

Preventing Nosocomial Infections: Progress in the 80's; Plans for the 90's

July 31 -August 3, 1990

Hyatt Regency Hotel
Atlanta, Georgia

Preliminary Program

Sponsored by

The Centers for Disease Control and
The National Foundation for
Infectious Diseases
in Cooperation With
The American Society for
Microbiology

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Program Schedule

Monday, July 30

3:00 P.M.-7:00 P.M. Registration and pick-
up of conference folders
7:00 P.M. Informal Social

Tuesday, July 31

7:00 A.M. Registration and pick-up of
conference folders

Morning Session

8:30 A.M. Opening Session
**Infection Control: Yesterday,
Today and Tomorrow**

Moderators: W. Martone, J. Garner

9:00 A.M. A Historical Perspective: The
Landmark Conference in 1970

T. Eickhoff; Denver, Colorado
 9:15 AM. A Historical Perspective: The Landmark Conference in 1980
 R. Dixon; Trenton, New Jersey
 9:30 AM. Contemporary Challenge for Infection Control: Sick Patients, DRGs, AIDS, Regulations and Decreased Resources
 D. Goldmann; Boston, Massachusetts

**State of the Art Lectures:
 The Epidemiology and Prevention
 of Major Nosocomial Infections**
 Moderators: J. Bennett, T. Eickhoff

10:30 AM. The Epidemiology and Prevention of Nosocomial Pneumonias
 D. Craven; Boston, Massachusetts
 11:15 AM. The Epidemiology and Prevention of Nosocomial Bloodstream Infections
 D. Maki; Madison, Wisconsin

**Afternoon Session
 State of the Art Lectures:
 The Epidemiology and Prevention
 of Major Nosocomial Infections**
 Moderators: J. Bennett, T. Eickhoff

1:30 P.M. The Epidemiology and Prevention of Surgical Wound Infections
 R. Nichols; New Orleans, Louisiana
 2:15 P.M. The Epidemiology and Prevention of Nosocomial Urinary Tract Infections
 W. Stamm; Seattle, Washington

Pathogens of Today and Tomorrow
 Moderators: D. Schaberg, C. Thornsberry

3:30 P.M. Major Trends in Nosocomial Bacterial Pathogens
 D. Schaberg; Ann Arbor, Michigan
 3:45 P.M. Major Trends in Nosocomial Viral Pathogens
 L. Anderson; Atlanta, Georgia
 4:00 P.M. Major Trends in Nosocomial Fungal Pathogens
 W. Jarvis; Atlanta, Georgia
 4:15 P.M. Novel and Emerging Mechanisms of Antimicrobial Resistance
 F. Tenover; Seattle, Washington
 4:30 P.M. Can We do More to Control Methicillin-Resistant *Staphylococcus aureus*?
 R. Wenzel; Iowa City, Iowa
 4:45 P.M. Mechanisms and Implications of Vancomycin Resistance in Nosocomial Pathogens
 P. Courvalin; Paris, France

Wednesday, August 1

**Identifying Problems and
 Measuring Outcomes:
 Surveillance and Investigation**

**Morning Session
 Surveillance: Current and Future
 Methods, Current and Future Uses**
 Moderators: R. Holzman, J. Hughes

8:30 A.M. Striving for Benchmark Nosocomial Infection Rates: Progress in Controlling for Patient Mix
 P. Gross; Hackensack, New Jersey

9:00 A.M. Healthcare Data: The Epidemiologists' Sand
 W. Hierholzer; New Haven, Connecticut
 9:30 AM. The National Nosocomial Infection Surveillance System: Plans for the 90's and Beyond

R. Gaynes; Atlanta, Georgia
 10:30 AM. Measuring the Costs of Nosocomial Infections: Current State of the Art
 R.W. Haley; Dallas, Texas

10:45 AM. An Assessment of Selective Surveillance Methods for Detecting Hospital-Acquired Infection
 H. Glenister, L.J. Taylor, J.A. Sedgwick, C.L.R. Bartlett, E.M. Cooke, D.A. Leigh; London, United Kingdom

11:00 A.M. Computerized Identification of Hospital-Acquired Infections and High-Risk Patients
 R.S. Evans, J.P. Burke, D.C. Classen, L.E. Stevens, K.M. Goodrich, S.L. Pestotnik; Salt Lake City, Utah

