



# HARVARD MEDICAL SCHOOL



*Practical, focused education that ensures attendees are current with the updates and clinical best practices that are designed to produce the best patient outcomes*

# Infectious Diseases in Adults

April 30 – May 4  
**2018**  
Boston, MA

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

Prevention  
Detection  
Diagnosis  
Treatment

- State-of-the-art approaches to common infections
- New strategies for treating highly resistant bacterial infections
- Clinical approaches to complex, rare, “don’t-miss” infections
- New and emerging infectious diseases
- Update on antifungal diagnostics and therapy
- Optimal management of *Staph aureus*
- Infections in persons with substance use disorders
- What’s new in HIV management
- Hep C treatment workshop
- Musculoskeletal infectious diseases
- Strategies for optimal decision-making in the prevention, diagnosis and treatment of infectious diseases

Featuring a live *New England Journal of Medicine* Clinicopathologic Conference (CPC)



MASSACHUSETTS  
GENERAL HOSPITAL

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

# Overview

## Learning Objectives

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

- Draw upon increased knowledge and clinical skills in Infectious Diseases
- Utilize the latest strategies for the prevention, recognition, diagnosis, and treatment of important syndromes in Infectious Diseases
- Determine a differential diagnosis and initiate an appropriate diagnostic evaluation for the major infectious disease-related problems in outpatient and inpatient clinical practice
- Better analyze and translate areas of basic and clinical science relevant to the field

## Course Description

Infectious Diseases in Adults provides important updates and state-of-the-art approaches for the prevention, diagnosis and management of infectious diseases: common, challenging, rare and emerging. This highly rated course focuses on major clinical syndromes as well as management controversies. It features a range of case-based, interactive, and problem-solving sessions from master clinicians in the field. Topics with major impact on clinical practice are emphasized. This includes infections of national and international importance.

The course provides education that ensures attendees are current with recent developments in the prevention and management of infections, including the newer antibacterial, antiviral and antiparasitic agents. Preventive treatments including vaccines and prophylaxis in travelers are reviewed. Newer diagnostic tests are presented.

### New in 2018: Optional Workshop



**State-of-the-Art Treatment of Hepatitis C**  
Friday • May 4, 2018 • 2:00 pm – 4:30 pm

## Harvard Medical School Faculty

Kevin L. Ard, MD, MPH  
Miriam B. Barshak, MD  
Nesli Basgoz, MD  
Stephen B. Calderwood, MD  
Andrea Ciaranello, MD, MPH  
Ramy Elshaboury, PharmD, BCPS-AQ ID  
Donna Felsenstein, MD  
Rajesh T. Gandhi, MD  
Jeffrey A. Gelfand, MD  
Sarah Hammond, MD  
Howard M. Heller, MD, MPH  
Martin S. Hirsch, MD  
Elizabeth Hohmann, MD  
David C. Hooper, MD  
Rocío Hurtado, MD, DTM&H  
Arthur Kim, MD  
Camille Nelson Kotton, MD  
Alyssa R. Letourneau, MD, MPH  
Michael Mansour, MD, PhD  
Sandra B. Nelson, MD  
Eric S. Rosenberg, MD  
Edward T. Ryan, MD  
Paul E. Sax, MD  
Erica S. Shenoy, MD, PhD  
Sigal Yawetz, MD

### Nesli Basgoz, MD

#### Course Director

Associate Chief and Clinical Director, Division of Infectious Diseases, Massachusetts General Hospital; Associate Professor, Harvard Medical School

### Rajesh T. Gandhi, MD

#### Co-Course Director

Director of HIV Clinical Services and Education, Division of Infectious Diseases, Massachusetts General Hospital; Professor, Harvard Medical School; MGH Clinical Research Site Leader in the AIDS Clinical Trials Group; Director of the Harvard University Center for AIDS Research Clinical Core

