

HOSPITAL EPIDEMIOLOGY

Volume 9, Number 1 • January 1988

EDITORIAL

A New Affiliation, a New Name, and New Directions

Richard P. Wenzel, MD, MSc; William Schaffner, MD

ORIGINAL ARTICLES

Effect of Preoperative Shampoos with Chlorhexidine or lodophor on Emergence of Resident Scalp Flora in Neurosurgery

Jeanne M. Leclair, MT, MPH; Ken R. Winston, MD; Bernadette F Sullivan, RN; Janet M. O'Connell, RN; Stella M. Harrington, RN; Donald A. Goldmann, MD

Nosocomial Infection Rates at an Oncology Center

Coleman Rotstein, MD; K. Michael Cummings, PhD, MPH Andreas L. Nicolaou, MS; Joyce Lucey, RN, MS; John Fitzpatrick, MD

Molecular and Epidemiologic Study of Multiresistant Serratia marcescens Infections in a Spinal Cord Injury Rehabilitation Unit

Andrew E. Simor, MD; Lee Ramage, RN; Lindsay Wilcox, ART; Shelley B. Bull, PhD Hanna Bialkowska-Hobrzanska, PhD

A Causal Link Between Handwashing and Risk of Infection? Examination of the Evidence

Elaine Larson, PhD, FAAN

EPA ACCEPTED: For complete disinfection (including T.B. activity).

"SPORICIDIN, DILUTED 1:16, 15 1055110 100% HOSPITAL LEVEL; USED AND RE-USED FOR 30 DAYS FOR 100% HOSPITAL LEVEL; USED AND RE-USED FOR 30 DAYS FOR 100% HOSPITAL LEVEL; USED AND RE-USED FOR 30 DAYS FOR 100% HOSPITAL LEVEL; BOOM TEMPERATURE, 68°F AND ABOVE• (REG. #8383-5)."

Important Product Information:

Sporicidin is the **ONLY** dilutable glutar aldehyde-based 10 minute disinfectant that is registered for tuberculocidal re-use without heating Respiratory and other equipment were used in the **studies** supporting the re-use claims. It is recommended for respiratory therapy and operating room instruments and equipment.

Sporicidin is recommended by all major scope manufacturers.

**Gidex now hust be heated to 77°F / 25°C for 45 minutes for tuberculocidal activity. Cidex, and Cidex type products, require a much higher glutaraldehyde concentration (2%) for disinfection and are less effective than Sporicidin, a glutaraldehyde (0.13%)-phenate Complex.

Under the most stringent and scientific guidelines, Sporicidin is the best sterilizing/disinfecting product available.

Cute l. hmd, mo.

Curtis L. Lynch, M.D., M.P.H. Medical Director (800) 424-3733



Sporicidin[®]

12000 Old Georgetown Road Rockville, MD 20852

7

13

INFECTION CONTROL

AND HOSPITAL EPIDEMIOLOGY

Table of Contents

	17	$\overline{}$			
ED	11	()	ĸ	IA	ı

A New	Aff	iliation,	a Ne	w Nar	ne, and	New Direct	ctions
Richard	d P.	Wenzel.	MD.	MSc:	William	Schaffner.	MD

ORIGINAL ARTICLES

Effect of Preoperative Shampoos with Chlorhexidine or Iodophor on						
Emergence of Resident Scalp Flora in Neurosurgery						
Jeanne M. Leclair, MT, MPH; Ken R. Winston, MD;						
Bernadette F. Sullivan, RN; Janet M. O'Connell, RN; Stella M. Harrington, RN;						
Donald A. Goldmann, MD						

Nosocomial Infection Rates at an Oncology Center Coleman Rotstein, MD; K. Michael Cummings, PhD, MPH; Andreas L. Nicolaou, MS; Joyce Lucey, RN, MS; John Fitzpatrick, MD

Molecular and Epidemiologic Study of Multiresistant Serratia marcescens Infections in a Spinal Cord Injury Rehabilitation Unit Andrew E. Simor, MD; Lee Ramage, RN; Lindsay Wilcox, ART;

