Mayo School of Continuous Professional Development

Neuro Critical Care Review and Workshops: Fundamentals and Complex Multidisciplinary Care

May 14-16, 2015
Loews Royal Pacific, Orlando, FL

Course Directors
W. David Freeman, M.D.
Alejandro A. Rabinstein, M.D.
Eelco F. Wijdicks, M.D., Ph.D.

Co-Course Directors
Jodi D. Hellickson, M.S., A.P.R.N., C.N.S.
Daniel A. Jackson, Pharm.D., BCPS
Christina C. Smith, A.R.N.P.

REGISTER ONLINE NOW!
Registration and additional course information can be found on our NEW course website: ce.mayo.edu
(Learning Group: Neurology)
COURSE DESCRIPTION
This course is designed for medical providers who care for patients with neurological emergencies, acute stroke and brain hemorrhage, acute brain injury, coma and neurological disorders that require hospital, Emergency Department and Intensive Care Unit (ICU) evaluation and management. The course will provide a mixture of didactic, case-based, and evidence-based guideline review, as well as hands-on workshops in central line placement, critical care ultrasound including focused cardiac and lung ultrasound, transcranial Doppler ultrasound, intracranial monitoring and bolt placement, hypothermia and targeted temperature management (TTM), ICU EEG, and multimodal monitoring case review.

COURSE LEARNING OBJECTIVES
Upon conclusion of this program, participants should be able to:

• Demonstrate enhanced medical knowledge by updates in neurological emergencies and national guidelines for acute ischemic stroke, subarachnoid hemorrhage and traumatic brain and spinal cord injury

• Utilize interactive sessions in ICU EEG and hypothermia, and hands-on workshops for airway and mechanical ventilation, central lines, critical care ultrasound, intracranial device placement

Attendance at this Mayo course does not indicate nor guarantee competence or proficiency in the performance of any procedures which may be discussed or taught in this course.

INTENDED AUDIENCE
Medical providers from a broad array of disciplines including Emergency Medicine, Neurology, Neurosurgery, Intensivists from Pulmonary, Anesthesia, and Neuro Intensive Care backgrounds as well as ARNP/PA, paramedics/EMS medical personnel, and allied health providers including physical, occupational, and speech therapists who care for patients with these neurological emergencies, or in a Neuro ICU or ICU with these patients are encouraged to attend.

CREDIT
Mayo Clinic College of Medicine is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

Mayo Clinic College of Medicine designates this live activity for a maximum of 18.75 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

This course is eligible for Accreditation Council for Pharmacy Education (ACPE) credits. The exact number of credits has yet to be determined.

Additional CME and self-assessment credits toward Part 2 Maintenance of Certification will be offered.

Other Health Care Professionals
A certificate of attendance will be provided to other health care professionals for requesting credits in accordance with state nursing boards, specialty societies, or other professional associations.

GRANTS AND EXHIBITS
At the time of this printing, a complete listing of commercial supporters (financial or in-kind) was not available. Appropriate acknowledgment will be given to all supporters at the time of the meeting.

Exhibits will be available for viewing at all scheduled breaks.

DATE AND LOCATION
The Neuro Critical Care Review and Workshops: Fundamentals and Complex Multidisciplinary Care course is held May 14-16, 2015. Course headquarters are located in Loews Royal Pacific, Orlando, Florida.

REGISTRATION
Visit https://ce.mayo.edu/neurology-and-neurologic-surgery/node/2725
The registration fee includes tuition, comprehensive electronic course syllabus, continental breakfasts, lunches and break refreshments. Although it is not Mayo School of Continuous Professional Development (CPD) policy to limit the number of registrants for a course, conference room facilities may necessitate closing of enrollment; therefore, early registration is advised. A letter of confirmation will be sent upon receipt of payment and completed registration form. Contact us at cme-jax@mayo.edu or 800-462-9633 with any questions that you may have.

### Registration Fees

<table>
<thead>
<tr>
<th>Category</th>
<th>Before 03/14/15</th>
<th>After 03/14/15</th>
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<tbody>
<tr>
<td>Physicians and Scientists</td>
<td>$700</td>
<td>$775</td>
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<tr>
<td>Residents, Fellows, PA's, Nurses, Allied Health and Retirees</td>
<td>$550</td>
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CANCELLATION POLICY
If you cancel your participation in this course, your registration fee, less a $75 administrative fee, will be refunded when written notification is received by Mayo School of CPD on or before April 30, 2015 (cme-jax@mayo.edu or fax#: 904-956-3096). No refunds will be made after April 30, 2015. Canceled registrations are non-transferable. Mayo School of CPD reserves the right to cancel or postpone any course due to unforeseen circumstances. In the unlikely event Mayo School of CPD must cancel or postpone this course, Mayo School of CPD will refund the registration fee, but is not responsible for any related costs, charges, or expenses to participants, including fees assessed by airline/travel/lodging agencies.

