



HARVARD
MEDICAL SCHOOL



Strategies, updates,
and education for
state-of-the-art care

Infectious Diseases in Adults

April 23–27
2019
Boston, MA

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

Prevention
Detection
Diagnosis
Treatment

- Strategies to optimize patient outcomes
- Newer treatment approaches for highly resistant bacterial infections
- State-of-the-art approaches to common infections
- Clinical approaches to complex, rare, and “don’t-miss” infections
- New and emerging infectious diseases
- Update on antifungal diagnostics and therapies
- Optimal management of *Staph aureus* infections
- Infections in persons with substance use disorders
- What’s new in HIV management and prevention
- Musculoskeletal infectious diseases



MASSACHUSETTS
GENERAL HOSPITAL

Register at ID.HMSCME.com

Overview

Learning Objectives

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

- Apply improved 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 clinical practice
- Analyze relevant areas of basic science to enable both the comprehension and the application of future discoveries to patient care

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 2019: Optional Pre-Course Workshops

WORKSHOPS



State-of-the-Art Treatment of Hepatitis C Virus (HCV)

Monday, April 22, 3:30 - 5:30 pm

Principles and Practices for an Antimicrobial Stewardship Program (ASP)

Monday, April 22, 3:30 - 5:30 pm

Harvard Medical School Faculty

Kevin L. Ard, MD, MPH
Miriam B. Barshak, MD
Nesli Basgoz, MD
Andrea Ciaranello, MD, MPH
Ramy Elshaboury, PharmD, BCPS-AQ ID
Donna Felsenstein, MD
Rajesh T. Gandhi, MD
Sarah Hammond, MD
Martin S. Hirsch, MD
Elizabeth Hohmann, MD
David C. Hooper, MD
Rocío Hurtado, MD, DTM&H
Jennifer A. Johnson, MD
Arthur Kim, MD
Camille Nelson Kotton, MD
Alyssa R. Letourneau, MD, MPH
Michael Mansour, MD, PhD
Sandra B. Nelson, MD
Molly L. Paras, MD
Eric S. Rosenberg, MD
Edward T. Ryan, MD
Paul E. Sax, MD
Erica S. Shenoy, MD, PhD
Virginia Triant, MD, MPH
Sarah E. Turbett, MD
Rochelle P. Walensky, MD, MPH
Sigal Yawetz, MD
Kimon C. Zachary, MD

Course Director

Nesli Basgoz, MD

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

Course Co-Directors

Rajesh T. Gandhi, MD

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

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

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

Guest Faculty

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

Susanna Naggie, MD, MHS

Associate Professor of Medicine, Duke University; Member, Duke Clinical Research Institute

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

INFECTIOUS DISEASES IN ADULTS 2019



Clinical Decision-Making

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

- Selecting the best antimicrobial and duration of treatment
- Utilizing newer diagnostic tests
- Diagnosing the low-probability, 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

Our talks and workshops incorporate safety, quality and practice improvement in infectious diseases, including:

- Antimicrobial stewardship workshop (optional)
- 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

Treating Highly Resistant 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)
- Azole-resistant fungal infections

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 and foreign-born persons
- Systemic fungal infections
- Native and device-related orthopedic infections
- Native and device-related central nervous system (CNS) infections
- Ear, nose and throat (ENT) and eye infections
- Bronchiectasis and pneumonia
- 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 monoinfection and coinfection
- Tick and mosquito-borne infections and zoonoses
- Vaccines and vaccine-preventable infections
- *Clostridium difficile* infection

Challenging, Rare, and Emerging Infectious Diseases

Comprehensive updates on:

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

Register at
ID.HMSCME.com

AGENDA

Monday, April 22

1:30pm - 3:30pm **Registration**

NEW | Optional Pre-Courses (Choose one)

State-of-the-Art Treatment of Hepatitis C Virus (HCV) 3:30pm - 5:30pm

Arthur Kim, MD and Susanna Naggie, MD, MHS

HCV disease management continues to rapidly advance. This special program provides small-group, interactive, intensive and practical education for clinicians who wish to provide care for HCV-infected patients.

Highlights include:

- Screening and testing for HCV infection, and staging of liver disease for the non-hepatologist
- A comprehensive, targeted review of the treatment options for patients with HCV infection according to their HCV genotype, treatment experience and disease stage
- Best practices for patient assessment, treatment, monitoring, side effect management, and HCV care after cure (follow-up and cancer screening)
- Evolving strategies for management of HCV and HIV coinfection
- Guidance for managing persons with HCV and substance use disorders

Participants will leave with specific recommendations to improve the clinical care of people infected with HCV.

