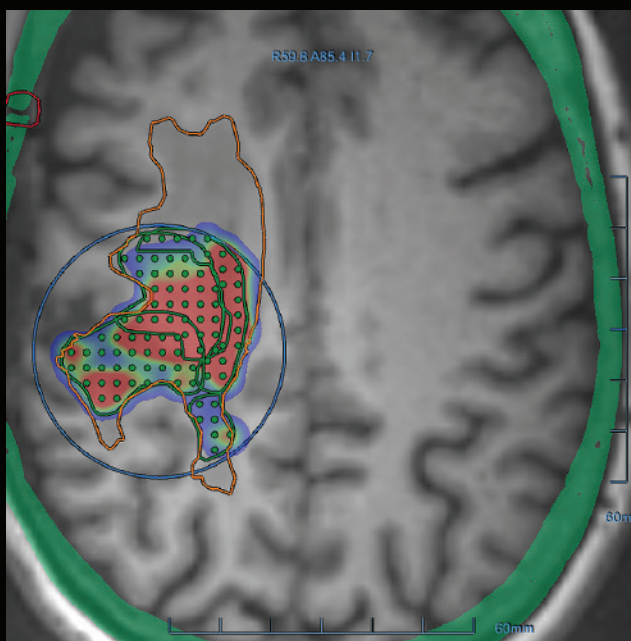


# 2021 Neurology Update – A Comprehensive Review for the Clinician

Featuring up to 10.25 CME credits  
ABPN-Approved for Self-Assessment Credits

August 7-8, 2021

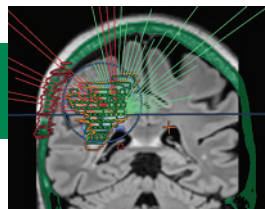
A Virtual Interactive Meeting



## Featured Topics

Autoimmune Encephalitis  
CNS Autoimmune Vasculitis  
COVID-19  
Dementia  
Epilepsy  
Headache

Multiple Sclerosis  
Movement Disorders  
Myopathy  
Neurosarcoidosis and Mimics  
POTS  
Stroke



## About the Course

Welcome to the 12th 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. Although in a virtual format again this year, we continue to bring you a clinically focused set of talks with updated information on a broad range of neurological conditions. Our interactive course will allow time for Q&A after each lecture via the Q&A feature 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.

New this year, we will have a section on emerging neuroimmunology that will cover autoimmune encephalitis, neurosarcoidosis and mimics, and CNS autoimmune vasculitis. We will continue to include presentations on management of epilepsy, stroke, headache, multiple sclerosis, movement disorders and dementia. The relevant topic of neurologic complications of COVID-19 will be discussed. The course will also address management of postural orthostatic tachycardia as well as provide an update on myopathy.

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

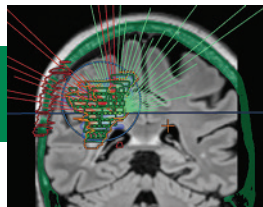
## Target Audience

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:

- Recognize, diagnose, and manage neurologic and systemic conditions associated with COVID-19.
- 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 myopathy and assess its impact on clinical practice.
- Summarize research on the postural orthostatic tachycardia syndrome and assess its impact on clinical practice.
- Assess the clinical implications of research advances in neuroimmunology, especially those related to autoimmune encephalitis, neurosarcoidosis and its mimics, and autoimmune vasculitis of the central nervous system.
- Summarize updates in management strategies for stroke, multiple sclerosis, movement disorders, and dementia.



