SEPTEMBER 1987 VOLUME 8, NUMBER 9 VOLUME 8, NUMBER



EDITORIAL

Skin Tests for Tuberculosis J.E. Kasik, MD

ORIGINAL ARTICLES

Tuberculosis Screening in the Long-term Care Setting Loraine E. Price, BSN, CIC; William A. Rutala, PhD

Determinants of Legionella pneumophila Contamination of Water Distribution Systems: 15-Hospital Prospective Study Richard M. Vickers, BS; Victor L. Yu, MD; S. Sue Hanna, MPH, RN; Paul Muraca, MS; Warren Diven, PhD; Neil Carmen, BS, MER; Floyd B. Taylor, DSc

Nosocomial Transmission of Hepatitis A in an Adult Population Ramona Baptiste, BS, RN; Deloris Koziol, MPH, MT (ASCP); David K. Henderson, MD

Quantity of Soap as a Variable in Handwashing Elaine L. Larson, RN, PhD, FAAN; Paul I. Eke, MSc; Mary P. Wilder; Barbara E. Laughon, PhD

SPECIAL SECTIONS

Readers' Forum: The Hygienic Situation in 56 German, 33 Austrian, and 25 Belgian Intensive Care Units H. Benzer; P. Brühl; W. Dietzel; J. Kilian; F. Lackner; G. Reybrouck; M. Rotter; G. Werner

Clinical Pharmacology of Antibiotics: Agents for the Treatment of *Pseudomonas aeruginosa* Infections Mark Eggleston, PharmD

Product Commentary: Handwashing Agents Nancy B. Bjerke, BSN, MA, CIC To physicians who have concern for the personnel in the laboratories they use:

Minimize exposure of laboratory personnel

Now there's a more convenient closed system for culturing mycobacteria from the blood of immunocompromised patients including those with AIDS. It's the BACTEC 13A Medium, along with the BACTEC 460 TB System. Since blood is directly inoculated into the BACTEC 13A Medium without prior concentration, this new method minimizes manipulation and is more convenient than the lysis centrifugation culture method.

The BACTEC 13A Medium, in conjunction with the BACTEC 460 TB System is a cost effective method for the rapid recovery of mycobacteria from the blood of patients with AIDS and other immunocompromised syndromes. It provides comparable recovery and faster detection than processing blood using a lysis centrifugation culture method.

For results of a multiclinic evaluation of the BACTEC 13A Mycobacteria Blood Culturing Medium, call or write Johnston Laboratories. We will send this data to you or to the laboratorians whose names you provide.

BECTON DICKINSON & CO.

Johnston Laboratories Division 383 Hillen Rd., Towson, MD 21204 Call toll-free 1-800-638-8656. (In Maryland: 337-8700) In Canada: 1021 Meyerside Drive, Unit 8 Mississauga, Ontario L5T IJ6 (416) 677-0260. Toll-free 1-800-268-4744

Copyright 1987 Becton Dickinson and Company BACTEC is a trademark of Becton Dickinson and Company



to ADS

Hands that serve deserve the best

HIBICLENS

Antiseptic/antimicrobial skin cleanser



INFECTION CONTROL®

Table of Contents

EDITORIAL

Skin Tests for Tuberculosis J.E. Kasik, MD			350
ORIGINAL ARTICLES			
Tuberculosis Screening in the Long-term Care Setting Loraine E. Price, BSN, CIC; William A. Rutala, PhD			353
Determinants of Legionella pneumophila Contamination of Water Distribution Systems: 15-Hospital Prospective Study Richard M. Vickers, BS; Victor L. Yu, MD; S. Sue Hanna, MPH, RN; Paul Muraca, MS; Warren Diven, PhD; Neil Carmen, BS, MER; Floyd B. Taylor, DSc			357
Nosocomial Transmission of Hepatitis A in an Adult Population Ramona Baptiste, BS, RN; Deloris Koziol, MPH, MT (ASCP); David K. Henderson, MD			364
Quantity of Soap as a Variable in Handwashing Elaine L. Larson, RN, PhD, FAAN; Paul I. Eke, MSc; Mary P. Wilder; Barbara E. Laughon, PhD			371
SPECIAL SECTIONS			
Readers' Forum: The Hygienic Situation in 56 German, 33 Austrian, and 25 Belgian Intensive Care Units H. Benzer; P. Brühl; W. Dietzel; J. Kilian; F. Lackner; G. Reybrouck; M. Rotter; G. Werner			376
Clinical Pharmacology of Antib of <i>Pseudomonas aeruginosa</i> Infect Mark Eggleston, PharmD	iotics: ctions	Agents for the Treatment	380
Product Commentary: Handwashing Agents Nancy B. Bjerke, BSN, MA, CIC			384
DEPARTMENTS			
Information for Authors	341	Calendar of Events	386
			000
Letters to the Editor Book Reviews	347 386	Classified Marketplace	388

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 1987: 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 Błdg., 9-18, Kanda Surugadai 2chome, Chiyoda-ku, Tokyo 101, Japan. Subscription rates in the US and possessions: Individual: One year—\$40.00; Two years—\$66.00; Three years—\$94.00. Institutional: One year—\$55.00; Two years—\$92.00; Three years—\$128.00; 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 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.

