

INFECTION CONTROL



EDITORIAL

Can We Protect Our Patients and Employees from Childhood Disease?

Dieter H.M. Gröschel, MD

ORIGINAL ARTICLES

Prevalence of Measles Antibodies in Hospital Personnel

Teresa Chou, MPH; Diane Weil, MPH; Paul M. Arnow, MD

Hospital Experience With Varicella-Zoster Virus

Keith Krasinski, MD; Robert S. Holzman, MD;
Rita LaCouture, RN; Alfred Florman, MD

Strict Versus Modified Isolation for Prevention of Nosocomial Transmission of Methicillin-Resistant *Staphylococcus aureus*

Bruce S. Ribner, MD, MPH; Martha N. Landry, RN; Gail L. Gholson, RN

The Efficacy of a Florida Hospital Consortium for Infection Control: 1975-1982

N. Joel Ehrenkranz, MD

SPECIAL SECTIONS

Readers' Forum: Results of a Survey of Infection Control Practices for Respiratory Therapy Equipment

Theresa A. Goularte, BS, MPH; Donald E. Craven, MD

Clinical Pharmacology of Antibiotics: Review of Imipenem

Soon-young Park, PharmD; Richard H. Parker, MD

Infection Control and Employee Health: Marketing a Hepatitis B Vaccine Program

Rose Haas, RN; Mary Ellen Beideman, RN



Let the top antibacterial bar protect your bottom line.

In today's cost containment environment, you're concerned with product performance and cost. So are we. Maybe that's why more hospitals have chosen Dial than any other bar soap.

IN VITRO MICROBIOLOGICAL AVAILABILITY TEST



ANTIBACTERIAL EFFECTIVENESS
Length of bar is inversely proportional to the bacterial count.

In both *in vitro* and *in vivo* microbiological tests, Dial demonstrated its superior performance against other bar soaps. *In vitro*, Dial proved itself to be nearly five times more effective than its leading competitor in antibacterial efficacy. At a competitive price.

Made by an advanced technique that makes the active ingredient 3, 4, 4'-trichlorocarbanilide more effective; Dial helps remove patient-acquired microorganisms, inhibits the growth of pathogenic organisms some of which are associated with nosocomial infection, and provides

residual antibacterial action.

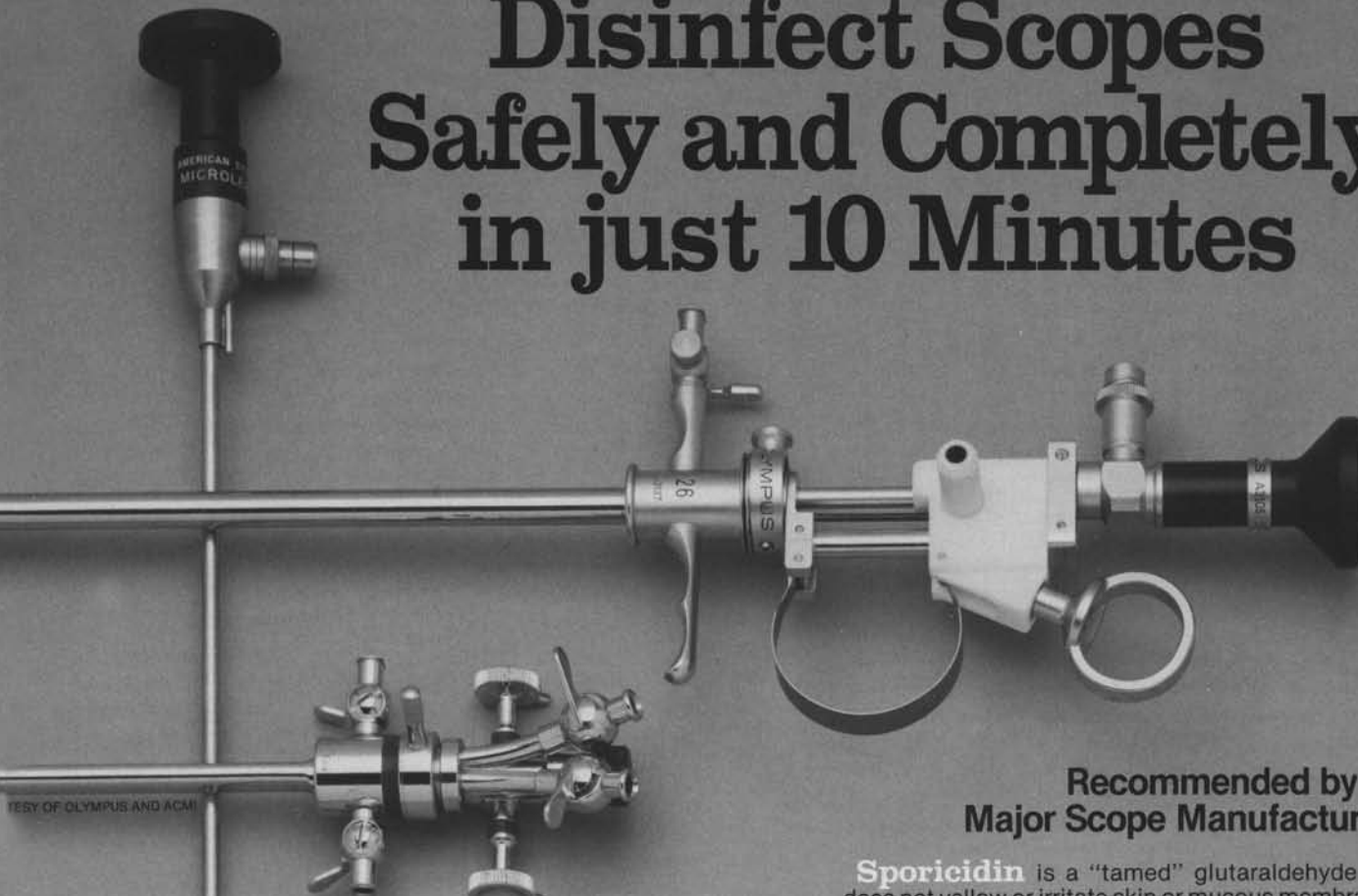
Dial not only provides superior bacteriostatic protection, but is formulated to treat skin gently, even with frequent use. Results of studies using the soap chamber test show that Dial is mild.



