

INFECTION CONTROL AND HOSPITAL EPIDEMIOLOGY[®]

EDITORIAL

- Candida* Species: Emerging Hospital Bloodstream Pathogens 523
RICHARD F. WENZEL, MD, MSc; MICHAEL A. PFALLER, MD

ORIGINAL ARTICLES

- Infections and Antibiotic Use in a Community Hospital, 1971-1990 525
THOMAS S. HUTH, MD; JOHN P. BURKE, MD

- Microbial Growth and Endotoxin Production in the Intravenous Anesthetic Propofol 535
MATTHEW J. ARDUINO, MS, DRPH; LEE A. BLAND, MA, MPH; SIGRID K. MCALLISTER, BS; SONIA M. AGUERO, BS; MARGARITA E. VILLARINO, MD, MPH; MICHAEL M. MCNEIL, MD, MPH; WILLIAM R. JARVIS, MD; MARTIN S. FAVERO, PHD

- Migration to Rural Areas by HIV Patients: Impact on HIV-Related Healthcare Use 540
KRISTINE DAVIS, RN, MA; JACK STAPLETON, MD

BRIEF REPORT

- Complications Associated With Central Venous Catheters Inserted in Critically ill Neonates 544
VICTORIA HRUSZKEWYCZ, BSN; PAUL C. HOLTROP, MD; DANIEL G. BATTON, MD; ROBERT S. MORDEN, MD; PETER GIBSON, MD; JEFFREY D. BAND, MD

CLINICAL PHARMACOLOGY OF ANTIBIOTICS

- Ofloxacin 549
ALLAN R. TUNKEL, MD, PHD; W. MICHAEL SCHELD, MD

EMPORIATRICS

- Cholera, Travel, and Infection Control 558
MARY D. NETTLEMAN, MD

- SHEA NEWSLETTER** 563

- MEDICAL NEWS** 566

LETTERS TO THE EDITOR

- A Pseudo-outbreak in a Nursing Home 521
CHRISTIANE POULIN, MD, MSc; WALTER F. SCHLECH, III, MD, FACP, FRCPC

SOME PEOPLE TAKE DRUG ABUSE TO HEART,



Most cocaine users are so dedicated to the drug that what it does to their hearts never enters their minds. They don't realize that every time they use cocaine, they put themselves at risk for such potentially fatal cardiovascular complications as hypertensive crisis.. . myocarditis.. .myocardial infarction . . .ventricular tachycardia.. .ventricular fibrillation.. .even cardiac arrest.

Chances are, at least some of these people are your patients. And many of them may feel more comfort-

able telling a nurse what they can't-or won't-tell a doctor. That's why your role becomes critical in helping suspected drug abusers understand what illegal drug use does to their bodies.

As key members of the health care team, nurses *can* make a difference in helping to curb drug abuse, and in preventing some of its deadliest consequences. The next time you suspect a patient may be using cocaine-or *any* illegal substance—have a heart-to-heart talk about the damage these drugs can do.

**A short talk
can go a long way.**

Partnership for a Drug-Free America

INFECTION CONTROL AND HOSPITAL EPIDEMIOLOGY

CONTENTS

EDITORIAL

Candida Species: Emerging Hospital Bloodstream Pathogens **523**

RICHARD P. WENZEL, MD, MSc; MICHAEL A. PFALLER, MD

ORIGINAL ARTICLES

Infections and Antibiotic Use in a Community Hospital, 1971-1990 **525**

THOMAS S. HUTH, MD; JOHN P. BURKE, MD

Microbial Growth and Endotoxin Production in the Intravenous Anesthetic Propofol **535**

**MATTHEW J. ARDUINO, MS, DRPH; LEE A. BLAND, MA, MPH;
SIGRID K. McALLISTER, BS; SONIA M. AGUERO, BS; MARGARITA E. VILIARINO, MD, MPH;
MICHAEL M. McNEIL, MD, MPH; WILLIAM R. JARVIS, MD; MARTIN S. FAVERO, PHD**

