2010 Annual Conference on Antimicrobial Resistance

SCIENCE • PREVENTION • CONTROL

February 1-3, 2010 • Hyatt Regency Bethesda • Bethesda, MD

Sponsored by:

National Foundation for Infectious Diseases

In Collaboration with:

American Academy of Pediatrics
Association for Professionals in Infection Control and Epidemiology, Inc
Alliance for the Prudent Use of Antibiotics
American Veterinary Medical Association
Centers for Disease Control and Prevention
Environmental Protection Agency
Center for Drug Evaluation and Research Food and Drug Administration
Infectious Diseases Society of America
National Institute of Allergy and Infectious Diseases
Society for Healthcare Epidemiology of America
Society of Infectious Diseases Pharmacists
United States Department of Agriculture

Call for Abstracts and Conference Announcement
Conference Overview

Target Audience

- Healthcare professionals and researchers in academia, government, and industry interested in antimicrobial resistance
- Microbiologists
- Nurses
- Pharmacists
- Pharmacologists
- Pharmaco-epidemiologists
- Public health officials
- Infectious diseases physicians
- Agricultural scientists
- Hospital pathologists
- Hospital epidemiologists and infection control practitioners
- Veterinarians
- Physician assistants
- Others with an interest in antimicrobial resistance

Conference Objectives

At the conclusion of this conference, participants should be able to:

- Discuss the science, prevention and control of antimicrobial resistance
- Define issues and potential solutions to the problem of antimicrobial resistance

Continuing Education

Continuing Education for Physicians

The National Foundation for Infectious Diseases (NFID) is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide Continuing Medical Education (CME) for physicians. NFID takes responsibility for the content, quality, and scientific integrity of this CME activity.

NFID designates this CME activity for a maximum of 17 AMA PRA Category 1 Credits™. Physicians should only claim credit commensurate with the extent of their participation in the educational activity.

Continuing Education for Nurses

This 17 contact hour Education Activity is provided by the National Foundation for Infectious Diseases (NFID). NFID is an approved provider of continuing nursing education by the Maryland Nurses Association, an accredited approver by the American Nurses Credentialing Center’s Commission on Accreditation.

To earn contact hours, each nurse participant must attend the entire program, sign in each day, and complete the Continuing Education Credit and Evaluation Form.

Disclosure

As a sponsor accredited by the Accreditation Council for Continuing Medical Education (ACCME) the National Foundation for Infectious Diseases must ensure balance, independence, objectivity, and scientific rigor in all its educational activities. All individuals in a position to influence the content of the activity have disclosed: (1) any relevant financial interest or other relationship with the manufacturer(s) of any commercial product(s) and/or provider(s) of commercial services discussed in an educational presentation and/or with any commercial supporters of the activity; (2) any intention to discuss off-label uses of regulated substances or devices. Disclosure information is reviewed in advance to manage and resolve any real or perceived conflict of interest that may affect the balance and scientific integrity of an educational presentation.

Meet the Experts Breakfast Sessions

Meet the Expert Breakfast Sessions are in a small group format focusing on the interaction between faculty members and attendees. The format is conducive to informal interaction led by introductory remarks from the leader followed by questions and answers from the participants. The session is open to all attendees; however, seating capacity is limited and on a first-come, first-served basis. Please be sure to take advantage of this networking opportunity to meet with faculty for a thoughtful exchange of ideas among peers, mentors, and colleagues.

Acknowledgments

Multiple funding sources are currently being solicited to provide unrestricted educational grants in support of this conference. Supporters will be listed in the conference final program.
NFID recognizes the following individuals for their support and contributions in planning this event.

