VOLUME 16, NUMBER 2 FEBRUARY 1995
The Official Journal of The Society for Healthcare Epidemiology of America

INFECTION CONTROL AND HOSPITAL EPIDEMIOLOGY™

EDITORIAL

Antibiotic-Resistant Bacteria and Healthcare Systems: Four Steps for Effective Response
JOHN E. MCGOWAN, JR, MD 67

ORIGINAL ARTICLES

Ciprofloxacin Resistance Among Nosocomial *Pseudomonas aeruginosa* and *Staphylococcus aureus* in the United States
VICTOR G. CORONADO, MD; JONATHAN R. EDWARDS, MS; DAVID H. CULVER, PHD; ROBERT P. GAYNES, MD; AND THE NATIONAL NOSOCOMIAL INFECTIONS SURVEILLANCE (NNIS) SYSTEM 71

Association of Legionnaires' Disease with Construction: Contamination of Potable Water?
LEONARD A. MERMEL, DO, SCM; STEPHEN L. JOSEPHSON, PHD; CHRISTINA H. GIORGIO, BS; JANE DEMPSEY, RN, MS, CIC; STEPHEN PARENTEAU, MT(ASCP), MS 76

A Pseudoepidemic Due to Laboratory Contamination Deciphered by Molecular Analysis
THOMAS MORRIS, MD; STEPHEN M. BRECHER, PHD; DIANNE FITZSIMMONS, BS; ANNETTE DURBIN, BS; ROBERT D. ARBEIT, MD; JOEL N. MASLOW, MD, PHD 82

Immunization with High-Dose Intradermal Recombinant Hepatitis B Vaccine in Healthcare Workers Who Failed to Respond to Intramuscular Vaccination
ROBERT E. LEVITZ, MD; BRIAN W. COOPER, MD; HELEN C. REGAN, RN 88

Nosocomial Outbreak Caused by a Multiresistant Clone of *Acinetobacter baumannii*: Results of the Case-Control and Molecular Epidemiologic Investigations
E.G. SCERPELLA; A.R. WANGER; L. ARMITIGE; P. ANDERLINI; C.D. ERICSSON 92

PRACTICAL HEALTHCARE EPIDEMIOLOGY

An Introduction to Practical Healthcare Epidemiology
LOREEN A. HERWALDT, MD 98

Epidemiologic Approaches to Quality Assessment
BRYAN P. SIMMONS, MD; STEPHEN B. KRITCHEVSKY, PHD 101

SPECIAL REPORT FROM THE HICPAC

Recommendations for Preventing the Spread of Vancomycin Resistance
Hospital Infection Control Practices Advisory Committee 105

LETTERS TO THE EDITOR

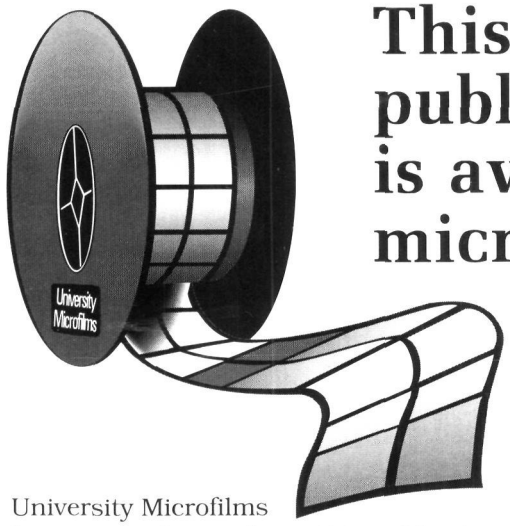
Enterobacter Plasmids: Molecular Epidemiology (with Reply)
JOSEPH F. JOHN, JR, MD; WILLIAM R. JARVIS, MD 63

CDAD Rates (with Reply)
FARRIN A. MANIAN, MD, MPH; LYNN MEYER, RN, MPH; MARY M. OLSON, RN; CAROL J.SHANHOLTZER, MT; JAMES T. LEE, JR, MD; DALE N. GERDING, MD 63

Defining Catheter-Related Infections (with Reply)
DANIEL A. NAFZIGER, MD, MS; ISSAM RAAD, MD, FACP 65

Continued inside.

https://doi.org/10.1086/647054 Published online by Cambridge University Press



This publication is available in microform.

University Microfilms International reproduces this publication in microform: microfiche and 16mm or 35mm film. For information about this publication or any of the more than 13,000 titles we offer, complete and mail the coupon to: University Microfilms International, 300 N. Zeeb Road, Ann Arbor, MI 48106. Call us toll-free for an immediate response: 800-521-3044. Or call collect in Michigan, Alaska and Hawaii: 313-761-4700.

University Microfilms International

Please send information about these titles

Name

Company/Institution

Address

City

State

Zip

Telephone

Classified Marketplace

re•sponse \ri-`spän(t)s\

That's what you want from a classified ad. And Classified Marketplace lets you reach the audience you want-cost effectively-to get you the response you need.

