An Official Journal of The Society for Healthcare Epidemiology of America

PUBLISHED FOR THE SOCIETY BY SLACK INCORPORATED

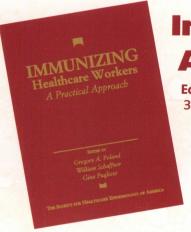
INFECTION CONTROL AND HOSPITAL EPIDEMIOLOGY®

EDITORIAL

Pertussis: A Continuing Hazard for Healthcare Facilities David J. Weber, MD, MPH; William A. Rutala, PhD, MPH	736
ORIGINAL ARTICLES	
Nasal Carriage of Staphylococcus aureus Among Patients Receiving Allergen-Injection Immunotherapy: Associated Factors and Quantitative Nasal Cultures Stefano Bassetti, MD; Donnie P. Dunagan, MD; Ralph B. D'Agostino, Jr, PhD; Robert J. Sherertz, MD	741
Nosocomial Infections in Geriatric Long-Term-Care and Rehabilitation Facilities: Exploration in the Development of a Risk Index for Epidemiological Surveillance Franck Golliot, MSc; Pascal Astagneau, MD, PhD; Bernard Cassou, MD; Nicole Okra, MD; Monique Rothan-Tondeur, NE; Gilles Brücker, MD	746
Hepatitis C Virus Infection in Employees of a Large University Hospital in Israel Simona Sermoneta-Gertel, MPH; Milka Donchin, MD, MPH; Ruth Adler, PhD; Mario Baras, PhD; Tamar Perlstein, RN; Noga Manny, MD; Daniel Shouval, MD; Eithan Galun, MD	754
Nosocomial Infections in a Children's Hospital in Argentina: Impact of a Unique Infection Control Intervention Program Angela de Gentile, MD; Noemi Rivas, MD; Ronda L. Sinkowitz-Cochran, MPH; Teresa Momesso, MD; Emilio Martinez Iriart, MD; Eduardo Lopez, MD; Consuelo M. Beck-Sague, MD; William R. Jarvis, MD	762
Neonatal Bacteremia: Patterns of Antibiotic Resistance Ruben Bromiker, MD; Ilan Arad, MD; Ofra Peleg, MD; Aviya Preminger, MD; Dan Engelhard, MD	767
Nosocomial Infections in Pediatric Cardiac Surgery, Italy Mariangela Valera, MD; Carlo Scolfaro, MD; Nazario Cappello, MD; Elena Gramaglia, MD; Sergio Grassitelli, MD; Maria Teresa Abbate, MD; Alberta Rizzo, MD; Piero Abbruzzese, MD; Andrea Valori, MD; Stefano Longo, MD; Pier Angelo Tovo, MD	771
Epidemiology of Biological-Exposure Incidents Among Spanish Healthcare Workers Vicente Monge, MD, PhD; Gloria Mato, MD; Alberto Mariano, MD; Cristina Fernández, MD; José Fereres, MD, PhD; The GERABTAS Working Group	776

Continued inside.

All The Facts For Your Immunization Program



Both textbooks are an official publication of

The Society for Healthcare

Epidemiology of America (SHEA).

Immunizing Healthcare Workers: A Practical Approach

Edited by Gregory A. Poland, MD; William Schaffner, MD; Gina Pugliese, RN, MS 300 pp, Hard Cover, 2000, ISBN 1-55642-450-7, Order # 14507, \$109.00

Immunizing Healthcare Workers: A Practical Approach is the first complete resource for dealing with the immunization of healthcare workers. You can find all of the latest information on successfully and safely implementing or updating your immunization program in this landmark book.

Inside you will find that for each of the vaccine-preventable diseases among workers, there is a discussion of disease risks in the healthcare setting, vaccine recommendations, special administration strategies, safety issues, discussion of unresolved issues, and answers to commonly asked questions. There are also case studies of sample programs in specific settings.

This phenomenal book contains the latest recommendations from the US Public Health Service Advisory Committees, Healthcare Infection Control Practices Advisory Committee (HICPAC), and the Advisory Committee on Immunization Practices (ACIP).

Read how the experts overcame obstacles while setting up immunization programs in their healthcare settings. With over 45 contributors to 32 chapters, Immunizing Healthcare Workers: A Practical Approach is an essential source for the latest information necessary to implement an effective immunization program.