## Cleveland Clinic Course Co-Directors

### **Glen Stevens, DO, PhD, FAAN**

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

### **Robert Marquardt, DO**

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

## Cleveland Clinic Faculty

### **Benjamin Claytor, MD**

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

### **Amy Kunchok, MD**

Staff, Mellen Center for Multiple Sclerosis  
Neurological Institute

### **Emad Estemalik, MD, MBA**

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

### **Steven MacDonald, MD**

Clinical Associate, Cleveland Clinic Lou Ruvo Center for Brain Health  
Neurological Institute

### **Hubert Fernandez, MD**

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

### **Marisa McGinley, DO**

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

### **Catherine Hassett, DO**

Department of Neurology  
Neurological Institute

### **Brandon Moss, MD**

Associate Staff  
Sarcoidosis Center  
Respiratory Institute  
Mellen Center for Multiple Sclerosis  
Neurological Institute

### **M. Shazam Hussain, MD**

Associate Professor  
Cleveland Clinic Lerner College of Medicine  
Head, Cleveland Clinic Stroke Program  
Director, Cerebrovascular Center  
Neurological Institute

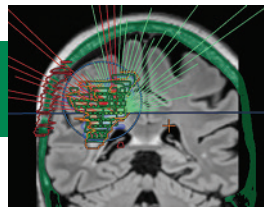
### **Vineet Punia, MD, MS**

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

### **G. Abbas Kharal, MD, MPH**

Staff, Cerebrovascular Center  
Neurological Institute

# Agenda



## 2021 Neurology Update – A Comprehensive Review for the Clinician

Saturday August 7, 2021 • Eastern Time

7:00 am	<b>Virtual Exhibits</b>
8:00 am	<b>Introduction</b> – <i>Glen Stevens and Robert Marquardt</i>
8:05-8:55 am	<b>Neurologic and Systemic Complications of COVID-19</b> <i>Catherine Hassett</i>
8:55-9:45 am	<b>Update on Myopathy</b> – <i>Benjamin Claytor</i>
9:45-10:00 am	Break/Exhibits
10:00-10:50 am	<b>Epilepsy Management and Advances</b> – <i>Vineet Punia</i>
10:50-11:40 am	<b>Stroke Management Cases</b> – <i>Shazam Hussain</i>
11:40-12:30 pm	Lunch Break/Exhibits
12:30-1:20 pm	<b>Early Diagnosis and Management of Postural Orthostatic Tachycardia Syndrome (POTS)</b> – <i>Robert Marquardt</i>
1:20-2:10 pm	<b>Autoimmune Encephalitis</b> – <i>Amy Kunchok</i>
2:10-2:25 pm	Break/Exhibits
2:25-3:15 pm	<b>Neurosarcoidosis and Mimics</b> – <i>Brandon Moss</i>
3:15-4:05 pm	<b>CNS Autoimmune Vasculitis</b> – <i>G. Abbas Kharal</i>
4:05-4:10 pm	<b>Remarks Day 1/Adjourn</b> – <i>Glen Stevens and Robert Marquardt</i>

*Time for questions and answers are included in each presentation.*

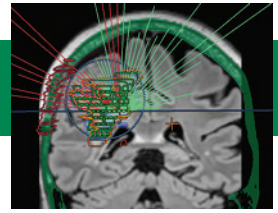
### About the Cleveland Clinic Neurological Institute

Cleveland Clinic's Neurological Institute treats over 140,000 patients every year, making it one of the busiest centers for neurological diagnosis and treatment in the country.

The multidisciplinary Cleveland Clinic Neurological Institute includes more than 300 medical, surgical and research specialists dedicated to the treatment of adult and pediatric patients with neurological and psychiatric disorders. The institute offers a disease-specific, patient-focused approach to care. Our unique, fully integrated model strengthens our current standard of care, allows us to measure quality and outcomes on a continual basis, and enhances our ability to conduct research. *U.S. News & World Report's* "America's Best Hospitals" survey consistently has ranked our neurology and neurosurgery programs among the top 10 in the nation.

The institute model allows our patients to better access the care they need through specialized, multidisciplinary, disease-specific centers that integrate the expertise of neurologists, neurosurgeons, psychiatrists, psychologists, neuroradiologists, and others, into the comprehensive care of a single disease.