TRAVEL AND LODGING
ACCOMODATIONS
Loews Royal Pacific
6300 Hollywood Way
Orlando, Florida 32819
Phone: 866-360-7395

Guest rooms, single/double occupancy are reserved for attendees and their guests at the group rate of $199 per night, plus tax. When making a reservation, identify yourself as a participant of the Mayo Clinic Neuro Critical Care Review Workshops: Fundamentals and Complex Multidisciplinary Care or reserve online at http://tinyurl.com/NICC2015. Early reservations are recommended due to the limited number of rooms available. The group rate has been extended three days prior to and three days after the conference based on availability. Check-in time is after 4 p.m. and check-out time is before 11 a.m. Self-parking as well as guestroom internet is complimentary for hotel guests. Parking is $10 per vehicle/per day for course attendees that will be driving in daily.

The swaying palm trees. The tropical breezes. People have always been captivated by the allure of the South Seas. Today, you can experience the wonder of such island paradises as Fiji, Bali and Hawaii without sailing halfway around the globe – at Loews Royal Pacific Resort at Universal Orlando®. Offering 1,000 guest rooms and suites, this AAA Four Diamond Award® winning hotel transports guests to the enchanted isles of the tropics.

ABSTRACTS
Overview: As part of the Neuro Critical Care Review and Workshops: Fundamentals and Complex Multidisciplinary Care, an e-poster session for presentation of original research dedicated to the field of Neuro Critical Care will be held at the meeting. Submitted abstracts may include proposed society guidelines (e.g., AHA, NCS), ongoing randomized trials in neuro critical care, outcome studies, quality improvement or practice innovations, and interesting case reports. Posters will be peer-reviewed.

Accepted abstract recipients notified by email after the deadline, Monday, April 6th 2015. At least one of the authors must register and attend the conference. Details regarding the abstract submission process can be found at: https://ce.mayo.edu/neurology-and-neurologic-surgery/node/2725.

FACULTY
Mayo Faculty
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Charles R. Watts, M.D., Ph.D.

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Professor of Neurology
Head, Section of Vascular Neurology and Neurocritical Care
Baylor College of Medicine
Houston, TX
Thursday, May 14, 2015
Fundamentals of Neuro Critical Care Day

6:45 a.m.  Registration and Continental Breakfast
7:15  Welcome and Pre-Test

Moderator: Alejandro A. Rabinstein, M.D.
7:30  Cerebral Physiology - Intracranial Pressure, Cerebral Perfusion - W. David Freeman, M.D.
7:50  Cerebrovascular Anatomy - Kelly D. Flemming, M.D.
8:10  What’s New in Subarachnoid Hemorrhage? - Alejandro A. Rabinstein, M.D.
8:30  What’s New in Acute Ischemic Stroke? - Kevin M. Barrett, M.D.
8:50  Sedation and Analgesia in Neuro ICU Patients - Charles R. Watts, M.D., Ph.D.
9:40  Panel Q&A
9:50  Break
10:00  Mechanism Monitoring in Neuro ICU Patients - Jeffrey L. Garland, M.D.
10:30  Mechanical Ventilation in Neuro ICU Patients - José L. Díaz-Gómez, M.D.
11:00  Neuro-Ophthalmology Pearls for the Neuro ICU - Paul W. Brazis, M.D.
12:00 p.m.  Q&A
12:15  Lunch

Workshops - Additional fee $100
1:15 - 2:15 Central Line Course (with Ultrasound) (cap of 5 participants per session, 10 total) Philip E. Lowman, M.D. and Jeffrey L. Garland, M.D.
3:15 p.m.  Adjourn

Friday, May 15, 2015
Acute Management and Evidence-Based Updates

6:30 a.m  Continental Breakfast

Moderator: Eelco F. Wijdicks, M.D., Ph.D.
7:00  Seizures, Status and Super-Refractory Status Epilepticus - Sarah E. Hocker, M.D.
7:20  Neurological Prognostication after Cardiac Arrest - Alejandro A. Rabinstein, M.D.
7:40  Update in Treatment of Brain Aneurysms - Giuseppe Lanzino, M.D.
8:00  Q&A, Break
8:20  Acute Traumatic Brain and Spinal Cord Injury Update - David J. Daniels, M.D., Ph.D.
8:40  Acute Meningitis and Encephalitis - Sarah E. Hocker, M.D.
9:00  Management of Hemispheric Stroke with Brain Swelling - Eelco F. Wijdicks, M.D., Ph.D.
9:20  Guillain-Barré Syndrome - Eelco F. Wijdicks, M.D., Ph.D.
9:40  Q&A
9:50  Break
10:00  Advances in Endovascular Treatment of Acute Stroke - Benjamin L. Brown, M.D.
10:30  TeleNeuro ICU - Bart M. Demaerschalk, M.D.
11:00  Keynote Speaker: MISTIE and CLEAR 3 - What do we know so far about minimally invasive brain surgery? - Dan F. Hanley, M.D.
12:00 p.m.  Q&A
12:15  Lunch