LISA BECTON, DVM  
Conference Organizing and Scientific Program Committees  
American Veterinary Association  
Harris, MO

TAJAH L. BLACKBURN, PHD  
Conference Organizing and Scientific Program Committees  
Environmental Protection Agency  
Washington, DC

JOHN BRADLEY, MD  
Conference Organizing and Scientific Program Committees  
Children's Hospital, San Diego  
San Diego, CA

MITCHELL L. COHEN, MD  
Conference Organizing and Scientific Program Committees  
Centers for Disease Control and Prevention  
Atlanta, GA

STUART H. COHEN, MD  
Conference Organizing and Scientific Program Committees  
University of California, Davis Medical Center  
Sacramento, CA

KATHRYN M. EDWARDS, MD  
NFID CME Committee  
Vanderbilt University Medical Center  
Nashville, TN

GEORGE M. ELIOPOULOS, MD  
Scientific Program Committee  
Beth Israel Deaconess Medical Center  
Boston, MA

PAULA J. FEDORKA-CRAY, PHD  
Scientific Program Committee  
U.S. Department of Agriculture  
Athens, GA

THOMAS M. FILE, JR., MD  
NFID CME Committee  
Summa Health System  
Akron, OH

JOHN F. FISHER, MD  
NFID CME Committee  
Medical College of Georgia  
Augusta, GA

NEIL FISHMAN, MD  
Conference Organizing Committee  
University of Pennsylvania School of Medicine  
Philadelphia, PA

GAYLE K. GILMORE, RN, MA, MIS, CIC  
Conference Organizing and Scientific Program Committees  
Association for Professionals in Infection Control and Epidemiology  
Duluth, MN

DEBRA A. GOFF, PHARMD  
NFID CME Committee  
The Ohio State University Medical Center  
Columbus, OH

GEORGE C. HILL, PHD  
NFID CME Committee  
Vanderbilt University School of Medicine  
Nashville, TN

MARGUERITE JACKSON, PHD, RN, FAAN  
NFID CME Committee  
National Tuberculosis Curriculum Consortium  
University of California San Diego School of Medicine  
San Diego, CA

STUART B. LEVY, MD  
Conference Organizing Committee  
Alliance for the Prudent Use of Antibiotics  
Boston, MA

SASHA MADISON, MPH, CIC  
NFID CME Committee  
Stanford Hospital and Clinics  
Stanford, CA

DONNA MAZYCK, RN, MS  
NFID CME Committee  
Maryland State Department of Education  
Baltimore, MD

SALLY MILLER, BSN, MS, PHD  
NFID CME Committee  
University of Las Vegas School of Nursing  
Las Vegas, NV

GEORGE A. PANKEY, MD  
NFID CME Committee and Scientific Program Committee  
Ochsner Clinic Foundation

GEORGES PETER, MD  
NFID CME Committee  
Warren Alpert Medical School of Brown University  
Providence, RI

JOHN H. POWERS, III, MD  
Scientific Program Committee  
George Washington University School of Medicine  
Washington, DC

SUSAN J. REHM, MD  
NFID CME Committee, Conference Co-Chair, Conference Organizing and Scientific Program Committees  
National Foundation for Infectious Diseases  
Bethesda, MD

MARY SINGER, MD  
Conference Organizing and Scientific Program Committees  
U.S. Food and Drug Administration  
Silver Spring, MD

VINCENT H. TAM, PHARMD  
Conference Organizing and Scientific Program Committees  
University of Houston College of Pharmacy  
Houston, TX

ALAN D. TICE, MD  
NFID CME Committee  
John A. Burns School of Medicine  
University of Hawaii  
Honolulu, HI

MARY TORRENCE, DVM, PHD  
Conference Organizing and Scientific Program Committees  
U.S. Department of Agriculture  
Washington, DC

J. TODD WEBER, MD  
Conference Co-Chair and Scientific Program Committee  
European Centre for Disease Prevention and Control (ECDC)  
Stockholm, Sweden

NFID Staff  
Bethesda, MD

SHARON COOPER-KERR  
Director, Events Planning

LAUREN ERO  
Director, Continuing Medical Education

CHARLOTTE LAZRUS  
Executive Assistant

ERIC LUND  
Education Coordinator

LEN NOVICK  
Executive Director
Preliminary Program

Sunday, January 31, 2010

6:00 pm-8:00 pm Registration

Monday, February 1, 2010

7:30 am-4:45 pm Registration
7:30 am Poster Set-Up
7:30 am Continental Breakfast
8:15 am Welcome and Introductions
Susan J. Rehm, MD
National Foundation for Infectious Diseases
Bethesda, MD

Keynote Address
8:30 am The Globalization of Antimicrobial Resistance
David L. Heymann, MD
Health Protection Agency
London, United Kingdom

9:15 am Questions and Answers
9:30 am Coffee Break

Symposium 1. The Economic and Public Policy Aspects of Antibiotic Resistance and Antibiotic Development
9:45 am Economic Consequences of Antibiotic Resistance
Susan Foster, PhD
Alliance for the Prudent Use of Antibiotics
Boston, MA

10:15 am Economics of Antibiotic Development
Ramanan Laxminarayan, PhD, MPH
Resources for the Future
Washington, D.C.

