Third Annual Neuro ICU Symposium
Cutting-edge Management of Neurological and Neurosurgical Emergencies and Critical Care
MARCH 4-6, 2015
J.W. Marriott, Houston, Texas
DATE
March 4-6, 2015

LOCATION
J.W. Marriott Convention Center
5150 Westheimer Rd.
Houston, Texas 77056

COURSE DESCRIPTION
The third annual Neuro ICU Symposium is a three-day course designed to educate physicians and other healthcare professionals on how to optimally manage patients using a team approach. Emphasis will be placed on treating patients early, starting in the emergency room. The course starts off with a one-day comprehensive neurocritical care board examination review. Each day features interactive sessions including hands-on workshops for continuous EEG, invasive multimodality brain monitoring and advanced hemodynamic monitoring. New for this year is Billing 101 and 102 and how to build a physician-nurse team. Attendees can participate in Critical Care Jeopardy (with prizes) and debate sessions for controversial topics in neurocritical care.

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

1. Discuss the latest evidence-based and cutting-edge medical literature in acute neurological and neurosurgical emergencies
2. Review current hot topics in neurological and neurosurgical emergencies.
3. Evaluate state-of-the-art management protocols for use in the emergency room and Neuro ICU
4. Discuss new therapies that are available, and interpret the impact of recent clinical trial data on clinical practice
5. Identify advanced diagnostic and treatment techniques that apply to patients with acute neurological injury

AUDIENCE
• General and consult neurologists, stroke neurologists, neurointensivists
• Neurosurgeons
• Pulmonary critical care physicians
• Surgical critical care and general/trauma surgeons
• Anesthesia and critical care physicians
• Emergency medicine physicians
• Critical care registered nurses, neurological nurses
• Acute care nurse practitioners, physician assistants
• EMT and paramedics
• Pharmacists
• Physicians in training
2015 HIGHLIGHTS

2015 UCNS Neurocritical Care Board Review Course: How to ace the test

Advanced Hemodynamic Management: Injured brain desperately needs hemodynamic optimization

Critical Care Sonography: Seeing is believing

Hands-on Workshop: The more interaction, the better

Controversy Debate: If there is no data, what do you go by?

Jeopardy: Who wants to be a REAL neurointensivist?

Billing 101 and 102: You deserve to be paid

MD-RN Interactions: Nursing perspectives—what doctors need to know
COURSE DIRECTOR

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

UNIVERSITY OF TEXAS HOUSTON MEDICAL SCHOOL FACULTY SPEAKERS

• Andrew Barreto, M.D., Assistant Professor, Department of Neurology, UTHealth Medical School
• Tiffany Chang, M.D., Assistant Professor of Neurosurgery and Neurology, UTHealth Medical School
• P. Roc Chen, M.D., Assistant Professor, Vivian L. Smith Department of Neurosurgery, UTHealth Medical School
• H. Alex Choi, M.D., Assistant Professor, Vivian L. Smith Department of Neurosurgery and Neurology, UTHealth Medical School
• Arthur Day, M.D., Professor, Vivian L. Smith Department of Neurosurgery, Director of Neurosurgery Residency Training Program, UTHealth Medical School
• Aleksandra M. De Golovine, M.D., Assistant Professor, Department of Internal Medicine, UTHealth Medical School
• Pratik B. Doshi, M.D., Assistant Professor, Critical Care Medicine, Departments of Emergency Medicine and Internal Medicine, UTHealth Medical School
• Ann Dougherty, M.D., Professor, Department of Internal Medicine, Division of Cardiovascular Medicine, UTHealth Medical School
• Nancy Edwards, M.D., Assistant Professor, Vivian L. Smith Department of Neurosurgery and Neurology, UTHealth Medical School
• Miguel A. Escobar, M.D., Professor, Departments of Medicine and Pediatrics Division of Hematology, UTHealth Medical School
• Rima Gidwani, M.D., Assistant Professor, Department of Internal Medicine, UTHealth Medical School
• Nicole Gonzales, M.D., Associate Professor, Department of Neurology, UTHealth Medical School
• James C. Grotta, M.D., Vascular Neurologist, Memorial Hermann-Texas Medical Center, Director Mobile Stroke Unit
INVITED FACULTY SPEAKERS

Edward Manno, M.D.
Professor of Neurosurgery and Neurology
Chief, Neurocritical Care
Cerebrovascular Center
Cleveland Clinic
Ohio, Cleveland
Vice President, Neurocritical Care Society

