

INFECTION CONTROL AND HOSPITAL EPIDEMIOLOGY[®]

EDITORIAL

- Nosocomial Infections Surveillance 194
 PHILIP S. BRACHMAN, MD

ORIGINAL ARTICLES

- Selective Surveillance for Nosocomial Infections in a Brazilian Hospital 197
 NOELIA L. LIMA, MD, MSC; CLAUDIA R.B. PERIERA, RN; ISABEL C. SOUZA, RN; MONICA C. FACANHA, MD;
 ALDO A.M. LIMA, MD, PHD; RICHARD L. GUERRANT, MD; BARRY . FARR, MD, MSC

- Klebsiella pneumoniae Infection on a Rehabilitation Unit: Comparison of
 Epidemiologic Typing Methods 203
 W. THOMPSON, MD; L. ROMANCE, RN; H. BIALKOWSKA-HOBRAKANSKA, PHD; R.P. RENNIE, MD;
 F. ASHTON, PHD; L.E. NICOLLE, MD

- Validation of Surgical Wound Surveillance 211
 DENISE M. CARDO, MD; PAMELA S. FALK, MPH; C. GLEN MAYHALL, MD

- Comparison of Patient Telephone Survey with Traditional Surveillance and Monthly
 Physician Questionnaires in Monitoring Surgical Wound Infections 216
 FARRIN A. MANIAN, MD, MPH; LYNN MEYER, RN, MPH, CIC

TOPICS IN LONG-TERM CARE

- Urinary Tract Infections in Long-Term Care Facilities 220
 L.E. NICOLLE, MD

READERS' FORUM

- A Needleless Intravenous System:
 An Effective Risk Management Strategy 226
 JEAN RUTOWSKI, BSN, RN; SUSAN L. PETERSON, MS, BSN, RN

AIDS

- Tuberculosis in the Healthcare Setting in the 1990s:
 From Bird Island to the Bronx 228
 SUSAN E. BEEKMAN, RN, MPH; MICHAEL T. OSTERHOLM, PHD, MPH; DAVID K. HENDERSON, MD

LETTERS TO THE EDITOR

- Nonclinical Epidemiologists Concerned About Quality
 in Healthcare (with Reply) 191
 DAVID BIRNBAUM, MPH, PHD; BRYAN SIMMONS, MD; MICHAEL MASSANARI, MD, MS

- Cooperation Needed to Control TB (with Reply) 191
 JEFFREY GLASSWORTH, MD; JOHN E. MCGOWAN, JR., MD

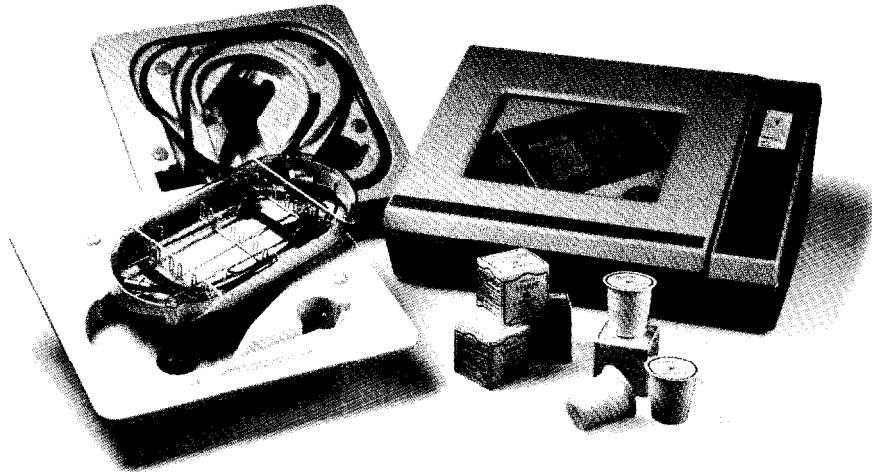
- TB Test Results May Be Skewed (with Reply) 192
 SAMUEL PONCE DE LEON, MD, MSC; JULIO MOLINA, MD; JULIO A. RAMIREZ, MD

- Responsibilities of Infection Control Practitioners (with Reply) 193
 GINGER PANCHO, MPH; JULIE LOUISE GERBERDING, MD, MPH

- SHEA NEWS 243

Concerned About Glutaraldehyde & EtO?

