Mayo Clinic School of Continuous Professional Development

Mayo Clinic 9th Annual
Stroke and Cerebrovascular Disease Review 2017

September 14-16, 2017

Course Directors
Kevin M. Barrett, M.D., M.Sc.
Kelly D. Flemming, M.D.
W. David Freeman, M.D.
Giuseppe Lanzino, M.D.

Co-Directors
Suzanne M. Brown, BSN, RN, CNRN, SCRN
Lesia H. Mooney, MSN, RN, CNRN, SCRN, ACNS-BC

The Ritz-Carlton
Amelia Island, Florida

Featuring an
ABPN Approved Self-Assessment Activity

REGISTER NOW!

Registration and additional course information can be found on our course website: ce.mayo.edu/node/27731
COURSE DESCRIPTION
This course will provide attendees with an update across all major areas of clinical interest in vascular neurology. Lectures will cover management of acute ischemic stroke, brain hemorrhage, symptomatic and asymptomatic vascular lesions including arteriovenous malformations, cavernous malformations, cerebral aneurysms, and carotid stenosis. The course will also cover the latest diagnostic and therapeutic approaches to stroke. Lectures will be supplemented with highlights of images in clinical vascular neurology and group discussions of clinical vignettes.

COURSE LEARNING OBJECTIVES
Upon conclusion of this program, 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 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

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
This course is designed for neurologists, neurosurgeons, interventional neuroradiologists, primary care physicians, emergency department physicians, neurology residents, vascular neurology fellows, and stroke center team members including nurse practitioners, nurses, physician assistants, physical and occupational therapists and speech therapists.

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

Mayo Clinic College of Medicine and Science designates this live activity for a maximum of 19.0 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

MOC - Mayo Clinic College of Medicine and Science designates this self-assessment for a maximum of 2 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

AOA - This program has been accredited by the American Osteopathic Association for 19.0 credits of AOA Category 2-A.

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.

This activity has been submitted to the American Association of Neuroscience Nurses for approval to award contact hours. The American Association of Neuroscience Nurses is accredited as an approver of continuing nursing education by the American Nurses Credentialing Center’s Commission on Accreditation.
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.

REGISTRATION

To register online, visit ce.mayo.edu/node/27731. The registration fee includes tuition, electronic course syllabus, continental breakfasts, break refreshments and reception. Although it is not Mayo Clinic 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.

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 Clinic School of CPD on or before Thursday, August 31, 2017 (cme-jax@mayo.edu). No refunds will be made after Thursday, August 31, 2017. Canceled registrations are non-transferable.

Mayo Clinic School of CPD reserves the right to cancel or postpone any course due to unforeseen circumstances. In the unlikely event Mayo Clinic School of CPD must cancel or postpone this course, Mayo Clinic 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.

For additional information, contact:
Mayo Clinic School of Continuous Professional Development
Website: ce.mayo.edu
E-mail: cme-jax@mayo.edu
Phone: 800-462-9633

TRAVEL AND LODGING

The Ritz-Carlton Amelia Island
4750 Amelia Island Parkway
Amelia Island, FL 32034
904-277-1100

A block of coastal view rooms, single/double/triple/quad occupancy are reserved for attendees and their guests at the group rate of $249 per night, plus tax. Call reservations at 866-763-2960 and identify yourself as a participant of the Mayo Clinic Stroke course or reserve online at https://aws.passkey.com/go/9thAnnualCME. Early reservations are recommended due to the limited number of rooms available. In order to receive the special group rate, reservations must be made before the room block is filled or before Tuesday, August 22, 2017, whichever comes first. Check-in time is after 4:00 p.m. and check-out time is before noon. All parking at the resort is provided by valet service. Overnight parking at the resort is $12 per night. Day guest parking is complimentary. Guests will also receive complimentary in-room internet service. Jacksonville International Airport (JAX) is located 35 minutes from The Ritz-Carlton at Amelia Island.

Lodging arrangements are the sole responsibility of the individual registrant.

Mayo Clinic School of CPD is not responsible for expenses incurred by an individual who is not confirmed and for whom space is not available at the meeting. Costs incurred by the registrant such as airline or hotel fees or penalties are the responsibility of the registrant.

