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
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 in the management of seizures
- Practical approaches to bedside neuro-ophthalmology
- Use of Point of Care Ultrasound (POCUS) in eye and brain emergencies

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)

### 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
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  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  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 Thrombolitics 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 to register.
Email us at info@EDQualityInstitute.org for information on group discounts.
WHO WE ARE

The Institute for Emergency Department Clinical Quality Improvement is set within the context of Beth Israel Deaconess Medical Center’s Department of Emergency Medicine, and our Emergency Medicine Residency Program, affiliated with Harvard Medical School. All of our faculty are attending physicians at Beth Israel Deaconess Medical Center’s Department of Emergency Medicine, and faculty members at Harvard Medical School. Our courses are designed to help emergency medicine clinicians develop the individual and departmental clinical decision-making skills and quality assurance practices they need in order to deliver high-quality care to patients. Meet our Institute’s leadership team.
Our institute’s main certification course, **Emergency Quality Improvement Professional (EQuIP) Certification Course**, is a 20-hour (3-day) intensive professional development course for emergency medicine clinicians. We also offer several emergency medicine **CME courses**, that support our mission of clinical quality.

## OUR MISSION

The mission of the Institute for Emergency Department Clinical Quality Improvement is to promote excellence in emergency department operations, clinical quality, and patient safety through a commitment to **quality improvement, clinical education, international collaboration, and research**. How we meet our mission.

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<td>“I have learned more about the diagnosis, and differential diagnosis of vertigo and dizziness. I now feel more confident in diagnosing and ordering investigations. Overall, the whole...”</td>
<td>“I really appreciated the discussion of medico legal cases in such an open, honest and supportive environment. Medical diagnosis is challenging, and clinicians are not machines. To hear everyone’s...”</td>
<td>“This course inspired me to introduce QA concepts to my ED. We are planning on implementing QA metrics, case assessment, and M&amp;Ms in our department. This course gave me the insight and tools I need to...”</td>
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program will improve my clinical diagnosis of acute neurological conditions.”

— Neuro Emergencies Attendee

perspective, while honoring how challenging our work is, made for interesting and thought-provoking discussion

— Neuro Emergencies Attendee

move ahead.”

— EQuIP Certification Course Attendee

Harvard Medical Faculty Physicians at BIDMC, Inc.
Affiliated with Harvard Medical School

The Institute for Emergency Department Clinical Quality Improvement
Beth Israel Deaconess Medical Center
1 Deaconess Road, WCC2
Boston, MA 02215 USA
HOW WE MEET OUR MISSION

**Quality Improvement:** Defining and measuring the quality of delivered emergency medical care is essential for identifying areas for clinical and operational improvements and then testing those improvements to see if they work. Our faculty demonstrate commitment to ED quality improvement through participation in our department’s robust quality assurance program, built to ensure excellent patient care through the proper identification of systems and clinical care issues. We are committed to sharing our practices, pathways, systems, and standards with colleagues in the interest of a mutual commitment to ED quality standards and patient safety.

**Clinical Education:** Through our annual certification course and our Emergency CME courses, we work with emergency clinicians to provide them with the clinical knowledge and quality assurance practices they need in order to maintain cutting-edge clinical practice standards and patient-safe EDs.
International Collaboration: Through our research and project collaborations with international colleagues from various countries, we have access to diverse ideas, practices, and quality markers that enrich our own research, clinical practice, and coursework. We are committed to working with international colleagues to maximize ED clinical standards through quality improvement practices within the ED.

Research: Our Center, set within the context of Beth Israel Deaconess Medical Center’s Department of Emergency Medicine, and our Emergency Medicine Residency Program, affiliated with Harvard Medical School, publishes significant evidence-based research in the areas of clinical care and quality assurance that enhances our practice and enriches our courses. We are committed to collaborating with international partners on research in the area of ED quality practices. View our research.

Harvard Medical Faculty Physicians
at BIDMC, Inc.

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