VOLUME 19, NUMBER 5 MAY 1998

An Official Journal of The Society for Healthcare Epidemiology of America

Published for the Society by Slack Incorporated

INFECTION CONTROL AND HOSPITAL EPIDEMIOLOGY®

EDITORIAL	
Xenotransplantation: Is the Future Upon Us? Michele L. Pearson, MD; Wiliam R. Jarvis, MD; Thomas M. Folks, PhD; Louisa E. Chapman, MD	305
ORIGINAL ARTICLES	
Accuracy of Reporting Nosocomial Infections in Intensive-Care—Unit Patients to the National Nosocomial Infections Surveillance System: A Pilot Study T. Grace Emori, RN, MS; Jonathan R. Edwards, MS; David H. Culver, PhD; Catherine Sartor, MD; Leonardo A. Strouedward E. Gaunt, PhD; Teresa C. Horan, MPH; Robert P. Gaynes, MD	D, MD; 308
Use of Antibiotic Exposure to Detect Postoperative Infections Deborah S. Yokoe, MD, MPH; Mervyn Shapiro, MBChB; Elisheva Simchen, MD, MPH; Richard Platt, MD, MS	317
Stability and Bactericidal Activity of Chlorine Solutions WILLIAM A. RUTALA, PHD; EUGENE C. COLE, DRPH; CHARLOTTE A. THOMANN, MT(ASCP); DAVID J. WEBER, MD, MPH	323
Staphylococcus aureus Nasal Colonization in Patients With Cirrhosis: Prospective Assessment of Association With Infection Feng Yee Chang, MD; Nina Singh, MD; Timothy Gayowski, MD; Marilyn M. Wagener, MPH; Ignazio R. Marino, MD	328
Reduction in Vancomycin-Resistant Enterococci and Clostridium difficile Infections Following Change to Tympanic Thermometers Steven Brooks, PhD; Ashraf Khan, MPH; Dorin Stoica, MD; Jennylyn Griffith, RN; Les Friedeman, MS; Rajat Mukherji, MD; Rizwanullah Hameed, MD; Nicole Schupf, PhD, Mph	333
Influenza Immunization: Improving Compliance of Healthcare Workers Stephan Harbarth, MD; Claire-Anne Siegrist, MD; Jean-Claude Schira, MD; Werner Wunderli, MD; Didier Pittet, MD, MS	337
CONCISE COMMUNICATIONS	
Evidence for Person-to-Person Transmission of <i>Candida lusitaniae</i> in a Neonatal Intensive-Care Unit	
SANDRA L. FOWLER, MD; BETH RHOTON, RN, CIC; SHELLEY C. SPRINGER, MD; S.A. MESSER, BS; RICHARD J. HOLLIS, MA; MICHAEL A. PFALLER, MD	343
Pseudo-outbreak of Tuberculosis in an Acute-Care General Hospital: Epidemiology and Clinical Implications Wendy Cronin, MT(ASCP), MS; Evelyn Rodriguez, MD, MPH; Sarah Valway, DMD, MPH;	
SARAH BUR, RN, MPH; NANCY HOOPER, BA; RONALD SMITHWICK, MS; W. RAY BUTLER, MS; DIANE DWYER, MD	345
SPECIAL REPORT	
Report of the Council on Scientific Affairs, American Medical Association: Immunization Healthcare Workers With Varicella Vaccine James M. Lyznicki, MS, MPH; Rebecca J. Bezman, MD; Myron Genel, MD; for The Council on Scientific Affairs, American Medical Association	on of 348
EMERGING INFECTIOUS DISEASES	

Continued inside.