So protect your bottom line with Dial. The top bar for antibacterial effectiveness that's as mild as an antibacterial soap can be. At a competitive price. For more information and study references on Dial, call for our brochure: Toll-free, 1/800/528/0849.



Disinfect Scopes Safely and Completely in just 10 Minutes



**Recommended by All
Major Scope Manufacturers**

Sporicidin is a "tamed" glutaraldehyde that does not yellow or irritate skin or mucous membranes.

Sporicidin is safe for delicate instruments and it will not cloud lenses or clog air/water channels.

Sporicidin (1:16) is tuberculocidal, bactericidal, fungicidal & virucidal (including Herpes I & II, Influenza A₂ and Polio I).

**In controlled studies,
Sporicidin (1:16) inactivated
the Hepatitis B* and AIDS
viruses in 10 minutes**



**Proof Comes from 15 Years
of Research and Clinical Use**

"In 5000 procedures the cystoscopes were used directly from the Sporidicin soak; there were no known incidents of iatrogenic infection or post-operative irritation. Sporidicin is safe and effective in 10 minutes."

Urology, Vol. 23, No. 2, 1984

"After 3 years and 4001 procedures (laparoscopy, cystoscopy and colonoscopy), we observed
(1) no post-operative tissue irritation or infection
(2) no lens clouding or endoscope damage
(3) preferred by our staff."

*Journal Of The Operating Room
Research Institute, Vol. 3, No. 8, 1983*

"Sporidicin . . . was both more stable and more active against test spores than . . . Cidex and Cidex-7."

Infection Control, Vol. 1, No. 2, 1980

Sporicidin[®]
COLD STERILIZING SOLUTION
An exclusive glutaraldehyde formula

*Journal of Clinical Microbiology, Vol. 18, No. 3, P. 535. To determine whether the HBV could be inactivated by intermediate to high-level disinfectants, five chimpanzees were each challenged with an inoculum treated with a different germicidal chemical. Researchers observed that the small amount of direct data, although not conclusive, will have to suffice until a laboratory culture method is developed.

These and other studies available upon request.



Sporicidin International 4000 Massachusetts Avenue, N.W., Washington, D.C. 20016 Telephone: (800) 424-3733

INFECTION CONTROL

Table of Contents

Editorial

- Can We Protect Our Patients and Employees from Childhood Diseases?** 307
Dieter H.M. Gröschel, MD

Original Articles

- Prevalence of Measles Antibodies in Hospital Personnel** 309
Teresa Chou, MPH; Diane Weil, MPH; Paul M. Arnow, MD
- Hospital Experience With Varicella-Zoster Virus** 312
Keith Krasinski, MD; Robert S. Holzman, MD;
Rita LaCouture, RN; Alfred Florman, MD
- Strict Versus Modified Isolation for Prevention of Nosocomial Transmission of Methicillin-Resistant *Staphylococcus aureus*** 317
Bruce S. Ribner, MD, MPH; Martha N. Landry, RN;
Gail L. Gholson, RN
- The Efficacy of a Florida Hospital Consortium for Infection Control: 1975-1982** 321
N. Joel Ehrenkranz, MD

Special Sections

- Readers' Forum: Results of a Survey of Infection Control Practices for Respiratory Therapy Equipment** 327
Theresa A. Goularte, BS, MPH; Donald E. Craven, MD
- Clinical Pharmacology of Antibiotics: Review of Imipenem** 333
Soon-young Park, PharmD; Richard H. Parker, MD
- Infection Control and Employee Health: Marketing a Hepatitis B Vaccine Program** 339
Rose Haas, RN; Mary Ellen Beideman, RN

Departments

- | | | | |
|--------------------------------|-----|-------------------------------|-----|
| Information for Authors | 301 | Calendar of Events | 342 |
| Letters to the Editor | 305 | Classified Marketplace | 344 |

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

Publisher: Infection Control (ISSN-0195-9417) is published monthly by SLACK Incorporated, 6900 Grove Road, Thorofare, New Jersey 08086. Telephone: (609) 848-1000.

