Neurological Emergencies
May 3–4, 2024
Radisson Collection Royal Hotel, Copenhagen, Denmark

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

www.EDQualityInstitute.org
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

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

Kori Zachrison, MD, MSc
Chief, Division of Health Services Research, Department of Emergency Medicine, Mass General Brigham; Associate Professor of Emergency Medicine, Harvard Medical School

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](https://edqualityinstitute.cventevents.com/neuroemergencies24)
DAY 1: Friday, May 3
8:00–8:30  Registration and Welcome Coffee
8:30–8:45  Welcome and Introduction
           Region Sjaelland, Danish Society of Emergency Medicine, Jonathan Edlow, MD, and Joshua Goldstein, MD, PhD
8:45–9:45  Dizziness: A New Evidence-Based Algorithm
           Jonathan Edlow, MD
9:45–10:00 Q&A
10:00–10:30  Neuroimaging: Head CT and MRI or Non-Radiologists
           William Copen, MD
10:30–10:45 Q&A
10:45–11:00 Coffee Break
11:00–11:30  Headache 101: Avoiding Misdiagnosis
           Jonathan Edlow, MD
11:30–11:45 Q&A
11:45–12:15  Subarachnoid Hemorrhage: Diagnosis
           Nicole Dubosh, MD
12:15–12:30 Q&A
12:30–13:30 Lunch
13:30–14:00  POCUS on the Brain
           Onyinyechi Eke, MD
14:00–14:15 Q&A
14:15–14:45  Back Pain: Clinical Pathway of Who to Evaluate and When
           Jonathan Edlow, MD
14:45–15:00 Q&A
15:00–15:15 Coffee Break
15:15–15:45  Neuro Spine Imaging
           William Copen, MD
15:45–16:00 Q&A
16:00–17:00  Neurological Case Studies: Lessons Learned from Mistakes Made — Part I
           All faculty
17:15–18:30 Welcome Reception

DAY 2: Saturday, May 4
8:00–8:25  Welcome Coffee
8:25–8:30 Welcome Back
8:30–9:00  Code ICH! The First Hours of Intracerebral Hemorrhage
           Joshua Goldstein, MD, PhD
9:00–9:15 Q&A
9:15–9:45  Updates on Stroke Revascularization: IV Thrombolytics and Endovascular Therapy
           Kori Zachrison, MD
9:45–10:00 Q&A
10:00–10:20 Coffee Break
10:20–10:50  Transient Ischemic Attack: Preventing Stroke
           Kori Zachrison, MD
10:50–11:05 Q&A
11:05–11:35  Traumatic Brain Injury
           Bart Brouwers, MD
11:35–11:50 Q&A
11:50–12:20 Seizures and Status Epilepticus
           Evie Marcolini, MD
12:20–12:35 Q&A
12:35–13:35 Lunch
13:35–14:05  CNS Infections
           Mette Lindeloff, MD
14:05–14:20 Q&A
14:20–14:50  Coma and Delirium
           Joshua Goldstein, MD, PhD
14:50–15:05 Q&A
15:05–15:25 Coffee Break
           Jonathan Edlow, MD
15:55–16:10 Q&A
16:10–17:00  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

**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.

**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:

- 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, as well as Massachusetts General Hospital.
- An application for CME credits has been made to the **European Accreditation Council for Continuing Medical Education (EACCME®)**. 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 of 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 for information on group discounts.