



HARVARD
MEDICAL SCHOOL

NEUROLOGICAL EMERGENCIES

NOV 8-10
2018
BOSTON, MA

Education for PHYSICIANS, NPs, PAs

New Algorithms for More Accurate Diagnosis of:

- Common neurological symptoms
- High-risk neurological conditions
- Neurological symptoms in special populations

State-of-the-art practices to:

- Avoid misdiagnosis
- Rapidly identify high-risk patients
- Act to optimize outcomes
- Optimize your use of imaging
- Minimize risk and liability

Updates to:

- Treat stroke, TIA, and ICH (includes updates for DAWN and DEFUSE 3)
- Select patients for endovascular therapy
- Diagnose dizziness at the bedside
- Improve headache diagnosis
- Determine if it's stroke, neuritis or BPPV
- Manage head injuries



Full agenda inside | This program is among the highest-rated Harvard Medical School CME courses

Register at NeuroEmergencies.HMSCME.com

*Jonathan A. Edlow, MD, FACEP and
Joshua N. Goldstein, MD, PhD, FAAEM, FNCS*



Beth Israel Deaconess
Medical Center



MASSACHUSETTS
GENERAL HOSPITAL



HARVARD MEDICAL SCHOOL

Dear Colleague,

We've all had the experience of seeing the dreaded “dizziness” or “back pain” chief complaint. Every day we go to work, we see patients with these symptoms and others, such as headache and generalized weakness. There is precious little time to sort out which are the needles (patients with life, limb, brain, or vision threatening emergencies) from the much larger haystack (patients with benign, self-limiting disorders).

Then, once the diagnosis is made, what are the most important next steps? What is the current state of the art for stroke, head injury, and seizure? Do all of these patients need specialty or subspecialty consultation? Which patients benefit from emergency MRI?

Knowing when it's safe NOT to do time-consuming and expensive imaging is as important as knowing when to use these tests.

If you see patients with potential neurologic emergencies, you know that every year there is more practice-changing literature impacting our approaches to the history, the physical, and early management.

Through participation in this program, you can stay current with these changes. Our program summarizes the state-of-the-art, evidence-based workup and management procedures that help you find that needle in the haystack (and know what to do once you find it) AND avoid over-evaluation of the haystack.

Our program is unique in that it:

- Provides tips that you can immediately put into practice.
- Lays out algorithms for common complaints such as headache, dizziness, back pain, and visual problems.
- Includes case-based education and extensive time for group discussion and the opportunity to hear what your colleagues in other cities and countries are doing.
- Delivers guidance for stroke and other cerebrovascular events, including first hours of workup, rapid neuroimaging and treatment, and best practices in risk management.
- Incorporates the latest data from DAWN and DEFUSE 3 — new, proven treatments for stroke up to 24 hours after last known well time.
- Lets you customize your learning experience.

You will come away from this experience knowing the evidence-based, state-of-the-art practices that will ensure the best outcomes for your patients.

We look forward to seeing you in November.



Jonathan A. Edlow, MD, FACEP
Course Director
Vice-Chair, Department of
Emergency Medicine,
Beth Israel Deaconess Medical Center
Professor of Medicine and Emergency
Medicine, Harvard Medical School



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Director, Center for Neurologic Emergencies,
Department of Emergency Medicine,
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Associate Professor of Emergency Medicine,
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Register at [NeuroEmergencies.HMSCME.com](https://www.harvardmedicalschool.org/NeuroEmergencies/HMSCME.com)

Course Description

This program prepares clinicians who work in Emergency Medicine, Inpatient and Outpatient Neurology, Critical Care, Hospital Medicine, Urgent Care and Internal/Family Medicine to quickly and accurately diagnose and provide appropriate care for patients with neurological emergencies, including:

High-frequency symptoms:

- Headache
- Back pain
- Dizziness
- Delirium
- Weakness

High-risk conditions:

- Ischemic and hemorrhagic stroke
- Subdural hematoma
- TIA
- Spinal cord compression
- Concussion and TBI

Strategies and best practices to:

- Avoid misdiagnosis
- Mitigate risk for you and your patient
- Improve patient safety

Presented by the leading clinical faculty at Harvard Medical School, this course ensures participants are better equipped to make an accurate diagnosis, better understand the uses and limitations of neuroimaging tests, and improve overall care in emergency, inpatient, and outpatient settings.

