



**HARVARD**  
MEDICAL SCHOOL

**Earn up to:**  
26.75 AMA PRA Category 1 Credits™  
26.75 ABIM MOC Points  
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# Update in HOSPITAL MEDICINE 2019

October 28 – 30, 2019 Boston, MA

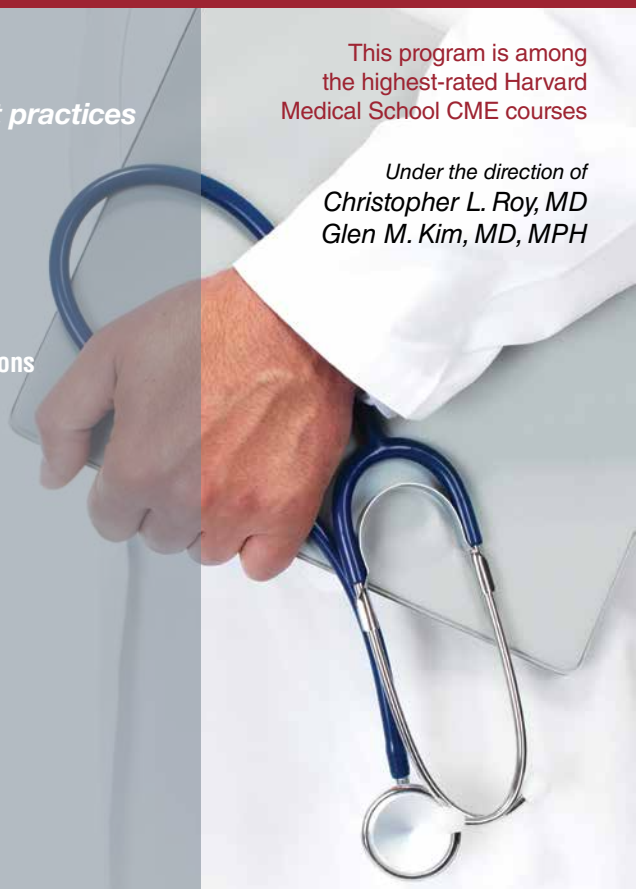
*For PHYSICIANS, NPs, PAs*

*Updates, new guidelines, and best practices  
to optimize inpatient care*

Heart failure	Atrial fibrillation
Diabetes	Acute coronary syndromes
ECGs	Pneumonia
Radiology	Critical care
UTI	Skin and soft tissue infections
Sepsis	Stroke/TIA
Hemodialysis	Acute kidney injury
GI bleed	Direct oral anticoagulants
<i>C. difficile</i>	Laboratory interpretation
Hematology	Pain management
Allergy	COPD/Asthma
Delirium	Pre-op evaluation
Addiction	Venous thromboembolism
Electrolytes	Pancreatobiliary disease
Syncope	Liver disease
HIV	Palliative care
Antibiotics	Arrhythmias
Rheumatology	Bacteremia/Endocarditis

This program is among  
the highest-rated Harvard  
Medical School CME courses

*Under the direction of  
Christopher L. Roy, MD  
Glen M. Kim, MD, MPH*



*This course **sold out** the past 4 years. Early registration to the 2019 program is strongly recommended.*

# The Comprehensive 2019 Hospital Medicine Update

## ADDICTION AND PAIN MANAGEMENT

- Difficult cases in alcohol withdrawal
- Common pitfalls in opioid titration for acute pain
- New guidelines on the management of opioid-induced constipation
- Dangers of natural/synthetic cannabinoids
- Update on management of opioid use disorders
- New options for the palliation of nausea and vomiting

## ALLERGY

- Testing and desensitization for  $\beta$ -lactam allergies
- What to do when there is no allergist
- Penicillin allergy: A risk factor for MRSA and *C. difficile*?
- Contemporary anaphylaxis management

## CARDIOVASCULAR

- Using high-sensitivity troponin and prediction scores to rule out ACS
- The evolving use of risk scores in PE workup
- CT-PE may not rule out PE in all patients
- Should we be using PCSK9 inhibitors to prevent cardiovascular events?
- The Fourth Universal Definition of Myocardial Infarction
- Update on supplemental O<sub>2</sub> in AMI patients
- Coronary CT for chest pain triage?
- Should we give IV magnesium for rate control of atrial fibrillation?
- PE as a cause of syncope: Dangerous, but not as common as we thought?
- A salty debate: Is sodium restriction in heart failure beneficial?
- New data: Angiotensin receptor-neprilysin inhibitors in acute decompensated heart failure
- New data: Direct oral anticoagulants (DOACs) in STEMI
- Syncope: When to order ancillary testing
- Atrial fibrillation: Updates on catheter ablation and LAA occlusion

## DELIRIUM

- Are patient visitors the best prevention for delirium?
- Antipsychotics for delirium: Don't believe the hype
- Are melatonin agonists useful or not in delirium prevention?

