

HARVARD MEDICAL  
FACULTY PHYSICIANS  
AT BETH ISRAEL DEACONESS  
MEDICAL CENTER



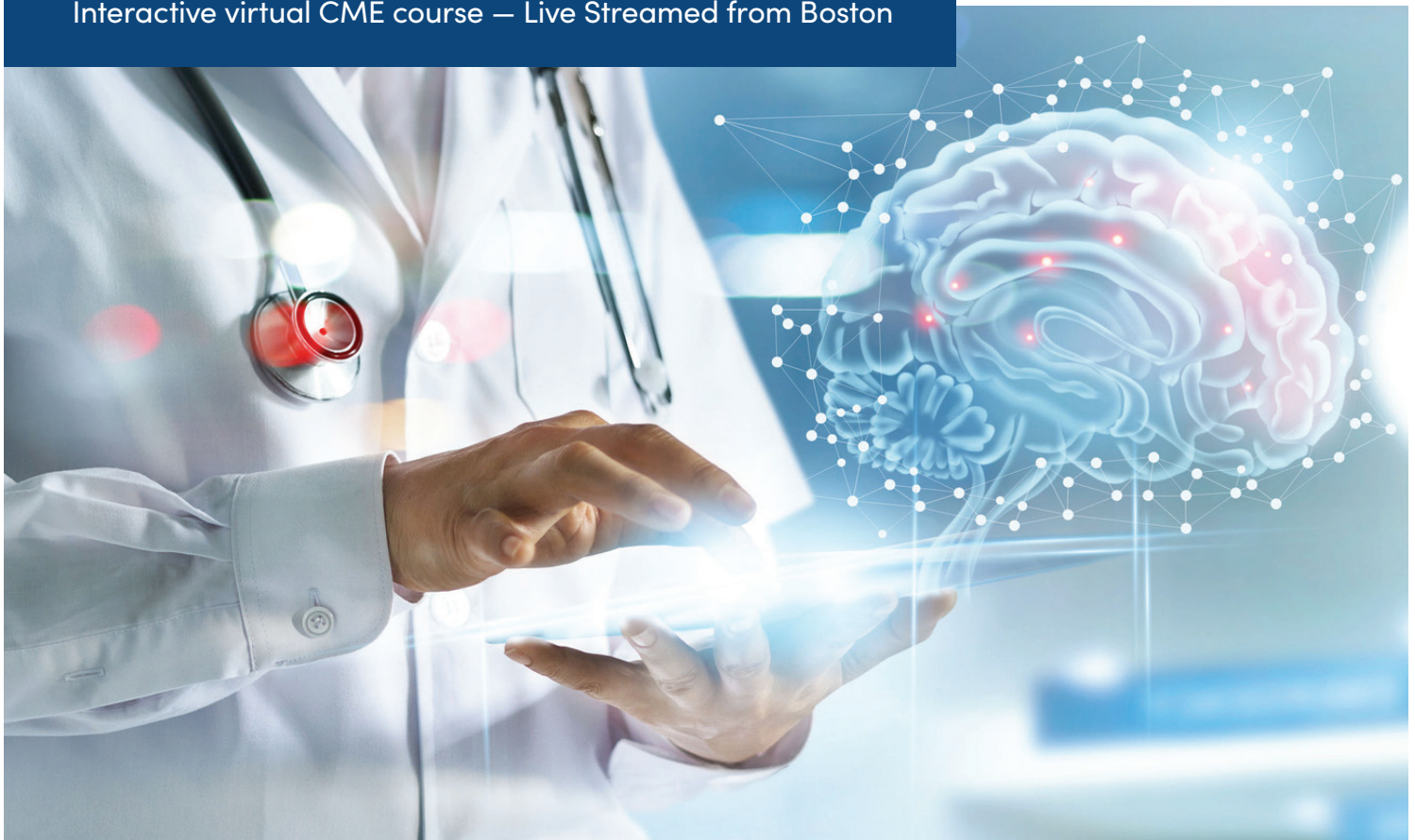
THE INSTITUTE FOR  
EMERGENCY DEPARTMENT  
CLINICAL QUALITY  
IMPROVEMENT

# Neurological Emergencies

24-25 February 2021

Interactive virtual CME course — Live Streamed from Boston

[www.EDQualityInstitute.org](http://www.EDQualityInstitute.org)



**The Institute for Emergency Department Clinical Quality Improvement**  
Promoting excellence in emergency department operations, clinical  
quality, and patient safety through a commitment to quality improvement,  
clinical education, international collaboration, and research

