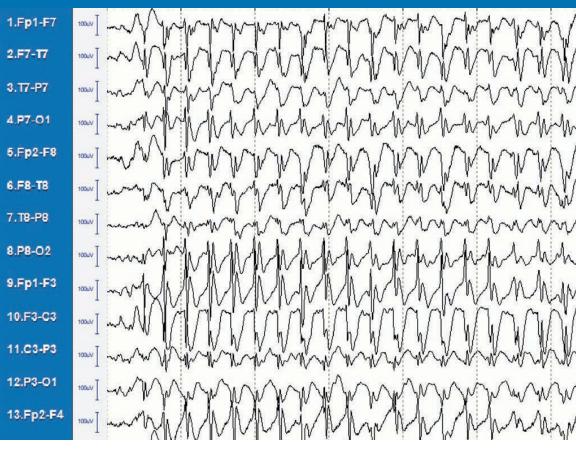




2025 Neurology Update: A Comprehensive Review for the Clinician

August 1-3, 2025 | The Ritz-Carlton, Washington, D.C.

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



FEATURED TOPICS

Al Autonomic Testing Dementia EEG Epilepsy Headache Hospital Neurology Movement Disorders Multiple Sclerosis Neuro ICU Neuromuscular/EMG Sleep Disorders Stroke

Welcome

ABOUT THE COURSE

Welcome to the 16th 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 fourth 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 case-based breakouts will focus on stroke, dementia, neuro intensive care unit (Neuro ICU), neuromuscular/electromyography (EMG), electroencephalography (EEG) and movement disorders. All course participants will have a chance to attend each session.

This year we will address artificial intelligence (AI), sleep disorders, autonomic testing and hospital neurology. We will continue to include presentations on stroke updates, epilepsy, multiple sclerosis and headache. 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 APRNs, nurses and others involved in the diagnosis and treatment of neurological disorders.

Objectives

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

- Discuss updated strategies for acute stroke prevention and treatment.
- Review updated diagnostic criteria and cases for the management of multiple sclerosis.
- Discuss advances to epilepsy management in various clinical settings.
- Outline current clinical strategies in the management of dementia, movement disorders and sleep disorders.
- Review recent research and updates on headache management, including the use of botulinum toxin for treatment.
- Describe established best practices in diagnostic testing such as EMG, EEG, and autonomic tests.
- Discuss strategies for the management of hospital neurology and neurology cases in the ICU.
- Describe the transformative potential of artificial intelligence in medicine, highlighting its impact on diagnosis, treatment, and patient outcomes.

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

CLEVELAND CLINIC FACULTY

Nirmal Andrapalliyal, MD

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

Adam Barron, MD

Clinical Instructor, Cleveland Clinic Lerner College of Medicine of Case Western Reserve University Staff, Neurointensive Care Cerebrovascular Center Neurological Institute

Katherine Chiprean, DO

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

Kaylen Diederich, MSN, APRN, FNP-C

APRN/PA Manager, General Neurology and Neuromuscular Medicine Neurological Institute

Hubert H. Fernandez, MD

James and Constance Brown Family Endowed Chair in Movement Disorders Professor, Cleveland Clinic Lerner College of Medicine of Case Western Reserve University Director, Center for Neurological Restoration Neurological Institute

Nancy Foldvary-Schaefer, DO, MS

Professor, Cleveland Clinic Lerner College of Medicine of Case Western Reserve University Staff, Sleep Disorders Center and Epilepsy Center Neurological Institute

Jena Gustafson, PA-C

Center for Neurological Restoration Neurological Institute

M. Shazam Hussain, MD

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

PLANNING COMMITTEE

Glen Stevens, DO, PhD, FAAN Robert Marquardt, DO

Robert Marquardt, DO

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

John Morren, MD

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

Daniel Ontaneda, MD, PhD

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

Jonathan Solomonow, MD

Staff, Cerebrovascular Center Neurological Institute

Payal Soni, MD

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

Babak Tousi, MD

Associate Professor, Cleveland Clinic Lerner College of Medicine of Case Western Reserve University Head, Clinical Trials Program Lou Ruvo Center for Brain Health – Cleveland Neurological Institute

Chris Traner, MD, MHS-MedEd

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

Mary Alissa Willis, MD

Section Head, General Neurology Department of Neurology Neurological Institute

Kaylen Diederich, MSN, APRN, FNP-C Jena Gustafson, PA-C Time for questions and answers are included in each presentation.