# Agenda



## 2021 Neurology Update – A Comprehensive Review for the Clinician

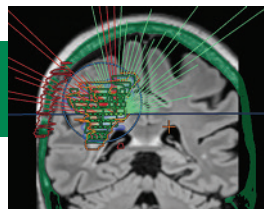
Sunday August 8, 2021 • Eastern Time

8:00 am	<b>Introduction</b> – <i>Glen Stevens and Robert Marquardt</i>
8:05-8:55 am	<b>Headache Management Cases</b> – <i>Emad Estemalik</i>
8:55-9:45 am	<b>Multiple Sclerosis Management Cases</b> – <i>Marisa McGinley</i>
9:45-10:00 am	Break/Exhibits
10:00-10:50 am	<b>Movement Disorders Management Cases</b> – <i>Hubert Fernandez</i>
10:50-11:40 am	<b>Dementia Cases</b> – <i>Steven MacDonald</i>
11:40-11:45 am	<b>Final Comments/Adjourn</b> – <i>Glen Stevens and Robert Marquardt</i>

*Time for questions and answers are included in each presentation.*



# General Information



## Information

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

## Accreditation

The Cleveland Clinic Foundation Center for Continuing Education is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

The Cleveland Clinic Foundation Center for Continuing Education designates this internet live activity for a maximum of 10.25 *AMA PRA Category 1 Credits*<sup>™</sup>. 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.

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

Physician Assistants – PAs may claim a maximum of 10.25 Category 1 credits for completing this activity. NCCPA accepts *AMA PRA Category 1 Credit*<sup>™</sup> from organizations accredited by ACCME or a recognized state medical society.

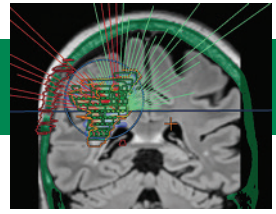
Nursing – The Ohio Board of Nursing will accept at face value the number of contact hours awarded for an educational activity that has been approved for CE by a nationally accredited system of CE approval. Nurses are able to obtain CE that has been approved or provided by a nationally recognized accreditation system of continuing education.

Please review with your licensing or certification organization about the acceptance of CE offered for this course.

## ABPN Self-Assessment

The American Board of Psychiatry and Neurology has reviewed the 2021 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 10.25 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 System.



## 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 Commercial Support requiring resolution of all faculty conflicts of interest. Faculty declaring a relevant commercial interest 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](mailto: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.

# Registration and Cancellation Information

## 2021 Neurology Update – A Comprehensive Review for the Clinician A Virtual Interactive Meeting

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

**Register at: [www.ccfme.org/NeuroUpdate](http://www.ccfme.org/NeuroUpdate)**

### COURSE FEES

Registration includes virtual meeting attendance and online syllabus.

Physician	<input type="checkbox"/> \$149.00
Active Duty Military	<input type="checkbox"/> \$129.00
Resident*/Fellow*	Complimentary
Cleveland Clinic Alumnus	<input type="checkbox"/> \$135.00
Non-Physician	<input type="checkbox"/> \$129.00

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 complimentary registration.

Preregistrations are accepted online until Wednesday, August 4, 2021.

In case of cancellation, a full refund will be made if canceled by Thursday, August 5, 2021.

After August 5, 2021, a \$25 cancellation fee will be deducted from your refund.

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](mailto: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.*

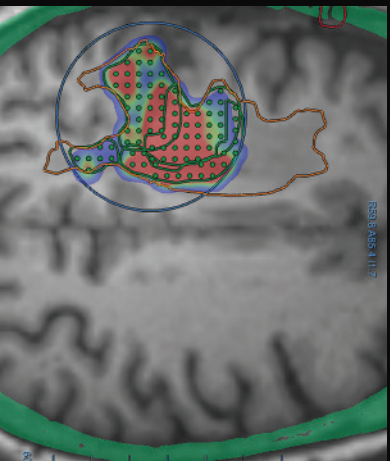


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[www.ccfcmc.org/NeuroUpdate](http://www.ccfcmc.org/NeuroUpdate)



The Cleveland Clinic Foundation  
Neurological Institute  
9500 Euclid Ave., S100  
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