Dong-Eog Kim, M.D., Ph.D.
Professor and Chairman, Department of Neurology
Head, Cerebrovascular Diseases
Director, Molecular Imaging and Vascular Neurology Research, Dongkuk University School of Medicine, Seoul, Korea
Treasurer, Korean Stroke Society

Gene Sung, M.D.
Assistant Professor, Department of Neurology
Chief, Division of Stroke and Neurocritical Care
Keck School of Medicine at USC
Los Angeles, California
Past President, Neurocritical Care Society

Joseph Meltzer, M.D.
Associate Professor, Anesthesiology and Critical Care
Director, Cardiothoracic Intensive Care Unit
Program Director, Anesthesiology Critical Care Medicine Fellowship, David Geffen School of Medicine at UCLA, Los Angeles, California

- Daniel H. Kim, M.D., Professor and Director, Spine Neurosurgery and Reconstructive Peripheral Nerve Surgery, Vivian L. Smith Department of Neurosurgery, UTHealth Medical School
- Ryan Kitagawa, M.D., Assistant Professor, Vivian L. Smith Department of Neurosurgery, UTHealth Medical School
- 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, UTHealth Medical School
- Michael Van Meter, M.D., M.P.H., Assistant Professor of Emergency Medicine, UTHealth Medical School
- Thy Nguyen, M.D., Assistant Professor and Co-Director of Electromyography Laboratory, UTHealth Medical School
- Bela Patel, M.D., Associate Professor of Medicine, Director of Critical Care Medicine, Executive Medical Director of Critical Care Medicine, UTHealth Medical School
- David I. Sandberg, M.D., Associate Professor and Director of Pediatric Neurosurgery, Vivian L. Smith Department of Neurosurgery, UTHealth Medical School
- Paul Schulz, M.D., Associate Professor of Neurology, Department of Neurology, UTHealth Medical School
- Scott R. Shepard, M.D., Assistant Professor, Vivian L. Smith Department of Neurosurgery, UTHealth Medical School
- Clark Sitton, M.D., Assistant Professor, Department of Diagnostic and Interventional Imaging, Division of Neuroradiology, UTHealth Medical School
- David Victor, M.D., Assistant Professor of Medicine, Weill Medical College of Cornell University, Division of Transplant Hepatology and Gastroenterology, Houston Methodist Hospital
- George Williams, M.D., Assistant Professor and Assistant Program Director of Residency and Critical Care Fellowship, Department of Anesthesiology, UTHealth Medical School
2015 PLANNING COMMITTEE

- **Kiwon Lee, M.D.**, Associate Professor and Vice-Chair of Critical Care, Vivian L. Smith Department of Neurosurgery and Neurology, Director of Neurocritical Care, UTHealth Medical School
- **Tiffany Chang, M.D.**, Assistant Professor of Neurosurgery and Neurology, UTHealth Medical School
- **Brooke Moore**, Program Coordinator of Residency Training Program, Vivian L. Smith Department of Neurosurgery, UTHealth Medical School
- **Nicole Harrison, RN, BSN, MBA**, Administrative Director, Mischer Neuroscience Institute, Memorial Hermann-Texas Medical Center, Houston, Texas
- **Hannah Mount**, Marketing Representative, Mischer Neuroscience Associates, Houston, Texas
- **Alisse Pratt**, Director of Marketing, Mischer Neuroscience Associates, Houston, Texas
- **Gayla Bruner, RN, BSN**, Memorial Hermann Health System, Office of Continuing Medical Education

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 Memorial Hermann Health System and The University of Texas Health Science Center at Houston. Memorial Hermann Health System is accredited by the TMA to provide continuing medical education for physicians.

The Memorial Hermann Health System designates this live activity for a maximum of 20.5 AMA PRA Category 1 Credits™. Participants should claim only the credit commensurate with the extent of their participation in the activity. The presentations “MD-RN Interaction – How to build a fabulous Neuro-ICU: the good, the bad and the ugly”, “Billing 101 and 102: Because you deserve to be paid”, and “End of life management: how to approach the family, decision makings, palliative and hospice care” have been designated by Memorial Hermann Health System for a total of 1 credit 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, an accredited approver by the American Nurses Credentialing Center’s Commission on Accreditation. This activity provides 20.0 contact hours of nursing continuing education.


disclosure

The Neuro ICU Symposium adheres strictly to the regulations and policies set forth by the CME office of the Memorial Hermann Health System. 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 Fees**

<table>
<thead>
<tr>
<th>TYPE</th>
<th>EARLY BIRD REGISTRATION (closes Jan 20th)</th>
<th>REGISTRATION (closes Mar 1st)</th>
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<tbody>
<tr>
<td>Physicians</td>
<td>$425</td>
<td>$475</td>
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<tr>
<td>Nurses &amp; Healthcare Professionals(RNs, PAs, NPs, etc.)</td>
<td>$150</td>
<td>$195</td>
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<tr>
<td>Industry, Hospital Administrators</td>
<td>$550</td>
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<tr>
<td>Full-time Students*, Physicians in training</td>
<td>Free of charge</td>
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*Employed people who are only part-time students are not considered as full-time students and subject to fee based on their backgrounds.


