Infectious Diseases in Adults

April 24–28, 2017

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

Prevention
- State-of-the-art approaches to common infectious diseases
- Guidance for treating highly resistant bacterial infections
- Clinical approaches to complex, rare, “don’t-miss” infectious diseases
- Zika updates: what you need to know now

Detection
- Care of HIV-infected and other immunocompromised patients

Diagnosis
- Prevention and detection of infections in travelers and immigrants

Treatment
- Strategies for optimal decision making in prevention, diagnosis and treatment
- Systems-based safety and practice improvement

Practical, focused education that ensures attendees are current with the updates and clinical best practices that are now producing the best patient outcomes

Now offering ABIM MOC Points

Register at ID.HMSCME.com
Harvard Medical School Faculty

Nesli Basgoz, MD
**Course Director**
Associate Chief and Clinical Director, Division of Infectious Diseases, Massachusetts General Hospital; Associate Professor, Harvard Medical School

Stephen B. Calderwood, MD
**Co-Course Director**
Morton N. Swartz, MD Academy Professor of Medicine (Microbiology and Immunobiology), Harvard Medical School; Physician and Chief, Division of Infectious Diseases, Massachusetts General Hospital

Rajesh T. Gandhi, MD
**Co-Course Director**
Director of HIV Clinical Services and Education, Division of Infectious Diseases, Massachusetts General Hospital (MGH); Associate 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

Kevin L. Ard, MD, MPH
Miriam B. Barshak, MD
Andrea Ciaranello, MD
Benjamin T. Davis, MD
Donna Felsenstein, MD
Jeffrey A. Gelfand, MD
Sarah Hammond, MD
Howard M. Heller, MD, MPH
Martin S. Hirsch, MD
Elizabeth Hohmann, MD
David C. Hooper, MD
Rocio Hurtado, MD, DTM&H
Arthur Kim, MD
Camille Nelson Kotton, MD
Alyssa R. Letourneau, MD, MPH
Michael Mansour, MD, PhD
Eric S. Rosenberg, MD
Edward T. Ryan, MD
Paul E. Sax, MD
Erica S. Shenoy, MD, PhD
Sigal Yawetz, MD

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, including:
- Antibiotic-resistant infections
- Zika and other emerging infections
- Infections in immunocompromised hosts
- Skin and soft tissue infections
- Bone, joint, and orthopedic device infections
- Sexually transmitted diseases, endocarditis, vaccination

The course provides education that ensures attendees are current with recent developments in the prevention and management of infections, including the newer antibiotics and vaccines, antiviral and antiparasitic agents, new diagnostic techniques, and recommendations for prophylaxis in travelers.

Learning Objectives
Upon completion of this course, participants will be able to:
- Improve 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 clinical practice
- Analyze relevant areas of basic science to enable both the comprehension and the application of future discoveries to patient care

Guest Faculty

Angela M. Caliendo, MD, PhD
Professor of Medicine and Executive Vice Chair, Department of Medicine, Warren Alpert Medical School of Brown University

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

Vincent J. Quagliarello, MD
Professor of Medicine and Clinical Chief, Infectious Diseases Section, Yale University School of Medicine

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

Register at ID.HMSCME.com
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
Updates to keep you current on new strategies, state-of-the-art practices, and the most recent guidelines to address:
- Skin and soft tissue infections
- Endocarditis, urinary tract infections, C. difficile colitis, and tuberculosis
- Bone and joint and orthopedic device infections
- Sexually transmitted infections, including new guidelines
- Infections in immunocompromised hosts
- Infections in pregnancy, including Zika
- Ear, nose and throat (ENT) and eye infections
- Pneumonia
- Lyme and other tick-borne diseases
- HIV infection and its infectious and noninfectious complications
- PEP (Post-Exposure Prophylaxis) and PrEP (Pre-Exposure Prophylaxis) to prevent HIV infection
- Vaccinations
- Hepatitis C

Challenging, Rare, and Emerging Infectious Diseases
Comprehensive updates on:
- Zika, Ebola, 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

Safety, Quality, and Practice Improvement
Special sessions on safety, quality, and value added by ID specialists
- Antimicrobial stewardship
- Infection control
- Early inpatient ID consultations to reduce mortality, length of stay, and costs
- Outpatient Parenteral Antibiotic Therapy (OPAT): best practices in program design and operation
- ID for hospital medicine practitioners
- M. chimaera heater-cooler outbreak update