Copyright 1986: 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—\$35.00; Two years—\$60.00; Three years—\$75.00. Institutional: One year—\$50.00; Two years—\$75.00; Three years—\$90.00; all other countries: \$15.00 additional each year. Single copies of current issues may be obtained for \$5.00, United States and possessions; \$8.00 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 08086. **Postmaster:** Send address changes to SLACK Incorporated, 6900 Grove Road, Thorofare, NJ 08086.

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

EDITOR

Richard P. Wenzel, MD
Charlottesville, Virginia

ACTING EDITOR 1985-1986

Dieter H.M. Gröschel, MD
Charlottesville, Virginia

SENIOR ASSOCIATE EDITOR

William Schaffner, MD
Nashville, Tennessee

ASSOCIATE EDITORS

Sue Crow, RN, MSN
Shreveport, Louisiana

John E. McGowan, Jr., MD
Atlanta, Georgia

Dennis G. Maki, MD
Madison, Wisconsin



SLACK Incorporated
6900 Grove Road
Thorofare, New Jersey 08086

Publisher
Richard N. Roash

Associate Publisher
Eric M. Baloff

Executive Editor
Donna Carpenter

Assistant Editor
Jane F. Martens

Circulation Manager
Kevin J. Fenton

Advertising Manager
Randall Roash

**Advertising Sales
Coordinator**
Betty Martz

**Classified
Advertising Representative**
Donna M. Coles

EDITORIAL ADVISORY BOARD

Robert C. Aber, MD
Hershey, Pennsylvania

Paul Arnow, MD
Chicago, Illinois

Charles S. Bryan, MD
Columbia, South Carolina

John P. Burke, MD
Salt Lake City, Utah

Mary Castle, RN, MPH
Berkeley, California

Marie B. Coyle, PhD
Seattle, Washington

Burke A. Cunha, MD
Mineola, New York

Richard E. Dixon, MD
Trenton, New Jersey

Mark Eggleston, PharmD
Washington, DC

Harvey A. Elder, MD
Loma Linda, California

Bruce Farber, MD
Pittsburgh, Pennsylvania

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

Peter A. Gross, MD
Hackensack, New Jersey

Karen Hadley, RN, MPH
New Orleans, Louisiana

David K. Henderson, MD
Bethesda, Maryland

Peter N.R. Heseltine, MD
Los Angeles, California

Cyrus C. Hopkins, MD
Boston, Massachusetts

Allen B. Kaiser, MD
Nashville, Tennessee

Donald L. Kaiser, DrPH
Charlottesville, Virginia

Elaine Larson, PhD
Cabin John, Maryland

Harold Laufman, MD, PhD
New York, New York

William J. Ledger, MD
New York, New York

Barbara McArthur, RN, PhD
Detroit, Michigan

Rob Roy MacGregor, MD
Philadelphia, Pennsylvania

C. Glen Mayhall, MD
Richmond, Virginia

Ronald Lee Nichols, MD
New Orleans, Louisiana

Harry C. Nottebart, Jr., JD, MD
Richmond, Virginia

James E. Peacock, Jr., MD
Winston-Salem, North Carolina

Frank S. Rhame, MD
Minneapolis, Minnesota

William A. Rutala, PhD, MPH
Chapel Hill, North Carolina

William E. Scheckler, MD
Madison, Wisconsin

Robert J. Shannon, MSPH
Boston, Massachusetts

Walter E. Stamm, MD
Seattle, Washington

Charles W. Stratton, MD
Nashville, Tennessee

George H. Talbot, MD
Philadelphia, PA

Timothy R. Townsend, MD
Baltimore, Maryland

William M. Valenti, MD
Rochester, New York

James Veazey, MD
Albany, New York

Kathy J. Wydra, RN
Geneva, New York

FOREIGN ADVISORY BOARD

Graham Ayliffe, MD, FRCPath
Birmingham, England

Professor G. Berencsi
Szeged, Hungary

David Birnbaum, MPH
Sidney, British Columbia, Canada

Professor Jaap Dankert
Groningen, Netherlands

Professor Dr. F. Daschner
Freiburg, West Germany

Lars O. Kallings, MD
Stockholm, Sweden

Professor W.B. Kędzia
Sieroca, Poland

Professor A.P. Krasilnikov
Minsk, USSR

Professor Dr. W. Marget
Munich, West Germany

Bertil Nyström, MD
Huddinge, Sweden

Ian Phillips, MA, MD, MRCPath
London, England

Samuel Ponce de Leon, MD
Mexico City, Mexico

Hans Reber, MD
Basel, Switzerland

Professor Gerald Reybrouck
Leuven, Belgium

Manfred L. Rotter, MD, DipBact
Vienna, Austria

Theodore Sacks, MD
Jerusalem, Israel

Dr. Bernhard M. Thimm
Federal Republic of Germany

Professor Dr. med. H.P. Werner
Mainz, West Germany

Professor Dr. W. Weuffen
Greifswald, German Democratic
Republic