Migration to Rural Areas by HIV Patients: Impact on HIV-Related Healthcare Use **540**

KRISTINE DAVIS, RN, MA, JACK STAPLETON, MD

BRIEF REPORT

Complications Associated With Central Venous Catheters Inserted in Critically Ill Neonates **544**

**VICTORIA HRUSZKEWYCZ, BSN; PAUL C. HOLTHROP, MD; DANIEL G. BATTON, MD;
ROBERT S. MORDEN, MD; PETER GIBSON, MD; JEFFREY D. BAND, MD**

CLINICAL PHARMACOLOGY OF ANTIBIOTICS

Ofloxacin **549**

ALLAN R. TUNKEL, MD, PhD; W. MICHAEL SCHELD, MD

EMPORIATRICS

Cholera. Travel. and Infection Control **558**

MARY D. NETTLEMAN, MD

DEPARTMENTS

Information for Authors **517**

Copyright and Republication Policy **519**

Letters to the Editor **521**

SHEA Newsletter **563**

Medical News **566**

Book Reviews **569**

Calendar of Events **571**

THE PUBLICATION OF ADVERTISING IN THE JOURNAL DOES NOT CONSTITUTE ANY GUARANTEE OR ENDORSEMENT BY THE SOCIETY FOR HOSPITAL 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) is published exclusively by SLACK Incorporated 12 times a year. Address: 6900 Grove Rd., Thorofare, NJ 08086. Telephone: (609) 848-1000.

COPYRIGHT 1991 by The Society for Hospital Epidemiology of America, Inc. and SLACK Incorporated. 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 in the United States and possessions: Individual: One year—\$70.00; Two years—\$105.00; Three years—\$135.00; Institutional: One year—\$80.00; Two years—\$120.00; Three years—\$160.00. Fellows: \$35 per year. Canada: \$18.00 additional each year; all other countries: \$36.00 additional each year. Single copies of current issues may be obtained for \$8.00. United States and possessions: \$16.00 all other countries.

REPRINTS: All requests to reprint or use material published herein should be addressed to Lester J. Robeson, SLACK Incorporated, 6900 Grove Rd., Thorofare, NJ 08086. For reprint orders and prices, contact Lester T. Robeson at (609) 848-1000. 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, 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, Cumulative Index to Nursing and Allied Health Literature, and Nursing Abstracts.