### Sandra B. Nelson, MD

#### Co-Course Director

Director, Musculoskeletal Infectious Disease and OPAT (Outpatient Parenteral Antibiotic Therapy) Programs, Division of Infectious Diseases, Massachusetts General Hospital; Assistant Professor of Medicine, Harvard Medical School

### Rochelle P. Walensky, MD, MPH

#### Co-Course Director

Physician and Chief, Division of Infectious Diseases, Massachusetts General Hospital; Professor of Medicine, Harvard Medical School

## Guest Faculty

### Marwan Mikheal Azar, MD

Assistant Professor in Infectious Diseases, Yale School of Medicine

### Henry F. Chambers, MD

Professor of Medicine, University of California at San Francisco School of Medicine; Director, Clinical Research Services, UCSF Clinical and Translational Sciences Institute, San Francisco General Hospital

### Jane E. Koehler, MA, MD

Professor of Medicine and Attending Physician, Division of Infectious Diseases, University of California at San Francisco

### Allan R. Tunkel, MD, PhD, MACP

Associate Dean for Medical Education, and Professor of Medicine and Medical Science, Warren Alpert Medical School of Brown University

### Alysse G. Wurcel, MD, MS

Assistant Professor, Division of Geographic Medicine and Infectious Diseases, Department of Medicine, Tufts Medical Center; Assistant Professor, Department of Public Health and Community Medicine, Tufts University School of Medicine

# Course Highlights



## Clinical Decision-Making

Hear directly from world-renowned specialists and master clinicians on their approach and decision-making criteria for:

- Selecting the right antimicrobial
- Utilizing newer diagnostic tests
- Diagnosing low-probability but high-impact infections
- Rapidly detecting life-threatening infections
- Determining when and how long to hospitalize in the treatment of infectious diseases
- The outpatient transition: IV or oral?
- Optimizing empiric antimicrobial therapy: what to start, when to narrow or when to stop

## Safety, Quality, and Practice Improvement

Special sessions on quality and safety in the field, and on the value added by ID specialists:

- Antimicrobial stewardship
- Infection control
- Early inpatient ID consultations to reduce mortality, length of stay, and cost
- Outpatient Parenteral Antibiotic Therapy (OPAT): best practices in program design and operation
- ID for hospital medicine practitioners

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

## Treating Highly Resistant Bacterial Infections, including:

- MRSA and vancomycin-intermediate *Staph aureus* (VISA)
- Extended spectrum beta-lactamase (ESBL)-producing gram negative rods
- Carbapenemase-producing gram negative rods, including the NDM-1 metallo-beta-lactamase-producing organisms
- Vancomycin-resistant enterococci (VRE)

## Common Infectious Diseases: Updates in Prevention, Diagnosis and Treatment

Recent advances and guidelines in:

- Infections in immunocompromised hosts
- Infections in pregnancy, including Zika
- Infections in persons with substance use disorders
- Infections of travelers
- Systemic fungal infections
- Native and device-related orthopedic infections
- Ear, nose and throat (ENT) and eye infections
- Bronchiectasis and pneumonia
- Native and device-related central nervous system (CNS) infections
- HIV and its infectious and noninfectious complications
- PEP (Post-Exposure Prophylaxis) and PrEP (Pre-Exposure Prophylaxis) to prevent HIV infection
- Sexually transmitted infections
- Hepatitis C mono-infection and coinfection
- Tick and mosquito-borne infections and zoonoses
- Vaccination
- *Clostridium difficile* infection

## Challenging, Rare, and Emerging Infectious Diseases

Comprehensive updates on:

- Zika, Ebola, Middle Eastern Respiratory Syndrome (MERS), and other emerging infectious diseases
- Infections in travelers and immigrants
- Zoonoses—the old and the new
- Re-emergence of vaccine-preventable diseases
- Non-tuberculous (“atypical”) mycobacteria, including *Mycobacterium chimaera*
- *Candida auris*

## 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 39.00 *AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

- Infectious Diseases in Adults (April 30 - May 4): 36.75 *AMA PRA Category 1 Credits™*
- Optional Hepatitis C Workshop: 2.25 *AMA PRA Category 1 Credits™*

### MOC STATEMENT

Successful completion of this CME activity enables the participant to earn up to 39.00 MOC points 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.