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<td>Physicians/Scientists</td>
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| Residents, PAs, RNs, NPs | $450 |
| Stroke Nursing Session Only (Saturday) | $200 |
| Allied Health Session Only | $100 |
| ABPN MOC                  | $25 |
CHALLENGING STROKE CASE ABSTRACTS

Please submit your abstract for poster presentation at this year’s conference. Any challenging stroke case that may be difficult or pose a stroke management dilemma is welcome. Presentation format is a fast-paced presentation (5-6 minutes) followed by a rapid Q&A from the audience and moderators for group discussion. Submit your abstract by Monday, August 14, 2017. At least one of the authors must register and attend the conference. Details regarding the abstract submission can be found at: ce.mayo.edu/node/27731

FACULTY

Mayo Faculty

Maya A. Babu, M.D., M.B.A.  
Kevin M. Barrett, M.D., M.Sc.  
Bernard R. Bendok, M.D.  
Benjamin L. Brown, M.D.  
Robert D. Brown, Jr., M.D., M.P.H.  
Suzanne M. Brown, BSN, RN, CNRN, SCRN  
Brian W. Chong, M.D.  
Rebekah A. Davis, P.T., D.P.T.  
Bart M. Denaerschalk, M.D.  
Benjamin H. Eidelman, M.D.  
Anteneh M. Feyissa, M.D.  
Kelly D. Flemming, M.D.  
W. David Freeman, M.D.  
Jennifer E. Fugate, D.O.  
Jonathan Graff-Radford, M.D.  
Vivek Gupta, M.D.  
Josephine F. Huang, M.D.  
Daniel A. Jackson, Pharm.D., R.Ph.  
James P. Klaas, M.D.  
Giuseppe Lanzino, M.D.  
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Cumara B. O’Carroll, M.D.  
Alejandro A. Rabinstein, M.D.  
Billie A. Schultz, M.D.  
Pankaj Shah, M.D.  
Jason L. Siegel, M.D.  
Rabih G. Tawk, M.D.  
Eelco F. Wijdicks, M.D., Ph.D.  
Lindsay N. Williams, M.D.  
Waldemar E. Wysokinski, M.D., Ph.D.

Guest Faculty

Sarah L. Livesay, DNP, RN, ACNP-BC, ACNS-BC  
Rush University  
Chicago, IL  
Shannon Burns, ARNP  
UF Health, Shands  
Jacksonville, FL

FACULTY DISCLOSURE

As a provider accredited by ACCME, Mayo Clinic College of Medicine and Science (Mayo Clinic 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 and Science complies with the requirements of the National Physician Payment Transparency Program OPEN PAYMENTS (Physician Payments Sunshine Act).

PROGRAM AGENDA
Thursday, September 14, 2017
Fundamentals of Stroke

**Moderator:** W. David Freeman, M.D.

7:15 a.m. Registration and Continental Breakfast
7:45 Welcome and Pre-test - W. David Freeman, M.D.
8:00 Epidemiology of Stroke - Kevin M. Barrett, M.D., M.Sc.
8:30 Case-based Vascular Neuroanatomy
   **Lindsy N. Williams, M.D.**
9:00 Stroke Pathophysiology - W. David Freeman, M.D.
9:30 Neuroimaging of Acute Stroke - E. Paul Lindell, M.D.
10:00 Q&A
10:15 Break
10:30 Transient Ischemic Attack (TIA): Diagnosis and Management
   **Kevin M. Barrett, M.D., M.Sc.**
10:50 Ischemic Stroke Prevention - Kelly D. Flemming, M.D.
11:20 Emerging Therapies for Prevention of Stroke in Diabetics
   **Pankaj Shah, M.D.**
11:50 Q&A: Panel Discussion
Noon Lunch
1:00 p.m. Cardioembolic Stroke - Cumara B. O’Carroll, M.D.
1:30 NOACs (Novel Oral Anticoagulants) Selection in Stroke Patients
   **Waldemar E. Wysokinski, M.D., Ph.D.**
2:00 Large Vessel Atherosclerotic Occlusive Disease
   **Josephine F. Huang, M.D.**
2:30 Vascular Cognitive Impairment - Jonathan Graff-Radford, M.D.
3:00 Approach to CNS Vasculitis - James P. Klaas, M.D.
3:30 Q&A
3:45 p.m. Adjourn

6:45 a.m. Optional Event: Morning Beach Run for Stroke
   **Moderator:** Kevin M. Barrett, M.D., M.Sc.
7:30 Continental Breakfast
8:00 Commonly Asked Questions in the Management of Unruptured Aneurysms - Robert D. Brown, Jr., M.D., M.P.H.
8:30 What’s New in Intracerebral Hemorrhage Management?
   **Cumara B. O’Carroll, M.D.**
9:00 Cerebral Amyloid Angiopathy - Benjamin H. Eidelman, M.D.

Friday, September 15, 2017
Medical Management and Controversies of Stroke

6:45 a.m. Optional Event: Morning Beach Run for Stroke
   **Moderator:** Kevin M. Barrett, M.D., M.Sc.
7:30 Continental Breakfast
8:00 Commonly Asked Questions in the Management of Unruptured Aneurysms - Robert D. Brown, Jr., M.D., M.P.H.
8:30 What's New in Intracerebral Hemorrhage Management?
   **Cumara B. O’Carroll, M.D.**
9:00 Cerebral Amyloid Angiopathy - Benjamin H. Eidelman, M.D.
9:30  CADASIL (Cerebral Autosomal Dominant Arteriopathy with Subcortical Infarcts and Leukoencephalopathy)
James F. Meschia, M.D.

