

2024 Neurology Update: A Comprehensive Review for the Clinician

August 2–4, 2024 | The Ritz-Carlton, Washington, D.C.

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

FEATURED TOPICS

ALS
APP Inpatient Consults
Atypical Movement Disorders
Dementia
EEG

EMG
Epilepsy
Headache
Multiple Sclerosis
Neuroradiology

Pain Management
Parkinson's Disease
Polyneuropathy
Psychiatry
Stroke

Welcome

ABOUT THE COURSE

Welcome to the 15th 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 third 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 dementia, headache, Parkinson's disease/movement disorders, EMG, EEG and atypical movement disorders. All course participants will have a chance to attend each session.

This year we will address polyneuropathy, pain management, ALS, psychiatry and the importance of advanced practice providers (APP) as inpatient neurology consultants. We will continue to include presentations on stroke updates, epilepsy, multiple sclerosis and neuroradiology (brain and spine). 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 case-based best practices for the diagnosis and management of polyneuropathy and neurological pain.
- Review current research and cases for the management of multiple sclerosis.
- Discuss advances to epilepsy management in all clinical settings, including medication management.
- Outline current clinical strategies in the management of dementia, Amyotrophic Lateral Sclerosis (ALS), headache, and general psychiatry.
- Review recent research and updates on Parkinson's Disease and other movement disorders and its impact on clinical practice.
- Recognize the value of Advanced Practice Providers for neurology consults in the inpatient setting.
- Describe recent technological innovations and established best practices in diagnostic testing and neuroradiology through specific techniques and individual case studies.

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

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

CLEVELAND CLINIC FACULTY

Brian Barnett, MD

Assistant Professor, Cleveland Clinic Lerner College
of Medicine of Case Western Reserve University
Co-Director, Psychiatric Treatment-Resistance Program
Department of Psychiatry and Psychology
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

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

Carrie M. Hersh, DO, MSc

Associate Professor, Cleveland Clinic Lerner College
of Medicine of Case Western Reserve University
Director, Multiple Sclerosis Health and Wellness Program
Cleveland Clinic Lou Ruvo Center for Brain Health
Las Vegas
Neurological Institute

Rebecca Kuenzler, MD

Staff, Neuromuscular Center
Neurological Institute

James B. Leverenz, MD

Joseph Hahn MD Endowed Chair
Director, Cleveland Clinic Lou Ruvo Center for
Brain Health
Neurological Institute

Dileep Nair, MD

Professor, Cleveland Clinic Lerner College
of Medicine of Case Western Reserve University
Section Head, Epilepsy Center
Neurological Institute

Junaid Siddiqui, MD, MRCP

Staff, Movement Disorders Neurology
Center for Neurological Restoration
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

Elizabeth N. Spurgeon, MD

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

Susan Stanton, PA-C, MS, MSHS

APP Manager – Brain Tumor, Epilepsy, NI Research
Neurological Institute

Sarah Swarthout, MSN, APRN-CNP

Inpatient Neurology Consults – Main Campus
Neurological Institute

Pavan Tankha, DO

Medical Director, Comprehensive Pain Recovery
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

Glen Stevens, DO, PhD, FAAN

Robert Marquardt, DO

Susan Stanton, PA-C, MS, MSHS

Sarah Swarthout, MSN, APRN-CNP

Agenda

Time for questions and answers are included in each presentation.

FRIDAY, AUGUST 2, 2024 • EASTERN TIME

- 7:00 am **Registration/Continental Breakfast/Exhibits/Self-Assessment Online Pre-Test**
- 8:00 am **Introduction** – SALON I: *Glen Stevens & Robert Marquardt*
- 8:10 am **Stroke Updates over the Past Year** – *A. Blake Buletko*
- 8:50 am **Stroke Cases** – *A. Blake Buletko*
- 9:20 am **General Case-Based Approach to Polyneuropathy Evaluation** – *Robert Marquardt*
- 10:00 am **Refreshment Break & Exhibits** – SALON II
- 10:20 am **Updates in Multiple Sclerosis Management** – *Carrie Hersh*
- 11:00 am **Multiple Sclerosis Management Cases** – *Carrie Hersh*
- 11:40 am **Historical Vignette and Panel Discussion / Q&A**
Glen Stevens, Robert Marquardt, A. Blake Buletko and Carrie Hersh
- 12:10 pm **Buffet Lunch** – SALON II
- 1:10 pm **Epilepsy: Inpatient Cases** – *Elizabeth Spurgeon*
- 2:00 pm **Epilepsy: Outpatient Cases** – *Elizabeth Spurgeon*
- 2:40 pm **Anti-Seizure Medicine Management in the Outpatient Clinic**
Susan Stanton
- 3:00 pm **Epilepsy Q&A** – *Elizabeth Spurgeon and Susan Stanton*
- 3:20 pm **Refreshment Break & Exhibits** – SALON II
- 3:40 pm **Neuro Jeopardy / AAN Updates** – *Glen Stevens and Robert Marquardt*
- 4:20 pm **Adjourn**

SATURDAY, AUGUST 3, 2024 • 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:** **Dementia Cases:** *James Leverenz*
Headache Cases: *Payal Soni*
Parkinson's Disease/Movement Disorders Cases: *Hubert Fernandez*
- 8:00 am **Breakout Session Introductions:** General Session Room
SALON I – *Robert Marquardt*
- 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 – *James Leverenz, Payal Soni and Hubert Fernandez*
- 12:00 pm **Buffet Lunch:** SALON II

Agenda

Time for questions and answers are included in each presentation.