10:45 am Pros and Cons of Incentives for Antimicrobial Development
John H. Powers, MD, FACP, FIDSA
George Washington University School of Medicine
Washington, D.C.

11:15 am Panel Questions and Answers
11:45 am Lunch (on your own)

Symposium 2. Susceptibility Issues
1:00 pm What’s “Hot” in Antimicrobial Resistance and the Challenges in Resource-Limited Settings
Ronald N. Jones, MD
JMI Laboratories
North Liberty, IA

1:30 pm Towards Improved Susceptibility Tests: Getting the Right Answer
Michael N. Dudley, PharmD, FIDSA
Mpex Pharmaceuticals, Inc.
San Diego CA

2:00 pm Paper or Plastic? Bringing Resistance Home
David G. White, PhD
U.S. Food and Drug Administration
Laurel, MD

2:30 pm Panel Questions and Answers
3:00 pm Coffee Break

Symposium 3. Implications of Rapid Diagnostic Testing
3:15 pm Rapid Diagnostics in Veterinary Medicine: Challenges and Benefits
Ian Gardner, MPVM, BVSc, PhD
University of California
Davis, CA

3:45 pm Clinical and Public Health Implications of Rapid Diagnostic Testing for Influenza
Daniel B. Jernigan, MD, MPH
Centers for Disease Control and Prevention
Atlanta, GA

4:15 pm Panel Discussion: The Interface between Human and Veterinary Medicine
Ian Gardner, MPVM, BVSc, PhD and Daniel B. Jernigan,
MD, MPH

4:45 pm Poster Session and Reception
Preliminary Program

Tuesday, February 2, 2010

7:00 am-4:45 pm Registration
7:15 am-7:45 am Meet the Experts Breakfast Session
7:30 am Continental Breakfast

Symposium 4. Antiviral Drug Resistance

8:00 am The European Surveillance Network for Vigilance Against Viral Resistance (ViRgil) and Hepatitis Drug Resistance in the European Union
Fabien Zoulim, MD, PhD
INSERM (Institut National de la Santé et de la Recherche Médicale)
Lyon, France

8:30 am Antiviral Resistance in Influenza: Mechanisms, Detection, and Global Epidemiology
Larisa V. Gubareva, MD, PhD
Centers for Disease Control & Prevention
Atlanta, GA

9:00 am Influenza Resistance to Antiviral Drugs: Public Health and Management Implications
Frederick G. Hayden, MD
University of Virginia Health Systems
Charlottesville, VA

9:30 am Panel Questions and Answers
10:00 am Coffee Break

Symposium 5. Methicillin-resistant Staphylococcus aureus (MRSA)

10:15 am MRSA in Livestock: Zoonotic Issues
Peter Davies, BVSc, PhD
University of Minnesota
St Paul, MN

10:45 am The MRSA Prevention Initiative and the VA: The Road Ahead
Usha Stiefel, MD
Louis Stokes Cleveland Veterans Affairs Medical Center
Cleveland, OH

11:15 am Diagnosis, Treatment and Prevention of MRSA Infections in Children
Sheldon L. Kaplan, MD
Baylor College of Medicine
Texas Children's Hospital
Houston, TX

11:45 am Panel Questions and Answers
12:15 pm Lunch (on your own)

Submitted Presentations
1:30 pm Submitted Presentations
2:30 pm Coffee Break

Symposium 6. Stewardship and Policy

2:45 pm Policy Issues
Neil Fishman, MD
University of Pennsylvania
Philadelphia, PA

3:15 pm Antimicrobial Stewardship in 2010: When to Act, When to Study
Robert C. Owens, Jr., PharmD
Maine Medical Center
Portland, ME

3:45 pm Antibiotic Stewardship in Veterinary Medicine
Mike Apley, DVM, PhD, DACVCP
Kansas State University
Manhattan, KS

4:15 pm Panel Questions and Answers
4:45 pm Adjournment

Wednesday, February 3, 2010

7:00 am-8:00 am Registration
7:15 am-7:45 am Meet the Experts Breakfast Session
7:30 am Continental Breakfast

Submitted Presentations
8:00 am Submitted presentations
9:30 am Coffee Break

Symposium 7. Late-breaking Issues

9:45 am-11:45 am Presentations will provide up-to-the-minute perspectives on emerging issues in antimicrobial resistance.