After all, chemicals that
make instruments safe for use
should not be unsafe
for you to use.



That's why we developed STERIS 20:" our proven, safe, and effective sterilant formulation for use in the STERIS PROCESS:"

No toxic fumes or emissions, and no disposal restrictions.

Even expensive, delicate scopes, cameras, and other reusable minimally invasive instruments can be rapidly and safely sterilized and ready for use in less than 30 minutes-just In Time for each patient procedure.

The STERIS PROCESS
The Proven Process
Just In Time

STERIS®



STERIS CORPORATION
9450 Pineneedle Drive ■ Mentor, OH 44060
1-800-JIT-4-USE (1-800-548-4873)

The Leader In Site-Of-Use Sterile Processing Systems.

Answers To Commonly Asked Questions About the STERIS PROCESS™

STERIS 20™ STERILANT CONCENTRATE

Q. How is STERIS 20 different from other “cold sterilants” like glutaraldehyde? Q. How can STERIS 20 be so strong and still be safe to use?

A. STERIS 20 is a single-use sterilant developed specifically for the STERIS PROCESS. Many other so-called “cold sterilants,” including glutaraldehyde, are typically used only to disinfect-not sterilize. Glutaraldehyde is normally reused and, therefore, may become contaminated and/or diluted.

STERIS 20 employs peracetic acid as the active sterilizing agent. Peracetic acid is a highly biocidal oxidizer which maintains its efficacy even in the presence of high levels of organic soil. Additionally, STERIS 20 use dilution has a low surface tension, making it very effective at reaching contaminated surfaces. The STERIS PROCESS sterilizes without the toxic chemicals and other hazards associated with glutaraldehyde or EtO.

A. STERIS 20 is packaged in patented single use containers which are safe to ship and store. The STERIS 20 use dilution is automatically prepared within the environmentally sealed processing chamber and is disposed in an ordinary drain during the standard processing cycle, eliminating operator exposure to chemicals.

The STERIS 20 use dilution is non-toxic. After use, the peracetic acid quickly decomposes into acetic acid (vinegar) and oxygen. STERIS 20 use dilution is so environmentally safe that it has passed the stringent fish toxicity test required by the U.S. EPA and the State of California.

Q. How is STERIS 20 used?

A. STERIS 20 is part of STERIS SYSTEM 1™—a complete sterile processing system. Operation of the SYSTEM 1 Processor is automated and standardized. You simply load your precleaned items, insert a sealed container of STERIS 20, close the lid and press the start button. STERIS 20 is automatically diluted, and the use dilution sterilizes in just 12 minutes. The total processing cycle time, including sterile rinses, is under 30 minutes.

Q. Is STERIS 20 safe for my scopes and other sensitive devices?

A. Yes, in addition to peracetic acid, STERIS 20 contains a specially developed proprietary anti-corrosion formulation which makes the use dilution pH neutral and gives it a high degree of materials compatibility. In fact, one of the advantages of a liquid processing system over gaseous systems is that the anti-corrosives can be incorporated in the chemical formulation.

Each day, thousands of users prove the compatibility of the STERIS PROCESS by safely sterilizing a wide variety of scopes, cameras, instruments, and accessories with STERIS SYSTEM 1.

STERIS Corporation develops, manufactures, and markets sterile processing and infection prevention systems for the worldwide healthcare market. STERIS™ is committed to providing products which improve patient and worker safety. If you would like more information about STERIS or STERIS SYSTEM 1, please write us or call 1-800-JIT-4-USE (1-800-548-4873).