Offered by:

Beth Israel Deaconess  
Medical Center



MASSACHUSETTS  
GENERAL HOSPITAL

## Course Description

**Neurological Emergencies** is a 2-day, 13-hour course that provides updates, best practices, and new algorithms to diagnose neurological symptoms, quickly identify a neurological emergency, and take appropriate measures to optimize outcomes for high-risk patients. The goal of this course is to prepare clinicians to quickly and accurately diagnose and provide appropriate care for patients with neurological emergencies, including:

- High-frequency symptoms: Headache, back pain, dizziness, diplopia
- High-risk conditions: Acute ischemic stroke, subarachnoid hemorrhage, traumatic brain injury, coma, and intracerebral hemorrhage.

## Optimized for Remote Education

The program is optimized for distance learning. In addition to being live streamed, with interactive participant polls and Q&A sessions, all presentations will be recorded and made available to participants for online viewing for 10 days after the end of the course.

Neurological Emergencies is delivered by the Department of Emergency Medicine at Harvard Medical Faculty Physicians at Beth Israel Deaconess Medical Center, in collaboration with Massachusetts General Hospital, Department of Emergency Medicine. This course is relevant for clinicians working in emergency medicine, inpatient and outpatient neurology, critical care, hospital medicine, urgent care, and internal/family medicine.

## Key Course Features

Course participants will learn from world-renowned experts in neurological emergencies. The course, facilitated by faculty from Harvard Medical School, Beth Israel Deaconess Medical Center, Massachusetts General Hospital, and other international experts, will use presentations and interactive Q&A sessions to address the following educational areas:

- Best practices for using the focused history and physical to determine which patients with headache or minor head injury require neuroimaging or further workup
- An algorithmic approach to evaluating back pain to avoid missing cord or cauda equina compression
- The newest approaches to treating TIA and ischemic and hemorrhagic stroke
- Updates to diagnose and manage the comatose patient
- A new paradigm to diagnose dizziness
- Advances in the management of seizures
- Practical approaches to bedside neuro-ophthalmology and correct diagnosis of posterior circulation stroke.

## Course Directors

### Jonathan A. Edlow, MD

Vice-Chair, Department of Emergency Medicine, Beth Israel Deaconess Medical Center

Professor of Medicine and Emergency Medicine, Harvard Medical School



Dr. Edlow is an internationally renowned expert in the diagnosis of patients with acute neurological emergencies. He has spoken widely on

these topics in many venues and has planned or taught a portion of the neurological emergencies section at ACEP Scientific Assembly for 12 years. He has written extensively. Not only has his work appeared in every major emergency medicine journal and also in most major neurology journals, but also in *NEJM*, *JAMA*, and *Lancet*. He is best known for his work on diagnosis of patients with headache and dizziness, especially avoiding misdiagnosis of cerebrovascular conditions.

### Joshua N. Goldstein, MD, PhD

Director, Center for Neurologic Emergencies

Department of Emergency Medicine, Massachusetts General Hospital

Professor of Emergency Medicine, Harvard Medical School



Dr. Goldstein has dedicated his career to multidisciplinary work integrating neurology, neurocritical care, and emergency medicine. A

Fellow of the American College of Emergency Physicians, the American Academy of Emergency Medicine, the Neurocritical Care Society, and the American Heart Association, he is heavily involved in stroke quality of care at Massachusetts General Hospital. He also works with the American Heart Association on stroke care nationally, serving on the AHA Get-With-The Guidelines Stroke Workgroup, and has served on both the Program Committee for the International Stroke Conference and various AHA writing groups. He has worked with the Neurocritical Care Society and the Society for Academic Emergency Medicine. He currently runs an extramurally funded clinical research program studying the acute clinical care of neurologic emergencies such as stroke and intracerebral hemorrhage.

