



Mayo Clinic School of Continuous Professional Development

CEREBROVASCULAR UPDATE & CONTROVERSIES: Neurology and Neurosurgery

Also offering Emergency Neurological Life Support (ENLS)

Emergency Neurological Life Support (ENLS)



Neurocritical Care Society



10.50
AMA PRA
CATEGORY 1 & AOA
CREDITS™

**THE FOUR SEASONS
LAS VEGAS, NEVADA**

March 22–24, 2018

CE.MAYO.EDU/VASCULARNEURO2018

COURSE HIGHLIGHTS

- This course provides attendees with an update across all major areas of clinical interest in vascular neurology
- Lectures covers management of acute ischemic stroke, brain hemorrhage, symptomatic and asymptomatic vascular lesions including arteriovenous malformations, cavernous malformations, cerebral aneurysms and carotid stenosis
- The course covers the latest diagnostic and therapeutic approaches to stroke
- Lectures are supplemented with highlights of images in clinical vascular neurology, group discussions of clinical vignettes and optional hands-on workshops

TARGET AUDIENCE

This course is intended for neurologists, neurosurgeons, interventional neuroradiologists, primary care physicians, emergency department physicians and allied health staff participating in vascular neurology, nationally and internationally.

LEARNING OBJECTIVES

Upon completion of this activity, participants should be able to:

- Recognize the eligibility for intravenous TPA in acute ischemic stroke and endovascular therapy candidates with large vessel occlusion (LVO)
- Identify modifiable stroke risk factors and interventions (e.g., blood pressure control)
- Recognize the signs and symptoms of stroke that prompt emergency evaluation and earlier evidence-based treatment
- Evaluate the data and outcomes of clinical trials and the impact on treatment options for stroke patients
- Describe recent developments in stroke prevention strategies
- Discuss standard and new treatment options for cerebrovascular diseases

COURSE DIRECTORS

W. David Freeman, M.D.
Kevin M. Barrett, M.D., M.Sc.
Alejandro A. Rabinstein, M.D.
Bart M. Demaerschalk, M.D.
Bernard R. Bendok, M.D.
Sarah H. Peacock, A.R.N.P.

REGISTRATION FEES

Physicians/Scientists

On or before 2/22/18 **\$750**
After 2/22/18 **\$850**

ARNPs and PAs

On or before 2/22/18 **\$400**
After 2/22/18 **\$500**

Residents, Fellows, RNs, Allied Health, and Retirees

On or before 2/22/18 **\$375**
After 2/22/18 **\$475**

Emergency Neurological Life Support (ENLS) Physicians and Scientists

On or before 2/22/18 **\$400**
After 2/22/18 **\$500**

ENLS ARNP/PA, RN, Allied Health, Residents and Fellows

On or before 2/22/18 **\$200**
After 2/22/18 **\$300**

CANCELLATION POLICY

Please visit ce.mayo.edu/cancellation for more information.

LODGING ACCOMMODATIONS

The Four Seasons, Las Vegas, NV
1-877-635-5000

Rooms are reserved for attendees and their guests at the group rate of \$289 per night plus applicable taxes. In order to receive the special rate, reservations must be made before the room block is filled or before the expiration date of February 20, 2018, whichever comes first. The resort has extended the group rate three days prior and three days after the course based on availability. Check-in time is after 3 p.m. and check-out time is by noon. Call the Four Seasons Hotel Las Vegas or [book online](#) and identify yourself as a participant of the Mayo Clinic ENLS & Stroke CME Course.

FACULTY

Mayo Clinic Faculty

Kevin M. Barrett, MD, M.Sc.
Bernard R. Bendok, M.D.
Brian W. Chong, M.D.
Bart M. Demaerschalk, M.D.
Brynn Dredla, M.D.
W. David Freeman, M.D.
Jonathan Graff-Radford, M.D.
Josephine F. Huang, M.D.
Daniel A. Jackson, Pharm.D., R.Ph.
James P. Klaas, M.D.