11:15 A.M. Accuracy of Generic Quality Screen in Identifying Nosocomial Infection
 S. Pirwitz, J. Bryant; Cleveland, Ohio

11:30 A.M. Automated Post-Discharge Surveillance for Postpartum and Neonatal Infections

K.F. Holbrook, V. Finn Nottebart, S.R. Hameed, R. Platt; Boston, Massachusetts

11:45 A.M. Focused Microbiological Surveillance by Specific Hospital Unit as a More Sensitive Means of Defining Bacterial Resistance Problems
 C.W. Stratton, W. Schaffner; Nashville, Tennessee

12:00 P.M. Lunch and Poster Sessions 1-7

**Afternoon Concurrent Sessions
 A - Nosocomial Infection Outbreaks**
 Moderators: E.M. Cooke, O. Tablan

1:30 Nosocomial Outbreaks of International Importance
 W. Jarvis; Atlanta, Georgia

1:45 P.M. Recurrent Group A Streptococcal Carriage in a Healthcare Worker Resulting in Widely Separated Nosocomial Outbreaks

V. Finn Nottebart, A. Viglionese, H. Bodman, R. Platt; Boston, Massachusetts

2:00 P.M. Outbreak of Nosocomial Infections Due to β -Lactamase-Producing, Gentamicin-Resistant *Enterococcus faecalis*: A Case-Control Study
 V. Wells, E.S. Wong, P. Coudron, D. Williams, G. Stuart, S. Markowitz; Richmond, Virginia

2:15 P.M. *Serratia marcescens* Surgical Wound Infections Following Breast Reconstruction

D.A. Pegues, L.A. Shireley, C.F. Riddle, R. L. Anderson, R.W. Vess, B.C. Hill, W.R. Jarvis; Atlanta, Georgia and Bismarck, North Dakota

2:30 P.M. Nosocomial *Clostridium difficile* Diarrhea: Can Surveillance of Sporadic Cases Trigger Effective Control?

M.J. Struelens, A. Maas, C. Nonhoff, F. Rost, E. Serruys; Brussels, Belgium 2

2:45 P.M. Transmission of *Legionella*

Extrapulmonary Infections by Bathing With Contaminated Tap Water
 P.W. Lowry, R. Blankenship, W. Gridley, N. Troup, L.S. Tompkins; Stanford, California

**B - Applying Epidemiologic
 Techniques to Improve
 Quality of Care**

Moderators: E. Bolyard, R. Dixon

1:30 P.M. Applying Epidemiologic Techniques to Improve Quality of Care: The Role of Hospital Epidemiology
 R. Wenzel; Iowa City, Iowa

2:00 P.M. Applying the Industrial Model to Improve Quality of Hospital Care
 A. Burleson, Burlington, Massachusetts

2:30 P.M. An Epidemiologic Description of Infectious and Non-infectious Complications of Hospitalization
 R.W. Haley, P. Lynch, C. Mullin, B. Barnard; Dallas, Texas and Seattle, Washington

2:45 P.M. Pilot Study of Anesthesia Mortality and Morbidity
 D.N. Klaucke; Atlanta, Georgia

**Afternoon Concurrent Sessions
 A - Applying Laboratory Techniques
 to Hospital Epidemiology**

Moderators: V. Lorian, J. McGowan

3:30 P.M. New Laboratory Techniques to Help the Hospital Epidemiologist
 J. McGowan; Atlanta, Georgia

4:00 P.M. Investigation of a Neonatal Intensive Care Unit *Staphylococcus aureus* Outbreak Using Chromosomal Restriction Enzyme Analysis (REA) and DNA-DNA Hybridization
 M. Louie, A.E. Simor, B.N. Kreiswirth, J. Ng, C. Goldman, K. Green, D.E. Low; Toronto, Canada and New York, New York

4:15 P.M. Genotyping Nosocomial MRSA Using Staphylococcal Variable Gene Probes
 B.N. Kreiswirth, D.E. Law; Toronto, Canada and New York, New York

4:30 P.M. Isoenzyme Analysis of *Pseudomonas cepacia* as an Epidemiological Tool

L.A. Carson, R.L. Anderson, A.L. Panlilio, C. Beck-Sague, J.M. Miller; Atlanta, Georgia

4:45 P.M. Electrophoretic Karyotype as a Powerful Epidemiologic Tool in Yeast Infections
 D. Pittet, M. Monod, I. Filthuth, E. Frenk, R. Auckenthaler; Geneva and Lausanne, Switzerland

