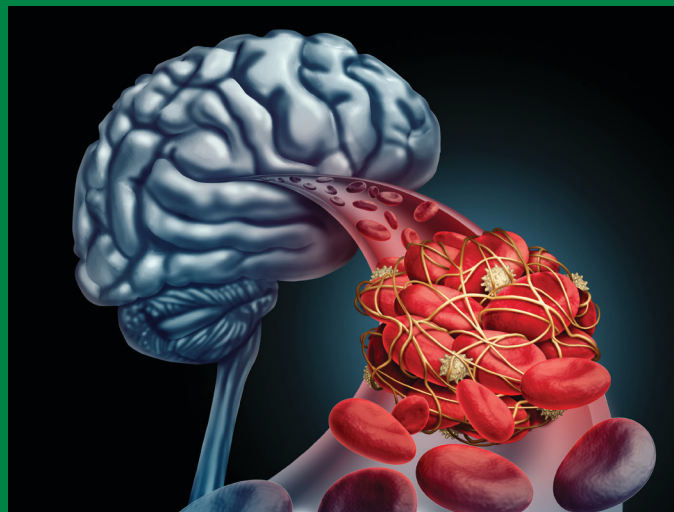
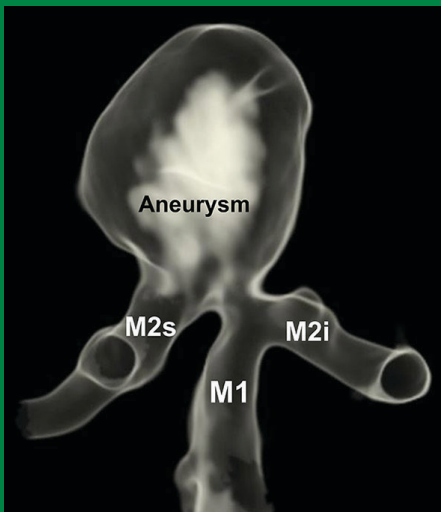
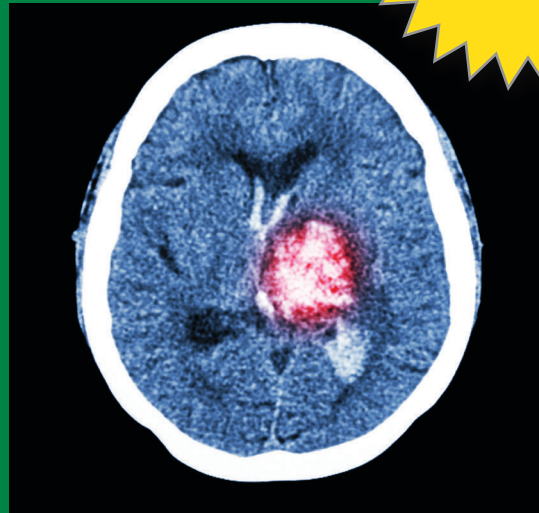


Innovations in Cerebrovascular Care 2024

Tuesday June 18 – Wednesday June 19

InterContinental Hotel and Conference Center
Cleveland, OH and Live Stream

Attend
In Person
or
Live Stream



Register Today! www.ccfcmcme.org/IICC

Innovations in Cerebrovascular Care 2024

Overview

Care of cerebrovascular conditions continues to advance at a rapid pace. The Cleveland Clinic Innovations in Cerebrovascular Care 2024 meeting aims to focus on clinical care and technological advances in the field, as well as provide a multidisciplinary discussion around some of the greatest challenges practitioners from the neurosciences and other fields face in caring for these complex patients.

Who Should Attend?

This educational activity is intended for emergency medicine physicians, fellows, neurointensivists, neurointerventionalists, neurologists, neuroradiologists, neurosurgeons, nurse practitioners, nurses, physician assistants, primary care physicians, and residents who treat cerebrovascular patients.

Learning Objectives

After completing this educational activity, participants will be able to do the following:

- Critically review the evidence on the potential indications for anticoagulation in cerebral amyloid angiopathy and the risks and benefits of anticoagulation for each potential indication.
- Describe the latest techniques in the treatment of hemorrhagic stroke and arteriovenous malformation, and candidate selection for each, including minimally invasive techniques, based on current knowledge.
- Elucidate the clinical evidence to support the use of flow diversion for the treatment of intracranial aneurysms, and the efficacy and safety profile of this treatment, and for which patients this treatment option is feasible.
- Discuss the management of complex cerebrovascular lesions, especially intracranial aneurysms and arteriovenous malformations.
- Describe the evidence for administering IV thrombolysis outside the approved 4.5-hour time window in patients suffering acute ischemic stroke, the evidence for anticoagulation in the treatment of cervical artery dissection, and the use of GLP-1 receptor agonists to reduce the risk of stroke.
- Express how the control of modifiable risk factors can prevent dementia and stroke in older individuals.
- Recall the process of normothermic regional perfusion to preserve organ function to increase the pool of donors in heart transplantation.