Andrew E. Simor, MD; **Lee** Ramage, RN; Lindsay Wilcox, ART; Shelley B. Bull, PhD; Hanna Bialkowska-Hobrzanska, PhD

A Causal Link Between Handwashing and Risk of Infection? Examination of the Evidence Elaine Larson, PhD, FAAN

SPECIAL SECTIONS

Clinical Pharmacology of Antibiotics: The Use of Intraperitoneal Antibiotics to Treat Dialysis-Associated Peritonitis 37

Terrill G. Washington, PharmD; Mark Eggleston, PharmD

Product Commentary: Housekeeping Products:	
The Choice Is Yours	40
Sue Crow. RN. MSN. CIC	

Topics in Clinical Epidemiology: Linking Hospital Epidemiology and	
Quality Assurance: Seasoned Concepts in a New Role	42
William Crede, MD; Walter J. Hierholzer, Jr., MD	

DEPARTMENTS

, , , , , , , , , , , , ,			
Information for Authors	6	Classified Marketplace	48
SHEA Newslatter	15	-	

The ideas and opinions expressed by contributing authors do not necessarily reflect those of the editors or publisher.

Publisher: Infection Control and Hospital Epidemiology (ISSN-0195.9417) is published monthly by SLACK Incorporated. 6900 Grove Road. Thorofare, New Jersey 08086 Telephone (609) 848-1000

Copyright 1988: 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 Scope Incorporated. Mansui Bldg, 9-18 Kanda Surugadai 2-chome, Chiyoda-ku. Tokyo 101 Japan Subscription rates in the US and possessions Individual: One year-\$45.00; Two years-\$75.00; Three years-\$105.00 Institutional One year-\$60.00. Two years-\$100.00, Three years-\$140.00, Canada \$15 00 additional each year all other countries \$25 00 additional each year Single copies of current issues may be obtained for \$7.00, United States and possessions; \$13.00 all other countries.

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 08066, and additional entry points Postmaster: Send address changes to SLACK Incorporated, 6900 Grove Road, 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, and Cumulative Index to Nursing and Allied Health Literature.

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

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 Jennifer Kilpatrick

Production Editor

Shirley P. Strunk, ELS

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

Paris, France Cincinnati, Ohio Chicago, Illinois

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

Birmingham, United Kingdom

Neil L. Barg, MD

Yakima, Washington Atlanta, Georgia

Elizabeth Ann Bolyard, RN, MPH, CIC 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 Sue Crow, MSN, RN, CIC

Boston, Massachusetts Shreveport, Louisiana

Franz Daschner, MD

Freiburg, Federal Republic of Germany Charlottesville, Virginia

Leigh G. Donowitz, MD Charles E. Edmiston, Jr., PhD

Milwaukee, Wisconsin Denver, Colorado

Theodore C. Eickhoff, MD 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

Farmington, Connecticut

Velvl Greene, PhD, MPH

Beer Sheva, Israel Atlanta, Georgia

Robert Gaynes, MD David W. Gregory, MD

Nashville, Tennessee

David K. Henderson, MD

Bethesda, Maryland

Peter N.R. Heseltine, MD Karen Hoffmann, RN, CIC, MS Los Angeles, California Chapel Hill, North Carolina