## DIAGNOSTICS

- ECG interpretation pearls and pitfalls
- Can't-miss radiology diagnoses
- Rapid-fire review of laboratory cases
- Radiology: Choosing the right imaging protocols

## ENDOCRINE

- Rapid-fire review of insulin management cases
- More liberal targets in inpatient glucose control?
- New data on metformin safety in chronic kidney disease
- Adverse effects of SGLT-2 and DPP-4 inhibitors
- Artificial pancreas therapy in the inpatient setting?

## GASTROINTESTINAL

- What imaging to order in suspected biliary obstruction
- Weekly vs. daily dosing for SBP prophylaxis
- New FDA approval: Thrombopoietin receptor agonists for periprocedural thrombocytopenia in liver disease
- More data for preemptive TIPS in high-risk acute variceal hemorrhage
- Hemostatic spray: A new therapeutic option for lower GIB

## HEMATOLOGY-ONCOLOGY

- Choosing wisely: Best practices for limiting transfusions
- Case-based review: Choosing the optimal DOAC for your patient
- Reversing anticoagulation with DOACs
- New guidelines on the management of bleeding in patients on oral anticoagulants
- L-glutamine: The first new sickle cell treatment approved in 20 years
- DOACs for heparin-induced thrombocytopenia?
- Red flags: When to call hematology

## Accreditation

### ACCREDITATION COUNCIL FOR CONTINUING MEDICAL EDUCATION

The Harvard Medical School is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

The Harvard Medical School designates this live activity for a maximum of 26.75 AMA PRA Category 1 Credits™.

Physicians should claim only the credit commensurate with the extent of their participation in the activity.

### AMERICAN BOARD OF INTERNAL MEDICINE

Successful completion of this CME activity, which includes participation in the evaluation component, enables the participant to earn up to 26.75 Medical Knowledge MOC points [and 0.75 patient safety MOC credits] in the American Board of Internal Medicine's (ABIM) Maintenance of Certification (MOC) program. Participants will earn MOC points equivalent to the amount of CME credits claimed for the activity. It is the CME activity provider's responsibility to submit participant completion information to ACCME for the purpose of granting ABIM MOC points.

# The Comprehensive 2019 Hospital Medicine Update

## INFECTIOUS DISEASE

- Case-based antibiotic review and pearls for interpreting culture data
- Even more reasons to avoid fluoroquinolones
- Pneumonia: The latest on CT vs. CXR, steroids, atypical coverage, and optimal antibiotic duration
- Procalcitonin for stopping antibiotics in the ICU
- New therapies for influenza
- New antibiotics for highly drug-resistant organisms in 2019
- Early switch to oral antibiotics in left-sided endocarditis
- New data on oral antibiotics for *Staph aureus* bacteremia
- Bacteremia that should prompt a colonoscopy: *Strep bovis* and beyond
- Reducing mortality from ESBL bacteremia
- Cellulitis: Things we do for no reason
- New guidelines for *C. difficile* management
- Is qSOFA enough for identifying sepsis?
- Do indwelling urinary catheters need to be exchanged in UTI?

## PERI-OP

- Are we undertreating osteoporosis in hip fracture patients?
- Endocarditis from non-dental procedures?
- New data on the importance of detecting perioperative MI
- Newest data on perioperative anticoagulation, aspirin, ACE inhibitors, and beta blockers

## PULMONARY

- Should we be stopping inhaled corticosteroids in COPD with pneumonia?
- New biologic options for asthma: Anti-IgE, anti-IL4 and anti-IL5 blockers
- Supplemental oxygen: Use with caution in critical illness

## RENAL

- Rethinking contrast-associated acute kidney injury
- Timing of renal replacement therapy in shock
- Lactated Ringer's vs. saline in the ICU
- Pearls for managing access in hospitalized ESRD patients