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

EDITOR

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 Paris, France
 J. Wesley Alexander, MD Cincinnati, Ohio
 Paul Arnow, MD Chicago, Illinois
 Graham A.J. Ayliffe, MD Birmingham, United Kingdom
 Neil L. Barg, MD Yakima, Washington
 Elizabeth Ann Bolyard, RN, MPH, CIC Atlanta, Georgia
 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 Boston, Massachusetts
 Sue Crow, MSN, RN, CIC Shreveport, Louisiana
 Franz Daschner, MD Freiburg, Federal Republic of Germany
 Leigh G. Donowitz, MD Charlottesville, Virginia
 Charles E. Edmiston, Jr., PhD Milwaukee, Wisconsin
 Theodore C. Eickhoff, MD Denver, Colorado
 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 Farmington, Connecticut
 Velvl Greene, PhD, MPH Beer Sheva, Israel
 Robert Gaynes, MD Atlanta, Georgia
 David W. Gregory, MD Nashville, Tennessee
 David K. Henderson, MD Bethesda, Maryland
 Peter N.R. Heseltine, MD Los Angeles, California
 Karen Hoffmann, RN, CIC, MS Chapel Hill, North Carolina
 Marguerite McMillan Jackson, RN, PhD San Diego, California
 Janine Jagger, MPH, PhD Charlottesville, Virginia
 William R. Jarvis, MD Atlanta, Georgia
 Douglas S. Kernodle, MD Nashville, Tennessee
 Robert H. Latham, MD Nashville, Tennessee
 Lewis B. Lefkowitz, MD Nashville, Tennessee
 Hsieh-Shong Leu, MD, MSc Taipei, Taiwan
 Jack Levy, MD Brussels, Belgium
 Victor Lorian, MD Bronx, New York
 Dennis G. Maki, MD Madison, Wisconsin
 Professor Dr. Walter Marget Munich, Federal Republic of Germany
 William J. Martone, MD Bethesda, Maryland
 Allison McGeer, MD Toronto, Ontario, Canada
 John E. McGowan, Jr., MD Atlanta, Georgia
 Jonathan L. Meakins, MD, DSc Montreal, Quebec, Canada
 Raf Mertens, MD Brussels, Belgium
 Robert R. Muder, MD Pittsburgh, Pennsylvania
 Joseph M. Mylotte, MD, CIC Buffalo, New York
 Lindsay Nicolle, MD Winnipeg, Manitoba, Canada
 Juhani Ojajarvi, MD Helsinki, Finland
 Michael T. Osterholm, PhD, MPH Minneapolis, Minnesota
 Jan Evans Patterson, MD San Antonio, Texas
 Sindy M. Paul, MD Trenton, New Jersey
 Michael A. Pfaller, MD Iowa City, Iowa
 Samuel Ponce de Leon, MD, MSc Mexico City, Mexico
 Isaam Raad, MD Houston, Texas
 Manfred L. Rotter, MD, DipBact Vienna, Austria
 Theodore Sacks, MD Jerusalem, Israel
 William E. Scheckler, MD Madison, Wisconsin
 Kent Sepkowitz, MD New York City, New York
 Denis Spelman, MD Prahran Victoria, Australia
 Michael L. Tapper, MD New York, New York
 Clyde Thornsberry, PhD Brentwood, Tennessee
 Professor Leonid P. Titov Minsk, Republic of Belarus
 Timothy R. Townsend, MD Millwood, Virginia
 Antoni Trilla, MD, PhD Barcelona, Spain
 Professor Wang Shu-Qun Beijing, People's Republic of China
 J. John Weems, Jr., MD Greenville, South Carolina
 Robert A. Weinstein, MD Chicago, Illinois
 Professor Dr. W. Weuffen Greifswald, Federal Republic of Germany
 Sergio B. Wey, MD São Paulo, Brazil
 Rebecca Wurtz, MD Evanston, Illinois