FRIDAY, AUGUST 1, 2025 • EASTERN TIME

*1.25 hours of APRN pharmacology credit

7:00 am	Designation/Continental Due	akfast/Exhibits/Self-Assessment Online Pre-Test
7.UU am	Registration/Continental Bre	aktast/Exhibits/Self-Assessment Unline Pre-Test

8:00 am Introduction – SALON I: Glen Stevens & Robert Marquardt

8:10 am Stroke Updates Over the Past Year* – M. Shazam Hussain

8:50 am Epilepsy: Inpatient Cases* – Katherine Chiprean
9:30 am Epilepsy: Outpatient Cases* – Katherine Chiprean

10:10 am Refreshment Break & Exhibits – SALON II

10:30 am Updates in Multiple Sclerosis Management: McDonald Criteria

Daniel Ontaneda

11:10 am Multiple Sclerosis Management Cases – Daniel Ontaneda

11:50 am Historical Vignette and Panel Discussion / Q&A

Glen Stevens, Robert Marquardt, M. Shazam Hussain, Katherine Chiprean

and Daniel Ontaneda

12:10 pm Buffet Lunch - SALON II

1:10 pm **Headache Updates*** – Payal Soni

2:00 pm **Headache Cases*** – Payal Soni

2:40 pm **Botulinum Toxin for Headache*** – Jena Gustafson

3:00 pm **Headache Q&A** – Payal Soni and Jena Gustafson

3:20 pm Refreshment Break & Exhibits – SALON II

3:40 pm Neuro Jeopardy / AAN Updates* – Glen Stevens and Robert Marguardt

4:20 pm **Adjourn**

SATURDAY, AUGUST 2, 2025 • EASTERN TIME

*1.50 hours of APRN pharmacology credit

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: Stroke Cases*: Jonathan Solomonow

Dementia Cases*: Babak Tousi Neuro ICU Cases*: Adam Barron

8:00 am Breakout Session Introductions: General Session Room

SALON I – Robert Marguardt

8:10 am Breakout Session 1: Salon I, Plaza I, Plaza II

9:10 am Breakout Session 2: Salon I, Plaza I, Plaza II

10:10 am Refreshment Break – SALON II

10:30 am Breakout Session 3: Salon I, Plaza I, Plaza II

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

SALON I – Jonathan Solomonow, Babak Tousi and Adam Barron

Time for questions and answers are included in each presentation.

12:00 pm	Buffet Lunch – SALON II
1:00 pm	Artificial Intelligence in Medicine: Harnessing AI in Neurological Care* John Morren
1:40 pm	Sleep Disorders Update – Common Outpatient Cases* – Nancy Foldvary-Schaefer
2:20 pm	Refreshment Break & Exhibits – SALON II
2:40 pm	Role of Autonomic Testing/Reports: Tilt Table Interpretation – Kaylen Diederich
3:00 pm	Insights from Hospital Neurology* – Mary Alissa Willis
3:40 pm	Historical Vignette and Panel Discussion / Q&A – Glen Stevens, Robert Marquardt, John Morren, Nancy Foldvary-Schaefer, Kaylen Diederich and Mary Alissa Willis
4:10 pm	Adjourn

SUNDAY. AUGUST 3. 2025 • EASTERN TIME

*.25 hours of APRN pharmacology credit

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/	FMG Boot	Camp: /	Nirmal A	Andranallival
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EEG Boot Camp: Chris Traner