Workshops - Additional fee $100
1:15 - 2:15 Intracranial Monitoring Workshop (cap of 20 participants per session, 40 total) Benjamin L. Brown, M.D.
1:15 – 2:15 Neuro Critical Care Ultrasound: Heart, Lung, Abdomen (cap of 10 participants) - José L. Díaz-Gómez, M.D. and Jeffrey L. Garland, M.D.
1:15 – 2:15 Transcranial Doppler (TCD) and TCDI (cap 16 participants) Andrei V. Alexandrov, M.D., Kevin M. Barrett, M.D., Laxmi P. Dhakal, M.B.B.S. and W. David Freeman, M.D.
3:15 p.m.  Adjourn
Saturday, May 16, 2015 - General Session
Advanced & Case-Based Neuro ICU Topics

6:30 a.m.  Continental Breakfast
Moderator: W. David Freeman, M.D.
7:00  Near-infrared Spectroscopy (NIRS) in Neuro ICU Patients: Useful or Not?
Emanuela Keller, M.D.
7:20  The Neuro Critical Care Research Network (NCRN) - Jose Suarez, M.D.
7:40  Multimodal Monitoring & Milan Guidelines - Soojin Park, M.D.
8:00  Q&A
8:10  Break
8:20  Interventional Stroke and Neuroendovascular Cases
Member Submitted Mini-Presentations
8:40  Neuro ICU Survival Stories Member Submitted Mini-Presentations
9:00  Unusual or Rare Neuro ICU Cases Member Submitted Mini-Presentations
9:20  Q&A
9:50  Break

Workshops
10:00  ICU EEG & Status Epilepticus & Super Refractory Status Cases (no limit)
Leslie A. Rudzinski, M.D., Sarah E. Hocker, M.D. and William Tatum, D.O.
10:00  Hypothermia & Targeted Temperature Management (TTM) Protocols
(no limit) Lioudmila V. Karnatovskaia, M.D., Christopher L. Kramer, M.D. and Tyler F. Vadeboncoeur, M.D.
12:00 p.m.  Adjourn

Saturday, May 16, 2015
Allied Health Session - Neuro ICU Nursing Session

6:30 a.m.  Continental Breakfast
Moderators: Christina C. Smith, A.R.N.P. and Jodi D. Hellickson, M.S., A.P.R.N., C.N.S.
7:00  Vascular Neuroanatomy - Sarah H. Peacock, A.R.N.P.
7:20  Stroke Center Documentation Pearls
Suzanne M. Shaw, M.S., M.S.N., R.N., N.E.-B.C.
7:40  Special Considerations & Protocols in Mobilizing Neuro ICU Patients
Scott M. Arnold, P.T. and Olivia A. Davis, O.T.
8:00  Q&A
8:10  Break
8:20  Continuous ICU EEG Issues for Patient Safety and Nursing
Christina C. Smith, A.R.N.P.
8:40  Hyperosmolar Therapy & Protocols for Increased Intracranial Pressure
Daniel A. Jackson, Pharm.D., BCPS
9:00  Neuro ICU RN Training and Specialty Competencies
Jodi D. Hellickson, M.S., A.P.R.N., C.N.S.
9:20  How “Checklists” Can Help in the Neuro ICU
Suzanne M. Brown, B.S.N., C.N.R.N., S.C.R.N
9:40  Q&A
9:50  Break

Workshops
10:00  ICU EEG & Status Epilepticus & Super Refractory Status Cases (no limit)
Leslie A. Rudzinski, M.D., Sarah E. Hocker, M.D. and William Tatum, D.O.
10:00  Hypothermia & Targeted Temperature Management (TTM) Protocols
(no limit) Lioudmila V. Karnatovskaia, M.D., Christopher L. Kramer, M.D. and Tyler F. Vadeboncoeur, M.D.
12:00 p.m.  Adjourn

•Note Concomitant Workshops occur from 10 a.m.-12 p.m.
Program schedule is subject to change without notice.
FACULTY DISCLOSURE
As a provider accredited by ACCME, Mayo Clinic College of Medicine (Mayo School of Continuous Professional Development) must ensure balance, independence, objectivity and scientific rigor in its educational activities. Course director(s), planning committee, faculty, and all others who are in a position to control the content of this educational activity are required to disclose all relevant financial relationships with any commercial interest related to the subject matter of the educational activity. Safeguards against commercial bias have been put in place. Faculty also will disclose any off-label and/or investigational use of pharmaceuticals or instruments discussed in their presentation. Disclosure of this information will be published in course materials so those participants in the activity may formulate their own judgments regarding the presentation.

NATIONAL PHYSICIAN PAYMENT TRANSPARENCY PROGRAM
Mayo Clinic College of Medicine complies with the requirements of the National Physician Payment Transparency Program OPEN PAYMENTS (Physician Payments Sunshine Act).

If you already received a copy of this brochure, please give this one to an interested colleague.

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