Infectious Diseases in Adults

April 28–May 2
2020
Boston, MA

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

Newer treatment approaches for highly resistant bacterial infections
Prevention and treatment of infection in immunocompromised hosts
State-of-the-art approaches to common infections
Clinical approaches to complex, rare, and “don’t-miss” infections
New, evolving, 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 prevention and management
Musculoskeletal infectious diseases

Register at ID.HMSCME.com
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. Principles of antimicrobial stewardship and infection control are highlighted.

New in 2020: Optional Pre-Course Workshops

- **Advanced Cases in Resistant and Difficult-to-Treat Infections**
  Monday, April 27, 1:00 - 3:15 pm

- **Antimicrobial Stewardship Programs (ASP): Updated Principles and Practice with Instructive Cases**
  Monday, April 27, 3:30 - 5:30 pm

Learning Objectives

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

- Utilize the latest strategies for the prevention, diagnosis, and management of important infectious disease syndromes in immunocompetent and immunocompromised patients
- Summarize principles of judicious antimicrobial selection, dose, and duration to optimize patient outcomes, prevent resistance, and decrease cost
- Describe evidence-based treatments as well as new treatment paradigms for resistant or difficult-to-treat infectious diseases
- Recognize the role of novel, rapid diagnostics in infectious disease practice
- Analyze key areas of recent clinical and basic science relevant to clinical care

Harvard Medical School Faculty

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

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 and Chief, Division of Infectious Diseases, San Francisco General Hospital

Jane E. Koehler, MA, MD
Professor of Medicine, Division of Infectious Diseases, University of California at San Francisco

Allan R. Tunkel, MD, PhD, MACP
Senior Associate Dean for Medical Education and Professor of Medicine and Medical Science, Warren Alpert Medical School of Brown University

Course Director

Nesli Basgoz, MD
MGH Master Clinician Endowed Chair in Infectious Diseases and 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; MGH Clinical Research Site Leader in the AIDS Clinical Trials Group; Director of the Harvard University Center for AIDS Research Clinical Core; Professor, Harvard Medical School

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

Overview
Course Highlights

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
- Rapid detection and empiric treatment of the life-threatening infectious diseases
- Inpatient or outpatient treatment, and the outpatient antibiotic transition: IV or oral?
- Optimizing empiric antimicrobial therapy: what to start, when to narrow or stop

Our talks and workshops incorporate safety, quality, and practice improvement in infectious diseases, including:
- Antimicrobial stewardship workshop (optional) to prevent resistance and reduce cost
- Infection control, including biothreats
- Early inpatient ID consultations to reduce mortality, length of stay, and cost
- Strategies for management of infection in persons with substance use disorder
- Curbside consultation and e-consultation

Treating Highly Resistant Infections, including:
- MRSA, vancomycin-intermediate *Staph aureus* (VISA), and borderline oxacillin-resistant *Staph aureus* (BORSA)
- 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)
- Resistant and difficult-to-treat fungal infections

Common Infectious Diseases: Updates in Prevention, Diagnosis, and Treatment
Recent advances and guidelines in:
- Infections in the growing populations of 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
- 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:
- EEE, 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 abscessus*
- *Candida auris* infection
- Global infectious diseases of clinical importance
- Zoonoses—the old and the new

Register at ID.HMSCME.com
Monday, April 27

11:30am - 7:00pm  Registration

NEW | Optional Pre-Courses

Advanced Cases in Resistant and Difficult-to-Treat Infections
1:00pm – 3:15pm

Strategies, Best Practices, and Skills Development to Optimize:
- Treatment approaches to selected multidrug-resistant infections including:
  - Bacteria
  - Fungi
  - Nontuberculous mycobacteria (Mycobacterium abscessus)
- Diagnosis
- Susceptibility testing: Strengths and limitations
- Applications of current and novel diagnostic tests
- Pharmacologic aspects of care:
  - Advances in antimicrobial therapy
  - Novel strategies for antimicrobial dosing and delivery
  - Adjuncts to traditional antimicrobials

Antimicrobial Stewardship Programs (ASP): Updated Principles and Practice with Instructive Cases
3:30pm – 5:30pm

Strategies and best practices to:
- Build the necessary infrastructure and implement an effective ASP
- Comply with the CDC’s seven core elements for hospital ASPs
- Integrate the microbiology lab (including rapid diagnostics) and pharmacy
- Lower antimicrobial costs
- Decrease the incidence of resistant bacterial and candidal infections
- Ensure optimal antimicrobial dosing, administration, and monitoring
- Utilize national benchmarking data to judge program outcomes and success
- Measure the impact and improve the outcomes of stewardship interventions

Tuesday, April 28

6:00am - 7:30am  Continental Breakfast
6:30am - 7:45am  Registration
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

State-of-the-Art Approaches to Infection Control
Erica S. Shenoy, MD, PhD

Q & A Session

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

Q & A Session

Coffee Break (Refreshments provided)