Learning Objectives

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

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

Harvard Medical School Faculty

James D. Berry, MD, MPH

William Copen, MD

Frank W. Drislane, MD

Andrea G. Edlow, MD, MSc

Brian L. Edlow, MD

Jonathan A. Edlow, MD, FACEP

Joshua N. Goldstein, MD, PhD,

FAAEM, FNCS

Jennifer L. Lyons, MD

Rebekah Mannix, MD, MPH

Pushpa Narayanaswami, MD, FAAN

Lise E. Nigrovic, MD, MPH

MingMing Ning, MD, MMSc

Christopher S. Ogilvy, MD

David Perez, MD, MMSc

Eric Rosenthal, MD

Martin A. Samuels, MD, DSc (hon),

FAAN, MACP, FRCP, FANA

Magdy H. Selim, MD, PhD

Martina Stippler, MD, FAANS

Ajith Thomas, MD

Guest Faculty

Suzanne Duni Briggs, JD, RN, BSN, Director, Loss Prevention; Certified Professional Healthcare Risk Manager; Adjunct Faculty, Rhode Island College of Nursing

Lauren M. Nentwich, MD, Director of Quality and Patient Safety, Emergency Department; Assistant Professor of Emergency Medicine, Boston University School of Medicine

David Newman-Toker, MD, PhD, Director, Division of Neuro-Visual & Vestibular Disorders, Department of Neurology; Professor of Neurology and Emergency Medicine, and Director, Armstrong Institute Center for Diagnostic Excellence, Johns Hopkins University School of Medicine

Matthew S. Siket, MD, Assistant Professor of Emergency Medicine, Alpert Medical School of Brown University; Co-Director, Stroke Centers of Rhode Island Hospital and The Miriam Hospital, Providence, RI

Accreditation

ACCREDITATION COUNCIL FOR CONTINUING MEDICAL EDUCATION: The Harvard Medical School is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians. The Harvard Medical School designates this live activity for a maximum of 23.50 *AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

RISK MANAGEMENT: This activity meets the criteria of the Massachusetts Board of Registration in Medicine for 5.25 credits of Risk Management Study. Please check your individual state licensing board requirements before claiming these credits.

NURSE PRACTITIONERS and REGISTERED NURSES: For the purpose of recertification, the American Academy of Nurse Practitioners Certification Board and American Nurses Credentialing Center accept *AMA PRA Category 1 Credit™* issued by organizations accredited by the ACCME (Accreditation Council for Continuing Medical Education). We would also suggest that learners check with their state licensing board to ensure they accept reciprocity with *AMA PRA Category 1 Credit™* for re-licensure.

PHYSICIAN ASSISTANTS: The National Commission on Certification of Physician Assistants (NCCPA) states that *AMA PRA Category 1 Credits™* are acceptable for continuing medical education requirements for recertification. We would also suggest that learners check with their state licensing board to ensure they accept reciprocity with *AMA PRA Category 1 Credit™* for re-licensure.

CANADIAN ACCREDITATION: The Royal College of Physicians and Surgeons of Canada recognizes conferences and workshops held outside of Canada that are developed by a university, academy, hospital, specialty society or college as accredited group learning activities.

EUROPEAN ACCREDITATION: Through an agreement between the American Medical Association and the European Union of Medical Specialists, physicians may convert *AMA PRA Category 1 Credit™* to an equivalent number of European CME Credits® (ECMECs®). Information on the process of converting *AMA PRA Category 1 Credits™* to ECMECs® can be found at: www.eaccme.eu.

Agenda

Thursday, November 8

7:30-7:50	Registration and Continental Breakfast
7:50-8:00	Welcome and Introduction Jonathan A. Edlow, MD, FACEP and Joshua N. Goldstein, MD, PhD, FAAEM, FNCS
8:00-9:00	Keynote Presentation: Diagnosis of the Comatose Patient Martin A. Samuels, MD, DSc (hon), FAAN, MACP, FRCP, FANA
9:00-9:15	Q&A
9:15-10:00	Optimal Use of Neuroimaging to Answer Clinical Questions William Copen, MD
10:00-10:15	Q&A
10:15-10:45	Headache 101: Clinical Clues that Signal Uncommon and Serious Causes Jonathan A. Edlow, MD, FACEP
10:45-11:00	Q&A
11:00-11:15	<i>Break (refreshments provided)</i>
11:15-11:45	Subdural Hematoma: State-of-the-Art Approaches to Emergency Management Martina Stippler, MD, FAANS
11:45-12:00	Q&A
12:00-12:30	Acute Management of Spinal Cord and Cauda Equina Injury Martina Stippler, MD, FAANS
12:30-12:45	Q&A
12:45-1:45	Lunch and Learn (Lunch Provided) Case Discussions in Neuroradiology William Copen, MD