354

LARRY J. STRAUSBAUGH, MD; ROBERT W. PINNER, MD

Introduction

Vol. 19 No. 5 May 1998

INFECTION CONTROL AND HOSPITAL EPIDEMIOLOGY®

CONTEN

Continued from cover

EMERGING INFECTIOUS DISEASES Microbiological Hazards Related to Xenotransplantation of Porcine Organs Into Man	
Dominic C. Borie, MD; Donald V. Cramer, DVM, PhD; Luu Phan-Thanh, PhD; Jean Christophe Vaillant, MD; Jean Louis Bequet, BSc; Leonard Makowka, MD, PhD; Laurent Hannoun, MD	355
TOPICS IN LONG-TERM CARE	
Nursing Home Infection Control: A Status Report PHILIP W. SMITH, MD	366
LETTERS TO THE EDITOR Salmonella senftenberg Outbreak	
ASHRAF KHAN, MD, MPH; RICHARD GALLO, BS; RIZWANULLAH HAMEED, MD; HELAINE LEIB, RN, MPH; ALICE AGASAN PHD; LAURA KORNSTEIN, PHD; STEVEN BROOKS, PHD	298
The Stethoscope as a Potential Source of Transmission of Bacteria (with reply) Ojan Assadian, MD; Afshin Assadian, MD; Christoph Aspöck, MD; Walter Koller, MD; Itzhak Brook, MD	299
Safety Butterfly Needles for Blood Drawing Vincenzo Puro, MD; Giuseppe Ippolito, MD	300
Vancomycin Use and Monitoring in Pediatric Patients in a Community Hospital Ozlem Kahyaoglu, MD; Mustafa Arpinar, MD; Brian Nolan, MD; Susumu Inoue, MD; George Zureikat, MD; Ashir Kumar, MD	300
CORRECTIONS	304
MEDICAL NEWS GINA PUGLIESE, RN, MS; MARTIN S. FAVERO, PHD	
Community-Acquired Methicillin-Resistant Staphylococcus aureus Ventilator Circuit Changes Beyond 7 Days TB Transmission From Medical Waste' Vancomycin-Resistant Enterococci From Community Sources Influenza Virus A (H5N1) Risk Factors Hospital Epidemic of Malassezia pachydermatis Clostridium difficile on a Surgical Service Risk of Helicobacter pylori Transmission by Upper Gastrointestinal Endoscopy	322 370 370 371 371 371 372 372
SHEA NEWS MURRAY D. BATT. MD	376

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 AMERICAN ICA 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 Rd., Thorofare, NJ 08086. Telephone: (609) 848-1000.

SHEA: 19 Mantua Rd., Mt. Royal, NJ 08061; telephone, 609-423-0087; fax, 609-423-3420; e-mail address, sheahq@tmg.smarthub.com.

COPYRIGHT 1998 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-\$98.00; Two years-\$136.00; Three years-\$169.00; Institutional: One year-\$120.00; Two years-\$170.00; Three years-\$20.00. Fellows: \$49 per year with proof of training status. Canada: \$19.00 additional each year plus 7% for Canadian Goods & Services tax; all other countries: \$38.00 additional each year. Overseas surface, \$84.00 each year overseas air mail. Single copies of current issues may be obtained for \$15.00, United States and possessions; \$20.00 all other countries.

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/iche/ichehome.htm). Submit to ICHE Editorial Offices, Vanderbilt University School of Medicine, A-1131 Medical Center North, Nashville, TN 37232-2637, 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 Jennifer McGovern, SLACK Incorporated, 6900 Grove Rd., Thorofare, NJ 08086. For reprint orders and prices, contact Jennifer McGovern at (609) 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 \$.15 per page is paid directly to Copyright Clearance Center, 27 Congress St., Salem, MA 01970. 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 Rd., Thorofare, NI 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.