## RHEUMATOLOGY

- Diagnostic pearls: Exam, arthrocentesis, and laboratory tests
- Recognizing rheumatologic emergencies
- How to avoid a crash landing: Transitioning acute gout management on discharge

## STROKE

- New data on dual antiplatelet therapy in stroke and TIA
- Managing stroke in 2019: Beyond the TPA window
- New modality in ischemic stroke: Perfusion CT to assess salvageable penumbra
- Is MRI useful in patients with stroke of unknown onset?
- In the community: When to transfer for endovascular therapy

Now offering ABIM MOC Points

### AMERICAN ACADEMY OF FAMILY PHYSICIANS

This Live activity, Update in Hospital Medicine 2019, with a beginning date of 10/28/2019, has been reviewed and is acceptable for up to 26.75 Prescribed credit(s) by the American Academy of Family Physicians. 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 2.50 credits of Risk Management Study. This includes 1.75 credits of Opioid Education and Pain Management Training and .75 credits in End-of-Life Care Studies. 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](http://www.eaccme.eu).

# Harvard Medical School Faculty

## Course Directors

### Christopher L. Roy, MD, SFHM

Medical Director, Hospital Medicine Unit,  
Brigham and Women's Hospital  
Assistant Professor of Medicine, Harvard Medical School

### Glen M. Kim, MD, MPH

Director of Education, Hospital Medicine Unit, and  
Assistant Program Director, Internal Medicine Residency,  
Brigham and Women's Hospital  
Instructor in Medicine, Harvard Medical School

## Assistant Directors

### Adam C. Schaffer, MD

Director of General Medical Consultation,  
Hospital Medicine Unit, Brigham and Women's Hospital  
Assistant Professor of Medicine, Part-time,  
Harvard Medical School

### Koji Nakashima, MD

Associate Director of Education, Hospital Medicine Unit,  
Brigham and Women's Hospital  
Instructor in Medicine, Harvard Medical School

### Lindsey C. Wu, MD

Director of the Integrated Teaching Unit,  
Brigham and Women's Hospital  
Instructor in Medicine, Harvard Medical School

### John J. Ross, MD, CM, FIDSA

Associate Physician, Hospital Medicine Unit,  
Brigham and Women's Hospital  
Assistant Professor of Medicine, Harvard Medical School

### Elizabeth M. Petersen, MD

Associate Physician, Hospital Medicine Unit,  
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Instructor in Medicine, Harvard Medical School

### Matthew DiFrancesco, MD

Assistant Director for Medical Simulation | STRATUS,  
Brigham and Women's Hospital  
Instructor in Medicine, Harvard Medical School

Rebecca M. Baron, MD  
Tyler M. Berzin, MD, MS  
Sanjay Divakaran, MD  
Samuel Z. Goldhaber, MD  
Galen V. Henderson, MD  
Jennifer A. Johnson, MD  
Michael Klompas, MD  
Kapil Kumar, MD  
Joshua R. Lakin, MD  
Linda S. Lee, MD  
Adam D. Lipworth, MD  
Finnian R. McCausland,  
MBBCh, MMSc  
Anju Nohria, MD  
Nadine E. Palermo, DO

Aric D. Parnes, MD  
Emily S. Robinson, MD, MPH  
John J. Ross, MD  
Anna E. Rutherford, MD, MPH  
Marc S. Sabatine, MD, MPH  
Paul E. Sax, MD  
Adam C. Schaffer, MD  
Scott L. Schissel, MD, PhD  
Yee-Ping Sun, MD  
Derrick J. Todd, MD, PhD  
Jennifer W. Uyeda, MD  
Sarah E. Wakeman, MD  
Paige G. Wickner, MD, MPH  
David J. Wolfe, MD, MPH  
Sigal Yawetz, MD

## Guest Faculty

**David A. Krakow, MD**, Assistant Professor, Emory University  
School of Medicine; Director of Hospital Medicine, Emory  
University Hospital

**Alfred Lee, MD, PhD**, Associate Professor of Medicine, Yale  
School of Medicine; Associate Program Director, Internal Medicine  
Traditional Residency Program, Yale School of Medicine

## Who Should Attend

Hospitalists  
Internists  
Family Physicians  
Nurse Practitioners  
Physician Assistants  
... and other clinicians caring for  
hospitalized patients

## Course Description

Hospital medicine requires a vast knowledge base, including thousands of annual publications and rapidly evolving standards of care. For the busy hospitalist, staying current can be challenging. To help meet this need, Brigham and Women's Hospital, with faculty from Harvard Medical School, offers the 12th annual Update in Hospital Medicine.

