

INFECTION CONTROL AND HOSPITAL EPIDEMIOLOGY[®]

EDITORIALS

- Methicillin-Resistant Staphylococcus aureus* 9
ALAN I. HARTSTEIN, MD; THOMAS T. WARD, MD

- Infection Control and Hospital Epidemiology: The Formal Review Process 11
ROBYN R. HEPKER, MS

ORIGINAL ARTICLES

- Mechanisms of Methicillin Resistance in *Staphylococcus aureus* and Methods for Laboratory Detection 14
JAMES H. JORGENSEN, PHD

- Epidemiologic and Clinical Utility of Typing Systems for Differentiating Among Strains of Methicillin-Resistant *Staphylococcus aureus* 20
MAURY E. MULLIGAN, MD; ROBERT D. ARBEIT, MD

- Treatment of Infection and Colonization Caused by Methicillin-Resistant *Staphylococcus aureus* 29
HENRY F. CHAMBERS, MD

- Methicillin-Resistant *Staphylococcus aureus* in Extended-Care Facilities: Experiences in a Veterans' Affairs Nursing Home and a Review of the Literature 36
LARRY J. STRAUSBAUGH, MD; CLEONE JACOBSON, RN, CIC; DAVID L. SEWELL, PHD; SUSAN POTTER, MT; THOMAS T. WARD, MD

- Should We Vigorously Try to Contain and Control Methicillin-Resistant *Staphylococcus aureus*? 46
JOHN M. BOYCE, MD

TOPICS IN LONG-TERM CARE

- Infection Surveillance in Long-Term Care Facilities 55
PHILIP W. SMITH, MD

SPECIAL REVIEW

- Nosocomial Transmission and Infection Control Aspects of Parasitic and Ectoparasitic Diseases: Part I. Introduction/Enteric Parasites 59
LUDWIG A. LEITAU, MD, MPH

LETTERS TO THE EDITOR

- Infection Control Software (And Reply) 4
LUDWIG A. LETTAU, MD, MPH

- SHEA NEWSLETTER** 67

INFECTION CONTROL AND HOSPITAL EPIDEMIOLOGY

CONTENTS

EDITORIALS

- Methicillin-Resistant *Staphylococcus aureus* 9

ALAN I. HARTSTEIN, MD; THOMAS T. WARD, MD

- Infection Control and Hospital Epidemiology: The Formal Review Process 11

ROBYN R. HEPKER, MS

ORIGINAL ARTICLES

- Mechanisms of Methicillin Resistance in *Staphylococcus aureus* and Methods for Laboratory Detection 14

JAMES H. JORGENSEN, PhD

- Epidemiologic and Clinical Utility of Typing Systems for Differentiating Among Strains of Methicillin-Resistant *Staphylococcus aureus* 20

MAURY E. MULLIGAN, MD; ROBERT D. ARBEIT, MD

- Treatment of Infection and Colonization Caused by Methicillin-Resistant *Staphylococcus aureus* 29

HENRY F. CHAMBERS, MD

- Methicillin-Resistant *Staphylococcus aureus* in Extended-Care Facilities: Experiences in a Veterans' Affairs Nursing Home and a Review of the Literature 36

LARRY J. STRAUSBAUGH, MD; CLEONE JACOBSON, RN, CIC; DAVID L. SEWELL, PhD;

SUSAN POTTER, MT; THOMAS T. WARD, MD

- Should We Vigorously Try to Contain and Control Methicillin-Resistant *Staphylococcus aureus*? 46

JOHN M. BOYCE, MD

TOPICS IN LONG-TERM CARE

- Infection Surveillance in Long-Term Care Facilities 55

PHILIP W. SMITH, MD

SPECIAL REVIEW

- Nosocomial Transmission and Infection Control Aspects of Parasitic and Ectoparasitic Diseases: Part I. Introduction/Enteric Parasites 59

LUDWIG A. LEITAU, MD, MPH

DEPARTMENTS

- Letters to the Editor 4

- Correction 5

- Information for Authors 6

- Copyright Release Form 66

- SHEA Newsletter 67

- Classified Marketplace Cover 3

THE PUBLICATION OF ADVERTISING IN THE JOURNAL DOES NOT CONSTITUTE ANY GUARANTEE OR ENDORSEMENT BY THE SOCIETY FOR HOSPITAL 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) is published exclusively by SLACK Incorporated 12 times a year. Address: 6900 Grove Rd., Thorofare, NJ 08086. Telephone: (609) 848-1000.

COPYRIGHT 1991 by The Society for Hospital Epidemiology of America, Inc. and SLACK Incorporated. All rights reserved. No part of this publication may be reproduced without written permission from the publisher.

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—\$70.00; Two years—\$105.00; Three years—\$135.00; Institutional: One year—\$80.00; Two years—\$120.00; Three years—\$160.00. Canada: \$18.00 additional each year; all other countries: \$36.00 additional each year. Single copies of current issues may be obtained for \$8.00, United States and possessions; \$16.00 all other countries.

REPRINTS: All requests to reprint or use material published herein should be addressed to Lester J. Robeson, SLACK Incorporated, 6900 Grove Rd., Thorofare, NJ 08086. For reprint orders and prices, contact Fran Micaletti 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.

As of Volume 1, Number 1, INFECTION CONTROL AND HOSPITAL EPIDEMIOLOGY is listed in Index Medicus, Current Contents—Clinical Practice, Hospital Literature Index, Cumulative Index to Nursing and Allied Health Literature, and Nursing Abstracts.