**B - Nosocomial Infection
 Surveillance Using NNIS:
 Trends, Methods of Risk Adjustment
 and New Application**

Moderators: R. Gaynes, W. Hierholzer, E. Wong

3:30 P.M. Trends in Nosocomial Bloodstream Infections (BSI) in the United States, 1980-1989

S. Banerjee, G. Emori, D. Culver, R. Gaynes, The National Nosocomial Infections

Surveillance System (NNIS); Atlanta, Georgia

3:40 P.M. Temporal Trends in Septicemia in a Community Teaching Hospital
W.E. Scheckler; Madison, Wisconsin

4:00 P.M. Nosocomial Infections Surveillance-Analysis of the NNIS Surveillance Components
NNIS Staff; Atlanta, Georgia

4:30 P.M. Risk-Specific Nosocomial Infection Rates

A. Josephson, L. Karanfil, H. Alonso, A. Watson, J. Blight; Brooklyn, New York

4:45 P.M. Use of NNIS Data in JCAHO's Quality Indicators for Nosocomial Infection: Need for Risk Adjustment
W. Hierholzer; New Haven, Connecticut

C • Investigation and Control of Methicillin-Resistant *Staphylococcus aureus* Infections

Moderators: W. Martone, E.M. Cooke

3:30 P.M. Assigning Responsibility: Sustained Control of Endemic MRSA
M.D. Nettleman; Iowa City, Iowa

3:45 P.M. Use of Computer Tracing of Roommate Exposure to End Transmission of Resistant Staphylococcal Infections From a Surgical Intensive Care Unit
R.W. Haley, C.E. Haley, D. Dryer, J.P. Luby; Dallas, Texas

4:00 P.M. An MRSA Outbreak in an SICU During Universal Precautions (UPs): New Epidemiology for Nosocomial MRSA; Downside for UPs
D.G. Maki, R.D. McCormick, M.A. Zilz, S.M. Stolz, C.J. Alvarado; Madison, Wisconsin

4:15 P.M. Re-emergence of Epidemic Methicillin-Resistant *Staphylococcus aureus* (MRSA) in a General Hospital Associated with Changing Staphylococcal Strains
C.C. Linnemann, P. Moore, J. Staneck, M. Pfaller; Cincinnati, Ohio and Iowa City, Iowa

4:30 P.M. Control of MRSA: A Seven-Year Experience
S.H. Cohen, M.M. Morita, M. Bradford; Sacramento, California

4:45 P.M. Ten Years' Experience with Methicillin-Resistant *Staphylococcus aureus* (MRSA)
J.L. Faoagali, M.L. Thong, D. Grant; Brisbane, Australia

Thursday, August 2 Interventions to Reduce Nosocomial Infections in High-Risk Patient Groups

Morning Session Nosocomial Infections in Surgical Patients

Moderators: R. Haley, R. Howard

8:30 A.M. Nosocomial Infections in Surgical Patients: The Need to Include Measures of Intrinsic Patient Risk
R. Haley; Dallas, Texas

8:45 A.M. Surgical Wound Infection Rates by Wound Class, Operation and Risk Index in U.S. Hospitals, 1986-1990

D. Culver, T. Horan, R. Gaynes, The National Nosocomial Infections Surveillance System (NNIS); Atlanta, Georgia

9:00 A.M. Risk Factors for Postoperative Infection

R.A. Garibaldi, D.S. Cushing, T. Lerer; Farmington, Connecticut

9:15 A.M. Analysis of Risk Factors (RF) for Surgical Wound Infections (SWI) Following Vascular Surgery

H. Richet, C. Chidiac, A. Prat, L. Guyot, M. David, M. Maccario, W. Jarvis; Tourcoing, France and Atlanta, Georgia

9:30 A.M. Effectiveness of an Intervention Program in Reducing Postoperative Infections

D. Greco, M.L. Moro, A.E. Tozzi, G. De Giacomo, the Italian PRINOS Study Group; Rome, Italy

9:45 A.M. Necessity and Efficiency of Wound Surveillance After Discharge
J.A. Weigelt, D. Dryer, R.W. Haley; Dallas, Texas

Morning Session Nosocomial Infections in Critically Ill Adult Patients

Moderators: G. Counts, R. Weinstein

10:30 A.M. Nosocomial Infections in Critically Ill Adult ICU Patients
R. Weinstein, Chicago, Illinois