Some Case Study Topics:

- Immunizing Providers and Staff in Physicians' Offices
- Vaccination of Healthcare Workers in Long-Term Care Facilities for the Elderly
- Immunization of Affiliating Students and Contract Home Healthcare Workers
- Immunization Strategies for Home Healthcare Personnel

- Immunization of Workers with Altered Host Defenses
- Vaccinating Unimmunized and Partially Immunized Workers
- Assessing Immunity and Exposures: Using a Computerized Surveillance System
- Managing Information in an Immunization Program
- The Internet: A Quick Guide to Vaccine & Immunization Information

Vol. 22 No. 12 _______ December 2001

INFECTION CONTROL AND HOSPITAL EPIDEMIOLOGY®

CONTENTS

Continued from cover

CONCISE COMMUNICATIONS Azithromycin Prophylaxis During a Hospitalwide Outbreak of a Pertussis-Like Illness	
SHAY M. MARTINEZ; CAROL A. KEMPER, MD; DONNA HAIDUVEN, RN, PhD; SARA H. CODY, MD; STANLEY C. DERESINSKI, MD	781
Nasal MRSA Colonization of AIDS Patients Cared for in a Brazilian University Hospital	
Maria Clara Padoveze, RN; Antonia Teresinha Tresoldi, MD; Angela vonNowakonski, MD; Francisco Hideo Aoki, MD; Maria Luiza Moretti Branchini, MD	783
BOOK REVIEW Publishing Your Medical Research Paper: What They Don't Teach You in Medical School (Byrne DW) KAREN KESSLER HOFFMANN, RN, MS	786
CORRECTION	785
MEDICAL NEWS GINA PUGLIESE, RN, MS; MARTIN S. FAVERO, PHD	787
ANNUAL INDEX	793
SHEA NEWS ANDREAS VOSS, MD, PhD	808

To view abstracts of these articles, visit us on the Internet at http://www.slackinc.com/general/iche

The publication of advertising in the Journal does not constitute any guarantee or endorsement by The Society for Healthcare Epidemiology of America or Slack Incorporated of the advertised product or service or of claims made by the advertiser. The publication of articles and other editorial material in the Journal does not necessarily represent the policy recommendations or endorsement by the Society.

PUBLISHER: Infection Control and Hospital Epidemiology (ISSN-0899-823X, Canadian GST#129780466) is published exclusively by SLACK Incorporated 12 times a year. Address: 6900 Grove Road, Thorofare, NJ 08086. Telephone: (856) 848-1000.

SHEA: 19 Mantua Rd., Mt. Royal, NJ 08061; telephone, 856423-0087; fax, 856423-3420; e-mail address, sheahq@talley.com.

COPYRIGHT 2002 The Society for Healthcare Epidemiology of America, Inc., and SLACK Incorporated. All rights reserved. No part of this publication may be reproduced without written permission from the publisher. Printed in the USA.

SUBSCRIPTIONS: Requests should be addressed to the publisher (except Japan). In Japan, contact Woodbell Incorporated, 4-22-11, Kitakasai, Edogawaku, Tokyo 134, Japan. Subscription rates in the United States and possessions: Individual: One year-\$109.00; Two years-\$169.00; Three years-\$229.00; Institutional: One year-\$154.00; Two years-\$229.00; Three years-\$294.00. Fellows: \$54.50 per year with proof of training status. Canada: add 7% Goods & Services tax; Overseas: add \$49.00 each year for delivery by air service. Single copies of current issues may be obtained for \$19.00.

INSTRUCTIONS TO AUTHORS: Authors may submit manuscripts prepared in accordance with the 1997 revision of the "Uniform Requirements for Manuscripts Submitted to Biomedical Journals." The Uniform Requirements has been published in several journals, including Infect Control Hosp Epidemiol 1997;18:457-464 and Ann Intern Med 1997;126:36-47. A digital version is available on our web site (http://www.slackinc.com/general/ciche/ichehome.htm). Submit to ICHE Editorial Office, SLACK Incorporated, 6900 Grove Road, Thorofare, NJ 08086, USA. All submissions must be accompanied by copyright form(s) signed by all authors (see January issue or our web site).

