acute ischemic stroke, aneurysmal subarachnoid hemorrhages and ruptured AVMs, intracerebral hemorrhages and IVH: these are critical topics in a Neuro ICU. Mastering these topics is of paramount importance in running a successful academic neurocritical care program. Let’s hear it from the authorities!
Moderator: James C. Grotta, M.D.

8:10 a.m.  Acute Ischemic Stroke: Past, Present and Future • James C. Grotta, M.D.
8:35 a.m.  Intracerebral Hemorrhage and IVH Management Update • Kevin Finkel, M.D.
9 a.m.  Critical Care Management for High-Grade Aneurysmal SAH • Jose I. Suarez, M.D.
9:25 a.m.  High-Grade SAH: Who Dies and Why • Stephan A. Mayer, M.D.
9:50 a.m.  Panel Discussion / Q&A
10 a.m.  Break - Exhibit hall open

A.M. SESSION 2
VASCULAR NEUROSURGERY
Medical therapies are simply sometimes not enough. Intra-arterial mechanical thrombectomy, EC-IC direct bypass surgery, providing a cure for AVMs – these are all done surgically. Let’s take a closer look at surgical options.
Moderator: Arthur Day, M.D.

10:30 a.m.  Intra-arterial Mechanical Thrombectomy: Use of ASPECTS and Collaterals • P. Roc Chen, M.D.
10:55 a.m.  STA-MCA Bypass Surgery: When to Do It and How to Monitor Them • Spiros Blackburn, M.D.
11:20 a.m.  Surgical Management of AVM and Aneurysm • Arthur Day, M.D.
11:45 a.m.  Vasospasm Monitoring: CTA, TCD, CTP • Ritvij Bowry, M.D.
12:10 p.m.  Panel Discussion / Q&A
12:20 p.m.  Lunch

P.M. SESSION 1
NEUROTRAUMA 2017
The latest Brain Trauma Foundation guidelines have been published and provide higher levels of evidence and recommendations for trauma centers around the world. Hear it directly from the experts in neurotrauma: ICP/CPP targets, brain oxygenation, venous saturations and more! This exciting session will help you construct protocols for your own centers.
Moderator: Jose Suarez, M.D.

1:20 p.m.  SPECIAL LECTURE 1 – Introduced by Dr. Jose I. Suarez, M.D.
The Latest Brain Trauma Foundation Guidelines
Andrés M. Rubiano, M.D., Ph.D., FACS, Professor of Neurosurgery, El Bosque University, Bogota, Colombia

1:50 p.m.  Different Views: Refractory ICP in TBI
Surgical Decompression Is the Way to Go: Ryan Kitagawa, M.D.
Medical Management Is Often Preferred: Robert Brown, M.D.
### DAY THREE: FRIDAY, MARCH 24, 2017

#### PROGRAM SCHEDULE

<table>
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<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>7 a.m.</td>
<td>Continental Breakfast and Registration</td>
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</table>
|        | **A.M. SESSION 1**  
|        | **SIMULATION LABS AND WORKSHOPS**  
|        | 2nd Floor, Window Box                                                |
|        | Join us for fun and interactive simulation labs and workshops. In just an hour, you will familiarize yourself with critical care ultrasonography, transcranial Doppler and multiple neuroimaging modalities.  
|        | Moderator: Robert Brown, M.D.                                        |
| 8 a.m. | Emergency and Critical Care Ultrasonography • Edwin Wu, M.D.        |
|        | Transcranial Doppler • Andrew Barreto, M.D., M.S.                    |
|        | CT, ASPECTS, CTA, CTV, ANGIO • Robert Brown, M.D.                   |
|        | Targeted Temperature Management • Jeremy Ragland, M.D.               |

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<tr>
<td>2:20 p.m.</td>
<td>Brain Oxygenation and SjvO2 Monitoring: Should It Be Standard? • Andres M. Rubiano, M.D., Ph.D., FACS</td>
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<tr>
<td>2:45 p.m.</td>
<td>Coagulation Disturbances in TBI: What to Do with Those Bleeding and Clotting Patients • Tiffany Chang, M.D.</td>
</tr>
<tr>
<td>3:10 p.m.</td>
<td>Panel Discussion / Q&amp;A</td>
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<tr>
<td>3:20 p.m.</td>
<td>Break - Exhibit hall open</td>
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### P.M. SESSION 2

#### MEDICAL COMPLICATIONS MANAGEMENT

Sodium, water balance, DI, SIADH, CSW, steroids and adrenal insufficiencies: putting them all together to optimize homeostasis for critically ill patients.