This intensive 3-day course reviews fundamentals and practice-changing updates across 33 core topics in hospital medicine. In a case-based format, leading Harvard Medical School faculty address everyday questions with recent evidence, guidelines, and expert opinion. The focus is on practical management of common problems.



# Agenda

## Learning Objectives

Upon completion of this course, participants will be able to apply the following:

- Best practices for common problems in hospital medicine
- Seminal studies and updates in the evidence
- Recent guideline recommendations
- Expert opinions where the data are lacking
- Pearls for interpreting common diagnostic studies



*Please note that this course sold out the past four years. To be assured a place in the 2019 program, early registration is strongly advised.*

**Disclosure Policy:** Harvard Medical School (HMS) adheres to all ACCME Accreditation Criteria and Policies. It is HMS's policy that those who have influenced the content of a CME activity (e.g. planners, faculty, authors, reviewers and others) disclose all relevant financial relationships with commercial entities so that HMS may identify and resolve any conflicts of interest prior to the activity. These disclosures will be provided in the activity materials along with disclosure of any commercial support received for the activity. Additionally, faculty members have been instructed to disclose any limitations of data and unlabeled or investigational uses of products during their presentations.

## Monday • October 28

6:00am - 7:00am

**Registration and Continental Breakfast**

7:00am - 7:15am

**Welcome and Introductions**

7:15am - 8:05am

**DOACs: What a Hospitalist Needs to Know**

Alfred Lee, MD, PhD

8:05am - 8:55am

**Current Strategies and Controversies in Addiction Medicine**

Sarah E. Wakeman, MD

8:55am - 9:40am

**Best Practices in Delirium Prevention and Treatment**

David J. Wolfe, MD, MPH

9:40am - 9:55am Break

9:55am - 10:45am

**Recent Advances in Heart Failure**

Anju Nohria, MD

10:45am - 11:25am

**Rapid-Fire Hematology Cases for the Hospitalist**

Aric D. Parnes, MD

11:25am - 12:45pm Break for lunch on your own\*

12:45pm - 1:35pm

**Evidence-Based Management of COPD/Asthma**

Scott L. Schissel, MD, PhD

1:35pm - 2:15pm

**Can't-Miss ECG Cases for Hospitalists**

Sanjay Divakaran, MD

2:15pm - 2:30pm Break

2:30pm - 3:15pm

**HIV for Hospitalists**

Paul E. Sax, MD

3:15pm - 4:15pm

**Evidence-Based Approaches to Inpatient Hyperglycemia**

Nadine E. Palermo, DO

4:15pm - 4:30pm Break

4:30pm - 5:20pm

**Recent Advances in the Management of Neurologic Emergencies**

Galen V. Henderson, MD

5:20pm - 6:10pm

**Current and Emerging Concepts for Preoperative Evaluation**

Adam C. Schaffer, MD

Register at [HospitalMedicine.HMSCME.com](http://HospitalMedicine.HMSCME.com)