- Employment Opportunities
- Positions Wanted
- Meetings
- Services
- Educational Opportunities
- For Sale/For Rent
- Miscellaneous
- Wanted

RATES

Typesetting Available

Line Advertising - $23 per line, $138 minimum

Classified advertising is non-commissionable

Contact our Classified Advertising Representative

for help in placing your customized ad message:

Call toll-free

1-800-257-8290

FAX #609-853-5991

VISA MasterCard

or send typed copy to:

INFECTION CONTROL AND HOSPITAL EPIDEMIOLOGY™

Donna Coles
6900 Grove Road
Thorofare, NJ 08086-9447

https://doi.org/10.1086/647054 Published online by Cambridge University Press

Vol. 16 No. 2 February 1995

INFECTION CONTROL AND HOSPITAL EPIDEMIOLOGY™

CONTENTS

Continued from cover.

BOOK REVIEWS

Cross Infection Control in Dentistry, a Practical Illustrated Guide (PR Wood)
DAVID BIRNBAUM, PHD, MPH 114

MEDICAL NEWS

GINA PUGLIESE, RN, MS

CDC Releases Final 1993 TB Report 115
Plans Under Way to Centralize AIDS Program Within CDC 115
Court Says Hospital May Restrict Surgeon with HIV 115
Divergent Strains of HIV-1 Not Detected Reliably by HIV Antibody Tests 115
New Publication Focuses on Healthcare Worker Safety 116
AHA Asks Joint Commission to Clarify Role 116
CDC Responds to Media Reports That Florida Dentist Not Source of HIV Infection for Six Patients 116
DOT Simplifies Requirements for Transport of Medical Waste 117
CDC Rates the Level of Sanitation of Cruise Ships 117

SHEA NEWS

C. GLEN MAYHALL, MD

Workshop on Antimicrobial Resistance in Hospitals 118

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

COPYRIGHT 1995 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—$95.00; Two years—$130.00; Three years—$160.00; Institutional: One year—$105.00; Two years—$145.00; Three years—$185.00. Fellows: $20 per year with proof of training status. Canada: $18.00 additional each year plus 7% for Canadian Goods & Services tax; all other countries: $36.00 additional each year. Single copies of current issues may be obtained for $15.00, United States and possessions; $30.00 all other countries.

REPRINTS: All requests to reprint or use material published herein should be addressed to Dan Boyden, SLACK Incorporated, 6900 Grove Rd., Thorofare, NJ 08086. For reprint orders and prices, contact Lester Robeson 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 six weeks in advance of effective date. Include old and new addresses with zip codes. The publisher cannot accept responsibility for undelivered copies. Second-class postage is paid at Thorofare, New Jersey 08086, and additional entry points. **POSTMASTER:** Send address changes to SLACK Incorporated, 6900 Grove Rd., 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, and Laboratory Performance Information Exchange System.

https://doi.org/10.1086/647054 Published online by Cambridge University Press

Vol. 16 No. 2 February 1995

Editorial Offices
Vanderbilt University School of Medicine
A-1131 Medical Center North
Nashville, TN 37232-2637
(615) 343-1095
(615) 343-1882 (FAX)

EDITOR
Michael D. Decker, MD, MPH

MANAGING EDITOR
Susan Cantrell

STATISTICAL EDITOR
George W. Reed, PhD

EDITORIAL COMMITTEE
Martin J. Blaser, MD
David W. Gregory, MD
Allen B. Kaiser, MD
Douglas S. Kernodle, MD
Robert H. Latham, MD
Lewis B. Lefkowitz, MD
Charles W. Stratton, MD
Clyde Thornsberry, PhD

SENIOR ASSOCIATE EDITORS
Donald A. Goldmann, MD
Boston, Massachusetts

C. Glen Mayhall, MD
Galveston, Texas

William Schaffner, MD
Nashville, Tennessee

ASSOCIATE EDITOR
Sue Crow, MSN, RN, CIC
Shreveport, Louisiana

SECTION EDITORS
AIDS
David K. Henderson, MD
Bethesda, Maryland

Beyond Infection Control: The New Hospital Epidemiology
Bryan P. Simmons, MD
Stephen B. Kritchevsky, PhD
Memphis, Tennessee

Global Aspects of Infection Control
Mary D. Nettleman, MD
Iowa City, Iowa

Medical News
Gina Pugliese, RN, MS
Chicago, Illinois

Molecular Hospital Epidemiology
Neil L. Barg, MD
Ann Arbor, Michigan

Organizations Pertinent to Infection Control
Marguerite McMillan Jackson, RN, MS, CIC, FAAN
San Diego, California