- 1:00 pm **Pain Management Cases/Pearls for General Neurologist** – *Pavan Tankha*
- 1:40 pm **Psychiatry Cases** – *Brian Barnett*
- 2:20 pm **Refreshment Break & Exhibits:** SALON II
- 2:40 pm **Advanced Practice Providers as Inpatient Neurology Consultants – A Valuable Team Member** – *Sarah Swarthout*
- 3:00 pm **Update on ALS** – *Rebecca Kuenzler*
- 3:40 pm **Historical Vignette and Panel Discussion / Q&A** – *Glen Stevens, Robert Marquardt, Pavan Tankha, Brian Barnett, Sarah Swarthout and Rebecca Kuenzler*
- 4:10 pm **Adjourn**

SUNDAY, AUGUST 4, 2024 • 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:**
- EMG Boot Camp:** *Ben Claytor*
 - EEG Boot Camp:** *Dileep Nair*
 - Atypical Movement Disorders Cases:** *Junaid Siddiqui*

- 8:00 am **Breakout Session Introductions:** General Session Room
SALON I – *Glen Stevens*
- 8:05 am **Breakout Session 4:** Salon I, Plaza I, Plaza II
- 8:45 am **Breakout Session 5:** Salon I, Plaza I, Plaza II
- 9:25 am **Breakout Session 6:** Salon I, Plaza I, Plaza II
- 10:05 am **Audience Response / Questions & Answers from Breakout Sessions**
SALON I – *Ben Claytor, Dileep Nair and Junaid Siddiqui*
- 10:20 am **Refreshment Break & Exhibits**
- 10:40 am **Neuroradiology: Brain Cases** – *Jenny Wu*
- 11:20 am **Neuroradiology: Spine Cases** – *Jenny Wu*
- 12:00 pm **Historical Vignette and Panel Discussion/Q&A**
Glen Stevens, Robert Marquardt, Jenny Wu
- 12:10 pm **Adjourn**

ABPN SELF-ASSESSMENT

The American Board of Psychiatry and Neurology has reviewed the 2024 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 \$280 per night plus tax. You may also make your reservation online at www.ritzcarlton.com using code CLECLEA (Single) or CLECLEL (Double). To secure the course rate, you must make your reservation by Wednesday, July 17, 2024.

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 \$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.

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.

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: 216.445.5431 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 216.445.5431 or eatonl3@ccf.org at least two weeks prior to the activity.

Registration and Cancellation

2024 NEUROLOGY UPDATE – A COMPREHENSIVE REVIEW FOR THE CLINICIAN

August 2–4, 2024

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	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, Friday, July 26, 2024. To register after this date, please do so onsite. In case of cancellation, a full refund will be made if canceled by July 19, 2024. After July 19, 2024, a \$50 cancellation fee will be deducted from your refund. **NO REFUNDS WILL BE ISSUED AFTER JULY 26, 2024.** Written notification of your cancellation is required in order to process your refund.

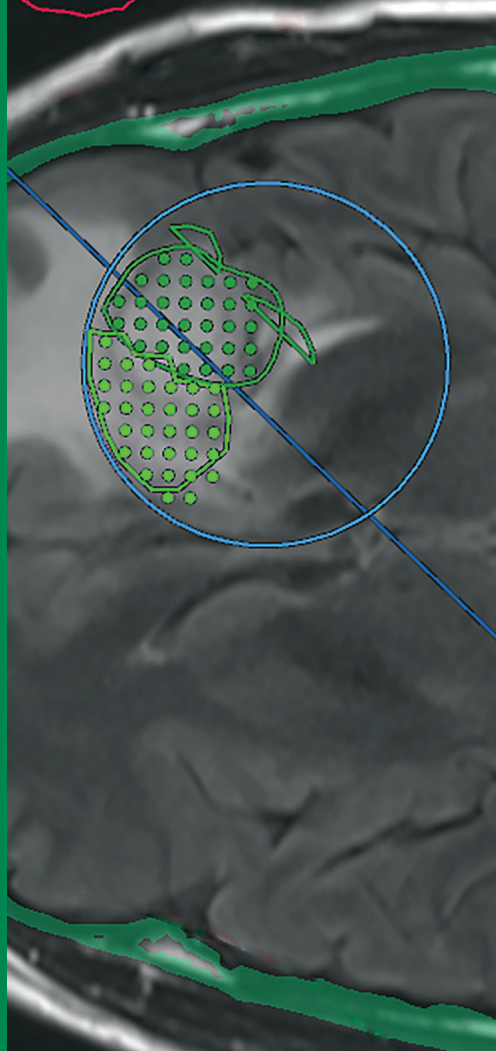
For questions about registering online, call 216.448.8710 or email cmeregistration@ccf.org

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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ABPN-Approved for Self-Assessment Credits



Cleveland Clinic

The Cleveland Clinic Foundation
Neurological Institute
9500 Euclid Avenue, JN5-424
Cleveland, OH 44195

ccfcmcme.org/NeuroUpdate