

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

<image>

Course Directors

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

Co-Course Directors

Suzanne M. Brown, B.S.N., C.N.R.N., S.C.R.N. 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, casebased, 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/neurologyand-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

Physicians and Scientists	
On or before 03/14/15 -	\$700
After 03/14/15 -	\$775

Residents, Fellows, PA's, Nurses, Allied Health and Retirees

On or before 03/14/15 - **\$550** After 03/14/15 - **\$625**

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

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: <u>https://ce.mayo.</u> <u>edu/neurology-and-neurologic-surgery/</u> <u>node/2725</u>

FACULTY

Mayo Faculty Scott M. Arnold, P.T. Kevin M. Barrett, M.D. Paul W. Brazis, M.D. Benjamin L. Brown, M.D. David J. Daniels, M.D., Ph.D. Olivia A. Davis, O.T. Bart M. Demaerschalk, M.D. Laxmi P. Dhakal, M.B.B.S. José L. Díaz-Gómez, M.D. Kelly D. Flemming, M.D. Jeffrey L. Garland, M.D. Karen W. Hampton, R.R.T. Sarah E. Hocker, M.D. Lioudmila V. Karnatovskaia, M.D. Christopher L. Kramer, M.D. Giuseppe Lanzino, M.D. Philip E. Lowman, M.D. Sarah H. Peacock, A.R.N.P. Suzanne M. Shaw, M.S., M.S.N., R.N., N.E.-B.C. William Tatum, D.O. Tyler F. Vadeboncoeur, M.D. Angela N. Vizzini, R.D.N, L.D./N. Charles R. Watts, M.D., Ph.D.

Guest Faculty

Andrei V. Alexandrov, M.D. Chairman- Department of Neurology Semmes-Murphey Professor University of Tennessee Memphis, TN

Dan F. Hanley, M.D. Jeffrey and Harriet Legum Professor of Acute Neurological Medicine John Hopkins University Baltimore, MD

Emanuela Keller, M.D. Professor, Neurointensive Care Unit Department of Neurosurgery University Hospital Zürich, Switzerland

Soojin Park, M.D. Assistant Professor of Neurology Division of Critical Care and Hospitalist Neurology Columbia University Medical Center New York, NY

Leslie A. Rudzinski, M.D. Assistant Professor of Neurology University of Florida Gainesville, FL

Jose Suarez, M.D. 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	
	Pressure and Cerebral Blood Flow - 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.	
9:20	Nutrition in Neuro ICU Patients - Angela N. Vizzini, R.D.N, L.D./N	
9:40	Panel Q&A	
9:50	Break	
10:00	Hemodynamic 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.	
1:15 - 2:15	Tracheostomy & Airway (cap of 10 participants)	
	José L. Díaz-Gómez, M.D. and Karen W. Hampton, R.R.T.	

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
Worl	cshops - Additional fee \$100
1:15 - 2:15	Intracranial Monitoring Workshop (cap of 20 participants per session, 40 total) <i>Benjamin L. Brown, M.D.</i>
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
Work	shops
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.

Adjourn 12:00 p.m.

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.EB.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 <i>Christina C. Smith, A.R.N.P.</i>	
8:40	Hyperosmolar Therapy & Protocols for Increased Intracranial Pressure	
0.10	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., Ĉ.N.R.N., S.C.R.N	
9:40	Q&A	
9:50	Break	
Work	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.m12 p.m.	
	Program schedule is subject to change without notice.	



MAYO 4500 San Pablo Road CLINIC Jacksonville, Florida 32224



Mayo School of Continuous Professional Development

Neuro Critical Care Review and Complex Multidisciplinary Care Workshops: Fundamentals and May 14-16, 2015

Loews Royal Pacific, Orlando, FL

FACULTY DISCLOSURE

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