Product Commentary
Sue Crow, MSN, RN, CIC
Shreveport, Louisiana

SHEA News
C. Glen Mayhall, MD
Galveston, Texas

Statistics for Hospital Epidemiology
David Birnbaum, PhD, MPH
Sidney, British Columbia, Canada

Topics in Clinical Microbiology
Charles W. Stratton, MD
Nashville, Tennessee

Topics in Long-Term Care
David W. Bentley, MD
Buffalo, New York

Topics in Occupational Medicine
William A. Rutala, PhD, MPH
David Weber, MD, MPH
Chapel Hill, North Carolina

Tuberculosis
Michael L. Tapper, MD
New York, New York

INFECTION CONTROL AND HOSPITAL EPIDEMIOLOGY™

EDITORIAL ADVISORY BOARD

J. Wesley Alexander, MD	Cincinnati, Ohio
Paul Arnow, MD	Chicago, Illinois
Elizabeth Ann Bolyard, RN, MPH, CIC	Atlanta, Georgia
Charles S. Bryan, MD	Columbia, South Carolina
Donald E. Craven, MD	Boston, Massachusetts
Richard E. Dixon, MD, FACP	Berkeley, California
Leigh G. Donowitz, MD	Charlottesville, Virginia
Theodore C. Eickhoff, MD	Denver, Colorado
Bruce Farber, MD	Manhasset, New York
Martin S. Favero, PhD	Atlanta, Georgia
Peter C. Fuchs, MD, PhD	Portland, Oregon
Richard A. Garibaldi, MD	Farmington, Connecticut
Loreen A. Herwaldt, MD	Iowa City, Iowa
Peter N.R. Heseltine, MD	Los Angeles, California
Karen Hoffmann, RN, CIC, MS	Chapel Hill, North Carolina
Janine Jagger, MPH, PhD	Charlottesville, Virginia
Elaine Larson, PhD, RN	Baltimore, Maryland
Victor Lorian, MD	Bronx, New York
Dennis G. Maki, MD	Madison, Wisconsin
William J. Martone, MD	Atlanta, Georgia
John E. McGowan, Jr., MD	Atlanta, Georgia
Michael T. Osterholm, PhD, MPH	Minneapolis, Minnesota
Michael A. Pfaller, MD	Portland, Oregon
William E. Scheckler, MD	Madison, Wisconsin
Walter E. Stamm, MD	Seattle, Washington
Timothy R. Townsend, MD	Baltimore, Maryland
Robert A. Weinstein, MD	Chicago, Illinois

INTERNATIONAL ADVISORY BOARD

Jacques F. Acar, MD	Paris, France
George Berencsi, MD	Szeged, Hungary
Christian Brun-Buisson, MD	Créteil, France
Franz Daschner, MD	Freiburg, Federal Republic of Germany
Velvl Greene, PhD, MPH	Beer Sheva, Israel
Professor Wlodzimierz B. Kedzia	Sieroca, Poland
Professor Alexi P. Krasilnikow	Minsk, USSR
Hsieh-Shong Leu, MD, MSc	Taipei, Taiwan
Jack Levy, MD	Brussels, Belgium
Professor Dr. Walter Marget	Munich, Federal Republic of Germany
Jonathan L. Meakins, MD, DSc	Montreal, Canada
Bertil Nyström, MD	Huddinge, Sweden
Juhani Ojajärvi, MD	Helsinki, Finland
Ian Phillips, MA, MD, MRCPath	London, England
Didier Pittet, MD, MS	Geneva, Switzerland
Samuel Ponce de Leon, MD, MSc	Mexico City, Mexico
Hans Reber, MD	Basel, Switzerland
Manfred L. Rotter, MD, DipBact	Vienna, Austria
Theodore Sacks, MD	Jerusalem, Israel
Denis Spelman, MD	Victoria, Australia
Dr. Bernhard M. Thimm	Ulm, Federal Republic of Germany
Antoni Trilla, MD, PhD	Barcelona, Spain
Professor Dr. med. H.P. Werner	Mainz, Federal Republic of Germany
Professor Dr. W. Weuffen	Greifswald, Federal Republic of Germany
Sergio B. Wey, MD	Sao Paulo, Brazil
Andreas Widmer, MD	Basel, Switzerland

SLACK

SLACK Incorporated
6900 Grove Road
Thorofare, New Jersey 08086

Vice President/Group Publisher
Richard N. Roash

Publishing Director/Editorial
Donna O. Carpenter

Managing Editor
Dawn Duperre

Associate Editor
Lillian Goldy

Publishing Director/Marketing
John C. Carter

Circulation Manager
Lester J. Robeson

Production Manager
Chris Dorsen

Production Coordinator
Joanne Patterson

Publishing Director/Advertising
Wayne McCourt

Advertising Sales Coordinator
Marianna Loughrey

Classified Advertising Representative
Sue Waters

https://doi.org/10.1086/647054 Published online by Cambridge University Press