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, CCCC

Production Director

Christine Malin

Production Coordinator

Joanne Patterson

Publishing Director/ Advertising

Wayne McCourt

Pharmaceutical Group Sales Director

Michael LoPresti

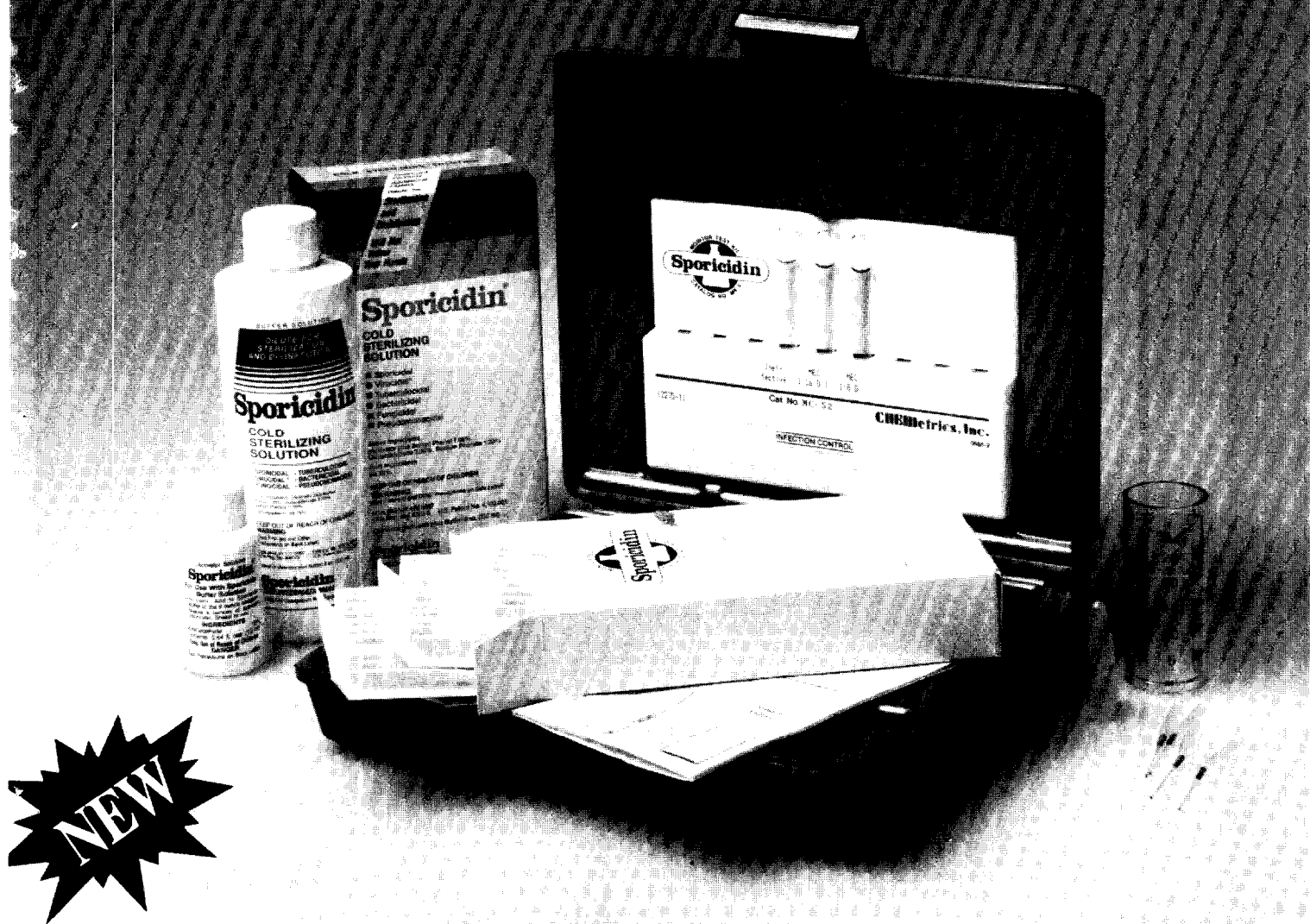
Advertising Sales Representative

Jennine Kane

Classified/Recruitment Sales Manager

Michele Burch

SPORICIDIN® MONITOR TEST KIT



PROOF FOR EFFECTIVE CONCENTRATIONS

The Sporicidin Monitor Test Kit is a color indicator which is used to determine effective concentrations of 1:8 and 1:16 dilutions of Sporicidin Cold Sterilizing Solution.

To order, or for additional information,
call: (800) 424-3733



Sporicidin International, 12000 Old Georgetown Road, Rockville, MD 20852 • (301) 231-7700 • FAX (301) 231-8165



**This
publication is
available in
microform.**

University Microfilms
International reproduces this publication
in microform: microfiche and 16mm or 35mm film.
For information about this publication or any of the
more than 13,000 titles we offer, complete and mail
the coupon to: University Microfilms International,
300 N. Zeeb Road, Ann Arbor, MI 48106. Call us
toll-free for an immediate response: 800-521-3044
Or call collect in Michigan, Alaska and Hawaii:
313-761-4700.

**University
Microfilms
International**

Please send information about these titles:

Name _____
Company/Institution _____
Address _____
City _____ State _____ Zip _____
Phone (____) _____