Movement Disorders Cases: Pearls for the Busy Clinician*: Hubert Fernandez

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

SALON I - Glen Stevens

8:10 am Breakout Session 4: Salon I, Plaza I, Plaza II

9:10 am Breakout Session 5: Salon I, Plaza I, Plaza II

10:10 am Refreshment Break – SALON II

10:30 am Breakout Session 6: Salon I, Plaza I, Plaza II

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

SALON I – Nirmal Andrapalliyal, Chris Traner and Hubert Fernandez

12:00 pm Adjourn

ABPN SELF-ASSESSMENT

The American Board of Psychiatry and Neurology has reviewed the 2025 Neurology Update: A Comprehensive Review for the Clinician and has approved this activity as part of a comprehensive Self-Assessment (SA) CME activity, which is mandated by the ABMS as a necessary component of continuing certification. Approved for 17 Category 1 CME credits for Self-Assessment.

You will receive a link to the online 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.

General Information

LOCATION

The Ritz-Carlton, Washington, D.C. | Phone: 202.835.0500 1150 22nd Street, NW, Washington, DC 20037

HOTEL ACCOMMODATIONS

A block of rooms has been reserved at The Ritz-Carlton, Washington, D.C. 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 \$290 per night plus tax. You may also make your reservation online at www.ritzcarlton.com using code CCFCCFA (Single) or CCFCCFD (Double). This discounted course rate is available until **Friday, July 18, 2025**, or until the course room block is fully booked, whichever comes first.

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 sites

PARKING

Discounted parking is available at The Ritz-Carlton, Washington, D.C. for a special course rate of \$45.00 for overnight valet and \$45.00 for daily valet parking (up to 12 hours). A self-parking garage is also available at the hotel and rates vary.

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 $^{\text{TM}}$. 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, that includes 3 contact hours for APRN pharmacology credit.

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.

American Academy of Family Physicians (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.

INFORMATION

For further information about this activity, contact Liz Eaton at

Phone: 216.385.9076 or Email: eatonl3@ccf.org

General Information (continued)

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.

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.

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 Liz Eaton at 216.385.9076 or eatonl3@ccf.org at least two weeks prior to the activity.

Registration and Cancellation

2025 NEUROLOGY UPDATE: A COMPREHENSIVE REVIEW FOR THE CLINICIAN

August 1-3, 2025

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

REGISTER AT: WWW.CCFCME.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 or Virtual			
Physician	\$650			
Active Duty Military	\$550			
Resident*/Fellow*	\$550			
Cleveland Clinic Alumnus	\$585			
Non-Physician	\$550			

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

Preregistrations are accepted online until 5:00 PM ET, Friday, July 25, 2025. To register after this date, please do so onsite. In case of cancellation, a full refund will be made if canceled by July 18, 2025. After July 18, 2025, a \$50 cancellation fee will be deducted from your refund. **NO REFUNDS WILL BE ISSUED AFTER JULY 25, 2025.** 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

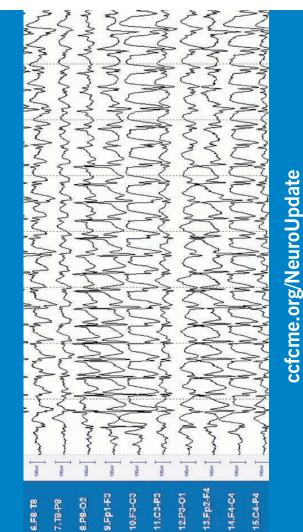
Cleveland Clinic Center for Continuing Education reserves the right to cancel or postpone activity in our sole discretion. In the unlikely event that this occurs, any registration fee(s) paid will be refunded. Be advised that Cleveland Clinic is not responsible for related costs including airline tickets,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

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

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The Cleveland Clinic Foundation Neurological Institute 9500 Euclid Avenue, JJN5-424 Cleveland, OH 44195