Cleveland Clinic Course Director



M. Shazam Hussain, MD, FRCP(C), FAHA

Director, Cerebrovascular Center
Staff, Vascular Neurology and
Endovascular Surgical Neuroradiology
Associate Professor, Cleveland Clinic Lerner
College of Medicine

Cleveland Clinic Co-Directors



Mark Bain, MD, MS, FAANS

Head of Cerebrovascular Neurosurgery and
Endovascular Surgical Neuroradiology
Staff, Department of Neurosurgery
and Cerebrovascular Center
Assistant Professor, Cleveland Clinic Lerner
College of Medicine Department of Surgery



Andrew Russman, DO, FAAN, FAHA

Head, Cleveland Clinic Stroke Program
Medical Director, Comprehensive
Stroke Center
Staff, Vascular Neurology



Joao Gomes, MD, FCCM, FAHA

Head, Neurointensive Care Unit
Staff, Cerebrovascular Center



Ken Uchino, MD, FAHA, FANA

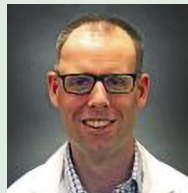
Director, Vascular Neurology Fellowship
Head, Research and Education,
Cerebrovascular Center
Staff, Vascular Neurologist
Associate Professor, Cleveland Clinic
Lerner College of Medicine

Innovations in Cerebrovascular Care 2024

Guest Faculty



Steven Greenberg, MD, PhD
Massachusetts General Hospital
Boston, Massachusetts



Scott Raymond, MD
The University of Vermont Medical Center
Burlington, Vermont



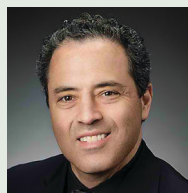
Ferdinand Hui, MD
The Queen's Health System
Honolulu, Hawaii



Ashfaq Shuaib, MD, FRCP(C)
University of Alberta
Edmonton, Alberta, Canada



Dinesh Jillella, MD
Emory University School of Medicine
Atlanta, Georgia



Brian Silver, MD, FRCP(C)
UMass Memorial Health
Worcester, Massachusetts



Ashutosh Mahapatra, MD
The University of Texas Health Science Center
at Houston
Houston, Texas



John Trahanas, MD
Vanderbilt University Medical Center
Nashville, Tennessee



Jason Mathew, DO
Stony Brook University
Stony Brook, New York

Cleveland Clinic Faculty

Christine Ahrens, PharmD
Khaled Asi, MD
Marc Babi, MD
Adam Barron, MD
A. Blake Buletko, MD
Morgan Carter, PhD
Rodica Di Lorenzo, MD
Van Fagert, CNP
G. Abbas Kharal, MD
Varun Kshetry, MD

Nina Moore, MD
Michal Obrzut, MD
Ela Plow, PhD
Peter Rasmussen, MD
Tina Resser, MSN, ACNP-BC, FNP-BC, CNRN
Gabor Toth, MD
Jenny Tsai, MD
Daniel Wadden, CNP
Wei Zhang, MD, PhD, MS

Planning Committee

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Marc Babi, MD
Adam Barron, MD
Dhimant Dani, MD
Rodica Di Lorenzo, MD
Brad Douglas, MSN, ACNP-BC
G. Abbas Kharal, MD
Nina Moore, MD
Amre Nouh, MD, MBA, FAHA, FAAN
Tina Resser, MSN, ACNP-BC, FNP-BC, CNRN
Nicole Smith, PA-C
Gabor Toth, MD
Jenny Tsai, MDCM, FRCP(C)

Agenda

Tuesday, June 18

7:00 am Registration/Continental Breakfast/Exhibits

8:00 am Welcome and Introduction
Andrew Russman

CAA

Moderators: *G. Abbas Kharal, Andrew Russman*

8:10 am What's new and hot in CAA
Steven Greenberg

8:30 am Debate: Can a patient with numerous cerebral microbleeds or possible CAA be anticoagulated?
Pro: *Brian Silver* Con: *Andrew Russman*

9:00 am Panel Discussion. Challenging cases in acute stroke management among patients with numerous cerebral microbleeds
Steven Greenberg, Andrew Russman, Brian Silver, Gabor Toth