Paid Advertisement

STERIS®




Membership Application

The Society for Hospital Epidemiology of America



Name _____

Degree MD PhD Other _____

Title (in hospital epidemiology) _____

Institution(s) name and address _____

City State Zip code

Business telephone (_____) Fax (_____) _____

Area of interest within hospital epidemiology

- Hospital-acquired pneumonia
- Intravascular device-associated infection
- Nosocomial urinary tract infection
- Other (specify) _____

Bed size _____ Category El Non-Teaching Cl Teaching

Home address _____

City State Zip code

Home telephone (_____) _____

Indicate preferred address for membership directory Home Business

Membership fees

Non-US members please pay with draft for US dollars.

Active membership-Calendar year dues: \$85

Applicants must hold a doctoral degree and should either work in the field of hospital epidemiology or have a direct interest in hospital epidemiology.

CI Associate membership-Calendar year dues: \$35 Fellowship ends (month)____/(year)_____

Applicants must hold a doctoral degree and be participating in an appropriate training program in the field of hospital epidemiology. **Proof** of training must accompany this application.

Your membership fee includes a subscription to the Society's official journal
Infection Control and Hospital Epidemiology.

Please make checks payable to The Society for Hospital Epidemiology of America.

Send application and remittance to:

SHEA Membership
875 Kings Highway, Suite 200
West Deptford, NJ 08096
(609) 845-7220
(609) 853-0411 FAX

INFECTION CONTROL AND HOSPITAL EPIDEMIOLOGY

CONTENTS

EDITORIAL

Nosocomial Infections Surveillance 194

PHILIP S. BRACHMAN, MD

ORIGINAL ARTICLES

Selective Surveillance for Nosocomial Infections in a Brazilian Hospital 197

NOELIA L. LIMA, MD, MSC; CLAUDIA R.B. PEREIRA, RN; ISABEL C. SOUZA, RN;
MONICA C. FACANHA, MD; ALDO A.M. LIMA, MD, PHD; RICHARD L. GUERRANT, MD;
BARRY M. FARR, MD, MSC

Klebsiella pneumoniae Infection on a Rehabilitation Unit: Comparison of Epidemiologic
Typing Methods 203

W. THOMPSON, MD; L. ROMANCE, RN; H. BIALKOWSKA-HOBRAZANSKA, PHD;
R.P. RENNIE, MD; F. ASHTON, PHD; L.E. NICOLLE, MD

Validation of Surgical Wound Surveillance 211

DENISE M. CARDO, MD; PAMELA S. FALK, MPH; C. GLEN MAYHALL, MD

Comparison of Patient Telephone Survey with Traditional Surveillance and Monthly Physician
Questionnaires in Monitoring Surgical Wound Infections 216

FARRIN A. MANIAN, MD, MPH; LYNN MEYER, RN, MPH, CIC

TOPICS IN LONG-TERM CARE

Urinary Tract Infections in Long-Term Care Facilities 220

L.E. NICOLLE, MD

AIDS

Tuberculosis in the Healthcare Setting in the 1990s: From Bird Island to the Bronx 228

SUSAN E. BEEKMANN, RN, MPH; MICHAEL T. OSTERHOLM, PhD, MPH; DAVID K. HENDERSON,
MD

DEPARTMENTS

Information for Authors 189

Letters to the Editor 191

Readers' Forum 226

Book Reviews 233

Medical News 235

Calendar of Events 241

SHEA News 243

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, 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 1993 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. 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-\$80.00, Two years-\$115.00; Three years-\$145.00; Institutional: One year-\$90.00; Two years-\$130.00; Three years-\$170.00. 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; \$20.00 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 Lester T. Robeson at (609) 8481000. 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.

