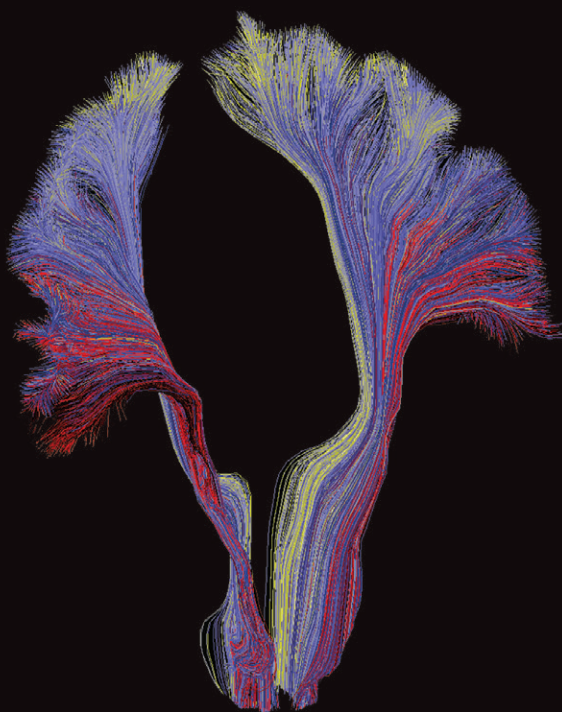


2022 Neurology Update – A Comprehensive Review for the Clinician

Featuring up to 17 CME credits
ABPN-Approved for Self-Assessment Credits

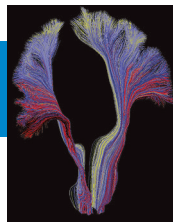
August 5-7, 2022
The Ritz-Carlton, Washington DC



Featured Topics

CNS Infections
Dementia
Epilepsy
Headache
HiFu in Tremor
Hydrocephalus
Movement Disorders

Multiple Sclerosis
Neurology Consult
Neuromuscular EMG
Neuroradiology
Sleep Disorders
Stroke
Syncope



About the Course

Welcome to the 13th Annual Cleveland Clinic Neurology Update. On behalf of the Neurological Institute at the Cleveland Clinic we would like to welcome you to our annual course and hope you find it valuable in your continuing care of patients with neurological disease. We are excited to bring you our first hybrid meeting that is a clinically focused review course with updated information on a broad range of neurological conditions. We have incorporated smaller group breakout sessions for a more connected interaction and experience. The three breakouts will focus on neuromuscular EMG cases, headache management and movement disorders. All course participants will have a chance to attend each session.

This year we will discuss neurological approaches to syncope, neuroradiology (brain and spine) and neurology consult cases. We will continue to include presentations on stroke (acute updates), epilepsy (ASMs), multiple sclerosis, and dementia. The course will also address sleep disorders, CNS infections, hydrocephalus and HiFu for tremor. Our interactive course will allow time for Q&A after each lecture and we will encourage active participation using the audience response/polling system to incorporate a self-assessment where you will see how your answer choices compare to your peers.

The course will also continue to offer CME Self-Assessment credits approved by the American Board of Psychiatry and Neurology for Maintenance of Certification mandated by ABMS.

We hope this course adds to your knowledge base and enhances patient care.

We look forward to learning with you during this course!

Glen Stevens, DO, PhD, FAAN
Course Co-Director

Robert Marquardt, DO
Course Co-Director

Target Audience

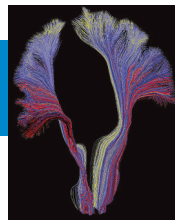
This course is directed towards neurologists, internists and family practice physicians, advanced practice providers including PAs and NPs, nurses and others involved in the diagnosis and treatment of neurological disorders.