10:00 am Refreshment Break/Exhibits

Moderators: *Rodica Di Lorenzo, Andrew Russman*

10:30 am Not all cerebral microbleeds are CAA
Brian Silver

10:50 am Clinical and subclinical CAA-RI
G. Abbas Kharal

11:10 am Emerging therapeutic approaches for CAA
Steven Greenberg

11:30 am Panel Discussion. Challenging cases in CAA management
Steven Greenberg, G. Abbas Kharal, Brian Silver, Ken Uchino

12:15 pm Lunch/Exhibits

360° Management of hemorrhagic stroke

Moderators: *Dhimant Dani, Nina Moore, Tina Resser*

1:00 pm MMA embolization. Where we are and what questions remain?
Michael Obrzut

1:20 pm Debate: Minimally invasive ICH evacuation for basal ganglia hemorrhage
Pro: *Varun Kshetry* Con: *Peter Rasmussen*

1:50 pm Debate: Are lumbar drains the new standard in SAH?
Pro: *Marc Babi* Con: *Adam Barron*

2:20 pm Panel Discussion: Challenging cases in management of hemorrhagic stroke
Marc Babi, Adam Barron, Varun Kshetry, Nina Moore, Michael Obrzut, Peter Rasmussen

3:00 pm Refreshment Break/Exhibits

The Next Frontier in Cerebrovascular Care

Moderators: *Shazam Hussain, Gabor Toth*

3:30 pm AI and machine learning in the angiography suite
Scott Raymond

3:50 pm Novel advances in stroke rehabilitation
Ela Plow

4:10 pm Personalized care for AVMs: Ready for prime time?
Nina Moore

4:30 pm How to approach innovations
Morgan Carter

4:50 pm Panel Q&A

5:00 pm Adjourn. Reception all attendees welcome

Wednesday, June 19

7:00 am Continental Breakfast/Exhibits

8:00 am Welcome and Introduction
Shazam Hussain

Aneurysm/AVM

Moderators: *Peter Rasmussen, Van Fagert*

8:10 am Novel devices for aneurysm embolization
Jenny Tsai

8:30 am Debate: Intrasaccular flow diversion is the new standard for bifurcation aneurysms
Pro: *Gabor Toth* Con: *Ashutosh Mahapatra*

9:00 am Panel Discussion: Panel complex cases in treatment of cerebral aneurysm and AVM
Ashutosh Mahapatra, Nina Moore, Peter Rasmussen, Jenny Tsai, Gabor Toth

10:00 am Refreshment Break/Exhibits

Acute Stroke Therapy

Moderators: *Khaled Asi, Brad Douglas, Ken Uchino*

10:30 am Updates in stroke after ISC and ESOC
Shazam Hussain

10:55 am Debate: Late window thrombolysis with Tenecteplaseba
Pro: *Rodica Di Lorenzo* Con: *Dinesh Jillella*

11:25 am Panel Discussion: Complex cases in acute stroke management
Rodica Di Lorenzo, Shazam Hussain, Dinesh Jillella

12:15 pm Lunch/Exhibits

Secondary Prevention of Stroke

Moderators: *Christine Ahrens, Andrew Russman*

1:00 pm GLP1- receptor agonist and stroke prevention in patients with and without diabetes
Wei Zhang

1:20 pm Debate: Anticoagulation has a role in management of cervical artery dissection
Pro: *Jason Mathew* Con: *A. Blake Buletto*

1:50 pm Debate: It's time to abandon the ESUS concept
Pro: *Ashfaq Shuaib* Con: *Ken Uchino*

2:20 pm Panel Discussion: Complex scenarios in secondary prevention of stroke
A. Blake Buletto, Jason Mathew, Ashfaq Shuaib, Ken Uchino

3:00 pm Refreshment Break/ Exhibits

Expanding Indications

Moderators: *Joao Gomes, Daniel Wadden*

3:30 pm Vascular Health and the Aging Brain
Ashfaq Shuaib

3:50 pm Imaging the Venous system
Ferdinand Hui

4:10 pm Normothermic regional perfusion in donation after cardia death
John Trahanas

4:30 pm Panel Discussion: What will Neurointerventional Looks like in 20 years
Shazam Hussain, Gabor Toth, Jenny Tsai

5:00 pm Adjourn

All presentations include a 5-minute question and answer period.

Innovations in Cerebrovascular Care 2024

Fees

In Person Fee includes: Continental breakfast, refreshment breaks, lunch and faculty PowerPoint presentations in PDF format

Virtual Fee includes: Access to webinar and faculty PowerPoint presentations in PDF format

	In Person	Virtual
Physician	\$250	\$250
Non Physician	\$125	\$125
Resident/Fellow*	\$125	\$0

*Letter from program director is required to receive the discounted fee. Cleveland Clinic employee fees and registration are available online only.

