

## HOSPITAL EPIDEMIOLOGY

Volume 10, Number 5 • May 1989

#### **EDITORIAL**

#### **Malnutrition and Nosocomial Infection**

Nevin S. Scrimshaw, PhD, MD, MPH

#### **ORIGINAL ARTICLES**

#### **Association of Malnutrition with Nosocomial Infection**

Geoffrey J. Gorse, MD; Roberta L. Messner, RN, MS; Nancy D. Stephens, RD, MS

#### **Tuberculosis Epidemic Among Hospital Personnel**

Charles E. Haley, MS, MD; Robert C. McDonald, MD; Lois Rossi, RN; Wilbur D. Jones, Jr, PhD; Robert W. Haley, MD; James P. Luby, MD

#### **Increased Incidence of Infections in Intravenous Drug Users**

Charles R. Horsburgh, Jr, MD; Judith R. Anderson, MD; Edward J. Boyko, MD

Morbidity and Mortality Associated with Multiple Episodes of Nosocomial Bloodstream Infection: A Cohort Study

Patti J. Miller, MS; Barry M. Farr, MD, MSc



# Which hand is more open to infection?

It's a toss up. The hand on the left may have just as good a chance of becoming infected or passing on infection as the hand with the obvious wound. Because irritation caused by constant handwashing may well mean open, inapparent lesions in the skin. If your skin is red, dry or itching, it's probably broken. In dozens of places too small to see.

Healthy, intact skin is the best protection against infection. That's why Huntington Laboratories created the Intact Skin Care group of products.

## Formulas that are easy on your hands, tough on germs.

Intact Skin Care products have been formulated to kill pathogenic organisms and cleanse the skin without contributing to dryness or irritation. Using proven antibacterials like PCMX and Triclosan. Emollients like aloe vera and lanolin to help skin retain its moisture. Humectants like glycerine to draw moisture from the air to the skin. Protein conditioners like keratin to help the skin repair its epidermal layer. Intact Skin Care products actually help make your hands feel softer and better with each use.

#### One for every room in the hospital.

The Intact Skin Care line includes O/R Scrub for the demands of the surgical suite and other high risk areas. Bacti-Stat, an extraordinarily mild healthcare personnel hand wash. Derma Soft, our finest general purpose hand wash. Cida Rinse, a convenient, go-anywhere alcohol antiseptic handrinse. Accent Plus **cremes** and lotions. And a complete educational program on the importance of intact skin. Although your staff won't need much encouragement to use Intact Skin Care products.

For more information and trial samples, call your Huntington representative or call us toll-free:

## 1-800-537-5724 **Elementary** 1-800-537-5724

© 1989 Huntington Laboratories Huntington, Indiana46750 In Indiana: I-800-448-6522 In Canada, call collect: (416) 791-2336

Intact Skin Care. Because irritation is more than a nuisance.

#### **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

Cincinnati, Ohio

Paris, France

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

Chicago, Illinois Birmingham, United Kingdom

Neil L. Barg, MD

Yakima, Washington Atlanta, Georgia

Elizabeth Ann Bolyard, RN, MPH, CIC

John M. Boyce, MD Providence, Rhode Island Munich, Federal Republic of Germany

Professor Dr. Ilja Braveny Charles Bryan, MD

Columbia, South Carolina

Christian Brun-Buisson, MD

Creteil, France Boston, Massachusetts

Donald E. Craven, MD Sue Crow, MSN, RN, CIC

Shreveport, Louisiana

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

Charles E. Edmiston, Jr., PhD

Milwaukee, Wisconsin Denver, Colorado

Theodore C. Eickhoff, MD 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 Velvl Greene, PhD, MPH Farmington, Connecticut Beer Sheva, Israel

Robert Gaynes, MD

Atlanta, Georgia Nashville, Tennessee

David W. Gregory, MD 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 Janine Jagger, MPH, PhD

San Diego, California Charlottesville, Virginia Atlanta, Georgia

William R. Jarvis, MD Douglas S. Kernodle, MD

Nashville, Tennessee

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

Hsieh-Shong Leu, MD, MSc Jack Levy, MD

Taipei, Taiwan Brussels, Belgium

Victor Lorian, MD Dennis G. Maki, MD Bronx, New York Madison, Wisconsin

Professor Dr. Walter Marget

Munich, Federal Republic of Germany Bethesda, Maryland

William J. Martone, MD Allison McGeer, MD

Toronto, Ontario, Canada John E. McGowan, Jr., MD Atlanta, Georgia

Jonathan L. Meakins, MD, DSc

Montreal, Quebec, Canada Brussels, Belgium

Raf Mertens, MD Robert R. Muder, MD

Pittsburgh, Pennsylvania

Joseph M. Mylotte, MD, CIC

Buffalo, New York

Lindsay Nicolle, MD Juhani Ojajärvi, MD

Winnepeg, Manitoba, Canada Helsinki, Finland

Michael T. Osterholm, PhD, MPH

Minneapolis, Minnesota San Antonio, Texas

Jan Evans Patterson, MD Sindy M. Paul, MD

Trenton, New Jersey

Michael A. Pfaller, MD Samuel Ponce de Leon, MD, MSc Iowa City, Iowa Mexico City, Mexico

Isaam Raad, MD

Houston, Texas

Manfred L. Rotter, MD, DipBact Theodore Sacks, MD

Vienna, Austria 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 Brentwood Tennessee

Clyde Thornsberry, PhD Professor Leonid P. Titov

Minsk, Republic of Belarus Millwood, Virginia

Timothy R. Townsend, MD Antoni Trilla, MD, PhD

Barcelona, Spain

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

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

Robert A. Weinstein, MD Professor Dr. W. Weuffen

Chicago, Illinois Greifswald, Federal Republic of Germany

Sergio B. Wey, MD

São Paulo, Brazil Evanston Illinois

Rebecca Wurtz, MD

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

**Assistant Editor** Eileen C. Anderer

Christine Malin

Circulation Manager

Lester J. Robeson, ČCCP **Production Director** 

**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. 04 Dec 2025 at 12:39:14, subject to the Cambridge Core terms of use.