EDITORIAL OFFICES

Vanderbilt University School of Medicine A-1131 Medical Center North Nashville, TN 37232-2637 (615) 343-1095; (615) 343-1882 (FAX) Email: iche@mcmail.vanderbilt.edu

EDITOR

Michael D. Decker, MD, MPH

MANAGING EDITOR

Susan Cantrell

STATISTICAL EDITOR

Beverly G. Mellen, PhD

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 Murray D. Batt, MD

Clarksburg, West Virginia

Statistics for Hospital Epidemiology

David Birnbaum, PhD, MPH

Sidney, British Columbia, Canada

Topics in Long-Term Care Philip W. Smith, MD

Omaha, Nebraska

Publisher

John C. Carter

Editorial Director

Production Editor

Shirley P. Strunk, ELS

Jennifer Kilpatrick

Topics in Occupational Medicine

Vice President/Group Publisher Richard N. Roash

David Weber, MD, MPH

Chapel Hill, North Carolina

INFECTION CONTROL AND HOSPITAL EPIDEMIOLOGY®

EDITORIAL ADVISORY BOARD

Jacques F. Acar, MD

J. Wesley Alexander, MD

Cincinnati, Ohio

Paris, France

Paul Arnow, MD Chicago, Illinois Graham A.J. Ayliffe, MD

Birmingham, United Kingdom Neil L. Barg, MD Yakima, Washington

Elizabeth Ann Bolyard, RN, MPH, CIC Atlanta, Georgia

John M. Boyce, MD Providence, Rhode Island

Professor Dr. Ilja Braveny Munich, Federal Republic of Germany

Charles Bryan, MD Columbia, South Carolina Creteil, France Christian Brun-Buisson, MD

Donald E. Craven, MD Boston, Massachusetts

Sue Crow, MSN, RN, CIC Shreveport, Louisiana

Franz Daschner, MD Freiburg, Federal Republic of Germany Leigh G. Donowitz, MD

Charlottesville, Virginia Milwaukee, Wisconsin

Beer Sheva, Israel

Nashville, Tennessee

Bethesda, Maryland

San Diego, California

Nashville, Tennessee Nashville, Tennessee

Nashville, Tennessee

Brussels, Belgium

Bronx, New York

Madison, Wisconsin

Bethesda, Maryland

Atlanta, Georgia

Brussels, Belgium

Buffalo, New York

Helsinki, Finland

Iowa City, Iowa

Houston, Texas

Vienna, Austria

Ierusalem, Israel

San Antonio, Texas

Trenton, New Jersey

Mexico City, Mexico

Madison, Wisconsin New York City, New York

Prahran Victoria, Australia

New York, New York

Brentwood Tennessee Minsk, Republic of Belarus

Millwood, Virginia

Barcelona, Spain

Toronto, Ontario, Canada

Montreal, Quebec, Canada

Pittsburgh, Pennsylvania

Minneapolis, Minnesota

Winnepeg, Manitoba, Canada

Munich, Federal Republic of Germany

Atlanta, Georgia

Taipei, Taiwan

Charlottesville, Virginia

Atlanta, Georgia

Farmington, Connecticut

Los Angeles, California Chapel Hill, North Carolina

Charles E. Edmiston, Jr., PhD Theodore C. Eickhoff, MD Denver, Colorado

Bruce Farber, MD Manhasset, New York

St. Louis, Missouri

Victoria J. Fraser, MD Black Butte, Oregon

Peter C. Fuchs, MD, PhD

Richard A. Garibaldi, MD

Velvl Greene, PhD, MPH

Robert Gaynes, MD

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 William R. Jarvis, MD

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

Professor Dr. Walter Marget William J. Martone, MD

Allison McGeer, MD

John E. McGowan, Jr., MD

Jonathan L. Meakins, MD, DSc Raf Mertens, MD

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

Greenville, South Carolina Chicago, Illinois Greifswald, Federal Republic of Germany

Beijing, People's Republic of China

São Paulo, Brazil

Evanston, Illinois

SLACK Incorporated 6900 Grove Road Thorofare, New Jersey 08086 (609) 848-1000

Assistant Editor Eileen C. Anderer

Circulation Manager Lester J. Robeson, CCCP

Production Director Christine Malin

Production Coordinator

Publishing Director/ Advertising Wayne McCourt

Pharmaceutical Group Sales Director

Michael LoPresti Advertising Sales Representative

Classified/Recruitment Sales Manager Michele Burch