Principles and Practices for an Antimicrobial Stewardship Program (ASP) 3:30pm - 5:30pm

Alyssa R. Letourneau, MD, MPH

This special workshop provides evidence-based principles and strategies to:

- Build the necessary infrastructure and implement an effective ASP
- Comply with the CDC's seven core elements for hospital ASPs
- Utilize and integrate the microbiology lab and pharmacy into a multidisciplinary ASP
- Identify the ways in which antimicrobial stewardship leads to improved outcomes, including:
 - Lower antimicrobial costs
 - Decreased incidence of resistant bacterial and candidal infections
 - Optimal antimicrobial dosing, administration and monitoring
- Utilize national benchmarking data to judge program outcomes and success
- Measure the impacts and improve the outcomes of stewardship interventions
- Create training programs for ASP practitioners (physicians, physician extenders, nurses and pharmacists) in your institution
- Optimize the use of rapid diagnostics through ASP oversight and interpretation

6:00pm - 8:00pm **Registration**

Tuesday, April 23

6:30am - 7:45am **Registration and Continental Breakfast**

7:45am - 8:05am **Introduction and Road Map**
Nesli Basgoz, MD

Morning Session • 8:05am – 12:35pm

Moderator: Dr. Nesli Basgoz

Major Antimicrobial Classes: The New Fundamentals
Alyssa R. Letourneau, MD, MPH

Q & A Session

New Antibiotics: Expanded Treatment Options for Resistant Infections David C. Hooper, MD

Q & A Session

The Cost of Our Drugs: Branded, Generic and Why We Should Care Rochelle P. Walensky, MD, MPH

Q & A Session

Coffee Break (Refreshments provided)

Current Approaches to Infection Control
Erica S. Shenoy, MD, PhD

Q & A Session

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

Q & A Session

12:35pm - 1:50pm **Break for lunch***

Afternoon Session • 1:50pm – 4:55pm

Moderator: Dr. Nesli Basgoz

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

Q & A Session

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

Q & A Session

Coffee Break (Refreshments provided)

Encephalitis and Healthcare-Associated CNS Infections: Guidelines and Best Practices
Allan R. Tunkel, MD, PhD, MACP

Q & A Session

Disclaimer: CME activities accredited 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.

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 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 23-27): 37.25 *AMA PRA Category 1 Credits*[™]
- Optional Pre-course Workshop (April 22): 1.75 *AMA PRA Category 1 Credits*[™]

AGENDA

Wednesday, April 24

6:30am - 8:00am **Continental Breakfast Served**

7:00am - 8:00am **Concurrent Breakfast Breakouts**

1. ID Updates for the Hospital Medicine Specialist
Miriam B. Barshak, MD

2. OPAT for ID Specialists
Kevin L. Ard, MD, MPH

Morning Session • 8:00am – 11:55am

Moderator: Dr. Sandra B. Nelson

Skin and Soft Tissue Infections: Optimized 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)

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

Q & A Session

Infections in Persons with Substance Use Disorder: New Horizons and Emerging Approaches

Jennifer A. Johnson, MD

Q & A Session

11:55am - 1:10pm Break for lunch*

Afternoon Session • 1:10pm – 5:15pm

Moderator: Dr. Rajesh T. Gandhi

Curbside Consults and E-Consults

Paul E. Sax, MD

Q & A Session

Endocarditis: Updates and Controversies

Molly L. Paras, MD

Q & A Session

Coffee Break (Refreshments provided)

Clinical Advances from the Microbiology Laboratory

Sarah E. Turbett, MD

Q & A Session

My Most Difficult Cases Course Directors

Q & A Session

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.

Thursday, April 25

6:30am - 8:00am **Continental Breakfast Served**

7:00am - 8:10am **Breakfast Breakout Session**

Conference on Retroviruses and Opportunistic Infections (CROI): 2019 Updates

Nesli Basgoz, MD, Rajesh T. Gandhi, MD, Virginia Triant, MD, MPH, and Kevin L. Ard, MD, MPH

8:10am - 8:15am

Q & A Session

Morning Session • 8:15am – 12:15pm

Moderator: Dr. Rajesh T. Gandhi

HIV Management in 2019 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 (CPC)

Eric S. Rosenberg, MD

Q & A Session

12:15pm - 1:30pm Break for lunch*

Afternoon Session • 1:30pm – 5:35pm

Moderator: Dr. Nesli Basgoz

Checkpoint Inhibitors and CAR-T Cell Therapy for the ID Clinician Michael Mansour, MD, PhD

Q & A Session

Infections in Hematologic Malignancies and Stem Cell Transplantation Sarah Hammond, MD

Q & A Session

Coffee Break (Refreshments provided)

Infections Related to Solid Organ Transplant and Non-Oncologic Immunomodulatory Therapy

Camille Nelson Kotton, MD

Q & A Session

Flumoxing Cases in Fungal Diseases

Michael Mansour, MD, PhD and Sarah E. Turbett, MD

Q & A Session

5:45pm - 7:30pm **Reception**

AMERICAN ACADEMY OF FAMILY PHYSICIANS

This Live activity, Infectious Diseases in Adults, with a beginning date of 04/22/2019, has been reviewed and is acceptable for up to 39.00 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 4.25 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 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.