INFECTION CONTROL® / Editorial Board

EDITOR

Richard P. Wenzel, MD, MSc Iowa City, Iowa

SENIOR ASSOCIATE EDITOR

William Schaffner, MD Nashville, Tennessee

ASSOCIATE EDITORS

Sue Crow, MSN, RN Shreveport, Louisiana

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

Dennis G. Maki, MD Madison, Wisconsin

SLACK

SLACK Incorporated 6900 Grove Road Thorofare, New Jersey 08086

Publisher Richard N. Roash

Editorial Director Donna Carpenter

Senior Editor/Development John C. Carter

Editorial Coordinator Sandra L. Patterson

Assistant Editor Dawn A. Zwick

Editorial Assistant Mary Lou Jerrell

Production Manager Jim Griffin

Production Coordinator Lester Robeson

Circulation Manager Kevin J. Fenton

Advertising Manager Randall Roash

Advertising Sales Representative Wayne M. McCourt

Advertising Sales Coordinator Betty Martz

Classified

EDITORIAL OFFICES

C41 General Hospital University of Iowa Hospitals and Clinics Iowa City, Iowa 52242 (319) 356-0464

William J. Hausler, Jr., PhD

R. Michael Massanari, MD, MS

Michael Pfaller, MD

Robert F. Woolson, PhD

Managing Editor Marikay Klein

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, MPH, RN Berkeley, California

Marie B. Coyle, PhD Seattle, Washington

Burke A. Cunha, MD Mineola, New York

Richard E. Dixon, MD Trenton, New Jersey

Leigh G. Donowitz, MD Charlottesville, Virginia

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

Angella Goetz, MNEd, RN Pittsburgh, Pennsylvania

Donald A. Goldmann, MD Boston, Massachusetts

Dieter H.M. Gröschel, MD Charlottesville, Virginia Peter A. Gross, MD Hackensack, New Jersey

Karen Hadley, MPH, RN 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

Barbara McArthur, PhD, RN Detroit, Michigan

Rob Roy MacGregor, MD Philadelphia, Pennsylvania

C. Glen Mayhall, MD Richmond, Virginia

Patti J. Miller, MS Charlottesville, Virginia

Harry C. Nottebart, Jr., JD, MD London. England 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

Walter E. Stamm, MD Seattle, Washington

Charles W. Stratton, MD Nashville, Tennessee

Richard L. Sweet, MD San Francisco, California

George H. Talbot, MD Philadelphia, Pennsylvania

Timothy R. Townsend, MD Baltimore, Maryland

James Veazey, MD Albany, 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. Krasilnikow Minsk, USSR

Professor Dr. W. Marget Munich, West Germany

Jonathan L. Meakins, MD, FRCSC, FACS Montreal, Canada

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

POST — The Ultimate In-Room Sharps Containment System

The Answer to your Sharps Disposal Problem—an in room system with a vertical drop. The proven effective, efficient way to avoid sticks.

- Lockable, metal cabinets and plastic containers are available in both six and ten quart sizes to meet your specific needs.
- Sharps disposal with an easy, natural hand motion.

- Snap-tight locking top prevents accidents.
- Sharps disposal in the patients' room means NO RECAPPING. Safe, immediate disposal.
- No tabs or doors to manipulate before disposal. Easy-use, onehand disposal, combined with VERTICAL DROP means maximum safety.

Pat. Pend.

6

Don't Evaluate Without POST!

Sample safety cabinet and plastic insert are available for evaluation. Send the enclosed form, or call today.

NAME		
TITLE		
HOSPITAL		
ADDRESS		
CITY	ZIP	
PHONE ()_	EXT	

- Sharps FILL LEVEL is always in view, controlling over filling.
- Safe, immediate disposal of large size needles and syringes.

POST MEDICAL INC.

PO BOX 29863 ATLANTA, GA 30359 (404) 325-9300

TOUGH ON STAPH. GENTLE ON STAFF.

It shouldn't hurt to wash your hands. Yet that's just what happens at so many medical facilities. But now relief is as close as your fingertips. With the new ProCare[™] hand-care system from Sani-Fresh International.

ProCare's rich emollients refresh tired hands. Its nonstaining, synthetic-based products gently clean without irritation. And its thick, creamy formulations bathe skin in a luxurious lather.*

But don't let ProCare's mildmannered qualities fool you. Because washing with it eliminates a

wide range of transient microorganisms. Its antiseptic ingredients** provide proven effectiveness



Introducing new ProCare™ Extra mild to encourage frequent handwashing. for all non-surgical applications.

New ProCare also provides something else—a complete system of disposable hermetically sealed pump/pouch refills. Plus a free dispenser which can be operated with one hand to reduce cross contamination. And which complies with CDC guidelines.

So go tough on staph, not on staff. Call toll-free 1-800-322-2200 to order new ProCare. And take the pain out of fighting nosocomial infections. Ask about new ProCare SpectraCareTM, Para-San[®] and Alco-San[®] Anti-

septic Hand Care Products. Or ProCare extra-mild Ultra-Kind™ Multi-Purpose Hand Wash.

*Alco-San is a non-synthetic waterless formulation. **SpectraCare and Para-San contain Chloroxylenol. Alco-San contains gelled Isopropyl Alcohol.