REPRINTS: All requests to reprint or use material published herein should be addressed to Karen Lambertson, SLACK Incorporated, 6900 Grove Road, Thorofare, NJ 08086. For reprint orders and prices, contact Karen Lambertson at (856) 848-1000. Authorization to photocopy items for internal or personal use, or the internal or personal use of specific clients, is granted by SLACK Incorporated, provided that the base fee of \$1.00 per copy, plus \$.20 per page is paid directly to Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923; phone (978) 750-8400. This consent does not extend to other kinds of copying, such as for general distribution, resale, advertising and promotional purposes, or for creating new collective works.

CHANGE OF ADDRESS: Notice should be sent to the publisher 6 weeks in advance of effective date. Include old and new addresses with zip codes. The publisher cannot accept responsibility for undelivered copies. Periodicals postage paid at Thorofare, New Jersey 08086-9447 and at additional mailing offices. POSTMASTER: Send address changes to SLACK Incorporated, 6900 Grove Road, Thorofare, NJ 08086.

INFECTION CONTROL AND HOSPITAL EPIDEMIOLOGY is listed in Index Medicus, Current Contents-Clinical Practice, Hospital Literature Index, Cumulative Index to Nursing & Allied Health Literature, Nursing Abstracts, Laboratory Performance Information Exchange System, and RNdex Top 100.

INFECTIOUS DISEASES INFECTION CONTROL



Indiana University

Indiana University Department of Medicine, Division Infectious Diseases is recruiting as Assistant/Associate Professor. This position will focus on building an Infection SCHOOL OF MEDICINE Control program in conjunction with Clarian Health

Partners, Inc. at University Hospital, located on campus. Successful candidates should be BC in internal medicine and BC/BE in infectious diseases and should demonstrate prior experience or training in hospital epidemiology. At least 75% of the applicant's time will be spent in Infection Control.

For consideration, send a CV, letter of interest, statement of research interest, and three letters of reference to: Dr. Stanley M. Spinola, Director, Division of Infectious Diseases, Department of Medicine, 545 Barnhill Drive, EH 435, Indianapolis, IN 46202-5124.

Indiana University is an Affirmative Action/Equal Opportunity Employer M/F/D.

Mothers. Spouses. (maybe) Medical Matrix.

What do they have in common? You place vour trust in them. When searching the Internet for credible medical information, you need a resource you can trust. The Lancet quotes that "Medical Matrix is the most comprehensive compendium of reliable medical information on the Internet."



The largest, peer-reviewed directory to the medical Internet. Free registration.

The Society for Healthcare Epidemiology of America

2002 SHEA/CDC Training Course in Hospital Epidemiology

Program

The program will be held May 4-7, 2002 at the WestCoast Grand Hotel, Seattle, WA. Loreen A. Herwaldt, MD, Gina Pugliese, RN, MS, Julie Gerberding, MD, MPH, and Timothy W. Lane, MD will co-chair this program. This program, developed by the Society for Healthcare Epidemiology of America (SHEA), and the Centers for Disease Control and Prevention (CDC), is intended for infectious disease fellows and new hospital epidemiologists. It emphasizes hands-on exercises in which participants work in small groups to detect, investigate, and control epidemiological problems encountered in the hospital setting. These work sessions are supplemented with lectures and seminars covering fundamental aspects of hospital epidemiology and surveillance, epidemic investigation, transmission and control of nosocomial infections, disinfection and sterilization, employee health, isolation systems, regulatory compliance, and quality improvement

Who Should Attend

You should attend if you are a hospital epidemiologist or an infection control practitioner or if you are looking for a course that will provide you with the most current information concerning infection control practices and epidemiological methods in health care. This fundamental program will provide you with opportunities to find solutions to real situations that will occur in the hospital setting. Intensive problem solving sessions are supplemented with lectures and seminars presented by leading authorities.

Jonathan Freeman Scholarships

Seven Jonathan Freeman Scholarships in the amount of \$1,000 each will be awarded to infectious disease fellows for the program to defray the special course fee for fellows of \$400 and expenses incurred in attending the training program.