# Sporicidin Requires No Heat

Compare for 100% TUBERCULOCIDAL ACTIVITY

	Temperature	Immersion Time	Dilution	Reuse Life
Sporicidin® (EPA Reg. No. 8383-5)	68°F and above (True Room Temperature)	10 Minutes	1:16	30 Days
CIDEX® (EPA Reg. No. 7078-1)	77°F Requires Heat	45 Minutes	Full Strength	14 Days

100% Hospital Level Disinfection for instruments and equipment in the O.R. and respiratory therapy

Note: Because of confusion created in the marketplace, EPA issued this letter to reaffirm the label claims of Sporicidin.

"Sporicidin is currently registered with EPA as a cold sterilizing solution and concentrated disinfectant, (for endoscopes, respiratory equipment, etc.), based on test results from EPA prescribed tests for such products... at this use dilution (1:16), the product is effective against bacteria, pathogenic fungi, tubercle bacillus and viruses (those specifically tested) in 10 minutes at 20°C/68°F and above."

EPA letter 1 1/22/88



Sporicidin

12000 Old Georgetown Road • Rockville, MD 20052 For Information: 1-800-424-3733

"All Sporicidin disinfectant products kill HIV-1 (AIDS virus) on pre-cleaned environmental surfaces." (EPA accepted on 2/6/89)

## INFECTION CONTROL

## AND HOSPITAL EPIDEMIOLOGY

EDITORIAL	Malnutrition and Nosocomial Infection Nevin S. Scrimshaw, PhD, MD, MPH			
ORIGINAL ARTICLES	Association of Malnutrition with Nosocomial Infection Geoffrey J. Gorse, MD; Roberta L. Messner, RN, MS; Nancy D. Stephens, RD, MS			194
	<b>Tuberculosis Epidemic Among Hospital Personnel</b> Charles E. Haley, MS, MD; Robert C. McDonald, MD; Lois Rossi, RN; Wilbur D. Jones, Jr, PhD; Robert W. Haley, MD; James P. Luby, MD			
	Increased Incidence of Infections in Intravenous Drug Users Charles R. Horsburgh, Jr, MD; Judith R. Anderson, MD; Edward J. Boyko, MD			211
	Morbidity and Mortality Associated with Multiple Episodes of Nosocomial Bloodstream Infection: A Cohort Study Patti J. Miller, MS; Barry M. Farr, MD, MSc			
SPECIAL SECTIONS	<b>Product Commentary: Washer-Decontaminator—An Evaluation</b> Sue Crow, MSN, RN, CIC			
	<b>Decision Analysis: Game Theory: For Adults Only</b> Mary D. Nettleman, MD			
DEPARTMENTS	Letters to the Editor	190	Information for Authors	230
	SHEA Newsletter	225	Classified Marketplace	231
	<b>Calendar of Events</b>	227		

## 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-0899-823X) is published monthly by SLACK Incorporated 6900 Grove Road Thorofare New Jersey 08086 Telephone (609) 848-1000

Copyright 1989: 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 if the US and possessions Individual One year-\$50 00. Two years—\$85 00. Three years—\$115 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.

Reprints: All requests to reprint or use material published herein should be addressed to Susan S Budd SLACK Incorporated 6900 Grove Poad, Thorofare NJ 08086 For reprint orders and prices contact Lester J Robeson at (609) 848-1000

Change of address: Notice should be sent to the publisher SIX weeks it 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 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 Ailed Health Literature

## How could we cdlourselvesthe peratingRoom' Divisionwithout' Convertors/ Custom Sterile?



Frankly, we couldn't. Convertors® offers the broadest line of disposable products in the industry. Covering a complete range of surgical specialties. But there's more to Convertors than drapes, sheets, gowns, head and shoe covers and packs. Or even towels, sponges and basin sets.

There's more to Custom Sterile, despite the fact we provide complete sterile procedure packs for an entire spectrum of surgical specialties. Each assembled per the specification of your O.R.

Today, there has to be more. That's why we use Optima, a fabric that provides superior bacterial protection and fluid repellency, and Iso. Bac, an active non-woven fabric that reduces bacterial growth. It's why we designed our drapes with fluid collection pouches. It's why we developed our Quality Assurance program. And it's why we developed Convertors. Plus procedure

packs, an effective cost management tool.

But perhaps the greatest plus Convertors/ Custom Sterile offers is its association with two other well-known names. V. Mueller® and Pharmaseal® Surgical. Together as the Operating Room Division, we're uniquely qualified to help you with both the clinical and business issues you face. The result will help you make your O.R. as efficient and productive as possible, while maintaining a high standard of quality care for the patient.

The bottom line? Your operation wouldn't be the same without Convertors/Custom Sterile. And neither would ours.

For more information, write Baxter Healthcare Corporation, Operating Room Division, 1500 Waukegan Road, McGaw Park, IL 60085.

Operating Room Division