What is the latest information about blood pressure targets after multiple class-I type evidences have been published?

**Moderator: Kees Polderman, M.D., Ph.D.**

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<td>3:40 p.m.</td>
<td>Fluid, Electrolytes and Everything Else • Kees Polderman, M.D., Ph.D.</td>
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<td>4:05 p.m.</td>
<td>Acute Respiratory Distress Syndromes and ECMO • Bindu Akkanti, M.D.</td>
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| 4:30 p.m. | SPECIAL LECTURE 2 – Introduced by Kees Polderman, M.D., Ph.D.  
|          | Blood Pressure Management after Intracerebral Hemorrhage  
|          | Jose I. Suarez, M.D., Professor of Neurology and Neurosurgery, Baylor College of Medicine, Houston, Texas |
| 5 p.m.   | Panel Discussion / Q&A                                                |
| 5:10 p.m. | Adjourn                                                               |

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### OPENING NIGHT RECEPTION

6:30 p.m. | Faculty Dinner (Speakers only)
DAY THREE: FRIDAY, MARCH 24, 2017

PROGRAM SCHEDULE

A.M. SESSION 2  
SPECIAL LECTURES FOR SUPER-SICK PATIENTS  
3rd Floor, Imperial Ballroom West  

Patients who suffer from multiple organ failures and challenging neurological crises—these are super-sick patients whom you can save. Learn how to save lives beyond expectation from the masters of neurocritical care!  

Moderator: Stephan A. Mayer, M.D., FCCM  

9 a.m.  
SPECIAL LECTURE 3  
Encephalitis and Super Refractory Status Epilepticus  
Stephan A. Mayer, M.D., FCCM  

9:30 a.m.  
SPECIAL LECTURE 4  
Refractory ICP Crisis and Herniation Syndromes  
Matthew A. Koenig, M.D., FNCS  

10 a.m.  
SPECIAL LECTURE 5  
Targeted Temperature Management  
Kees Polderman, M.D., Ph.D.  

10:30 a.m.  
SPECIAL LECTURE 6  
Advanced Hemodynamic Management  
Kiwon Lee, M.D., FACP, FAHA, FCCM  

11 a.m.  
Panel Discussion / Q&A  
Lunch

A.M. SESSION 3  
CROSSFIRE DEBATE—HOT TOPICS AND CONTROVERSIES  

You need answers now. You don’t have time to wait for more Class I type evidence!  
For hot topics and controversies, what do experts think? Hear from and vote for winners.  

Moderator: Kiwon Lee, M.D., FACP, FAHA, FCCM  

Panel: George Williams, M.D.; Jose Suarez, M.D.; Tiffany Chang, M.D.; Matthew A. Koenig, M.D., FNCS; Kiwon Lee, M.D., FACP, FAHA, FCCM  

(Panel members are to ask questions before rebuttal. There is a prize for the winners.)  

11:30 a.m.  
“Intrathecal rt-PA Injection for IVH to Improve Long-term Neurological Outcomes”  
Arthur Day, M.D. (totally do it)  
James C. Grotta, M.D. (no way)  

11:55 a.m.  
“Treatment of Angiographic Vasospasm with Intra-arterial Vasodilators for Asymptomatic Patients”  
Gary Spiegel, M.D. (totally do it)  
Stephan A. Mayer, M.D., FCCM (no way)  

12:20 p.m.  
Adjourn
TRAVEL AND HOTEL ACCOMMODATIONS

Hyatt Regency Houston
1200 Louisiana St.
Houston, Texas 77002

Be sure to reserve your hotel rooms early! Discounted rooms are available to participants until February 21, 2017, at 5 p.m. CST, or until the designated block of rooms is reserved. The group rate for a single/double is $199.

Reserve your room on our website – under “Travel and Accommodations.”

If booking travel, guests can fly into either Bush Intercontinental Airport (IAH) or Houston Hobby Airport (HOU).

Additional questions regarding travel or hotel accommodations? Please call Brittany Zalman at 713.500.6128.

Visit our 2017 Neuro ICU Symposium site on both your computer and phone to receive exclusive event information, including:

- Detailed conference schedule
- Speaker bios, topics and notes
- Venue maps and information

And much more!

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For additional information, please visit neuroicusymposium.org or call Brittany Zalman at 713.500.6128.