

HARVARD MEDICAL  
FACULTY PHYSICIANS  
AT BETH ISRAEL DEACONESS  
MEDICAL CENTER



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# Neurological Emergencies

May 3-4, 2024

Radisson Collection Royal Hotel, Copenhagen, Denmark

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

Learn with Harvard Medical School professors, and world-renowned neuro emergencies experts, Drs. Jonathan Edlow and Joshua Goldstein, as they take a version of their lauded annual course to Europe for the second time!

Relevant for clinicians working in:

- Emergency Medicine
- Inpatient and Outpatient Neurology
- Critical Care
- Hospital Medicine
- Urgent Care
- Internal/Family Medicine

Come early and attend our ED Quality Improvement Professional Certification Course, April 30-May 2, or attend our Principles of Medical Education Workshop April 30-May 1. \$400 discount for participants attending two courses.

**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, 16-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, seizure, weakness, and coma
- **High-risk conditions** Acute ischemic stroke, subarachnoid hemorrhage, traumatic brain injury, and intracerebral hemorrhage

Neurological Emergencies is delivered by the Department of Emergency Medicine at Harvard Medical Faculty Physicians at Beth Israel Deaconess Medical Center (BIDMC), in collaboration with Massachusetts General Hospital, Department of Emergency Medicine.

## Key Course Features

Course participants will learn from world-renowned experts in emergency medicine, neurology, neurocritical care, neurosurgery, and neuroradiology. 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:

- A new paradigm to diagnose dizziness
- Best practices for ordering, and reviewing, brain and spine imaging
- Updates in diagnosis and management of traumatic brain injury
- 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
- Advances in the management of seizures
- Practical approaches to bedside neuro-ophthalmology
- Use of Point of Care Ultrasound (POCUS) in eye and brain emergencies

## COURSE DIRECTORS

### Jonathan Edlow, MD

Professor of Emergency Medicine, Harvard Medical School; Professor of Medicine, Harvard Medical School

### Joshua Goldstein, MD, PhD

Director, Center for Neurologic Emergencies, Massachusetts General Hospital; Professor of Emergency Medicine, Harvard Medical School

## FACULTY

### H. Bart Brouwers, MD, PhD

Neurosurgeon, Elisabeth-TweeSteden Hospital

### William Copen, MD

Physician Investigator, Department of Radiology, Mass General Brigham; Assistant Professor of Radiology, Harvard Medical School

### Nicole Dubosh, MD

Director, Undergraduate Medical Education, Beth Israel Deaconess Medical Center; Medical Education Fellowship Director, Department of Emergency Medicine, Beth Israel Deaconess Medical Center; Director, Education Research, Department of Emergency Medicine, Beth Israel Deaconess Medical Center; Associate Professor of Emergency Medicine, Harvard Medical School

### Onyinyechi Eke, MD

Director of Global Ultrasound, Department of Emergency Medicine, Mass General Brigham; Instructor of Emergency Medicine, Harvard Medical School

### Mette Lindeloff, MD

Chief, Department for Brain and Spinal Cord Injuries, Copenhagen University Hospital

### Tracy Madsen, MD

Vice-Chair of Research, Brown Emergency Medicine; Associate Professor of Emergency Medicine, Brown University; Associate Professor of Epidemiology, Brown University School of Public Health

### Evie Marcolini, MD

Vice Chair of Faculty Affairs, Department of Emergency Medicine, Dartmouth-Hitchcock Medical Center; Associate Professor of Emergency Medicine and Neurology, Geisel School of Medicine at Dartmouth

*Join us in Copenhagen!*

The course will be held at the Radisson Collection Royal Hotel in Copenhagen center, right across from the famous Tivoli Gardens! Discounted room rates are available for all Neuro Emergencies attendees.

Please visit <https://edqualityinstitute.cventevents.com/neuroemergencies24>

# Program

## DAY 1: Friday, May 3

- 08:00–08:30 Registration and Welcome Coffee
- 08:30–08:45 Welcome and Introduction  
DASEM, Region Sjælland, Jonathan Edlow, MD, and Joshua Goldstein, MD, PhD
- 08:45–10:00 Dizziness: A New Evidence-Based Algorithm and Q&A  
Jonathan Edlow, MD
- 10:00–10:45 Neuroimaging: Heat CT and MRI for Non-Radiologists and Q&A  
William Copen, MD
- 10:45–11:00 Coffee Break
- 11:00–11:45 Headache 101: Avoiding Misdiagnosis and Q&A  
Jonathan Edlow, MD
- 11:45–12:30 Subarachnoid Hemorrhage: Diagnosis and Q&A  
Nicole Dubosh, MD
- 12:30–13:30 Lunch
- 13:30–14:15 POCUS on the Brain and Q&A  
Oyinyechi Eke, MD
- 14:15–15:00 Back Pain: Clinical Pathway of Who to Evaluate and When and Q&A  
Jonathan Edlow, MD
- 15:00–15:15 Coffee Break
- 15:15–16:00 Neuro Spine Imaging and Q&A  
William Copen, MD
- 16:00–17:00 Neurological Case Studies: Lessons Learned from Mistakes Made Part I  
All Faculty
- 17:00–18:30 Welcome Reception and Poster Session

## DAY 2: Saturday, May 4

- 08:00–08:25 Welcome Coffee
- 08:25–08:30 Welcome Back  
Jonathan Edlow, MD and Joshua Goldstein, MD, PhD
- 08:30–09:15 Code ICH! The First Hours of Intracerebral Hemorrhage and Q&A  
Joshua Goldstein, MD, PhD
- 09:15–10:00 Updates on Stroke Revascularization: IV Thrombolytics and Endovascular Therapy and Q&A  
Joshua Goldstein, MD, PhD
- 10:00–10:15 Coffee Break
- 10:15–11:00 Transient Ischemic Attack: Preventing Stroke and Q&A  
Tracy Madsen, MD
- 11:00–11:45 Traumatic Brain Injury and Q&A  
H. Bart Brouwers, MD, PhD
- 11:45–12:30 Seizures and Status Epilepticus and Q&A  
Evie Marcolini, MD
- 12:30–13:30 Lunch
- 13:30–14:15 CNS Infections and Q&A  
Mette Lindelof, MD
- 14:15–15:00 Coma and Delirium and Q&A  
Joshua Goldstein, MD, PhD
- 15:00–15:15 Coffee Break
- 15:15–16:00 Basic Neuro-Ophthalmology at the Bedside and Q&A  
Jonathan Edlow, MD
- 16:00–17:00 Neurological Case Studies: Lessons Learned from Mistakes Made Part II  
All Faculty

# Course Objectives

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

- Articulate how 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



Jonathan Edlow, MD

## 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. Many of the didactic sessions are rich with images and video clips to better communicate ideas and concepts.



Joshua Goldstein, MD, PhD

## WHO SHOULD PARTICIPATE?

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

## CERTIFICATES & CME CREDIT

Participants are eligible for the following:

- **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, as well as Massachusetts General Hospital.
- The Neurological Emergencies Course 2024 has been accredited by the **European Accreditation Council for Continuing Medical Education (EACCME®)** with 13.0 European CME credits (ECMEC®s). Each medical specialist should claim only those hours of credit that he/she actually spent in the educational activity. See website on how to convert credits for US and Canadian Physicians.

## TUITION

**Early** (before 1 February 2024) \$600 physicians, \$450 nurses

**Standard** \$650 physicians, \$550 nurses



## 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.

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