### AMERICAN ACADEMY OF FAMILY PHYSICIANS

This Live activity, Infectious Diseases in Adults, with a beginning date of 04/30/2018, has been reviewed and is acceptable for up to 38.50 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 2.25 credits of Risk Management Study. This includes .75 credits of Opioid Education and Pain Management Training. Please check your individual state licensing board requirements before claiming these credits.

### NURSE PRACTITIONERS and REGISTERED NURSES

For the purpose of recertification, the American Nurses Credentialing Center accepts *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 Credits™* 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).

Disclaimer: CME activities sponsored by Harvard Medical School are offered solely for educational purposes and do not constitute any form of certification of competency. Practitioners should always consult additional sources of information and exercise their best professional judgment before making clinical decisions of any kind.

# Agenda

## Sunday – April 29

7:00 pm – 9:00 pm **Pre-registration**

## Monday – April 30

7:00 am - 8:00 am **Registration**  
(continental breakfast served)

8:00 am - 8:20 am **Introduction and Road Map**  
Nesli Basgoz, MD

**Session 1 • 8:20 am – 12:25 pm**  
Moderator: Dr. Nesli Basgoz

**Review of Major Antimicrobial Classes and Empiric Therapy: 2018**  
Alyssa R. Letourneau, MD, MPH

**Q & A Session**

**Update on New Antibiotics for Resistant Infections**  
David C. Hooper, MD

**Q & A Session**

**Coffee Break** (Refreshments provided)

**New Approaches to Infection Control and Antimicrobial Stewardship**  
Erica S. Shenoy, MD, PhD

**Q & A Session**

**Update on Antifungal Diagnostics and Therapy**  
Michael Mansour, MD, PhD

**Q & A Session**

12:25 pm – 1:40 pm  
Break for lunch\*

**Session 2 • 1:40 pm – 5:25 pm**  
Moderator: Dr. Nesli Basgoz

**Cases in Sepsis and Resistant Bacterial Infections**  
Alyssa R. Letourneau, MD, MPH

**Q & A Session**

**Staphylococcus aureus: Déjà Vu All Over Again**  
Henry F. Chambers, MD

**Q & A Session**

**Coffee Break** (Refreshments provided)

**Advances in Hepatitis C Mono-infection**  
Arthur Kim, MD

**Q & A Session**

**Urinary Tract Infections: The Common and the Complicated**  
Sigal Yawetz, MD

**Q & A Session**

# Agenda

## Tuesday – May 1

6:45 am – 8:00 am **Continental breakfast served**

7:00 am – 7:50 am **Breakfast Breakouts**

**Concurrent Breakout: 1. ID Updates for the Hospital Medicine Specialist**

Miriam B. Barshak, MD

**Concurrent Breakout: 2. OPAT for ID Specialists**

Kevin L. Ard, MD, MPH

**Session 3 • 8:00 am – 12:10 pm**

Moderator: Dr. Sandra B. Nelson