Objectives

Upon completion of this activity, the participant will be able to:

- Provide an update of advances in acute stroke care including prevention, treatment, and rehabilitation.
- Describe recent technologic innovations in radiologic imaging and their impact on neuroradiologic clinical practice.
- Summarize advances in epilepsy treatments and describe their best use in clinical practice.
- Apply current headache management strategies to individual cases.
- Review the recent research on multiple sclerosis and its impact on clinical practice.
- Summarize research on neurologic-associated dementia.
- Recognize, diagnose, and manage various neurologic disorders including syncope, movement disorders, normal pressure hydrocephalus, sleep disorders, and CNS infections.
- Describe the evidence supporting the clinical use of high-frequency focused ultrasound to treat tremors.

Faculty



Cleveland Clinic Course Co-Directors

Glen Stevens, DO, PhD, FAAN

Section Head, Adult Neuro-Oncology
Rose Ella Burkhardt Brain Tumor and
Neuro-Oncology Center
Neurological Institute

Robert Marquardt, DO

Clinical Assistant Professor,
Cleveland Clinic Lerner College of Medicine
of Case Western Reserve University
Staff, Neuromuscular Center
Neurological Institute

Cleveland Clinic Faculty

Robert Bermel, MD, MBA

Associate Professor, Cleveland Clinic Lerner
College of Medicine of Case Western Reserve
University
Director, Mellen Center for Multiple Sclerosis
Neurological Institute

A. Blake Buletko, MD

Assistant Professor, Cleveland Clinic
Lerner College of Medicine of Case Western
Reserve University
Staff, Cerebrovascular Center
Neurological Institute

Benjamin Claytor, MD

Assistant Professor, Cleveland Clinic
Lerner College of Medicine of Case Western
Reserve University
Staff, Neuromuscular Center
Neurological Institute

Carlos Isada, MD

Clinical Assistant Professor, Cleveland Clinic
Lerner College of Medicine of Case Western
Reserve University
Department Vice Chair, Infectious Disease
Medicine Institute

Reena Mehra, MD

Professor, Cleveland Clinic Lerner
College of Medicine of Case Western Reserve
University
Director, Sleep Disorders Research
Neurological Institute

Sean Nagel, MD

Assistant Professor, Cleveland Clinic Lerner
College of Medicine of Case Western Reserve
University
Staff, Center for Neuro-Restoration
Neurological Institute

Vineet Punia, MD, MS

Clinical Assistant Professor, Cleveland Clinic
Lerner College of Medicine of Case Western
Reserve University
Associate Staff, Epilepsy Center
Neurological Institute

Payal Patel Soni, MD

Clinical Assistant Professor, Cleveland Clinic
Lerner College of Medicine of Case Western
Reserve University
Staff, Center for Neuro-Restoration
Neurological Institute

Benjamin Walter, MD, MBA

Associate Professor, Cleveland Clinic Lerner
College of Medicine of Case Western Reserve
University
Staff, Center for Neuro-Restoration
Neurological Institute

Dylan Wint, MD

Clinical Assistant Professor, Cleveland Clinic
Lerner College of Medicine of Case Western
Reserve University
Director, Lou Ruvo Center for Brain Health Nevada
Neurological Institute

Jenny Wu, MD

Clinical Assistant Professor, Cleveland Clinic
Lerner College of Medicine of Case Western
Reserve University
Associate Staff, Diagnostic Radiology
Imaging Institute

Planning Committee

Susan Jakubek, MPAS, MBA, PA-C

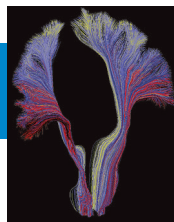
Rose Ella Burkhardt Brain Tumor and
Neuro-Oncology Center Neurological Institute