DIRECTOR’S MESSAGE

Welcome to the third annual Neuro ICU Symposium: Cutting-edge Management of Neurological and Neurosurgical Emergencies and Critical Care. This year is more exciting than ever. Our meeting organizers have spent a considerable amount of time and effort to make it not just “one of those” annual meetings. It will look and feel different. Many of the exciting new topics and speakers will engage the audience. Some of the highlights include MD-to-RN interactions—an “easier-said-than-done” concept, but essential for building a fabulous Neuro ICU. We will get to hear about nursing perspectives. We have included ICU billing and coding. Also part of the symposium is a good old hands-on workshop that includes some of the latest technologies, such as advanced hemodynamic managements and critical care sonography. There will be a national board exam for neurocritical care in 2015, so we will start off with a full day of board review.

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 rest of the body is not what a true neurointensivist would do. Brain injured patients are at 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. We welcome you to join us and interact with the nationally and internationally renowned speakers, and get on the stage to win prizes at “Who Wants to Be a Real Neurointensivist?” – a medical Jeopardy-like quiz contest. Each day, the program is full of dynamic speakers and plenty of audience involvement.

Please join us for this exciting third annual Neuro ICU Symposium!

Kiwon Lee, M.D., FACP, FAHA, FCCM
Course Director and Committee Chairman, Third Annual Neuro ICU Symposium
Vice Chairman of Neurosurgery for Critical Care
Associate Professor, Department of Neurology and Vivian L. Smith Department of Neurosurgery
UTHealth Medical School

Chief, Division of Critical Care
Director, Neuroscience and Neurotrauma ICU
Memorial Hermann Mischer Neuroscience Institute at the Texas Medical Center
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Topic</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>7 a.m.</td>
<td>Continental Breakfast</td>
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<tr>
<td>7:40 a.m.</td>
<td>AM SESSION NEUROLOGICAL DISORDERS</td>
<td>Acute Ischemic Stroke • Andrew Barreto, M.D.</td>
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<tr>
<td>8:05 a.m.</td>
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<td>Intracerebral Hemorrhage • Nicole Gonzales, M.D.</td>
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<td>8:30 a.m.</td>
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<td>Subarachnoid Hemorrhage • Nancy Edwards, M.D.</td>
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<td>8:55 a.m.</td>
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<td>Cerebral Venous Sinus Thrombosis • Andrew Barreto, M.D.</td>
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<tr>
<td>9:20 a.m.</td>
<td></td>
<td>Seizures and Status Epilepticus • H. Alex Choi, M.D.</td>
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<tr>
<td>10:15 a.m.</td>
<td>PM SESSION GENERAL CRITICAL CARE MEDICINE</td>
<td>Traumatic Brain Injury and Spinal Cord Injury • Ryan Kitagawa, M.D.</td>
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<tr>
<td>10:40 a.m.</td>
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<td>Herniation Syndromes and ICP Crisis • Tiffany Chang, M.D.</td>
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<tr>
<td>10:40 a.m.</td>
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<td>Neuromuscular Diseases • Thy Nguyen, M.D.</td>
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<tr>
<td>11:05 a.m.</td>
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<td>Central Nervous System Infection • H. Alex Choi, M.D.</td>
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<tr>
<td>1:20 p.m.</td>
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<td>Airway and Mechanical Ventilation • George Williams, M.D.</td>
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<td>1:45 p.m.</td>
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<td>Endocrine and Electrolyte Disorders • Nancy Edwards, M.D.</td>
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<td>2:10 p.m.</td>
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<td>Acute Lung Injury and ARDS • Bela Patel, M.D.</td>
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<td>2:35 p.m.</td>
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<td>Acute Coronary Syndromes and Heart Failure • Michael Van Meter, M.D., M.P.H.</td>
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<tr>
<td>3 p.m.</td>
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<td>Cardiac arrhythmias • Ann Dougherty, M.D.</td>
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<td>3:55 p.m.</td>
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<td>Sepsis and Septic Shock • Pratik Doshi, M.D.</td>
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<tr>
<td>4:20 p.m.</td>
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<td>GI and Hepatic Emergencies • David Victor, M.D.</td>
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<tr>
<td>4:45 p.m.</td>
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<td>DIC, bleeding disorders and coagulopathy • Miguel A. Escobar, M.D.</td>
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<tr>
<td>5:10 p.m.</td>
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<td>Opening night reception</td>
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<tr>
<td>5:30 p.m.</td>
<td>OPENING NIGHT WELCOME RECEPTION</td>
<td>Opening night reception</td>
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<td>All guests invited</td>
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<td>JW Marriott Main Lobby- Mezzanine level</td>
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</table>
## Day Two: Thursday, March 5, 2015