# Agenda

## Tuesday • October 29

6:00am - 7:00am

**Continental Breakfast**

7:00am - 7:50am

**Best Practices in Pain and Palliative Care**

Joshua R. Lakin, MD

7:50am - 8:40am

**Update in Atrial Fibrillation**

Yee-Ping Sun, MD

8:40am - 9:35am

**Practical Approaches to Pancreatobiliary Disease**

**Management** Linda S. Lee, MD

9:35am - 9:50am Break

9:50am - 10:35am

**Current Strategies and Common Questions in the Management of Urinary Tract Infections** Sigal Yawetz, MD

10:35am - 11:35am

**Antibiotic Update**

Jennifer A. Johnson, MD

11:35am - 12:55pm Break for lunch on your own\*

12:55pm - 1:35pm

**Allergy 101: Drug Allergies and Other Common Consults for Hospitalists**

Paige G. Wickner, MD, MPH

1:35pm - 2:25pm

**High-Yield Rheumatology for the Hospitalist**

Derrick J. Todd, MD, PhD

2:25pm - 2:40pm Break

2:40pm - 3:20pm

**Update in Acute Kidney Injury**

Emily S. Robinson, MD, MPH

3:20pm - 4:10pm

**Cirrhosis for the Hospitalist**

Anna E. Rutherford, MD, MPH

4:10pm - 4:25pm Break

4:25pm - 5:15pm

**Evidence-Based Management of Acute Coronary Syndromes** Marc S. Sabatine, MD, MPH

5:15pm - 5:45pm

**Update in C. difficile**

John J. Ross, MD

5:45pm - 6:35pm

**Common Consult Questions for Skin and Soft Tissue Infections** Adam D. Lipworth, MD

## Wednesday • October 30

6:00am - 7:00am

**Continental Breakfast**

7:00am - 8:00am

**Rapid-Fire Electrolyte Cases for the Hospitalist: Na, Ca**

David A. Krakow, MD

8:00am - 8:55am

**Rapid-Fire Lab Interpretation for the Hospitalist**

David A. Krakow, MD

8:55am - 9:35am

**The Hemodialysis Patient: What a Hospitalist Needs to Know**

Finnian R. McCausland, MBCh, MMSc

9:35am - 9:50am Break

9:50am - 10:45am

**Current Approaches in the Management of Venous Thromboembolism**

Samuel Z. Goldhaber, MD

10:45am - 11:35am

**GI Bleed: What a Hospitalist Needs to Know**

Tyler M. Berzin, MD

11:35am - 12:55pm Break for lunch on your own\*

12:55pm - 1:40pm

**Sepsis: An Evidence-Based Update**

Rebecca M. Baron, MD

1:40pm - 2:35pm

**Can't-Miss Radiology Diagnoses**

Jennifer W. Uyeda, MD

2:35pm - 2:50pm Break

2:50pm - 3:40pm

**Improving the Evaluation and Management of Syncope**

Kapil Kumar, MD

3:40pm - 4:25pm

**Diagnosis and Management of Pneumonia in the Hospitalized Patient**

Michael Klompas, MD

4:25pm - 5:10pm

**Bacteremia/Endocarditis: An ID Approach**

Michael Klompas, MD

*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.*

Register at [HospitalMedicine.HMSCME.com](https://HospitalMedicine.HMSCME.com)





**Update in Hospital Medicine 2019**

October 28–30 • Boston, MA  
Course #734282-2001

	Register after July 31, 2019	<b>Register on or before July 31, 2019 (Save \$100)</b>
<b>Course Tuition</b>	\$1,195	<b>\$1,095</b>

Your tuition includes all sessions, breakfasts, and morning and afternoon breaks. Complimentary internet is provided in the meeting room.

All attendees of Update in Hospital Medicine 2019 will receive an electronic version of the course materials. You can purchase a printed copy of these materials at the time of online registration for \$50, or on site at the course for \$65.

## 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 [HospitalMedicine.HMSCME.com](http://HospitalMedicine.HMSCME.com).

At the end of the registration process, a \$10 non-refundable processing fee will be added to your registration, and you will have the choice of paying by check, credit card (Visa, MasterCard, or American Express), or wire transfer in USD. If you are paying by check (draft on a United States bank) or by wire transfer, the online registration system will provide you with instructions for remitting your course fees. Postal, telephone, fax, and cash-payment registrations are not accepted. All fees shown in USD.

Upon receipt of your paid registration, an email confirmation 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. **Please do not make non-refundable travel plans until you have received an email from our office confirming your paid registration.** 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 course has started.

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



### Venue

Boston Marriott Copley Place  
110 Huntington Ave.  
Boston, Massachusetts 02116  
617-236-5800

## Accommodations

Boston Marriott Copley Place has reserved a block of discounted rooms for course participants.

**Important to note:**

- The number of discounted rooms is limited.
- Discounted rooms are available on a first-come, first-served basis.
- The discounted room rate is only available until October 7, 2019, or until the block sells out, which typically occurs well before this date.

**To reserve your room:**

- **Online:** To reserve your room online, please visit the Venue page of the course website at [HospitalMedicine.HMSCME.com/Venue](http://HospitalMedicine.HMSCME.com/Venue) and use the dedicated reservation link.
- **By phone:** If you are calling the hotel rather than using the dedicated link to request a discounted room, please call 1-877-901-2079 and be sure to specify that you are enrolled in Update in Hospital Medicine.