Tara Miller, MSN, APRN-CNP

Rose Ella Burkhardt Brain Tumor and
Neuro-Oncology Center Neurological Institute



Agenda



Friday, August 5, 2022 • Eastern Time

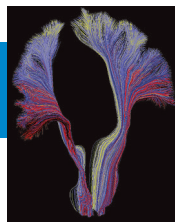
7:00 am	Registration/Continental Breakfast/Exhibits/SAE Paper Pre-Test
8:00 am	Introduction – Glen Stevens & Robert Marquardt – SALON I
8:10 am	Acute Stroke Updates: An Ever-Expanding Window of Opportunities <i>A. Blake Buletko</i>
8:50 am	Stroke Cases – A. Blake Buletko
9:10 am	Neurological Approach to Syncope – Robert Marquardt
9:50 am	Refreshment Break & Exhibits
10:10 am	Neuroradiology: Brain – Jenny Wu
10:50 am	Neuroradiology: Spine – Jenny Wu
11:30 am	Historical Vignette and Panel Discussion/Q&A <i>Glen Stevens, Robert Marquardt, A. Blake Buletko, Jenny Wu</i>
12:00 pm	Buffet Lunch – SALON II
1:00 pm	Epilepsy: Review of Newer Anti-Seizure Medications (ASMs) <i>Vineet Punia</i>
1:50 pm	Epilepsy Cases – Vineet Punia
2:30 pm	Epilepsy Q&A – Vineet Punia
2:40 pm	Refreshment Break & Exhibits
3:00 pm	Neuro Jeopardy – Glen Stevens and Robert Marquardt
4:05 pm	Adjourn

ABPN Self-Assessment

The American Board of Psychiatry and Neurology has reviewed the 2022 Neurology Update – A Comprehensive Review for the Clinician and has approved this program as part of a comprehensive Self-Assessment Program which is mandated by the ABMS as a necessary component of maintenance of certification. Approved for 17 Category 1 CME credits for Self-Assessment.

You will be sent a PDF of the pre-test via email prior to the course to complete as your self-assessment. The answers to the test questions will be addressed during the lectures using the Audience Response/Polling System.

Agenda



Saturday, August 6, 2022 • Eastern Time

7:30 am **Registration/Continental Breakfast/Exhibits**

Interactive Case-based Breakout Sessions

In-person attendees will be assigned to a room and the speakers will rotate through discussing each topic below.

Topics:

Neuromuscular EMG Cases – Benjamin Claytor

Headache Management Cases – Payal Patel Soni

Movement Disorders Management Cases – Benjamin Walter

8:00 am **Breakout Session Introductions – General Session Room**

SALON I – Glen Stevens & Robert Marquardt

8:10 am **Breakout Session 1**

9:10 am **Breakout Session 2**

10:10 am **Refreshment Break**

10:30 am **Breakout Session 3**

11:30 am **Audience Response / Questions & Answers from Breakout Sessions**

SALON I – Benjamin Claytor, Payal Patel Soni, Benjamin Walter

11:50 am **Buffet Lunch** – SALON III

12:50 pm **Dementia Update** – Dylan Wint

1:30 pm **Dementia Cases** – Dylan Wint

2:10 pm **Refreshment Break & Exhibits**

2:30 pm **Multiple Sclerosis Management** – Robert Bermel

3:10 pm **Multiple Sclerosis and Mimics: Cases** – Robert Bermel

3:50 pm **Historical Vignette and Panel Discussion/Q&A**

Glen Stevens, Robert Marquardt, Dylan Wint, Robert Bermel

4:20 pm **Adjourn**

Sunday, August 7, 2022 • Eastern Time

7:30 am **Registration/Continental Breakfast/Exhibits**

8:00 am **Neurology Consult Cases** – Glen Stevens

8:40 am **Sleep Disorders** – Reena Mehra

9:20 am **CNS Infections** – Carlos Isada

10:00 am **Refreshment Break & Exhibits**

10:20 am **Normal Pressure Hydrocephalus** – Sean Nagel

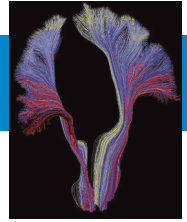
11:00 am **High Frequency Focused Ultrasound Use in Tremor** – Sean Nagel

11:40 am **Historical Vignette and Panel Discussion/Q&A**

Glen Stevens, Robert Marquardt, Reena Mehra, Carlos Isada, Sean Nagel

12:00 pm **Adjourn**

General Information



Location

The Ritz-Carlton, Washington DC
1150 22nd Street, NW • Washington, DC 20037
Phone: 202.835.0500

Hotel Accommodations

A block of rooms has been reserved at The Ritz-Carlton, Washington DC. To make your reservation, contact the hotel directly at 202.835.0500 or 1.800.558.9994 and mention the “Cleveland Clinic Neurology Update” to receive the special rate of \$275 per night plus tax. You may also make your reservation online at www.ritzcarlton.com using code CCFCCFA (Single) or CCFCCFD (Double). To secure the course rate, you must make your reservation by Monday, July 11, 2022.