Register at ID.HMSCMEm.com

Now offering ABIM MOC Points

Clinical Decision Making
Hear directly from world-renowned specialists and master clinicians on their approach and decision-making criteria for:
- Antimicrobial usage
- Selecting and utilizing newer diagnostic tests for infectious diseases
- Diagnosing the low-probability but high-impact infections
- Early detection of life-threatening infections
- Determining when to hospitalize vs. treat as an outpatient
- Rational empiric antimicrobial therapy of serious infections: when and how to start, and when to narrow or stop
- Is it viral or bacterial? Key factors to consider
<table>
<thead>
<tr>
<th><strong>Thursday, April 23</strong></th>
<th><strong>Friday, April 24</strong></th>
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<tbody>
<tr>
<td>7:00 pm – 9:00 pm</td>
<td>Registration</td>
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<tr>
<td>Pre-registration</td>
<td>(continental breakfast served)</td>
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<tr>
<td>9:00 am – 11:00 am</td>
<td>Session 1 • 9:00 am – 11:00 am</td>
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<tr>
<td>Review of Major Antimicrobial Classes and Empiric Therapy: 2017</td>
<td>Alyssa R. Letourneau, MD, MPH</td>
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<td>Q &amp; A Session</td>
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<td>Update on New Antibiotics for Resistant Gram Positive Infections</td>
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<td>Coffee Break</td>
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<tr>
<td>New Approaches to Infection Control and Antimicrobial Stewardship</td>
<td>Erica S. Shenoy, MD, PhD</td>
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<td>Q &amp; A Session</td>
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<tr>
<td>12:00 pm – 1:00 pm</td>
<td>Lunch Break</td>
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<th><strong>Saturday, April 25</strong></th>
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<tr>
<td>6:45 am - 8:30 am</td>
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<tr>
<td>7:00 am - 7:50 am</td>
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<tr>
<td>ID Updates for the Hospital Medicine Specialist</td>
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<td>OPAT for ID Specialists</td>
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### Session 3 • 8:00 am – 12:15 pm
Moderator: Dr. Sandra B. Nelson

- **Skin and Soft Tissue Infections: Diagnostic and Treatment Approaches**
  Sandra B. Nelson, MD
- **Q & A Session**

### Session 4 • 1:30 pm – 5:30 pm
Moderator: Dr. Rajesh T. Gandhi

- **Encephalitis and Healthcare-Associated CNS Infections: Guidelines and Best Practices**
  Allan R. Tunkel, MD, PhD, MACP
- **Q & A Session**
- **Updates in Endocarditis including New Guidelines**
  Stephen B. Calderwood, MD
- **Q & A Session**

**DISCLOSURE POLICY:** Harvard Medical School (HMS) adheres to all ACCME Essential Areas, Standards, and Policies. It is HMS’s policy that those who have influenced the content of a CME activity (e.g., planners, faculty, 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 unapproved or investigational uses of products during their presentations.
Wednesday, April 26

6:45 am - 8:30 am  Continental breakfast served

7:00 am - 8:00 am  Breakfast Breakout: ID Cases Submitted by Course Participants  
Nesli Basgoz, MD; Stephen B. Calderwood, MD; Rajesh T. Gandhi, MD; and Sandra B. Nelson, MD

**Session 5 • 8:00 am – 12:30 pm**
Moderator: Dr. Rajesh T. Gandhi

- Challenges in Acute HIV Infection and HIV Testing  Eric S. Rosenberg, MD
- HIV Management 2017: Initial Approach and Treatment  Rajesh T. Gandhi, MD
- Recent Advances in HIV and What’s on the Horizon  Rajesh T. Gandhi, MD
- Coffee Break (refreshments provided)
- Immunocompromised Host and Infections in Hematologic Malignancies  Sarah Hammond, MD
- Update on Antifungal Diagnostics and Therapy  Michael Mansour, MD, PhD
- Coffee Break (refreshments provided)

12:30 pm - 1:45 pm Lunch Break

**Session 6 • 1:45 - 5:30 pm**
Concurrent Specialty Sessions

**Session 6A: HIV**
Moderator: Dr. Rajesh T. Gandhi

- Continuing Challenges in HIV-Associated Opportunistic Infections  Nesli Basgoz, MD
- Coffee Break (refreshments provided)
- Advances in the Prevention and Treatment of HPV Disease  Benjamin T. Davis, MD
- Rapidly Evolving Landscape of HIV/HCV Coinfection  Arthur Kim, MD
- Our Most Difficult HIV Cases and What We Learned from Them — Panel Discussion  
Moderated by Rajesh T. Gandhi, MD
- Q & A Session

**Session 6B: Non-HIV Immunocompromised Host**
Moderator: Dr. Sandra B. Nelson

- Infections in Patients Undergoing Stem Cell Transplantation  Sarah Hammond, MD
- Coffee Break (refreshments provided)
- Infections in Solid Organ Transplant Recipients  Camille Nelson Kotton, MD
- Coffee Break (refreshments provided)
- Infections in Patients on Immunomodulatory Therapy  Camille Nelson Kotton, MD
- Our Most Difficult Fungal Infection Cases and What We Learned from Them — Panel Discussion  
Moderated by Michael Mansour, MD, PhD
- Q & A Session

5:30 pm - 7:15 pm  Networking Reception  
Join us for refreshments and to meet your faculty and colleagues
### Agenda