10:00  Q&A

10:15  Break

10:30  Cerebral Venous Thrombosis - W. David Freeman, M.D.

11:00  Advances in Stroke Recovery - Billie A. Schultz, M.D.

11:30  Telemedicine - Stroke Systems Model of Care (SSMC)
Bart M. Demaerschalk, M.D.

Noon  Q&A/Break

12:15  Lunch & Learn: Brain Attack Interactive
Moderator: Kevin M. Barrett, M.D., M.Sc.
Expert Q&A Panel: David A. Miller, M.D., E. Paul Lindell, M.D., James F. Meschia, M.D., Alejandro A. Rabinstein, M.D., and Jason L. Siegel, M.D.

1:15  Keynote Speaker:
Medical Management of Stroke Complications
Eelco F. Wijdicks, M.D., Ph.D.

2:15  Q&A

2:30  ePosters and Interesting Stroke Cases (Foyer)
Moderators: W. David Freeman, M.D., Kevin M. Barrett, M.D., M.Sc., and Vivek Gupta, M.D.

3:30  Reception on the Lawn

5:30  Adjourn

5:45-7:00 p.m.  Optional Free Event: Stroke Yoga at Sunset, North Ritz-Carlton Beach, North of Yellow Flag - Kelly S. Johnson, R.N.

Saturday, September 16, 2017
Neurosurgical and Endovascular Stroke Therapy

Moderator: Giuseppe Lanzino, M.D.

7:15 a.m.  Continental Breakfast

7:45  New Approaches for Treatment of Unruptured Cerebral Aneurysms - Benjamin L. Brown, M.D.

8:15  Acute Management of Aneurysmal Subarachnoid Hemorrhage
Giuseppe Lanzino, M.D.

8:45  Endovascular Acute Stroke Therapy—Best Practices and Unresolved Questions - Alejandro A. Rabinstein, M.D.

9:15  New Approaches to Acute Stroke Neuroendovascular Intervention - Brian W. Chong, M.D.

9:45  Newer Neuroendovascular Devices and Techniques on the Horizon - Giuseppe Lanzino, M.D.

10:15  Q&A

10:45  Break

11:00  Neurosurgical Management of Moyamoya Disease
Rabih G. Tawk, M.D.

11:30  Blunt Cerebrovascular Injury (BCVI) –When to Screen?
Maya A. Babu, M.D., M.B.A.

Noon  Q&A and Post-test

12:15  Lunch

1:15  Neurosurgery Case Review
Moderators: Giuseppe Lanzino, M.D., David A. Miller, M.D., Rabih G. Tawk, M.D., Benjamin L. Brown, M.D., and Brian W. Chong, M.D.

3:15  Adjourn
Concurrent Allied Health Session

**Moderator:** Sarah Peacock, A.R.N.P.

7:15 a.m. Continental Breakfast
8:00 NIH Stroke Scale Exam - Jason L. Siegel, M.D.
8:30 Physical Therapy - Mobilization after Stroke and with EVDs Rebekah A. Davis, P.T., D.P.T.
9:00 Delirium and Other Inpatient Complications of Stroke Jason L. Siegel, M.D.
9:30 Fluid Management and Stroke Shannon Burns, A.R.N.P.
10:00 Q&A/Break
10:30 EEG in Stroke - What to Look For Anteneh M. Feyissa, M.D.
11:00 Neurostimulants and Antidepressants in Stroke Patients Daniel A. Jackson, Pharm.D., R.Ph.
11:30 Q&A
Noon Lunch
1:15 p.m. Adjourn

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Additional Offering: Stroke Nursing Review Saturday, September 16, 2017 is designed for nurses who provide care to patients with acute stroke in the hospital and/or ICU environment. This course is designed to help enhance nursing knowledge in management of acute stroke patients, hospital assessment and documentation.

**Saturday, September 16, 2017**

**Stroke Nursing Review**

**Moderators:** Suzanne Brown, BSN, RN, CNRN, SCRN, Lesia H. Mooney, MSN, RN, CNRN, SCRN, ACNS-BC

7:15 a.m. Continental Breakfast
8:00 Stroke Nursing Review Course Sarah Livesay, ARNP, DNP
10:00 Break
10:15 Stroke Nursing Review Course Sarah Livesay, ARNP, DNP
12:15 p.m. Lunch
1:15 Stroke Nursing Review Course Sarah Livesay, ARNP, DNP
4:00p.m. Adjourn

Program schedule is subject to change without notice.
MAYO CLINIC

4500 San Pablo Road
Jacksonville, Florida 32224

SAVE THE DATE

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