Editorial Offices
C41 General Hospital
University of Iowa Hospitals and Clinics
Iowa City, Iowa 52242
(319) 3560464

EDITOR

Richard P. Wenzel, MD, MSc

UNIVERSITY OF IOWA

EDITORIAL ADVISORY BOARD

William J. Hausler, Jr., PhD
Michael A. Pfaller, MD
Leon F. Burmeister, PhD

MANAGING EDITOR

Robyn Hepker, MS

SENIOR ASSOCIATE EDITOR

William Schaffner, MD
Nashville, Tennessee

ASSOCIATE EDITORS

Sue Crow, MSN, RN, CIC
Shreveport, Louisiana
John E. McGowan, Jr., MD
Atlanta, Georgia
Dennis G. Maki, MD
Madison, Wisconsin

SECTION EDITORS

AIDS

David K. Henderson, MD
Bethesda, Maryland

Clinical Pharmacology of Antibiotics

W. Michael Scheld, MD
Charlottesville, Virginia

Emporiatrics

Mary D. Nettleman, MD
Iowa City, Iowa

Novel Applications for
Hospital Epidemiology
Michael D. Decker, MD
Nashville, Tennessee

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

SHEA Newsletter

Robert A. Weinstein, MD
Chicago, Illinois

Statistics for Hospital Epidemiology

Leon F. Burmeister, PhD
Iowa City, Iowa

Topics in Clinical Epidemiology

Walter J. Hierholzer, Jr., MD
William Credé, MD
New Haven, Connecticut

Topics in Clinical Microbiology

Charles W. Stratton, MD
Nashville, Tennessee

Topics in Long-Term Care

David W. Bentley, MD
Buffalo, 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	Baltimore, Maryland
Charles S. Bryan, MD	Columbia, South Carolina
Donald E. Craven, MD	Boston, Massachusetts
Richard E. Dixon, MD, FACP	Trenton, New Jersey
Leigh G. Donowitz, MD	Charlottesville, Virginia
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
Donald A. Goldmann, MD	Boston, Massachusetts
Dieter H.M. Gröschel, MD	Charlottesville, Virginia
Karen Hoffmann, RN, CIC	Chapel Hill, North Carolina
Peter N.R. Heseltine, MD	Los Angeles, California
Karen Hoffmann, RN, CIC	Chapel Hill, North Carolina
Elaine Larson, PhD, RN	Baltimore, Maryland
Victor Lorian, MD	Bronx, New York
William J. Martone, MD	Atlanta, Georgia
C. Glen Mayhall, MD	Memphis, Tennessee
Michael T. Osterholm, PhD, MPH	Minneapolis, Minnesota
James E. Peacock, Jr., MD	Winston-Salem, North Carolina
William A. Rutala, PhD, MPH	Chapel Hill, North Carolina
William E. Scheckler, MD	Madison, Wisconsin
Walter E. Stamm, MD	Seattle, Washington
George H. Talbot, MD	Philadelphia, Pennsylvania
Timothy R. Townsend, MD	Baltimore, Maryland

INTERNATIONAL ADVISORY BOARD

Jacques F. Acar, MD	Paris, France
Graham Ayliffe, MD, FRCPATH	Birmingham, England
George Berencsi, MD	Szeged, Hungary
David Bimbaum, MPH	Sidney, British Columbia, Canada
Christian Brun-Buisson, MD	Creteil, France
Franz Daschner, MD	Freiburg, Federal Republic of Germany
E. Lee Ford-Jones, MD, FRCP(C)	Toronto, Canada
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
Malcolm I. McDonald, FRACP, FRCPA	Malvern, Australia
Jonathan L. Meakins, MD, DSc, FRCS, FACS	Montreal, Canada
Bertil Nyström, MD	Huddinge, Sweden
Juhani Ojajarvi, MD	Helsinki, Finland
Ian Phillips, MA, MD, MRCPATH	London, England
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
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

SLACK

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

Vice President/Publisher
Richard N. Roash

Associate Publisher/Editorial
Donna O. Carpenter

Managing Editor
Mary Lou Jerrell

Assistant Editor
Fran DeStefano

Marketing Manager
John C. Carter

Circulation Manager
Lester J. Robeson

Production Manager
Mary Jane Mooney

Associate Publisher/
Advertising
Wayne M. McCourt

Advertising Sales
Representative
Betsy Kelton

Advertising Sales
Coordinator
Michael LoPresti

Classified Advertising
Representative
Donna M. Coles

Production Coordinator
Joanne Patterson

"Synergism.."

Synergism is the working relationship between two ingredients which results in performance superior to that achieved by each ingredient working separately.

Synergism is Sporcidin. Glutaraldehyde combined with an alkaline phenate system produces superior disinfecting properties.* Patented Sporcidin disinfects with substantially less glutaraldehyde than other products.

Synergism makes Sporcidin tuberculocidal in only ten minutes at room temperature, 68° F and above, when diluted 1:16. Other alkaline glutaraldehyde products cannot be diluted and/or require longer contact times with heating to 77° F.

Sporcidin fulfills the CDC definition of high level disinfection using the lowest concentration of glutaraldehyde... because of Synergism.

** Journal of Clinical Microbiology,
November 1985, p. 735 - 739*



Sporcidin
INTERNATIONAL

12000 Old Georgetown Road, Rockville, Maryland 20847