**Skin and Soft Tissue Infections: Diagnostic and Treatment Approaches**

Sandra B. Nelson, MD

**Q & A Session**

**Eye and ENT Infections: What You Need to Know**

Miriam B. Barshak, MD

**Q & A Session**

**Coffee Break** (Refreshments provided)

**Bronchiectasis and Pneumonia: Putting It All Together: Clinical, Radiographic, and Microbiologic**

Nesli Basgoz, MD

**Q & A Session**

**Infections in Persons with Substance Use Disorder**

Alysse G. Wurcel, MD, MS

**Q & A Session**

12:10 pm – 1:25 pm

Break for lunch\*

**Session 4 • 1:25 pm – 5:05 pm**

Moderator: Dr. Rajesh T. Gandhi

**ID Images: An Interactive Case-Based Discussion**

Rajesh T. Gandhi, MD

**Q & A Session**

**Updates in Endocarditis: 2018**

Stephen B. Calderwood, MD

**Q & A Session**

**Coffee Break** (Refreshments provided)

**Clinical Updates from the Microbiology Laboratory**

Marwan Mikheal Azar, MD

**Q & A Session**

**Sexually Transmitted Infections: Clinical Advances and Guidelines-Based Treatment**

Donna Felsenstein, 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.*

## Wednesday – May 2

6:45 am – 8:30 am **Continental breakfast served**

7:00 am – 8:00 am

**Breakfast Breakout: Late-Breaking Topics in ID**  
Course Faculty and Participants

**Session 5 • 8:00 am – 12:05 pm**

Moderator: Dr. Rajesh T. Gandhi

**HIV Management 2018**

Rajesh T. Gandhi, MD

**Q & A Session**

**Continuing Challenges in HIV-Associated Opportunistic Infections**

Nesli Basgoz, MD

**Q & A Session**

**Coffee Break** (Refreshments provided)

**Pre- and Post-Exposure Prophylaxis for HIV**

Kevin L. Ard, MD, MPH

**Q & A Session**

**Live: *New England Journal of Medicine***

**Clinicopathologic Conference**

Eric S. Rosenberg, MD

**Q & A Session**

12:05 pm – 1:20 pm

Break for lunch\*

**Session 6 • 1:20 pm – 5:05 pm**

Moderator: Dr. Nesli Basgoz

**Infections in Hematologic Malignancies and Stem Cell Transplantation**

Sarah Hammond, MD

**Q & A Session**

**Infections Related to Solid Organ Transplants and Immunomodulatory Therapy**

Camille Nelson Kotton, MD

**Q & A Session**

**Coffee Break** (Refreshments provided)

**Flumoxing Cases in Fungal Diseases**

Moderated by Michael Mansour, MD, PhD

**Q & A Session**

Wednesday, May 2

5:30 pm – 7:15 pm

## Networking Reception

*Join us for refreshments and to meet your faculty and colleagues*

**Now offering ABIM MOC Points**

# Agenda

## Thursday – May 3

6:45 am – 8:30 am **Continental breakfast served**

7:00 am - 8:00 am

### **Breakfast Breakout: Challenging Cases in Highly Resistant Bacterial Infections**

Moderated by Alyssa R. Letourneau, MD, MPH and Ramy Elshaboury, PharmD, BCPS-AQ ID