### Neurological and Neurosurgical Emergencies and Critical Care

#### Program Schedule

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>7 a.m.</td>
<td>Continental Breakfast</td>
</tr>
</tbody>
</table>
| 8:00 a.m. | AM Session | Hot Topics in Cerebrovascular Diseases  
**Moderator:** James Grotta, M.D.  
- 7:40 a.m. | Thrombolysis in the Ambulance: Mobile Stroke Unit 2015  
• James C. Grotta, M.D.  
- 8:05 a.m. | Quantification of Coagulopathy: Thromboelastography in the ICU  
• Tiffany Chang, M.D.  
- 8:30 a.m. | Coumadin, Factor Xa Inhibitor, Direct Thrombin Inhibitors: When to Use Them and How to Reverse Them  
• Gene Sung, M.D.  
- 8:55 a.m. | Hemicraniectomy: Timing and Recognizing Its Complications  
• Kiwon Lee, M.D.  
- 9:20 a.m. | Panel Discussion/Q&A  
- 9:30 a.m. | Break – Exhibit hall open |
| 9 a.m. | AM Session | Vascular Neurosurgery Update  
**Moderator:** Arthur L. Day, M.D.  
- 9:50 a.m. | Complex Aneurysms: Endovascular Approach Is Still Possible  
• P. Roc Chen, M.D.  
- 10:15 a.m. | Cerebrovascular Bypass Surgery  
• Arthur L. Day, M.D.  
- 10:40 a.m. | Panel Discussion/Q&A |
| 11 a.m. | AM Session | Trauma Update  
**Moderator:** Daniel Kim, M.D.  
- 10:50 a.m. | Traumatic Brain Injury and Acute Spinal Cord Injury  
• Ryan Kitagawa, M.D.  
- 11:15 a.m. | Management of Spinal Diseases and Acute Cord Injuries  
• Daniel Kim, M.D.  
- 11:40 a.m. | Subdural Hematoma: Timing and Indication of Surgery  
• Scott Shepard, M.D.  
- 12:05 p.m. | Panel Discussion/Q&A  
- 12:15 p.m. | Lunch Break – Boxed lunches provided |
| 12 p.m. | Special Lectures  
**Moderator:** Kiwon Lee, M.D.  
- 1:10 p.m. | 2015 Keynote Speaker  
Introduction by Kiwon Lee, M.D.  
Cardiopulmonary Complications After Acute Neurological and Neurosurgical Illnesses  
Edward Manno, M.D.  
Head, Neurocritical Care  
Cleveland Clinic  
Vice President, Neurocritical Care Society |
# 2015 Neuro ICU Symposium

## Day Two: Thursday, March 5, 2015

### Program Schedule (PM Sessions)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Presenter(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:40 p.m.</td>
<td>Pediatric Neurosurgery</td>
<td>David Sandberg, M.D.</td>
</tr>
<tr>
<td>2:05 p.m.</td>
<td>Modern Neuroimaging on acute stroke and TBI</td>
<td>Clark Sitton, M.D.</td>
</tr>
<tr>
<td>2:30 p.m.</td>
<td>Comprehensive Stroke Center Development: How to Do It and Why Neuro ICU and Neurosurgery Are a Must</td>
<td>Gene Sung, M.D.</td>
</tr>
<tr>
<td>2:55 p.m.</td>
<td>Medical Management for Stroke Prevention</td>
<td>Dong Eog Kim, M.D., Ph.D.</td>
</tr>
<tr>
<td>3:20 p.m.</td>
<td>Panel Discussion/Q&amp;A</td>
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<tr>
<td>3:30 p.m.</td>
<td>Break – Exhibit hall open</td>
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### Program Schedule (Special Session – New for 2015)