Afternoon Session • 1:50pm - 5:00pm
Moderator: Dr. Nesli Basgoz

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

Q & A Session

Clinical Advances from the Microbiology Laboratory
Sarah E. Turbett, MD

Q & A Session

Coffee Break (Refreshments provided)

Challenging Cases from the ID Images Website and from Course Participants
Nesli Basgoz, MD, Rajesh T. Gandhi, MD, Sandra B. Nelson, MD, and Rochelle P. Walensky, MD, MPH

Q & A Session

Strategies, Best Practices, and Skills Development to Optimize:
- Treatment approaches to selected multidrug-resistant infections including:
  - Bacteria
  - Fungi
  - Nontuberculous mycobacteria (Mycobacterium abscessus)
- Diagnosis
- Susceptibility testing: Strengths and limitations
- Applications of current and novel diagnostic tests
- Pharmacologic aspects of care:
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- Build the necessary infrastructure and implement an effective ASP
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- Ensure optimal antimicrobial dosing, administration, and monitoring
- Utilize national benchmarking data to judge program outcomes and success
- Measure the impact and improve the outcomes of stewardship interventions

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.

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.
**Wednesday, April 29**

6:00am - 7:30am **Continental Breakfast**

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 • 8:10am - 12:05pm**  
Moderator: Dr. Sandra B. Nelson

- **Skin and Soft Tissue Infections: Optimized Diagnostic and Treatment Approaches**  
  Sandra B. Nelson, MD

- **Eye and ENT Infections: What You Need to Know in 2020**  
  Miriam B. Barshak, MD

- **Coffee Break (Refreshments provided)**

- **Optimizing Treatment for Common and Complicated Urinary Tract Infections**  
  Sigal Yawetz, MD

- **Curbside Consults and E-Consults**  
  Paul E. Sax, MD

- **Coffee Break (Refreshments provided)**

**Afternoon Session • 1:20pm - 5:15pm**  
Moderator: Dr. Rajesh T. Gandhi

- **Infections in Persons with Substance Use Disorder: New Horizons and Emerging Approaches**  
  Jennifer A. Johnson, MD

- **Endocarditis: Updates and Controversies**  
  Molly L. Paras, MD

- **Coffee Break (Refreshments provided)**

- **Advances in Treating Hepatitis C Monoinfection**  
  Arthur Y. Kim, MD

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

**6:00pm - 8:00pm Reception**

**Thursday, April 30**

6:00am - 7:30am **Continental Breakfast**

**Morning Session • 7:00am - 12:05pm**  
Moderator: Dr. Rajesh T. Gandhi

- **Conference on Retroviruses and Opportunistic Infections (CROI): 2020 Updates**  
  Rajesh T. Gandhi, MD, Virginia A. Triant, MD, MPH, Kevin L. Ard, MD, MPH, and Nesli Basgoz, MD

- **HIV Management in 2020**  
  Rajesh T. Gandhi, MD

- **Coffee Break (Refreshments provided)**

- **Understanding and Addressing the Continuing Challenges in HIV-Associated Opportunistic Infections**  
  Nesli Basgoz, MD

- **Live: New England Journal of Medicine Clinicopathologic Conference (CPC)**  
  Eric S. Rosenberg, MD

**Afternoon Session • 1:20pm - 5:15pm**  
Moderator: Dr. Nesli Basgoz

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

- **Infections in Hematologic Malignancies and Stem Cell Transplantation**  
  Sarah P. Hammond, MD

- **Coffee Break (Refreshments provided)**

- **Infections Related to Solid Organ Transplant and Non-Oncologic Immunomodulatory Therapy**  
  Camille Nelson Kotton, MD