### **Session 7 • 8:00 am – 12:30 pm**

Moderator: Dr. Sandra B. Nelson

#### **Tropical Medicine and Parasitology**

Edward T. Ryan, MD

#### **Q & A Session**

#### **Immunizations and Travel Medicine in 2018**

Edward T. Ryan, MD

#### **Q & A Session**

#### **Native Bone and Joint Infections: Age-Old Problems and New Challenges**

Sandra B. Nelson, MD

#### **Q & A Session**

#### **Coffee Break** (Refreshments provided)

#### **Orthopedic Device Infections**

Sandra B. Nelson, MD

#### **Q & A Session**

#### **Meningitis and Encephalitis: Best Practices**

Allan R. Tunkel, MD, PhD, MACP

#### **Q & A Session**

12:30 pm – 1:45 pm

Break for lunch\*

### **Session 8 • 1:45 pm – 5:30 pm**

Moderator: Dr. Nesli Basgoz

#### **Tuberculosis Update: 2018**

Rocio Hurtado, MD, DTM&H

#### **Q & A Session**

#### **Nontuberculous Mycobacteria**

Nesli Basgoz, MD

#### **Q & A Session**

#### **Coffee Break** (Refreshments provided)

#### **Lyme and Other Tick-Borne Illnesses: What You Need to Know**

Howard M. Heller, MD, MPH

#### **Q & A Session**

#### **Babesia, Ehrlichia, and Rickettsia**

Jeffrey A. Gelfand, MD

#### **Q & A Session**

## Friday – May 4

6:45 am – 8:00 am **Continental breakfast served**

### **Session 9 • 8:00 am – 12:40 pm**

Moderator: Dr. Nesli Basgoz

#### **Curbside Consults**

Paul E. Sax, MD

#### **Q & A Session**

#### **New and Emerging Viruses**

Martin S. Hirsch, MD

#### **Q & A Session**

#### **Infections in Pregnancy (including Zika)**

Andrea Ciaranello, MD, MPH

#### **Q & A Session**

#### **Coffee Break** (Refreshments provided)

#### **Zoonoses**

Jane E. Koehler, MA, MD

#### **Q & A Session**

#### ***Clostridium difficile* Infection, including Recurrent and Refractory Disease and Novel Approaches**

Elizabeth Hohmann, MD

#### **Q & A Session**

12:40 pm – 2:00 pm

Break for lunch\*

### **Optional Workshop • 2:00 – 4:30 pm State-of-the-Art Treatment of Hepatitis C**

Under the direction of Arthur Kim, MD



This new program provides small group, interactive, and practical education on recent important changes in Hepatitis C care

#### **Highlights include:**

- A comprehensive review of the new medications for HCV
- Best practices for patient assessment, treatment, monitoring, side-effect management, and follow-up
- Optional treatment of patients with HIV/HCV coinfection
- Guidance for managing persons with substance use disorders
- Participants will leave with specific recommendations to improve the clinical care of people infected with HCV



# HARVARD MEDICAL SCHOOL

Earn up to:

*39.00 AMA PRA Category 1 Credits™*

*39.00 ABIM MOC Points*

*38.50 AAFP Prescribed credits*

*2.25 Credits Risk Management Study*

NEW in 2018 | Optional Half-Day Hepatitis C Treatment Workshop

# Infectious Diseases in Adults

# 2018

APRIL 30 – MAY 4  
BOSTON, MA

Updates, Best Practices, and  
2018 Guidelines for PHYSICIANS,  
NPs, PAs, PHARMACISTS in:

- Infectious Diseases
- Hospital Medicine
- Internal Medicine
- Family Practice
- Pulmonary and Critical Care  
Medicine
- Emergency Medicine

*and others who care for, diagnose,  
and treat patients with infectious  
diseases*



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



MASSACHUSETTS  
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# HARVARD MEDICAL SCHOOL

## Infectious Diseases in Adults 2018

(Course #732580-1802)

	Tuition	
	After March 31, 2018	On or before March 31, 2018
Physicians	\$1,495	<b>\$1,395 (Save \$100)</b>
Allied Health Professionals	\$1,295	<b>\$1,195 (Save \$100)</b>
Residents and Fellows	\$895	
<b>OPTIONAL ADD-ON WORKSHOP</b> <b>State-of-the-Art Treatment of Hepatitis C</b> Friday, May 4, 2:00 pm – 4:30 pm (limited to 60 participants)	\$145	

Course tuition includes continental breakfast, morning and afternoon refreshments, the course syllabus on a flash drive, complimentary internet in the main room, and a special reception on Wednesday evening.

**When you register for the course, you can indicate that you would like one hard copy of the two-volume syllabus, in addition to the flash drive, at an additional cost of \$65. (Not available for purchase on site.)**

### 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 [ID.HMSCME.com](http://ID.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 US 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. 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 postal mail, email, or fax. 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.

### Inquiries

Call 617-384-8600 Mon-Fri 9am – 5pm (ET). Send e-mail to [CEPrograms@hms.harvard.edu](mailto:CEPrograms@hms.harvard.edu).

### 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 April 9, 2018. You can call the hotel reservation line to make a room reservation: 1-800-441-1414. Please specify that you are enrolled in this activity to request the reduced room rate. You can also make your reservation online by April 9, 2018 by going to the course website at [ID.HMSCME.com](http://ID.HMSCME.com) and clicking on the dedicated reservation link on the Venue page.

*\*Please note that the discounted rooms may sell out before the deadline.*

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

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