Your choice of breakout sessions

	Acute ED and ICU Management	Hospitalist/Outpatient Care
1:45-2:15	Headache 201: RCVS, CVST, and Other	Generalized Weakness and Autonomic
2:15-2:30 Q&A	Rare but Serious Causes Jonathan A. Edlow, MD, FACEP	Disorders Pushpa Narayanaswami, MD, FAAN
2:30-3:00	Pediatric Neurologic Emergencies	Acute Manifestations of Chronic
3:00-3:15 Q&A	Lise E. Nigrovic, MD, MPH	Neurological Diseases James D. Berry, MD, MPH
3:15-3:45	Clinical Management of Seizures and	The Patient Stopped Seizing—Now What?
3:45-4:00 Q&A	Status Epilepticus Eric Rosenthal, MD	Critical Steps to Take Frank W. Drislane, MD
4:00-4:15	<i>Break (refreshments provided)</i>	
4:15-5:00	Case Discussions: Neurology Consults in the ED Pushpa Narayanaswami, MD, FAAN	

Program changes/substitutions may be made without notice. To view the most up-to-date version of the course program, please visit the course website.

* There are many convenient and varied lunch options within a short walking distance of the course.

Agenda

Friday, November 9

7:30-8:00	Continental Breakfast
8:00-8:45	Keynote Presentation: History and Future Treatment of Cerebral Aneurysms Christopher S. Ogilvy, MD
8:45-9:00	Q&A
9:00-9:30	Updates for Diagnosing Subarachnoid Hemorrhage Jonathan A. Edlow, MD, FACEP
9:30-9:45	Q&A
9:45-10:15	TIA Work-Up: Where/When/What? Matthew S. Siket, MD
10:15-10:30	Q&A
10:30-10:45	<i>Break (refreshments provided)</i>
10:45-11:15	Updates on IV tPA: Current Evidence and Logistical Challenges Joshua N. Goldstein, MD, PhD, FAAEM, FNCS
11:15-11:30	Q&A
11:30-12:00	Updates in Endovascular Therapy: DAWN, DEFUSE, and a New Age in Stroke Ajith Thomas, MD
12:00-12:15	Q&A
12:15-1:00	<i>Break for lunch*</i>

Your choice of breakout sessions

	Acute ED and ICU Management	Hospitalist/Outpatient Care
1:00-1:30	Concussion: Diagnosis and Treatment	CNS Infections
1:30-1:45 Q&A	Rebekah Mannix, MD, MPH	Jennifer L. Lyons MD
1:45-2:15	Intracerebral Hemorrhage	Inpatient Management of Stroke
2:15-2:30 Q&A	Joshua N. Goldstein, MD, PhD, FAAEM, FNCS	Magdy H. Selim, MD, PhD
2:30-3:00	Updates in ICU Management of TBI	Anticoagulants and Antiplatelets: What to Choose and When
3:00-3:15 Q&A	Brian L. Edlow, MD	Magdy H. Selim, MD, PhD
3:15-3:30	<i>Break (refreshments provided)</i>	
3:30-4:00	The Eyes Have It: Practical Bedside Neuro-ophthalmology Jonathan A. Edlow, MD, FACEP	
4:00-4:15	Q&A	
4:15-5:00	Case Discussions: Stroke Mimics and Chameleons MingMing Ning, MD, MMSc	

Who Attends

Physicians, NPs, PAs and other practitioners in the fields of:

- Emergency Medicine
- Critical Care
- Internal Medicine
- Neurology
- Hospital Medicine
- Urgent Care
- Family Medicine



Agenda

Saturday, November 10

7:30-8:00	Continental Breakfast
8:00-9:00	Keynote Presentation: Avoiding Misdiagnosis in Neurologic Emergencies David Newman-Toker, MD, PhD
9:00-9:15	Q&A
9:15-10:15	Diagnosing Dizziness: A New, Improved Paradigm Jonathan A. Edlow, MD, FACEP
10:15-10:30	Live Demonstration of Dizziness Maneuvers Jonathan A. Edlow, MD, FACEP
10:30-10:45	Q&A
10:45-11:00	<i>Break (refreshments provided)</i>
11:00-11:30	Functional (Psychogenic) Neurological Disorders and Malingering David Perez, MD, MMSc
11:30-11:45	Q&A
11:45-12:15	Back Pain: An Algorithmic Approach to Evaluation Jonathan A. Edlow, MD, FACEP
12:15-12:30	Q&A
12:30-1:30	<i>Break for lunch*</i>
1:30-2:00	Optimizing Quality in Stroke: QA from the Small to Large Hospital Lauren M. Nentwich, MD
2:00-2:15	Q&A
2:15-2:45	Acute Neurological Emergencies in Pregnant and Postpartum Patients Andrea G. Edlow, MD, MSc
2:45-3:00	Q&A
3:00-3:15	<i>Break (refreshments provided)</i>
3:15-4:45	Medicolegal Issues: Case Presentations of Real Closed Cases, with Panel Discussion and Debate Joshua N. Goldstein, MD, PhD, FAAEM, FNCS, Jonathan A. Edlow, MD, FACEP, Suzanne Duni Briggs, JD, RN, BSN <i>Course participants are invited to bring their own cases for discussion</i>
4:45-5:00	Q&A and Wrap-Up