Marguerite McMillan Jackson, RN, PhD

San Diego, California Charlottesville, Virginia

Janine Jagger, MPH, PhD William R. Jarvis, MD Douglas S. Kernodle, MD

Atlanta, Georgia Nashville, Tennessee

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

Hsieh-Shong Leu, MD, MSc

Taipei, Taiwan Brussels, Belgium

Jack Levy, MD Victor Lorian, MD

Bronx, New York Madison, Wisconsin

Dennis G. Maki, MD Professor Dr. Walter Marget

Munich, Federal Republic of Germany

William J. Martone, MD Allison McGeer, MD

Bethesda, Maryland Toronto, Ontario, Canada

John E. McGowan, Jr., MD Jonathan L. Meakins, MD, DSc

Atlanta, Georgia Montreal, Quebec, Canada

Raf Mertens, MD

Brussels, Belgium Pittsburgh, Pennsylvania

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

Buffalo, New York

Lindsay Nicolle, MD Juhani Ojajärvi, MD

Winnepeg, Manitoba, Canada Helsinki, Finland

Michael T. Osterholm, PhD, MPH Jan Evans Patterson, MD

Minneapolis, Minnesota San Antonio, Texas

Sindy M. Paul, MD

Trenton, New Jersey Iowa City, Iowa

Michael A. Pfaller, MD Samuel Ponce de Leon, MD, MSc

Mexico City, Mexico

Isaam Raad, MD Manfred L. Rotter, MD, DipBact Houston, Texas Vienna, Austria

Theodore Sacks, MD

Jerusalem, Israel

William E. Scheckler, MD Kent Sepkowitz, MD Madison, Wisconsin New York City, New York

Denis Spelman, MD Michael L. Tapper, MD

Prahran Victoria, Australia

New York, New York

Clyde Thornsberry, PhD Professor Leonid P. Titov

Brentwood Tennessee Minsk, Republic of Belarus

Timothy R. Townsend, MD

Millwood, Virginia

Antoni Trilla, MD, PhD

Barcelona, Spain

Professor Wang Shu-Qun J. John Weems, Jr., MD

Beijing, People's Republic of China Greenville, South Carolina

Evanston Illinois

Robert A. Weinstein, MD

Chicago, Illinois

Professor Dr. W. Weuffen

Greifswald, Federal Republic of Germany São Paulo, Brazil

Sergio B. Wey, MD

Rebecca Wurtz, MD

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

Assistant Editor Eileen C. Anderer

Circulation Manager Lester J. Robeson, ČCCP

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

Downloaded from https://www.cambridge.org/core. 23 Dec 2025 at 03:07:34, subject to the Cambridge Core terms of use.

For years you've protected your patients from infectious disease.



Now there's extra

The threat of contamination from infectious disease increases daily. To help you safeguard your staff, General Medical presents its line of Personnel Protection Products. Hundreds of items for clinical,

procedural and emergency situations, from coveralls to gowns... splash protection goggles to bootcovers...sharps containers to an AIDS contamination kit.

Provide your staff with extra protection. Provide General Medical's Personnel Protection Products.

Ask your General Medical representative for our free catalog of Personnel Protection Products. For the phone number of your nearest General Medical location call toll free, 1-800-446-3008. In Virginia call collect (804) 780-2653.



General Medical Corporation

@1988, General Medical Corporation, Richmond, Virginia



The ICU HR Needle helps eliminate the cost, liability, and anxiety of accidental needle sticks.

- The HR Needle
 accommodates any standard
 slip or luer lock syringe.
- 2. Administer injection following normal hospital procedure.
- 3. To remove the HR
 Needle-assembly, grasp the
 plastic guard firmly with one
 hand. Then withdraw the
 syringe with the other hand
 until the guard clicks in place.
- 4. The HR Needle is now safe for disposal, recessed within the protective guard.



Today's healthcare professional is concerned about infectious diseases. Through on-the-job exposure to high-risk patients, medical personnel are more likely to contract AIDS, Hepatitis B. and non-A, non-B Hepatitis than any other working group.

Accidental needle sticks account for nearly ½ of healthcare cases. Last year, there were 800,000 reported needle stick injuries resulting in expenses of over \$500 million for accident work-ups alone. Liability and treatment for infected individuals

drove the totals into the billions of dollars.

Now, there's a standard of protection from accidental needle sticks—the HR Needle from ICU Medical.

The HR Needle helps eliminate the possibility of needle-stick injuries, and prevents the needless transmission of infectious diseases.

The HR Needle is the healthcare worker's first line of defense, reducing the liability and the anxiety of dealing with high-risk patients.

ICU—A New Standard in Protection

ICU Medical is committed to manufacture products designed to reduce the liability, costs and anxiety encountered by today's medical professionals.





For further information or product demonstration, contact your local Baxter Hospital Supply Division representative or call ICU MEDICAL, INC. at:

Nationwide 1-800-824-7890

California Only, 1-800-228-4588



Protecting the Future of Health Care Today

The HR Needle is exclusively distributed by The Hospital Supply Division of Baxter Healthcare Corporation.

ICU Medical, Inc., 23436 Madero, Mission Viejo, CA 92691