<table>
<thead>
<tr>
<th>Time</th>
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<th>Presenter(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3:50 p.m.</td>
<td>MD-RN interaction: How to Build a Fabulous Neuro ICU</td>
<td>Heather Webster, RN</td>
</tr>
<tr>
<td>4:10 p.m.</td>
<td>Billing 101 and 102: Because You Deserve to Be Paid</td>
<td>Edward Manno, M.D.</td>
</tr>
<tr>
<td>4:30 p.m.</td>
<td>End of Life Management: How to Approach the Family, Decision Making, Palliative and Hospice Care</td>
<td>Caroline A. Ha, M.D.</td>
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</tbody>
</table>

### ARS Workshop: Case-Based and Audience Response

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Presenter(s)</th>
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</thead>
<tbody>
<tr>
<td>4:50 p.m.</td>
<td>ICU Horrendiomas: What Would You Do Next?</td>
<td>H. Alex Choi, M.D.</td>
</tr>
<tr>
<td>5:15 p.m.</td>
<td>Critical Care Sonography: Seeing Is Believing</td>
<td>Joseph Meltzer, M.D.</td>
</tr>
<tr>
<td>5:40 p.m.</td>
<td>Adjourn</td>
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</table>

### Faculty Dinner Reception (Faculty speakers only)

- 7 p.m.

## Day Three: Friday, March 6, 2015

### Program Schedule

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Presenter(s)</th>
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<tbody>
<tr>
<td>7 a.m.</td>
<td>Continental Breakfast</td>
<td></td>
</tr>
<tr>
<td>7:30 a.m.</td>
<td>Acute Renal Failure and Renal Replacement Therapy</td>
<td>Aleksandra De Golovine, M.D.</td>
</tr>
<tr>
<td>8:55 a.m.</td>
<td>Liver Failure and Hepatic Encephalopathy</td>
<td>David Victor, M.D.</td>
</tr>
<tr>
<td>8:20 a.m.</td>
<td>Severe Sepsis and Septic Shock Update</td>
<td>Rima Gidwani, M.D.</td>
</tr>
<tr>
<td>8:45 a.m.</td>
<td>Panel Discussion/Q&amp;A</td>
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<tr>
<td>9:55 a.m.</td>
<td>Coffee Break - Exhibit hall open</td>
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</tbody>
</table>
DAY THREE: FRIDAY, MARCH 6, 2015

PROGRAM SCHEDULE (AM SESSIONS)

2 AM SESSION ABC AND EVD Edward Manno, M.D.
9:15 a.m. ECMO and Advanced Mechanical Ventilation in ICU • Joseph Meltzer, M.D.
9:40 a.m. Sedatives and Paralytics for ICU • George Williams, M.D.
10:05 a.m. ICP and EVD Management for Acute Brain Injury • Edward Manno, M.D.
10:30 a.m. Panel Discussion/Q&A
10:40 a.m. Break – Exhibit hall open

3 AM SESSION SPECIAL SESSION – NEW FOR 2015 Kiwon Lee, M.D.
10:50 a.m. Who wants to be a real neurointensivist? • Kiwon Lee, M.D.
11:20 a.m. 2015 SPECIAL LECTURE • Introduction by Kiwon Lee, M.D.
“Direct Thrombus Imaging for Thrombolytic Therapy”
Dong-Eog Kim, M.D., Ph.D.
Chairman, Department of Neurology
Dongguk University, Seoul, Korea

4 AM SESSION CROSSFIRE DEBATE HOT TOPICS AND CONTROVERSIES IN NEUROCRITICAL CARE Kiwon Lee, M.D.
11:45 a.m. “There is enough evidence in favor of endovascular thrombectomy for acute M1 occlusion that all such patients should have thrombectomy up to 6 hours from onset, and tPA is not needed in many of these patients – they should go straight to IA intervention.”
Edward Manno, M.D. (yes)
Gene Sung, M.D. (no way)
12:05 p.m. “There is enough evidence in favor of hemicraniectomy for patients below age 60 with malignant MCA right hemispheric infarcts with cerebral edema and incipient herniation that all such patients should undergo hemicraniectomy.”
James Grotta, M.D. (yes)
Arthur L. Day, M.D. (no way)
12:25 p.m. Adjourn

For more information: neuro.memorialhermann.org/neuro-icu
Download our free 2015 Neuro ICU Symposium App on your mobile phone today to receive exclusive event information including:

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

And much more!