The Ritz-Carlton is:

- 40 minutes east of Dulles International Airport
- 10 minutes (4.2 miles) north of Ronald Reagan Washington National Airport
- 10 minutes from the White House, the Smithsonian museums and many other historic site

Parking

Discounted parking is available at The Ritz-Carlton, Washington DC for a special course rate of \$40.00 for overnight valet and \$30.00 for day valet parking (up to 12 hours).

A self-parking garage is also available at the hotel and rates vary.

Information

For further information about this activity, contact Shana Spade at Phone: 216.444.9380 or 800.223.2273 x49380 Email: spades@ccf.org

Faculty Disclosure Statement

The Cleveland Clinic Foundation 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 Foundation Center for Continuing Education fully intends to comply with the legal requirements of the Americans with Disabilities Act. If you need assistance, please notify Shana Spade at 216.444.9380 or spades@ccf.org at least two weeks prior to the activity.

Faculty Presentations

Faculty presentation slides will be available online in PDF format. You will have access prior to the activity to allow you to download or print the slides.

Health & Safety

All applicable Centers for Disease Control (CDC), state, and local safety protocols will be enforced for this event. Additional attendance requirements may be implemented to ensure attendee health and safety.



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 17 *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 17 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 17 AAPA Category 1 CME credits. PAs should only claim credit commensurate with the extent of their participation.

AAFP - Application for CME credit has been filed with the American Academy of Family Physicians. Determination of credit is pending.

Certificate of Participation - A certificate of participation will be provided to other health care professionals for requesting credits in accordance with their professional boards and/or associations.

Registration and Cancellation Information

2022 Neurology Update – A Comprehensive Review for the Clinician

August 5-7, 2022

Payment must be received prior to the course. Purchase orders are not accepted.

Register at: www.ccfcm.org/NeuroUpdate

COURSE FEES

In-person registration includes: online syllabus, continental breakfasts, refreshment breaks and two buffet luncheons.

Virtual Registration includes: virtual meeting attendance and online syllabus.

Registration Category	In-person	Virtual
Physician	\$600.00	\$600.00
Active Duty Military	\$500.00	\$500.00
Resident*/Fellow*	\$500.00	\$500.00
Cleveland Clinic Alumnus	\$540.00	\$540.00
Non-Physician	\$500.00	\$500.00

CCF Employees should check fees and register online at the above web address.

*Letter from Program Director or Chairman must be received in our office prior to the course to receive this fee.

Preregistrations are accepted online until 5:00 PM ET, Wednesday, July 27, 2022. To register after this date, please do so onsite. In case of cancellation, a full refund will be made if canceled by July 18, 2022. After July 18, 2022, a \$50 cancellation fee will be deducted from your refund. **NO REFUNDS WILL BE ISSUED AFTER JULY 31, 2022.** Written notification of your cancellation is required in order to process your refund.

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

Cleveland Clinic Center for Continuing Education reserves the right to cancel or postpone activity in 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.

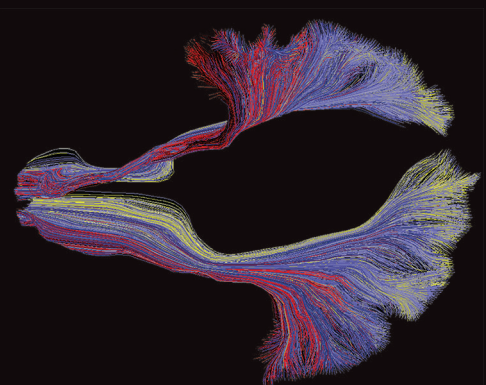


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CME Self-Assessment MOC Credits

August 5-7, 2022
A Hybrid Interactive Meeting

www.ccfcmc.org/NeuroUpdate



The Cleveland Clinic Foundation
Neurological Institute
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