10:45 A.M. Nosocomial Infection Rates in Adult and Pediatric Intensive Care Units (ICU) in the United States 1986-1990
J.R. Edwards, W. Jarvis, The National Nosocomial Infections Surveillance System (NNIS); Atlanta, Georgia

11:00 A.M. Critical Care Surveillance Plan at a University Trauma Center
M. Bradford, S.H. Cohen; Sacramento, California

11:15 A.M. Risk Factors for Central Venous Catheter-Related Infection Within the ICU: A Prospective Study of 345 Catheters

D.G. Maki, L. Will; Madison, Wisconsin

11:30 A.M. Rate of Nosocomial Infections (NI) as a Function of HIV-1 Status in Hemophiliacs

D.J. Weber, P.R. Becherer, W.A. Rutala, G.P. Samsa, G.C. White; Chapel Hill, North Carolina

11:45 A.M. Nosocomial Infections in Patients With HIV Disease
B.F. Farber, J. Woltmann, D. Armellino, J. Filardi; Manhasset, New York

12:00 P.M. Lunch and Poster Sessions 8-13

Afternoon Concurrent Sessions A • Nosocomial Infections in Neonates

Moderators: D. Goldmann, W. Jarvis

1:30 P.M. Comparison of Rates of Nosocomial Infections (NI) in Neonatal Intensive Care Units (NICU) in the United States

R. Gaynes, W. Martone, D. Culver, The National Nosocomial Infections Surveillance System (NNIS); Atlanta, Georgia

1:45 P.M. Can Recurring Infection Problems from Periodic Understaffing in Neonatal Special Care Units Be Prevented by Topical Prophylaxis?

R.W. Haley, N. Cushion, J.D. Siegel; Dallas, Texas

2:00 P.M. Complications Associated With Central Venous Catheters (CVCs) Inserted in Critically Ill Neonates

V. Hruszkewycz, P. Holtrop, R. Morden, D. Batton, J. Band; Royal Oak, Michigan

2:15 P.M. An Outbreak of Candidemia Associated With Retrograde Medication Administration (RMA) in a Neonatal Intensive Care Unit (NICU)

R.J. Sherertz, K.D. Hampton, L.K. Gledhill, J.S. Abramson, L.B. Givner, R.G. Dilard; Winston-Salem, North Carolina

2:30 P.M. Transfusion-Acquired Hepatitis A Outbreak from Fresh Frozen Plasma in a Neonatal Intensive Care Unit
L.R. Vargo, C.T. Le, K.K. Lee; Sacramento, California

2:45 P.M. *Salmonella infantis* Outbreak in Neonates in an Intermediate Care Nursery (ICN): A Preventable Problem
C.A. Perlino, C.M. Parrish, P.M. Terry; Atlanta, Georgia

B • Control of Nosocomial Infections in Regions With Limited Resources

Moderators: H. Novaes, E. Tikhomirov

1:30 P.M. A Worldwide Perspective on Nosocomial Infections in Regions With Limited Resources

E. Tikhomirov; Geneva, Switzerland

1:45 P.M. Report on the Pan American Health Organization Regional Conference on Hospital Infection Control
H. Novaes; Washington, D.C.

2:00 P.M. Surgical Wound Infection in Bandung, Indonesia as a Developing Country

M.A. Djojosedjito; Bandung, Indonesia

2:15 P.M. Adaptation of CDC Guidelines for the Prevention of Nosocomial Infection in a Pediatric Intensive Care Unit in Jakarta, Indonesia

E. Rhinehart, J. L&laire, D.A. Goldmann, E.J. O'Rourke; Boston, Massachusetts and Baltimore, Maryland

2:30 P.M. Nosocomial and Community-Acquired Bloodstream Infections

M.B. Souza Dias, C.M. Silva, V.L. Borasca, I.M. Mimica, R.P. Igreja, H. Sirio Libanes; Sao Paulo, Brazil

2:45 P.M. Economic Improvements Through Establishment of Prudent Infection Control Practices in a Brazilian General Hospital: 1986-1989

M.D.A. Cavalcante, C.H. Teofilo, E.N. Oliveira; Brasilia, Brazil

Afternoon Concurrent Sessions A • Control of Infections Through Environmental Interventions