Interested fellows must submit a letter of no more than one page describing why they would like to have additional training in hospital epidemiology. A letter from the fellow's program director outlining the applicant's qualifications and suitability

for the course also is required. The deadline for receipt of scholarship applications for the course is April 1, 2002. The SHEA Educational Activities Committee will select the scholarship recipients based on review of these letters. Winners will be notified in mid April.

Nominations

Please send scholarship applications to:

Ann Mitchell c/o The Society for Healthcare Epidemiology of America 19 Mantua Road Mt. Royal, NJ 08061

Fees

Individual Registrants Fellows in Infectious Disease \$525

The Society for Healthcare Epidemiology of America (SHEA) is accredited by the Accreditation Council for Continuing Medical Education to sponsor continuing medical education for physicians.

The Society for Healthcare Epidemiology of America designates this continuing education activity for up to 27 hours in Category 1 of the Physician's Recognition Award of the American Medical Association.

General Course Information

Information regarding the schedule, hotel and travel accommodations, discount airfare, and course fees are available from SHEA (856) 423-7222. Note that application for a scholarship does not constitute enrollment in the program. This must be done separately.

Scholarship Awards provided in part by an educational grant from Wyeth Ayerst Research.

Vol. 22 No. 12 December 2001

EDITORIAL OFFICE

SLACK Incorporated 6900 Grove Road Thorofare, NJ 08086

(856) 848-1000; (856) 848-6091 (FAX)

