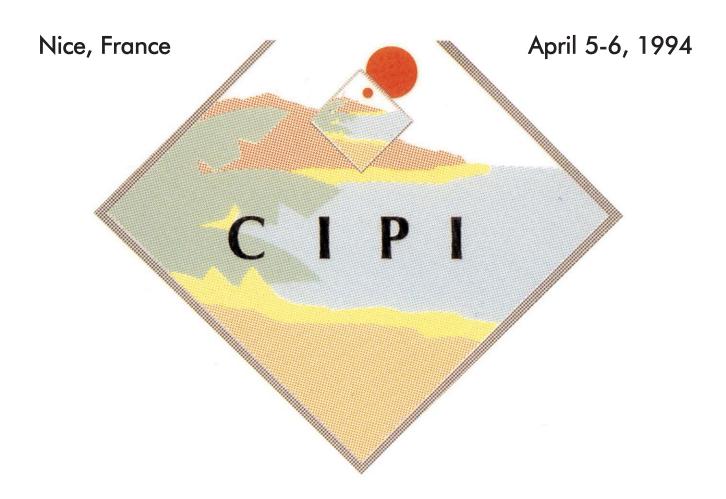
An Official Journal of The Society for Healthcare Epidemiology of America

INFECTION CONTROL AND HOSPITAL EPIDEMIOLOGY®



3rd International Conference on the Prevention of Infection



Laboratories 51. Louis. Mi

both disinfects and conditions in less time than any prior technology available to healthcare

Results of Time Kill tests demonstrate that Techni-Care eliminates gram negative and gram positive bacteria at 99.99% in 30 second contact.

Outstanding Bactericidal Activity without skin irritation Techni-Care's active ingredient, chloroxylenol (PCMX) at 3%, eliminates bacteria, while a host of skin conditioning agents work

synergistically to condition and soften the skin. Exceptionally mild, Techni-Care's dermal conditioning ingredients, include cocamidopropyl PG-Dimonium Chloride Phosphate, Aloe Vera Gel, Collagen and Propylene Glycol.

Techni-Care has rated a "minimal irritation" in the Draize Dermal

irritation test. Specially blended formulation for dermal conditioning, as well as for bacterial reduction. Techni-Care Surgical Scrub is soothing to dermal tissue while phospolipids promote natural turgor.



Vol. 15 No. 7 July 1994

INFECTION CONTROL AND HOSPITAL EPIDEMIOLOGY®

CONTENTS

Why CIPI? (Editorial) Jean-Claude Pechere, MD	427
Mortality Attributable to Nosocomial Infections in the ICU Jean-Yves Fagon, MD, PHD; Ana Novara, MD; Francois Stephen, MD; Emmanuelle Girou, PharmD; Michel Safar, MD	428
Impact of Handwashing on Mortality in Intensive Care: Examination of the Evidence Bertil Nystrom, MD	435
Histamine-2-Receptor Antagonists and Antacids in the Critically Ill Population: Stress Ulceration V Nosocomial Pneumonia	
Deborah J. Cook, MD; FRCPC, MSc(EPID); Brenda K. Reeve, BSc; L. Cory Scholes, BSc Viewpoint: Survival Benefit by Selective Decontamination of the Digestive Tract (SDD) H.K.F. van Saene, MD, PhD, MRCPath; A.J. Nunn, BPharm, MRPharm; A.J. Petros, MRCP	437 443
Can Topical and Nonabsorbable Antimicrobials Prevent Cross-Transmission of Resistant Strains in Christian Brun-Buisson, MD; Patrick Legrand, MD	
Infectious Risk Factors Related to Operating Rooms Didier Pittet, MD, MS; Georges Ducel, MD	456
Antimicrobial Prophylaxis in Surgery: General Concepts and Clinical Guidelines Claude Martin, MD; the French Study Group on ANticrobial Prophylaxis in Surgery; the French Society of Anesthesia and Intensive Care	463
Antibiotic Resistance Is Selected Primarily in Our Patients Jean-Claude Pechere, MD	472
Do Intensive Hospital Antibiotic Control Programs Prevent the Spread of Antibiotic Resistance? John E. McGowan, JR., MD	478
Do Nonclinical Uses of Antibiotics Make a Difference? Hilary-Kay Young	484
Applications of Molecular Methods to Epidemiologic Investigations of Nosocomial Infections in a F Hospital	
Edouard Bingen, PhD Infectious Diseases and Death Among Nursing Home Residents: Results of Surveillance in 13 Nur	488 rsing
Homes Consuelo Beck-SAgue, MD; Elisa Villarino, MD; Diane Guiliano, RN; Sharon Welbel, MD; Lisa Latts, MD; Lilia M. Manangan, RN, MPH; Ronda L. Sinkowitz; William R. Jarvis, MD	494
Pros and Cons of BCG Vaccination in Countries with Low Incidence of Tuberculosis Eero O. Tala, MD, FCCP; Marianna M. Tala-Heikkila, MD	497
Usefulness of Molecular Epidemiology For Outbreak Investigations William R. Jarvis, MD	500
HEA NEWS C. GLEN MAYHALL, MD	504

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) 8481000.