Moderators: M. Favero, B. Nystrom

3:30 P.M. Report from the International Symposium on Chemical Germicides
M. Favero; Atlanta, Georgia

3:45 P.M. New Technology for Sterilization and Disinfection

B. Nystrom; Stockholm, Sweden

4:00 P.M. Inactivation of *Mycobacterium tuberculosis* (Mtb) and *M. bovis* (Mb) by 13 Hospital Disinfectants
W.A. Rutala, E.C. Cole, N. Wannamaker,

D.J. Weber; Chapel Hill, North Carolina
4:15 P.M. Nosocomial Legionnaires Disease Controlled by UV Light and Low-Level Ag/Cu Ions

R.L. Baker, J. Stevens, L. Fish, D. Crigger; Indianapolis, Indiana

4:30 P.M. Septicemia After ERCP: Outbreak Linked to an Automatic Endoscope Disinfecting Machine

M.J. Struelens, F. Rost, M. Loriers, A. Maas, Z. Berjaoui, E. Serruys, M. Cremer; Brussels, Belgium

4:45 P.M. Nosocomial *Pseudomonas aeruginosa* Infections From Contaminated Endoscopes

C.J. Alvarado, S.M. Stolz, D.G. Maki; Madison, Wisconsin

B - Nosocomial Infections in the Elderly

Moderators: B. Campbell, P. Smith

3:30 P.M. Overview of Nosocomial Infections in the Extended Care Facility
P.W. Smith; Omaha, Nebraska

3:45 P.M. Surveillance and Control of Infections in Long-Term Care: The Canadian Experience

B. Campbell; Ottawa, Canada

4:00 P.M. Nosocomial Infections (NI) in Elderly Patients in the United States
G. Emori, S. Banerjee, D. Culver, R. Gaynes, The National Nosocomial Infections Surveillance System (NNIS); Atlanta, Georgia

4:15 P.M. Risk Factors for Nosocomial Pneumonia in the Elderly

G.A. Harkness, D.W. Bentley; Storrs, Connecticut and Rochester, New York

4:30 P.M. Side Effects and the Use of Amantadine in the Elderly

L.E. Chapman, T.R. Cote, M.M. Hebert, M.A. Tipple, D.M. Dwyer, L.B. Schonberger; Atlanta, Georgia and Baltimore, Maryland

4:45 P.M. The Silent Sea of *C. difficile* (Cd)

D.N. Gerding, L.R. Peterson, S. Johnson; Minneapolis, Minnesota

C - Infections Associated With Intravascular Devices

Moderators: D. Henderson, D. Maki

3:30 P.M. Infectious Complications of Home Intravenous Therapy Via Centrally or Peripherally Placed Central Catheters
D.R. Graham, M.M. Keldermans, L.W. Klemm, N.J. Semenza, M.L. Shafer; Springfield, Illinois

3:45 P.M. Marked Differences in Skin Colonization of Insertion Sites for Central Venous, Arterial and Peripheral IV Catheters. The Major Reason for Differing Risks of Catheter-Related Infection?
D.G. Maki; Madison, Wisconsin

4:00 P.M. Epidemiology of Infection with PA/Swan-Ganz Catheters: A Prospective Study
L. Mermel, S. Stolz, D.G. Maki; Madison, Wisconsin

4:15 P.M. Study of Long Duration Placement of Pressure Monitoring Systems
M.K. O'Malley, J. Chen, S. Cameron, B.A.

Juni, A.J. Streifel, R.C. McComb, F.B. Cerra, D. Vesley, F.S. Rhame; Minneapolis, Minnesota

4:30 P.M. The Value of Topical Povidone-Iodine (PV-I) Ointment in the Prevention of Hemodialysis-Related Sepsis
A. Levin, A.J. Mason, K.K. Jindal, M.B. Goldstein, I.W. Fong; Toronto, Canada

4:45 P.M. A Meta-Analysis of Transparent Polyurethane for Use as a Central Venous Catheter Dressing
K.K. Hoffman, D.J. Weber, G.P. Samsa, W.A. Rutala; Chapel Hill, North Carolina

Friday, August 3

Morning Session

Risk Reduction and Interventions for Bloodborne Pathogens

Moderators: J. Curran, J. Gerberding

8:30 A.M. Risk Reduction and Interventions for Bloodborne Pathogens: What Do We Know and Where Do We Go?
D. Bell; Atlanta, Georgia

9:00 A.M. What's New on Gloves, Gowns and Other Protective Equipment for Healthcare Workers?