11:45 pm Adjournment/Participant Evaluation
12:00 pm-1:00 pm Interagency Task Force on Antimicrobial Resistance

Sponsored by the Centers for Disease Control and Prevention, U.S. Food and Drug Administration, and the National Institutes of Health

An open meeting to present the annual report of progress by Federal agencies in accomplishing activities outlined in “A Public Health Action Plan to Combat Antimicrobial Resistance (Part I: Domestic Issues)” and to solicit comments from the public regarding the annual report. The Action Plan and Annual Report are available at www.cdc.gov/drugresistance.
The registration fees are as follows:

<table>
<thead>
<tr>
<th>Registration Fee</th>
<th>On or before Dec. 18, 2009</th>
<th>After Dec. 18, 2009, and Onsite</th>
</tr>
</thead>
<tbody>
<tr>
<td>$450 Registration</td>
<td>$500 Registration</td>
<td></td>
</tr>
<tr>
<td>$405 NFID Supporting Member</td>
<td>$495 NFID Supporting Member</td>
<td></td>
</tr>
<tr>
<td>$250 Doctors in Training* **</td>
<td>$300 Doctors in Training* **</td>
<td></td>
</tr>
<tr>
<td>$250 Nurses**</td>
<td>$300 Nurses**</td>
<td></td>
</tr>
<tr>
<td>$200 Daily Registration</td>
<td>$250 Daily Registration</td>
<td></td>
</tr>
</tbody>
</table>

Registration Deadline – January 25, 2010 (registrations received after January 25 will be processed on-site)

To qualify for the reduced registration fee, a completed registration form with payment must be received at the NFID office before 5 p.m. Eastern Time on December 18, 2009.

*Includes medical students, doctoral students, residents, fellows, and physician assistants.

**To be approved for the reduced registration fee, verification of status must be provided in the form of a letter from your program director; or a copy of your license should be provided for nurses.

The registration fee includes a program/abstract book, continental breakfast on each day of the conference, coffee breaks, and reception. Accommodations and additional meals are not included.

Follow the registration instructions below according to your method of payment. Confirmations will be sent within two weeks of receipt of completed registration and proper payment. Please allow time for processing.

- **Credit Cards:** If you are paying by credit card, you may register securely online at www.nfid.org, fax your registration to 301-907-0878, or mail it to the address below. We are unable to accept telephone registrations.

- **Check or Money Order:** Checks (drawn on a U.S. bank only) and/or money orders must be in U.S. dollars, made payable to NFID, and mailed with the registration form to the address below.

Purchase orders cannot be accepted.

Send registrations to the following address:

2010 Annual Conference on Antimicrobial Resistance
National Foundation for Infectious Diseases
4733 Bethesda Avenue, Suite 750
Bethesda, MD 20814-5278
USA

For Further Information

Please contact Lauren Ero or Sharon Cooper-Kerr at the address listed above or:

Phone: 301-656-0003 x19  Fax: 301-907-0878
E-Mail: resistance@nfid.org
Visit our Website: www.nfid.org

---

**GENERAL INFORMATION**

- **Language:** The official language for the conference is English.
- **Dates and Location:** The 2010 Conference on Antimicrobial Resistance will be held February 1-3, 2010, at Hyatt Regency Bethesda* One Bethesda Metro Center Wisconsin Avenue at Old Georgetown Road Bethesda, Maryland 20814 (301) 657-1234

*This facility is fully accessible to the public in accordance with the Americans with Disabilities Act guidelines.

**Hotel Accommodations:** A limited number of guest rooms have been reserved at the Hyatt Regency Bethesda for conference participants at the rate listed below:

- **$199 single/$224 double occupancy (plus applicable taxes, currently 12%) per night.