# Course Program

## DAY 1: Wednesday, February 24

- 6:45–7:00 Welcome and Introduction**  
Jonathan A. Edlow, MD and  
Joshua N. Goldstein, MD, PhD
- 7:00–8:00 Keynote presentation: The 2021 Approach to Dizziness**  
Jonathan Edlow, MD
- 8:00–8:15 Interactive Q&A Session**
- 8:15–8:45 Coma: The Initial Evaluation and What Not To Miss**  
Joshua Goldstein, MD, PhD
- 8:45–9:00 Interactive Q&A Session**
- 9:00–9:15 Mental break**
- 9:15–9:45 Headache 101: Avoiding Misdiagnosis**  
Jonathan Edlow, MD
- 9:45–10:00 Interactive Q&A Session**
- 10:00–10:30 Treating Seizures and Pseudoseizures in the Acute Setting**  
Joshua Goldstein, MD, PhD
- 10:30–10:45 Interactive Q&A Session**
- 10:45–11:15 Back Pain Clinical Pathway: Who to Evaluate and When?**  
Jonathan A. Edlow, MD
- 11:15–11:30 Interactive Q&A Session**
- 11:30–11:45 Mental break**
- 11:45–12:15 Neuro-Ophthalmology at the Bedside**  
Jonathan Edlow, MD
- 12:15–12:30 Interactive Q&A Session**
- 12:30–13:00 Case Discussions in Neurologic Emergencies: Real Closed Cases**  
Jonathan Edlow, MD and  
Joshua Goldstein, MD, PhD
- 13:00–13:15 Interactive Q&A Session**

## DAY 2: Thursday, February 25

- 7:00–8:00 Keynote presentation: Updates in Revascularization in Acute Stroke**
- 8:00–8:15 Interactive Q&A Session**
- 8:15–8:45 Transient Ischemic Attack**  
Joshua Goldstein, MD, PhD
- 8:45–9:00 Interactive Q&A Session**
- 9:00–9:15 Mental break**
- 9:15–9:45 Atypical Stroke Syndromes: Avoiding Misdiagnosis**  
Jonathan Edlow, MD
- 9:45–10:00 Interactive Q&A Session**
- 10:00–10:30 Diagnosis of Subarachnoid Hemorrhage**  
Jonathan Edlow, MD
- 10:30–10:45 Interactive Q&A Session**
- 10:45–11:15 Traumatic Brain Injury: The First Hours**  
Joshua Goldstein, MD, PhD
- 11:15–11:30 Interactive Q&A Session**
- 11:30–11:45 Mental break**
- 11:45–12:15 Intracerebral Hemorrhage: The First Hours**  
Joshua Goldstein, MD, PhD
- 12:15–12:30 Interactive Q&A Session**
- 12:30–13:15 Case Discussions in Neurologic Emergencies: Real Closed Cases**  
Jonathan Edlow, MD and  
Joshua Goldstein, MD, PhD
- 13:15–13:30 Q&A and wrap up**

Join international colleagues for our virtual webcast live from Boston!

The course will be held 2 consecutive mornings from Boston, to accommodate most time zones.



## Course Objectives

Upon completion of this activity, participants will be able to:

- Perform bedside diagnostic and therapeutic maneuvers in the dizzy patient
- Use focused history and physical to determine which patients with headache or minor head injury require neuroimaging or further workup
- Use clinical “red flags” to avoid misdiagnosis of cord and cauda equina compression in patients with back pain
- Discuss how to rapidly evaluate patients with stroke symptoms for intravenous and intraarterial revascularization therapy.

### METHODOLOGY

Our course includes didactic presentations and case discussions to provide participants with valuable clinical knowledge and quality process skills. The didactic sessions will provide current best practices in diagnosis and treatment, improving learner competence by providing current best evidence for evaluation of neurologic symptoms and current best practices for using known therapies and treatments.

### WHO SHOULD PARTICIPATE?

This course will primarily benefit physicians, advanced practice providers, and nurses from emergency medicine, inpatient from emergency medicine, inpatient and outpatient neurology, primary care, critical care, hospital medicine, urgent care and internal/family medicine.

### CERTIFICATES & CME CREDIT

Participants are eligible for the following:

- Participants completing attendance requirements at the conclusion of the program will be granted a **Certificate of Program Completion** from The Institute for Emergency Department Clinical Quality Improvement, based at The Department of Emergency Medicine at Harvard Medical Faculty Physicians at Beth Israel Deaconess Medical Center, a Harvard Medical School teaching hospital.
- **Accreditation Statement:** This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of The Massachusetts Medical Society and Department of Emergency Medicine, Beth Israel Deaconess Medical Center. The Massachusetts Medical Society is accredited by the ACCME to provide continuing medical education for physicians.
- **AMA Credit Designation Statement:** The Massachusetts Medical Society designates this live activity for a maximum of **11.75 AMA PRA Category 1 Credits™**. Physicians should claim only the credit commensurate with the extent of their participation in the activity. One credit meets the criteria of the Massachusetts Board of Registration in Medicine for risk management study.

## Registration

Visit [www.EDQualityInstitute.org](http://www.EDQualityInstitute.org) to register.

Email us at [info@EDQualityInstitute.org](mailto:info@EDQualityInstitute.org) for information on group discounts.