Gyanendra Kumar, M.D.
Margaret M. Margretta, A.R.N.P.
Diane C. McLaughlin, D.N.P., A.R.N.P.
Cumara B. O'Carroll, M.D.
Sarah H. Peacock, A.R.N.P.
Alejandro A. Rabinstein, M.D.
Leslie V. Simon, D.O.
Amanda D. Tomlinson, A.R.N.P.

Guest Faculty

Michael A. Pizzi, D.O., Ph.D.
University of Florida

PROGRAM SCHEDULE

THURSDAY, MARCH 22, 2018

Pre-Course: Emergency Neurological Life Support (ENLS)
Critical Care in the First Hour
Directors: W. David Freeman, M.D., Leslie V. Simon, D.O., Sarah H. Peacock, A.R.N.P.

7:00 a.m.	Registration and Continental Breakfast
8:00	Introduction and Welcome <i>Moderator: W. David Freeman, M.D.</i>
8:05	Getting registered and set up to ENLS website <i>W. David Freeman, M.D.</i>
8:20	Airway, Ventilation and Sedation <i>Leslie V. Simon, D.O.</i>
8:40	Approach to the Comatose Patient <i>Margaret M. Margretta, A.R.N.P.</i>
9:00	Elevated ICP and Herniation <i>W. David Freeman, M.D.</i>
9:20	Acute Nontraumatic Weakness <i>W. David Freeman, M.D.</i>
9:40	Intracerebral Hemorrhage <i>Amanda D. Tomlinson, A.R.N.P.</i>
10:00	Break and Self-time for 10 Question Modules
10:20	Ischemic Stroke <i>Kevin M. Barrett, M.D., M.Sc.</i>
10:40	Meningitis/Encephalitis <i>Diane C. McLaughlin, D.N.P., A.R.N.P.</i>
11:00	Resuscitation following Cardiac Arrest <i>Amanda Tomlinson, A.R.N.P.</i>
11:20	Spinal Cord Compression <i>Sarah H. Peacock, A.R.N.P.</i>
11:40	Pharmacotherapy <i>Daniel A. Jackson, Pharm.D., R.Ph.</i>
12:00-1:00 p.m.	Lunch and time to work on 10 question modules
1:00	Status Epilepticus <i>Michael A. Pizzi, D.O., Ph.D.</i>
1:20	Subarachnoid Hemorrhage <i>Alejandro A. Rabinstein, M.D.</i>
1:40	Traumatic Brain Injury <i>Michael A. Pizzi, D.O., Ph.D.</i>
2:20	Traumatic Spinal Cord Injury <i>Michael A. Pizzi, D.O., Ph.D.</i>
2:40-6:00 p.m.	Questions and Answers/Online Examination/Adjourn

FRIDAY, MARCH 23, 2018

Day #1- Acute Stroke Management Controversies and Evidence Based Care
Directors: W. David Freeman, M.D., Kevin M. Barrett, M.D., M.Sc., Alejandro A. Rabinstein, M.D., Bart Demaerschalk, M.D., Sarah Peacock, A.R.N.P., Bernard R. Bendok, M.D.