Reasons to Attend

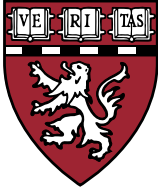
Algorithms and State-of-the-Art Practices to:

- Evaluate symptoms and high-risk conditions
- Avoid misdiagnosis
- Act in the first hours
- Manage coma and delirium
- Diagnose dizziness at the bedside
- Diagnose headaches: basic and advanced practices
- Optimize your use of CT, CTA, MRI
- Identify stroke patients for endovascular therapy
- Incorporate the latest data from the DAWN and DEFUSE 3 stroke trials: Saving brain up to 24 hours after onset
- Treat stroke, TIA, and intracerebral hemorrhage
- Manage head injuries, from concussion to critical care management of TBI
- Avoid misdiagnosis
- Improve risk management
- Optimize patient safety
- Better understand and mitigate liability

NEW in 2018

Education covering:

- The latest guidelines based on DAWN and DEFUSE 3 trials
- Pediatric neurologic emergencies
- Case-based sessions with audience participation and group discussion — learn from your peers
- Strategies to optimize quality and patient safety at your hospital
- How to mitigate liability



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NEUROLOGICAL EMERGENCIES

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How to rapidly identify high-risk patients and optimize their outcomes

Headaches • Dizziness • Back Pain • Weakness • Coma • Delirium • Seizures • TIA • Concussion

Education for PHYSICIANS, NPs, PAs

Customize your learning experience,
choosing from sessions designed for
practitioners of:

- Emergency Medicine
- Neurology
- Critical Care
- Hospital Medicine
- Internal Medicine
- Family Medicine
- Urgent Care

Full agenda inside



Earn up to 23.50 AMA PRA Category 1 Credits™ and 5.25 Risk Management Credits

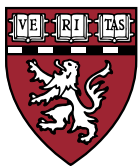


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HARVARD MEDICAL SCHOOL

Neurological Emergencies Course #734470-1901	Tuition: \$1,075
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Tuition includes continental breakfast each day, morning and afternoon refreshment breaks, and lunch on Thursday, November 8. Complimentary internet will be provided in the meeting room. All attendees will receive an electronic version of the course materials.

Registration, Payment, Confirmation and Refund Policy

Registrations for Harvard Medical School CME programs are made via our secure online registration system. To register for this course, please visit the course website at NeuroEmergencies.HMSCME.com.

At the end of the registration process, a \$5 non-refundable processing fee will be added to your registration, and you will have the choice of paying by check or credit card (Visa, MasterCard, or American Express). If you are paying by check (draft on a United States bank), the online registration system will provide you with instructions and a printable form for remitting your course fees by check. Postal, telephone, fax, and cash-payment registrations are not accepted. All fees shown in USD.

Upon receipt of your paid registration, an email confirmation from the HMS GCE office will be sent to you. Be sure to include an email address that you check frequently. Your email address is used for critical information, including registration confirmation, evaluation, and certificate. Refunds, less an administrative fee of \$75, will be issued for all cancellations received two weeks prior to the start of the course. Refund requests must be received by email. No refund will be issued should cancellation occur less than two weeks prior. "No shows" are subject to the full course fee and no refunds will be issued once the conference has started.



Venue

Fairmont Copley Plaza
138 St. James Avenue
Boston, Massachusetts
+1 617-267-5300

Accommodations

A limited number of rooms* have been reserved at Fairmont Copley Plaza until October 15, 2018. Please call the Global Reservations Centre at 1-800-441-1414 to reserve a room. When calling the hotel, be sure to specify that you are enrolled in the HMS CME Neurological Emergencies program to request a reduced room rate.

You can also make your discounted hotel reservation online by visiting the course website by October 15 and clicking on the dedicated link on the Venue page.

**Please note that the discounted room block may sell out before the deadline.*

Please do not make non-refundable travel arrangements until you have received an email from our office confirming your paid registration.

Questions? Call 617-384-8600 Monday-Friday 9am – 5pm (ET) or send email to CEPrograms@hms.harvard.edu

Register at NeuroEmergencies.HMSCME.com