AGENDA

Friday, April 26

6:30am - 8:00am **Continental Breakfast Served**

7:00am - 7:55am **Breakfast Breakout Session**

Challenging Cases in Highly Resistant Bacterial Infections

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

7:55am - 8:00am **Q & A Session**

Morning Session • 8:00am – 11:40am

Moderator: Dr. Sandra B. Nelson

Native Bone and Joint Infections: Age-Old Problems and New Challenges Sandra B. Nelson, MD

Q & A Session

Tropical Medicine and Parasitology Edward T. Ryan, MD

Q & A Session

Coffee Break (Refreshments provided)

Travel Medicine and Immunizations: 2019 Updates

Edward T. Ryan, MD

Q & A Session

Orthopedic Device Infections

Sandra B. Nelson, MD

Q & A Session

11:40am - 12:55pm Break for lunch*

Afternoon Session • 12:55pm – 6:05pm

Moderator: Dr. Nesli Basgoz

Bronchiectasis and Pneumonia: Putting It All Together: Clinical, Radiographic, and Microbiologic
Nesli Basgoz, MD

Q & A Session

Tuberculosis Update 2019

Rocio Hurtado, MD, DTM&H

Q & A Session

Nontuberculous Mycobacteria

Nesli Basgoz, MD

Q & A Session

Coffee Break (Refreshments provided)

Tick Talk: Expert Guidance for Lyme and Other Tick-Borne Illnesses Kimon C. Zachary, MD

Q & A Session

Sexually Transmitted Infections

Donna Felsenstein, MD

Q & A Session

Saturday, April 27

6:30am - 8:00am **Continental Breakfast Served**

Morning Session • 8:00am – 12:15pm

Moderator: Dr. Nesli Basgoz

ID Images: A Digital Library for Learning Infectious Diseases

Rajesh T. Gandhi, 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

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

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



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

ABIM MOC Points

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 39.00 Medical Knowledge 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.

PHYSICIAN ASSISTANTS

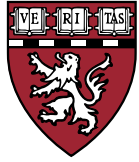
The National Commission on Certification of Physician Assistants (NCCPA) states that *AMA PRA Category 1 Credits™* are acceptable for continuing medical education requirements for recertification. We would also suggest that learners check with their state licensing board to ensure they accept reciprocity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



HARVARD
MEDICAL SCHOOL

Infectious Diseases in Adults

2019
April 23–27
BOSTON, MA

Course Director
Nesli Basgoz, MD



Updates, Best Practices, and New 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 patients with
infectious diseases*

NEW | Optional Hepatitis C
Treatment Pre-Course



NEW | Optional Antimicrobial
Stewardship Pre-Course



Earn up to:
39.00 AMA PRA Category 1 Credits™
39.00 ABIM MOC Points
39.00 AAFP Prescribed credits
4.25 Credits Risk Management Study



HARVARD MEDICAL SCHOOL

Infectious Diseases in Adults 2019

(Course #732580-1902)

| | Tuition | |
|--|----------------------|-----------------------------|
| | After March 31, 2019 | On or before March 31, 2019 |
| Physicians | \$1,495 | \$1,395 (Save \$100) |
| Allied Health Professionals | \$1,295 | \$1,195 (Save \$100) |
| Residents and Fellows | \$895 | |
| OPTIONAL CONCURRENT PRE-COURSE WORKSHOPS | | |
| State-of-the-Art Treatment of Hepatitis C Virus (HCV) Monday, April 22, 3:30 pm – 5:30 pm <i>(limited to 60 participants)</i> | \$145 | |
| Principles and Practices for an Antimicrobial Stewardship Program (ASP) Monday, April 22, 3:30 pm – 5:30 pm <i>(limited to 60 participants)</i> | \$145 | |

Your Course Tuition Includes:

- Continental breakfast, and morning and afternoon refreshments
- A special reception on Thursday evening
- Complimentary internet in the meeting room
- Course materials as noted below:
 - Flash Drive (no additional fee): Each attendee will receive a flash drive containing a full-color syllabus.
 - The option to purchase one printed syllabus when you register for this program (\$65) or on site (\$100) by check or money order.

IMPORTANT TO NOTE: There will be a very limited supply of the printed syllabus for sale on site and only available on a first-come-first-served basis with payment by check or money order. If you would like a printed copy of the syllabus, we strongly recommend that you purchase it in advance, when you register for this program.

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.

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. 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.

Inquiries

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

Accommodations*

A limited number of rooms have been reserved at Fairmont Copley Plaza until April 18, 2019. 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 18, 2019 by going to the course website at ID.HMSCME.com and clicking on the dedicated reservation link on the Venue page.

*Please note that the discounted rooms are available on a first-come, first-served basis, and 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.



Venue

Fairmont Copley Plaza
138 St. James Avenue
Boston, Massachusetts 02116
+1 617-267-5300

Register at ID.HMSCME.com