7:30 a.m	Registration and Continental Breakfast
8:30	Introduction and Welcome <i>Moderator: W. David Freeman, M.D.</i>
8:30	Global Burden of Stroke: Reducing Impact and Costs Worldwide <i>Kevin M. Barrett, M.D., M.Sc.</i>
9:00	Intravenous TPA and Mechanical Thrombectomy or Just Thrombectomy Alone: “Caught in the Cross Fire” <i>Bart M. Demaerschalk, M.D., Bernard R. Bendok, M.D.</i> <i>or Brian Chong, M.D.</i>
9:30	Exercise - A Prescription for Stroke Prevention? <i>Kevin M. Barrett, M.D., M.Sc.</i>
10:00	Obstructive Sleep Apnea (OSA) and Stroke: An Overlooked Risk Factor in Stroke? <i>Brynn Dredla, M.D.</i>
10:30	Q&A Panel
10:45	Break
11:00	Safety of IV TPA in “Tricky and Sticky Situations” <i>Bart M. Demaerschalk, M.D.</i>
11:30	Intracerebral Hemorrhage: Where do you want the Blood Pressure and Can I Re-Anticoagulate? <i>Cumara B. O’Carroll, M.D.</i>
Noon	Boxed Lunch – Audience Response System: “BRAIN ATTACK INTERACTIVE” <i>Moderators: Kevin M. Barrett, M.D. & William D. Freeman, M.D.</i>
1:00 p.m.	Acute Cerebrovascular Neurological and Vascular Neurosurgery Emergencies: “Caught in the CrossFire-Part 2:” <i>Bart M. Demaerschalk, M.D., Bernard R. Bendok, M.D., Brian W. Chong, M.D.</i>
1:30 p.m.	CNS Vasculitis and Stroke: A Unicorn in a Herd of Zebras <i>James P. Klaas, M.D.</i>
2:00	Q&A
2:30 p.m.	Adjourn



SATURDAY, MARCH 24, 2018

Day #2: Stroke Update & Treatments on the Horizon

Moderator: Bart M. Demaerschalk, M.D.

7:30 a.m.	Registration and Continental Breakfast
8:30	Morning Welcome <i>Moderator: Bart M. Demaerschalk, M.D.</i>
8:35	Novel Oral Anticoagulants (NOAC's) and DOAC's: Which One to Use in Atrial Fibrillation? <i>Cumara B. O'Carroll, M.D.</i>
9:00	Antiplatelet Agents: Which One to Use? <i>Josephine F. Huang, M.D.</i>
9:30	Sex and Ethnic Disparities in Stroke Care: Filling the Gap <i>Alejandro A. Rabinstein, M.D.</i>
10:00	Cerebromicrobleeds and Why They Matter? <i>Jonathan Graff-Radford, M.D.</i>
10:30	Speaker Panel Q&A 15 min
10:45	Break 15 min
11:00	Stroke Systems of Care-LEAN Teams & Reducing Door To Needle Times <i>Josephine F. Huang, M.D.</i>
11:30	EMS-- Primary or Comprehensive Stroke Center for the Patient in the Field? (Drip and Ship vs "Mothership") <i>Gyanendra Kumar, M.D.</i>
Noon	Lunch in Exhibit Hall
1:00	Mobile Health (mHealth) Apps and Stroke Care: Hype or Reality? <i>W. David Freeman, M.D.</i>
1:30	Cryptogenic Stroke: Approach to ESUS, Vulnerable Plaques & Occult/Paroxysmal Atrial Fibrillation <i>Alejandro A. Rabinstein, M.D.</i>
2:00	Speaker Panel Q&A
2:30	Adjourn

CREDIT

Mayo Clinic and Neurocritical Care Society Emergency Neurological Life Support (ENLS)

This course will provide attendees with an overview of 14 neurological emergencies, including acute ischemic stroke, intracerebral hemorrhage, subarachnoid hemorrhage, meningitis/encephalitis, coma after cardiac arrest and spinal cord injury. The course is designed for a broad group of providers, including emergency medical service paramedics, nurses, residents, fellows, primary care physicians, and physicians specializing in emergency medicine, intensive care, infectious diseases, neurology and neurosurgery. Attendees are encouraged to bring laptops or tablets to take emergency neurological life support (ENLS) online quizzes. Attendees who pass the quizzes will receive an ENLS certificate from the Neurocritical Care Society.

AMA

Mayo Clinic College of Medicine and Science is accredited by the Accreditation Council for Continuing Medical Education (ACCM) to provide continuing medical education for physicians.

Mayo Clinic College of Medicine and Science designates this live activity for a maximum of 10.50 *AMA PRA Category 1 Credits*™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

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.

MAYO CLINIC

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Jacksonville, FL 32224

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