Email: iche@slackinc.com

EDITOR

Barry Farr, MD, MSc

MANAGING EDITOR

Susan Cantrell

DEPUTY EDITOR

William R. Jarvis, MD

SENIOR ASSOCIATE EDITORS

C. Glen Mayhall, MD

Gina Pugliese, RN, MS

William Schaffner, MD

ASSOCIATE EDITORS Donald A. Goldmann, MD

Didier Pittet, MD, MS

Andreas Widmer, MD, MS

SECTION EDITORS

Beyond Infection Control: The New Hospital Epidemiology

Bryan P. Simmons, MD

Stephen B. Kritchevsky, PhD

Memphis, Tennessee Wing Hong Seto, MD

Hong Kong

Disinfection and Sterilization

William A. Rutala, PhD, MPH

Chapel Hill, North Carolina

Emerging Infectious Diseases

Larry J. Strausbaugh, MD Portland, Oregon

Robert W. Pinner, MD

Atlanta, Georgia

From the Laboratory

Marcus Zervos, MD

Royal Oak, Michigan Fred C. Tenover, PhD

Atlanta, Georgia

Information Management

John A. Sellick, DO Buffalo, New York

The International Perspective

Mary D. Nettleman, MD, MS

Richmond, Virginia

Issues in Surgery

James T. Lee, MD, PhD St. Paul, Minnesota

Medical News

Gina Pugliese, RN, MS

Chicago, Illinois Martin S. Favero, PhD

Irvine, California

Practical Healthcare Epidemiology

Loreen A. Herwaldt, MD

Iowa City, Iowa SHEA News

Andreas Voss, MD, PhD

Nijmegen, The Netherlands

Statistics for Hospital Epidemiology

David Birnbaum, PhD, MPH

Sidney, British Columbia, Canada

Topics in Long-Term Care

Philip W. Smith, MD

Omaha, Nebraska

Topics in Occupational Medicine

David Weber, MD, MPH

Chapel Hill, North Carolina

Executive Vice President

Vice President, Publishing Operations

iblished online by Camb

Richard N. Roash

Editorial Director

Production Editor

Shirley P. Strunk, ELS

Associate Editor Eileen C. Anderer, ELS

Jennifer Kilpatrick

John C. Carter

INFECTION CONTROL AND HOSPITAL EPIDEMIOLOGY

EDITORIAL ADVISORY BOARD

Jacques F. Acar, MD J. Wesley Alexander, MD Paul Arnow, MD

Graham A.J. Ayliffe, MD

Neil L. Barg, MD

Manuel Bastanzuri, MD Elizabeth Ann Bolyard, RN, MPH, CIC

John M. Boyce, MD

Professor Dr. Ilja Braveny

Christian Brun-Buisson, MD

Charles Bryan, MD

Donald E. Craven, MD

Sue Crow, MSN, RN, CIC

Franz Daschner, MD

Leigh G. Donowitz, MD

Charles E. Edmiston, Jr., PhD

Theodore C. Eickhoff, MD Bruce Farber, MD

Victoria J. Fraser, MD Peter C. Fuchs, MD, PhD

Richard A. Garibaldi, MD

Robert Gaynes, MD

Velvl Greene, PhD, MPH

David W. Gregory, MD

David K. Henderson, MD

Peter N.R. Heseltine, MD

Karen Hoffmann, RN, CIC, MS Marguerite McMillan Jackson, RN, PhD

Janine Jagger, MPH, PhD

Douglas S. Kernodle, MD

Robert H. Latham, MD Lewis B. Lefkowitz, MD

Hsieh-Shong Leu, MD, MSc

Jack Levy, MD Victor Lorian, MD

Dennis G. Maki, MD

William J. Martone, MD Allison McGeer, MD

John E. McGowan, Jr., MD

Jonathan L. Meakins, MD, DSc

Robert R. Muder, MD Joseph M. Mylotte, MD, CIC

Lindsay Nicolle, MD

Juhani Ojajärvi, MD Michael T. Osterholm, PhD, MPH

Jan Evans Patterson, MD

Sindy M. Paul, MD Michael A. Pfaller, MD

Samuel Ponce de Leon, MD, MSc

Isaam Raad, MD Manfred L. Rotter, MD, DipBact

Theodore Sacks, MD

William E. Scheckler, MD Kent Sepkowitz, MD

Denis Spelman, MD

Michael L. Tapper, MD Clyde Thornsberry, PhD

Professor Leonid P. Titov

Timothy R. Townsend, MD Antoni Trilla, MD, PhD

Professor Wang Shu-Qun

J. John Weems, Jr., MD

Robert A. Weinstein, MD

Professor Dr. W. Weuffen

Sergio B. Wey, MD

Rebecca Wurtz, MD

Paris, France Cincinnati, Ohio Chicago, Illinois

Birmingham, United Kingdom

Yakima, Washington

Havana, Cuba Atlanta, Georgia

Providence, Rhode Island Munich, Germany

Creteil, France

Columbia, South Carolina

Boston, Massachusetts Shreveport, Louisiana

Freiburg, Germany

Charlottesville, Virginia

Milwaukee, Wisconsin

Denver, Colorado Manhasset, New York

St. Louis, Missouri Black Butte, Oregon

Farmington, Connecticut

Atlanta, Georgia

Beer Sheva, Israel

Nashville, Tennessee Bethesda, Maryland

Los Angeles, California Chapel Hill, North Carolina

San Diego, California Charlottesville, Virginia

Nashville, Tennessee

Nashville, Tennessee Nashville, Tennessee

Taipei, Taiwan

Brussels, Belgium

Bronx, New York

Madison, Wisconsin Bethesda, Maryland

Toronto, Ontario, Canada

Atlanta, Georgia

Montreal, Quebec, Canada

Pittsburgh, Pennsylvania Buffalo, New York

Winnepeg, Manitoba, Canada Helsinki, Finland

Minneapolis, Minnesota

San Antonio, Texas

Trenton, New Jersey

Iowa City, Iowa

Mexico City, Mexico

Houston, Texas

Vienna, Austria

Jerusalem, Israel

Madison, Wisconsin New York City, New York

Prahran Victoria, Australia New York, New York

Brentwood, Tennessee

Minsk, Republic of Belarus

Millwood, Virginia Barcelona, Spain

Beijing, People's Republic of China

Greenville, South Carolina Chicago, Illinois

Greifswald, Germany São Paulo, Brazil Evanston, Illinois

SLACK Incorporated 6900 Grove Road Thorofare, New Jersey 08086 (856) 848-1000

Editorial Assistant

Rachel A. Steffes Circulation Manager

Lester J. Robeson, CCCP Production Director Christine Malin Production Coordinator

Joanne Patterson Vice President, U.S. Advertising

Wavne McCourt

Pharmaceutical Group Sales Director Michael LoPresti

Advertising Sales Representative Michael Raftery

Advertising Sales Coordinator Andrea Zgalich Classified/Recruitment Sales Manager

Kelly Wark Classified/Recruitment Sales Representative

Jennifer Fayter