- **Flummoxing Cases in Fungal Diseases**  
  Michael K. Mansour, MD, PhD

**6:00pm - 8:00pm Reception**
## Agenda

### Friday, May 1

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>6:00am - 7:30am</td>
<td>Continental Breakfast</td>
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</table>
| 7:00am - 11:05am   | **Morning Session**  
                      | Moderator: Dr. Sandra B. Nelson                                      |
|                    | Challenging Cases in Highly Resistant Bacterial Infections          |
|                    | Alyssa R. Letourneau, MD, MPH and Ramy H. Elshabourey, PharmD, BCPS-AQ ID |
|                    | Q & A Session                                                       |
|                    | Native Bone and Joint Infections: Age-Old Problems and New Challenges |
|                    | Sandra B. Nelson, MD                                                |
|                    | Q & A Session                                                       |
|                    | Tropical Medicine: 2020 Review and Update                          |
|                    | Edward T. Ryan, MD                                                 |
|                    | Q & A Session                                                       |
|                    | Coffee Break (Refreshments provided)                               |
|                    | Cases in Global Infectious Diseases                                |
|                    | Edward T. Ryan, MD                                                 |
|                    | Q & A Session                                                       |
|                    | Orthopedic Device Infections                                       |
|                    | Sandra B. Nelson, MD                                               |
| 11:05am - 12:00pm  | Break for lunch*                                                   |
|                    | **Afternoon Session**  
                      | Moderator: Dr. Nesli Basgoz                                         |
|                    | Tuberculosis Update                                                |
|                    | Rocío M. Hurtado, MD, DTM&H                                        |
|                    | Q & A Session                                                       |
|                    | Bronchiectasis and Pneumonia: Integrating Clinical, Radiographic, and Microbiologic Features |
|                    | Nesli Basgoz, MD                                                   |
|                    | Q & A Session                                                       |
|                    | Nontuberculous Mycobacteria                                         |
|                    | Nesli Basgoz, MD                                                   |
|                    | Q & A Session                                                       |
|                    | Coffee Break (Refreshments provided)                               |
|                    | Infections in Pregnancy (including Zika): Updates for Diagnosis and Treatment |
|                    | Andrea Ciarnello, MD, MPH                                          |
|                    | Q & A Session                                                       |
|                    | State-of-the-Art Diagnosis and Management of Sexually Transmitted Infections |
|                    | Donna Felsenstein, MD                                              |
|                    | Q & A Session                                                       |

### Saturday, May 2

<table>
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</table>
| 7:00am - 11:55am   | **Morning Session**  
                      | Moderator: Dr. Rajesh T. Gandhi                                      |
|                    | New and Emerging Viruses                                             |
|                    | Martin S. Hirsch, MD                                                |
|                    | Q & A Session                                                       |
|                    | Tick Talk I: Lyme Disease                                           |
|                    | Kimon C. Zachary, MD                                                |
|                    | Q & A Session                                                       |
|                    | Coffee Break (Refreshments provided)                                |
|                    | Tick Talk II: Ehrlichia, Anaplasma, Babesia, Rickettsia, and Other Tick-Borne Infections |
|                    | Kimon C. Zachary, MD                                                |
|                    | Q & A Session                                                       |
|                    | Zoonoses: Updates in Important and Evolving Human Pathogens          |
|                    | Jane E. Koehler, MD                                                 |
|                    | Q & A Session                                                       |
|                    | Vaccines: Science and Trust                                         |
|                    | Regina C. LaRocque, MD, MPH                                         |
|                    | 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.*

### 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 41.25 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.
Infectious Diseases in Adults 2020
April 28–May 2
BOSTON, MA

Updates, Best Practices, and New Guidelines for PHYSICIANS, NPs, PAs 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

Course Director
Nesli Basgoz, MD

NEW
Optional pre-course workshops

WORKSHOPS
Resistant and Difficult-to-Treat Infections
Antimicrobial Stewardship

Earn up to:
41.25 AMA PRA Category 1 Credits™
41.25 ABIM MOC Points
7.25 credits of Risk Management Study

Register at ID.HMSCME.com
Infectious Diseases in Adults 2020
(Course #732580-2002)

<table>
<thead>
<tr>
<th>Tuition</th>
<th>After March 31, 2020</th>
<th>On or before March 31, 2020</th>
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</thead>
<tbody>
<tr>
<td>Physicians</td>
<td>$1,545</td>
<td>$1,445 (Save $100)</td>
</tr>
<tr>
<td>Allied Health Professionals</td>
<td>$1,445</td>
<td>$1,345 (Save $100)</td>
</tr>
<tr>
<td>Residents and Fellows</td>
<td>$995</td>
<td>$945 (Save $50)</td>
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**OPTIONAL PRE-COURSE WORKSHOPS**

- **Advanced Cases in Resistant and Difficult-to-Treat Infections**
  - Monday, April 27, 1:00 pm – 3:15 pm
  - (limited to 36 participants)
  - $200 for one pre-course workshop

- **Antimicrobial Stewardship Programs (ASP): Updated Principles and Practice with Instructive Cases**
  - Monday, April 27, 3:30 pm – 5:30 pm
  - (limited to 36 participants)
  - $350 for both workshops (SAVE $50)

Your course tuition includes:
- Continental breakfast and morning and afternoon refreshments
- A special reception on Wednesday 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 for an additional $65 (syllabus must be ordered in advance, at the time you register to attend the course).

**IMPORTANT TO NOTE:** The printed syllabus will not be available for sale on site. If you would like a printed copy of the syllabus, you must purchase it in advance when you register online to attend the course.

**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. **Please do not make non-refundable travel arrangements until you have received an email 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.

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

**Accommodations**
Fairmont Copley Plaza 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 April 2, 2020, or until the block sells out, which usually occurs well in advance of this date.

To reserve your room:
- **Online:** To reserve your room online, please visit the Venue page of the course website—ID.HMSCME.com/Venue—and click on the dedicated reservation link.
- **By phone:** If you are calling the hotel rather than using the dedicated online link, please call 1-800-441-1414 and specify that you are enrolled in Infectious Diseases in Adults.

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