To make a reservation, call the hotel directly at 301-657-1234 or the hotel’s toll-free reservation department at 800-233-1234, and tell the agent that you are attending the 2010 Annual Conference on Antimicrobial Resistance being held from February 1-3, 2010. Reservations should be made no later than January 10, 2010, in order to secure the conference rate. After that date, rooms are on a space- and rate-available basis only. Please note that the room block is limited, and contacting the hotel before January 10th does not guarantee that space will be available. Make your reservations as early as possible to avoid any problems.

In addition, a small block of rooms have been reserved at the prevailing 2010 per diem rate for employees of the U.S. Federal Government. Identify yourself as a U.S. Government employee when you call to make your reservation. You will be required to present proof of your government employee status upon check-in.

**TRAVEL**

- **By Plane:** Baltimore-Washington International Airport (BWI) is located approximately 40 minutes from the Hyatt Regency Bethesda. Taxi service between BWI and Bethesda is approximately $65 one-way. Super Shuttle transportation service operates 24 hours a day, 7 days a week (call 1-800-258-3826 for reservations). The cost is approximately $37 one-way.

  - Washington Ronald Reagan-National Airport (DCA) is located approximately 30 minutes from the Hyatt Regency Bethesda. Taxi service between Reagan-National Airport and Bethesda is approximately $40 one-way. Super Shuttle transportation service operates 24 hours a day, 7 days a week (call 1-800-258-3826 for reservations). The cost is approximately $28 one-way. There is also convenient access to the Metrorail subway system from the National Airport station, take a Yellow line train in the direction of Gallery Place. Change trains at Gallery Place to take a Red line train in the direction of Shady Grove/Grosvenor. Disembark at the Bethesda station. The hotel is directly above the station.

  - Dulles International Airport (IAD) is located approximately 35 minutes from the Hyatt Regency Bethesda. Taxi service between Dulles and Bethesda is approximately $65 one-way. Super Shuttle transportation service operates 24 hours a day, 7 days a week (call 1-800-258-3826 for reservations). The cost is approximately $29.

- **By Train:**
  - The Hyatt Regency Bethesda is located 25 minutes from Washington Union Station. A taxi will cost approximately $25. There is also convenient access to the Metrorail subway system. From Union Station, take a Red line train in the direction of Shady Grove/Grosvenor. Disembark at the Bethesda station. The hotel is directly above the station.

  - By Car** From Baltimore/New York: Take I-95 South to I-495 West (toward Silver Spring). Follow I-495 to Exit 33 (Connecticut Avenue). Turn left onto Connecticut Avenue heading towards Chevy Chase. Proceed south on Connecticut Avenue for approximately 1 mile. Turn right onto Route 410 (East-West Highway). Proceed on East-West Highway for 1 mile until it intersects with Route 355 (Wisconsin Avenue). Turn left onto Wisconsin Avenue. The Hyatt is immediately on the right.

  - From Virginia: Take I-95 North to I-495 North (towards Tysons Corner). Follow I-495 North to Exit 34 (Wisconsin Avenue/Bethesda). Proceed south on Route 355 (Wisconsin Avenue) for approximately 2.5 miles. The Hyatt is on the right immediately after Old Georgetown Road.

  - From Frederick/Hagerstown: Take I-70/ I-270 South towards Washington. Follow I-270 South, bear left at the split [I-495 East]. Continue on I-495 to Route 355, South exit (exit will be on the left). Proceed south on Route 355 (Wisconsin Avenue) for approximately 2.5 miles. The Hyatt is on the right immediately after Old Georgetown Road.

  - If you require more detailed directions, please contact the hotel directly at 301-657-1234.

**Parking at the Hotel**

- Parking for overnight guests is approximately $15 (self-park)/ $20 (valet). Daily parking rate is approximately $12 per day and is based upon availability. Additional hourly parking lots are located nearby. For more information call 301-657-1234.

**Recommended Dress**

- Business attire is appropriate for the sessions and reception. Reminder: Meeting room temperatures and personal comfort levels vary widely. Because meeting rooms often seem cold, please bring a sweater or jacket.