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

Topics in Occupational Medicine

David Weber, MD, MPH

Chapel Hill, North Carolina

INFECTION CONTROL AND HOSPITAL EPIDEMIOLOGY[®]

EDITORIAL ADVISORY BOARD

- Jacques F. Acar, MD Paris, France
J. Wesley Alexander, MD Cincinnati, Ohio
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
Christian Brun-Buisson, MD Creteil, France
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
Charles E. Edmiston, Jr., PhD Milwaukee, Wisconsin
Theodore C. Eickhoff, MD Denver, Colorado
Bruce Farber, MD Manhasset, New York
Victoria J. Fraser, MD St. Louis, Missouri
Peter C. Fuchs, MD, PhD Black Butte, Oregon
Richard A. Garibaldi, MD Farmington, Connecticut
Velvl Greene, PhD, MPH Beer Sheva, Israel
Robert Gaynes, MD Atlanta, Georgia
David W. Gregory, MD Nashville, Tennessee
David K. Henderson, MD Bethesda, Maryland
Peter N.R. Heseltine, MD Los Angeles, California
Karen Hoffmann, RN, CIC, MS Chapel Hill, North Carolina
Marguerite McMillan Jackson, RN, PhD San Diego, California
Janine Jagger, MPH, PhD Charlottesville, Virginia
William R. Jarvis, MD Atlanta, Georgia
Douglas S. Kernodle, MD Nashville, Tennessee
Robert H. Latham, MD Nashville, Tennessee
Lewis B. Lefkowitz, MD Nashville, Tennessee
Hsieh-Shong Leu, MD, MSc Taipei, Taiwan
Jack Levy, MD Brussels, Belgium
Victor Lorian, MD Bronx, New York
Dennis G. Maki, MD Madison, Wisconsin
Professor Dr. Walter Marget Munich, Federal Republic of Germany
William J. Martone, MD Bethesda, Maryland
Allison McGeer, MD Toronto, Ontario, Canada
John E. McGowan, Jr., MD Atlanta, Georgia
Jonathan L. Meakins, MD, DSc Montreal, Quebec, Canada
Raf Mertens, MD Brussels, Belgium
Robert R. Muder, MD Pittsburgh, Pennsylvania
Joseph M. Mylotte, MD, CIC Buffalo, New York
Lindsay Nicolle, MD Winnipeg, Manitoba, Canada
Juhani Ojajarvi, MD Helsinki, Finland
Michael T. Osterholm, PhD, MPH Minneapolis, Minnesota
Jan Evans Patterson, MD San Antonio, Texas
Sindy M. Paul, MD Trenton, New Jersey
Michael A. Pfaller, MD Iowa City, Iowa
Samuel Ponce de Leon, MD, MSc Mexico City, Mexico
Isaam Raad, MD Houston, Texas
Manfred L. Rotter, MD, DipBact Vienna, Austria
Theodore Sacks, MD Jerusalem, Israel
William E. Scheckler, MD Madison, Wisconsin
Kent Sepkowitz, MD New York City, New York
Denis Spelman, MD Prahran Victoria, Australia
Michael L. Tapper, MD New York, New York
Clyde Thornsberry, PhD Brentwood, Tennessee
Professor Leonid P. Titov Minsk, Republic of Belarus
Timothy R. Townsend, MD Millwood, Virginia
Antoni Trilla, MD, PhD Barcelona, Spain
Professor Wang Shu-Qun Beijing, People's Republic of China
J. John Weems, Jr., MD Greenville, South Carolina
Robert A. Weinstein, MD Chicago, Illinois
Professor Dr. W. Weuffen Greifswald, Federal Republic of Germany
Sergio B. Wey, MD São Paulo, Brazil
Rebecca Wurtz, MD Evanston, Illinois

SLACK Incorporated

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

Vice President/Group Publisher

Richard N. Roash

Publisher

John C. Carter

Editorial Director

Jennifer Kilpatrick

Production Editor

Shirley P. Strunk, ELS

Assistant Editor

Eileen C. Anderer

Circulation Manager

Lester J. Robeson, CCCC

Production Director

Christine Malin

Production Coordinator

Joanne Patterson

Publishing Director/ Advertising

Wayne McCourt

Pharmaceutical Group Sales Director

Michael LoPresti

Advertising Sales Representative

Jennine Kane

Classified/Recruitment Sales Manager

Michele Burch