**Thursday, April 27**

<table>
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<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>6:45 am - 8:30 am</td>
<td>Continental breakfast served</td>
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<tr>
<td>7:00 am - 8:00 am</td>
<td>Breakfast Breakout: Cases in Highly Resistant Bacterial Infections — Panel Discussion Moderated by Alyssa R. Letourneau, MD, MPH</td>
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<tr>
<td>Q &amp; A Session</td>
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**Session 7 • 8:00 am – 12:05 pm**

Moderator: Dr. Nesli Basgoz

- **ID Images: An Interactive Case-Based Discussion** Rajesh T. Gandhi, MD
- **Q & A Session**
- **Tropical Medicine and Parasitology** Edward T. Ryan, MD
- **Q & A Session**
- **Immunizations and Travel Medicine in 2017** Edward T. Ryan, MD
- **Q & A Session**
- **Coffee Break (refreshments provided)**
- **Native Bone and Joint Infections: Age-Old Problems and New Challenges** Sandra B. Nelson, MD
- **Q & A Session**
- **Orthopedic Device Infections** Sandra B. Nelson, MD
- **Q & A Session**

12:05 pm - 1:20 pm

**Lunch Break**

**Session 8 • 1:20 pm – 5:15 pm**

Moderator: Dr. Sandra B. Nelson

- **Tuberculosis Update** Rocío Hurtado, MD, DTM&H
- **Q & A Session**
- **Nontuberculous Mycobacteria and Bronchiectasis** Nesli Basgoz, MD
- **Q & A Session**
- **Coffee Break (refreshments provided)**
- **Babesia, Ehrlichia, and Rickettsia** Jeffrey A. Gelfand, MD
- **Q & A Session**
- **Lyme and Other Tick-Borne Illnesses: What You Need to Know** Howard M. Heller, MD, MPH
- **Q & A Session**

**Friday, April 28**

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<th>Time</th>
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<tr>
<td>6:45 am - 8:00 am</td>
<td>Continental breakfast served</td>
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**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 (including Zika)** Martin S. Hirsch, MD
- **Q & A Session**
- **Urinary Tract Infections: The Common and the Complicated** Sigal Yawetz, MD
- **Q & A Session**
- **Coffee Break (refreshments provided)**
- **Zoonoses** Jane E. Koehler, MA, MD
- **Q & A Session**
- **Update on Molecular Diagnostics for Infectious Diseases** Angela M. Caliendo, MD, PhD
- **Q & A Session**

12:40 pm Adjourn

### Venue

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

### Accommodations

A limited number of rooms have been reserved at Fairmont Copley Plaza until March 28, 2017. When calling the hotel, be sure to specify that you are enrolled in this activity to receive a reduced room rate. Hotel arrangements can also be made online before March 28 by going to the course website and clicking on the dedicated reservation link on the Venue page.

Please do not make non-refundable travel arrangements until you have received an email from the HMS DCE office confirming your paid registration.
Earn up to:

36.75 AMA PRA Category 1 Credits™

36.75 ABIM MOC Points (NEW)

36.75 Prescribed credits from the AAFP

5 Credits Risk Management Study

Infectious Diseases in Adults

2017

April 24–28

BOSTON, MA

Updates, Best Practices, and Recent Guidelines for:

ID specialists
Hospitalists
Internists
Family Physicians
Pharmacists
Pathologists
Pulmonologists
Critical Care clinicians
Emergency Medicine clinicians
Nurse Practitioners
Physician Assistants

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

Register at ID.HMSCME.com

This course is also recommended for ID specialists who are preparing to certify or recertify
Infectious Diseases in Adults 2017
(Course #732580-1702)

<table>
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<tr>
<th>Course Tuition</th>
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<tr>
<td>After March 15, 2017</td>
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<tr>
<td>Physicians</td>
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<tr>
<td>Allied Health Professionals</td>
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<td>Residents and Fellows</td>
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Course tuition includes continental breakfast, morning and afternoon refreshments, the course syllabus on a flash drive, complimentary Internet in the course rooms, 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. (The price on site will be $75.)

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 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, 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 DCE 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 EST. Send e-mail to CEPrograms@hms.harvard.edu.

MOC STATEMENT
Successful completion of this CME activity enables the participant to earn up to 36.75 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.

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

AMERICAN ACADEMY OF FAMILY PHYSICIANS
This Live activity, Infectious Diseases in Adults, with a beginning date of 04/24/2017, has been reviewed and is acceptable for up to 36.75 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 5.00 credits of Risk Management Study. Please check your individual state licensing board requirements before claiming these credits.

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.

ABMS/ACGME COMPETENCIES
This course is designed to meet one or more of the following American Board of Medical Specialties and Accreditation Council of Graduate Medical Education competencies: patient care and procedural skills, medical knowledge, and interpersonal and communication skills.

IOM COMPETENCIES
This course is designed to meet one or more of the following Institute of Medicine competencies: provide patient-centered care, work in interdisciplinary teams, employ evidence-based practice, and apply quality improvement.

Register at ID.HMSCME.com