**INTERNATIONAL ATTENDEES**

If you require a letter of invitation in order to obtain a visa for entry into the United States, please let us know as soon as possible. Please indicate where the letter should be sent and how it should be sent (fax, post, etc.).
ANNUAL CONFERENCE ON ANTIMICROBIAL RESISTANCE
FEBRUARY 1-3, 2010
Hyatt Regency Bethesda, Bethesda, Maryland

(Please print clearly or type; photocopy for additional registrants.)

last name   first name   middle initial

professional title      affiliation

primary degree(s): (circle all that apply)
BA           BS         DSc        DPH        DVM      MA      MD     MPh         MS        PhD
Other :  _________________________________________________________________

primary specialty (e.g. immunology, infectious diseases, clinical research, etc)

mailing address

city    state zip+4/postal code

country

daytime telephone   fax number

e-mail address

☐ I do not wish my contact information to appear on the Conference Participant List to be distributed at the conference

SPECIAL NEEDS
Please list any special meeting needs or requirements you may have in the space below, or contact Sharon Cooper-Kerr at 301-656-0003 or resistance@nfid.org:

NFID SUPPORTING MEMBERSHIP
Become a Supporting Member of NFID and save 10% on your conference registration. Benefits also include subscriptions to NFID publications and newsletters. For more details visit www.nfid.org/membership

I would like to become a NFID Supporting Member.
☐ Enclosed is a check or money order in the amount of $95
☐ Please bill my credit card in the amount of $95

PAYMENT (PLEASE CIRCLE)

<table>
<thead>
<tr>
<th>On or before Dec. 18, 2009</th>
<th>After Dec. 18, 2009, and Onsite</th>
</tr>
</thead>
<tbody>
<tr>
<td>$450 Registration</td>
<td>$550 Registration</td>
</tr>
<tr>
<td>$405 NFID Supporting Member</td>
<td>$495 NFID Supporting Member</td>
</tr>
<tr>
<td>$250 Doctors in Training</td>
<td>$300 Doctors in Training</td>
</tr>
<tr>
<td>$250 Nurses</td>
<td>$300 Nurses</td>
</tr>
<tr>
<td>$200 Daily Registration</td>
<td>$250 Daily Registration</td>
</tr>
</tbody>
</table>

☐ MON ☐ TUE ☐ WED (CHECK BOX)  ☐ MON ☐ TUE ☐ WED (CHECK BOX)

☐ Check or money order drawn on U.S. funds (made payable to NFID) enclosed in the amount of $________
☐ Please bill my credit card in the amount of $________

Check type of card
☐ Visa     ☐ MasterCard     ☐ American Express

name as printed on card

card number   expiration date

signature

billing address (if different from registrant’s mailing address)

city    state zip+4/postal code

country

CANCELLATION POLICY
Refunds minus a $75 administrative fee will be granted only if written notification arrives at the NFID office prior to 5 p.m. Eastern Daylight Time on January 4, 2010. There will be no refunds for cancellations made after this date. NFID reserves the right to cancel this conference at any time. In the event of conference cancellation, only the full registration fee will be returned to the registrant.
The Scientific Program Committee invites submissions of abstracts of original research. Topic areas and abstract format are available on-line at the conference website. All abstracts must be submitted electronically. Abstracts should be submitted via the on-line submission program on the conference website (www.nfid.org/conferences/resistance10).

**Deadline:** Abstracts must be received by October 19, 2009.

**Notification:** Notification of abstract acceptance will be e-mailed during the week of November 23, 2009.

**Important Note:** Those whose abstracts are accepted for presentation must complete a conference registration form and pay the appropriate registration fee by December 18, 2009; otherwise the abstract will be withdrawn. The conference does not have funds available to support travel or other costs, so please make financial arrangements as soon as possible. Presenters who fail to appear at the conference at the specified time(s) without making arrangements for a co-author to make their presentation will forfeit their registration fee and any future abstract submissions will be automatically disqualified from consideration for two years.

**More Information:** Additional information regarding the abstract submission process may be acquired by contacting Lauren Ero through any of the means listed below:

- **Phone:** 301-656-0003 x19
- **Fax:** 301-907-0878
- **E-Mail:** resistance@nfid.org