Registration and Cancellation

Preregistrations are accepted online until 5:00 pm (EST), June 5, 2024. In case of cancellation, a full refund will be made if cancelled by June 11, 2024. After June 11, 2024, a 50% cancellation fee will be deducted from your refund. Written notification of your cancellation is required in order to process your refund. **NO REFUNDS WILL BE ISSUED AFTER JUNE 18, 2024.**

For questions about registration, call 216.448.8710 or email cmeregistration@ccf.org

General Information

Location

InterContinental Hotel and Bank of America Conference Center
9801 Carnegie Avenue Cleveland, OH 44106
Phone: 216.707.4100 or 877.707.8999
www.intercontinentalcleveland.com

Hotel Accommodations

Hotel reservations are separate from the course registration and are the responsibility of the participant. A block of rooms have been reserved at the InterContinental Hotel for a rate of \$179 plus tax. Please call 216.707.4100 to make your reservation.

The cut-off date for the special rate is May 17, 2024.

Parking

Parking is available in the 100th Street Visitor's Parking Garage at prevailing rates. Valet parking at the hotel is available for an additional charge.

Information

For further information about this activity, contact Liz Eaton at:
Phone: 800.223.2273 x55431
Email: eatonl3@ccf.org

Accreditation

In support of improving patient care, Cleveland Clinic Center for Continuing Education is jointly accredited by the Accreditation Council for Continuing Medical Education (ACCME), the Accreditation Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC), to provide continuing education for the healthcare team.

Credit Designation

• American Medical Association (AMA)

Cleveland Clinic Center for Continuing Education designates this live activity for a maximum of 14.50 *AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Participants claiming CME credit from this activity may submit the credit hours to the American Osteopathic Association for Category 2 credit.

• American Nurses Credentialing Center (ANCC)

Cleveland Clinic Center for Continuing Education designates this live activity for a maximum of 14.50 ANCC contact hours.

• American Academy of PAs (AAPA)

Cleveland Clinic Center for Continuing Education has been authorized by the American Academy of PAs (AAPA) to award AAPA Category 1 CME credit for activities planned in accordance with AAPA CME Criteria. This activity is designated for 14.50 AAPA Category 1 CME credits. PAs should only claim credit commensurate with the extent of their participation.

• American Board of Surgery (ABS) MOC

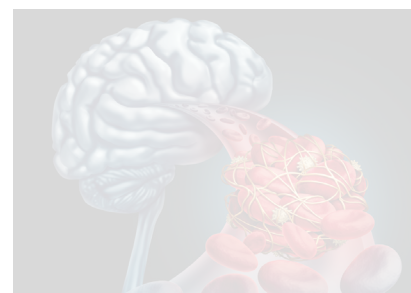
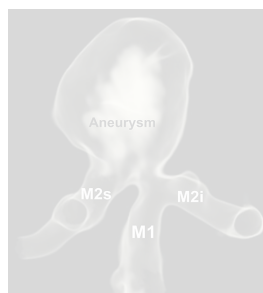
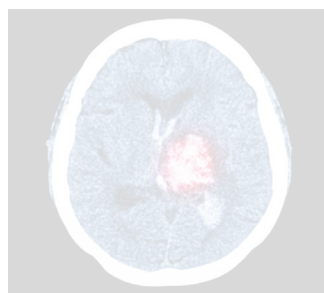
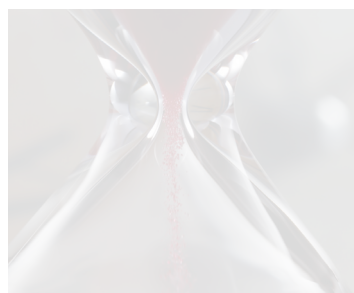
Successful completion of this CME activity enables the learner to earn credit toward the CME requirements of the American Board of Surgery's Continuous Certification program. It is the CME activity provider's responsibility to submit learner completion information to ACCME for the purpose of granting ABS credit. Credit will be reported within 30 days of claiming credit.

Faculty Disclosure Statement

The Cleveland Clinic Center for Continuing Education has implemented a policy to comply with the current Accreditation Council for Continuing Medical Education Standards for Integrity and Independence requiring mitigation of all faculty conflicts of interest. Faculty declaring a relevant financial relationship will be identified in the activity syllabus.

Americans with Disabilities Act

The Cleveland Clinic Center for Continuing Education fully intends to comply with the legal requirements of the Americans with Disabilities Act. If you need assistance, please notify us at least two weeks prior to the activity.



Cleveland Clinic Center for Continuing Education reserves the right to cancel or postpone an activity at our sole discretion. In the unlikely event that this occurs, any registration fee(s) paid will be refunded. Be advised that Cleveland Clinic is not responsible for related costs including airline tickets, hotel costs, or any similar fee penalties incurred as a result of any trip cancellations or changes.