T. Lowe; Bethesda, Maryland

9:15 A.M. Chemoprophylaxis Following Occupational Exposure to HIV: Current Status

D. Henderson; Bethesda, Maryland

9:30 A.M. Does Knowledge of HIV Infection Decrease the Risk to Healthcare Providers Exposed to Blood?

J. Gerberding; San Francisco, California

9:45 A.M. Burden of Hepatitis B Virus Infection in Healthcare Workers: Need for Widespread Use of Hepatitis B Vaccine

M.J. Alter, H.S. Margolis; Atlanta, Georgia

10:00 A.M. Nosocomial Hepatitis C: A Sleeping Giant?

M.J. Alter; Atlanta, Georgia

10:15 A.M. Epidemiology of Hospital Sharps Injuries: A 14-Year Perspective in the Pre-AIDS and AIDS Eras

R.D. McCormick, M. Meisch, R. Ircinik, D.G. Maki; Madison, Wisconsin

Morning Session

Protecting the Healthcare Worker: Old Problems, New Risks for Healthcare Workers

Moderators: E. Pantelick, W. Williams

11:00 A.M. Hospital-Acquired Hepatitis A: New Insights on an Old Disease
L.B. Polish, L.S. Rosenblum, M.J. Alter, H.S. Margolis; Atlanta, Georgia

11:15 A.M. Transmission of Measles in Medical Settings-United States, 1985-1989

W.L. Atkinson, L.E. Markowitz, N.C. Adams, G.R. Seastrom; Atlanta, Georgia

11:30 A.M. Response to a Hospitalized Case of Measles at a Medical School Affiliated Hospital

C.A. Perlino, C.M. Parrish; Atlanta, Georgia

11:45 A.M. Brucellosis Among Hospital Employees

F.W. Kiel, M.Y. Khan; Riyadh, Saudi Arabia

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12:00 P.M. **Lunch and Poster Sessions 14-16**

Afternoon Plenary Session The Challenge of Prevention in the 90's and Beyond: The Need for Commitment and Partnership

1:30 P.M. Year 2000 Objectives for Preventing Nosocomial Infections: How Do We Get There Together?

W. Martone; Atlanta, Georgia

1:40 P.M. JCAHO Infection Surveillance and Control Indicators

D.M. Nadzam; Oakbrook Terrace, Illinois

1:50 P.M. Development of Health Standard for Occupational Exposure to Bloodborne Pathogens

S. Harwood, E. Grossman, K. Landkrohn, B. Sandler, C. Thurber; Washington, D.C.

2:00 P.M. Reports from the Organizations: Current Approaches, Future Plans

2:20 P.M. Round Table Discussion

3:00 P.M. Closing Remarks and Adjournment

Poster Sessions

Session 1: Surveillance and Risk Factors for Nosocomial Infections

Session 2: Implementing Quality of Care Programs

Session 3: Molecular Epidemiology of Nosocomial Pathogens

Session 4: Outbreaks and Pseudo-Outbreaks Traced to Environmental Reservoirs

Session 5: Miscellaneous Outbreaks and Pseudo-Outbreaks: A Continuing Problem

Session 6: Problems with MRSA and Other Resistant Gram-Positive Cocci

Session 7: Emerging Pathogens and Antimicrobial Resistance

Session 8: Infections in Surgical Patients: Surveillance and Risk Factors

Session 9: Nosocomial Infections in Immunocompromised and Intensive Care Unit Patients

Session 10: Nosocomial Bloodstream Infections

Session 11: Environmental Microbiology and Waste Management Issues

Session 12: Infections in the Nursing Home, the Elderly and the "Old" Old

Session 13: Infections Associated with Non-Acute Care Settings

Session 14: Infection Control Policies to Protect Healthcare Workers from Bloodborne Pathogens: Compliance and Efficacy

Session 15: Occupational Hepatitis B and HIV: Risk Assessment, Immunization and Prophylactic Intervention

Session 16: Measles and Other Unresolved Occupational Health Issues

For more information regarding the Third International Conference on Nosocomial Infections, please contact the American Society for Microbiology, Meetings Department, 1325 Massachusetts Avenue NW, Washington, D.C. 20005. Telephone (202) 737-3600; FAX (202) 737-0322.