COPYRIGHT 1994 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 LS.4.

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-\$85.00; Two years-\$120.00; Three years-\$150.00; Institutional: One year-\$95.00; Two years-\$135.00; Three years-\$175.00. Fellows: \$20 per year with proof of training status. Canada: \$18.00 additional each year plus 7% for Canadian Goods & Servicestax; 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 Robeson, SLACK Incorporated, 6900 Grove Rd., Thorofare, NJ 08086. For reprint or use material published herein should be addressed to Lester Robeson, SLACK Incorporated, 6900 Grove Rd., Thorofare, NJ 08086. For reprint or users and prices, contact Lester 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, NJU8086.

INFECTION CONTROL AND HOSPITAL EPIDEMIOLOGY is listed in Index Medicus, Current Contents-Clinical Practice. Hospital Literature Index. Currulative 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

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

J. Wesley Alexander, MD

Cincinnati, Ohio

Chicago, Illinois

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

Birmingham, United Kingdom

Providence, Rhode Island

Boston, Massachusetts

Charlottesville, Virginia

Milwaukee, Wisconsin

Manhasset, New York

Denver, Colorado

St. Louis, Missouri

Beer Sheva, Israel

Atlanta, Georgia

Black Butte, Oregon

Nashville, Tennessee

Bethesda, Maryland

San Diego, California

Nashville, Tennessee

Nashville, Tennessee

Nashville, Tennessee

Brussels, Belgium

Madison, Wisconsin

Bethesda, Maryland

Atlanta, Georgia

Brussels, Belgium

Buffalo, New York

San Antonio, Texas

Iowa City, Iowa

Houston, Texas

Vienna, Austria

Jerusalem, Israel

Trenton, New Jersey

Mexico City, Mexico

Madison, Wisconsin New York City, New York

Prahran Victoria, Australia

New York, New York

Brentwood Tennessee Minsk, Republic of Belarus

Millwood, Virginia

Barcelona, Spain

Toronto, Ontario, Canada

Montreal, Quebec, Canada

Pittsburgh, Pennsylvania

Minneapolis, Minnesota

Winnepeg, Manitoba, Canada Helsinki, Finland

Munich, Federal Republic of Germany

Bronx, New York

Atlanta, Georgia

Taipei, Taiwan

Charlottesville, Virginia

Farmington, Connecticut

Los Angeles, California Chapel Hill, North Carolina

Freiburg, Federal Republic of Germany

Shreveport, Louisiana

Neil L. Barg, MD

Yakima, Washington Atlanta, Georgia

Paris, France

Elizabeth Ann Bolyard, RN, MPH, CIC John M. Boyce, MD

Professor Dr. Ilja Braveny

Munich, Federal Republic of Germany

Charles Bryan, MD

Columbia, South Carolina Creteil, France

Christian Brun-Buisson, MD Donald E. Craven, MD

Sue Crow, MSN, RN, CIC

Franz Daschner, MD

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

Theodore C. Eickhoff, MD

Bruce Farber, MD

Victoria J. Fraser, MD

Peter C. Fuchs, MD, PhD

Richard A. Garibaldi, MD

Velvl Greene, PhD, MPH

Robert Gaynes, MD

David W. Gregory, MD

David K. Henderson, MD

Peter N.R. Heseltine, MD

Karen Hoffmann, RN, CIC, MS

Marguerite McMillan Jackson, RN, PhD

Janine Jagger, MPH, PhD William R. Jarvis, MD

Douglas S. Kernodle, MD

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

Hsieh-Shong Leu, MD, MSc

Jack Levy, MD Victor Lorian, MD

Dennis G. Maki, MD

Professor Dr. Walter Marget William J. Martone, MD

Allison McGeer, MD

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

Raf Mertens, MD

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

Lindsay Nicolle, MD

Juhani Ojajärvi, MD Michael T. Osterholm, PhD, MPH

Jan Evans Patterson, MD

Sindy M. Paul, MD Michael A. Pfaller, MD

Samuel Ponce de Leon, MD, MSc

Isaam Raad, MD Manfred L. Rotter, MD, DipBact

Theodore Sacks, MD

William E. Scheckler, MD

Kent Sepkowitz, MD

Denis Spelman, MD Michael L. Tapper, MD

Clyde Thornsberry, PhD Professor Leonid P. Titov

Timothy R. Townsend, MD

Antoni Trilla, MD, PhD

Professor Wang Shu-Qun

J. John Weems, Jr., MD Robert A. Weinstein, MD

Professor Dr. W. Weuffen

Sergio B. Wey, MD

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

Chicago, Illinois Greifswald, Federal Republic of Germany

São Paulo, Brazil

Evanston Illinois

Rebecca Wurtz, MD

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, ČCCP **Production Director** Christine Malin

Production Coordinator Joanne Patterson

Publishing Director/ Advertising Wayne McCourt

Pharmaceutical Group Sales Director Michael LoPresti

Advertising Sales Representative

Classified/Recruitment Sales Manager

Michele Burch