

**INFECTION  
CONTROL**®

**ic**

November/December 1981

Volume 2/Number 6

**Editorial**

**Dilemmas of the Beta-Lactam Explosion**

Peter C. Fuchs, M.D. and Ronald N. Jones, M.D.

**Original Articles**

**Observations Relating to an Inter-Hospital  
Outbreak of Methicillin-Resistant  
*Staphylococcus aureus*: Role of Antimicrobial  
Therapy in Infection Control**

Thomas T. Ward, M.D.; Rick E. Winn, M.D.;  
Alan I. Hartstein, M.D.; David L. Sewell, Ph.D.

***Klebsiella pneumoniae* Pseudobacteremia Due  
to Cross-Contamination of a Radiometric  
Blood Culture Analyzer**

Gary P. Greenhood, M.D.; Anita K. Highsmith, M.D.;  
James R. Allen, M.D.; William A. Causey, M.D.;  
C. Michael West, M.D.; and Richard E. Dixon, M.D.

**The Control of Chagas' Disease in Mambai',  
Brazil: The Initial Phases**

P.D. Marsden, M.D.



# BARD ANNOUNCES

---

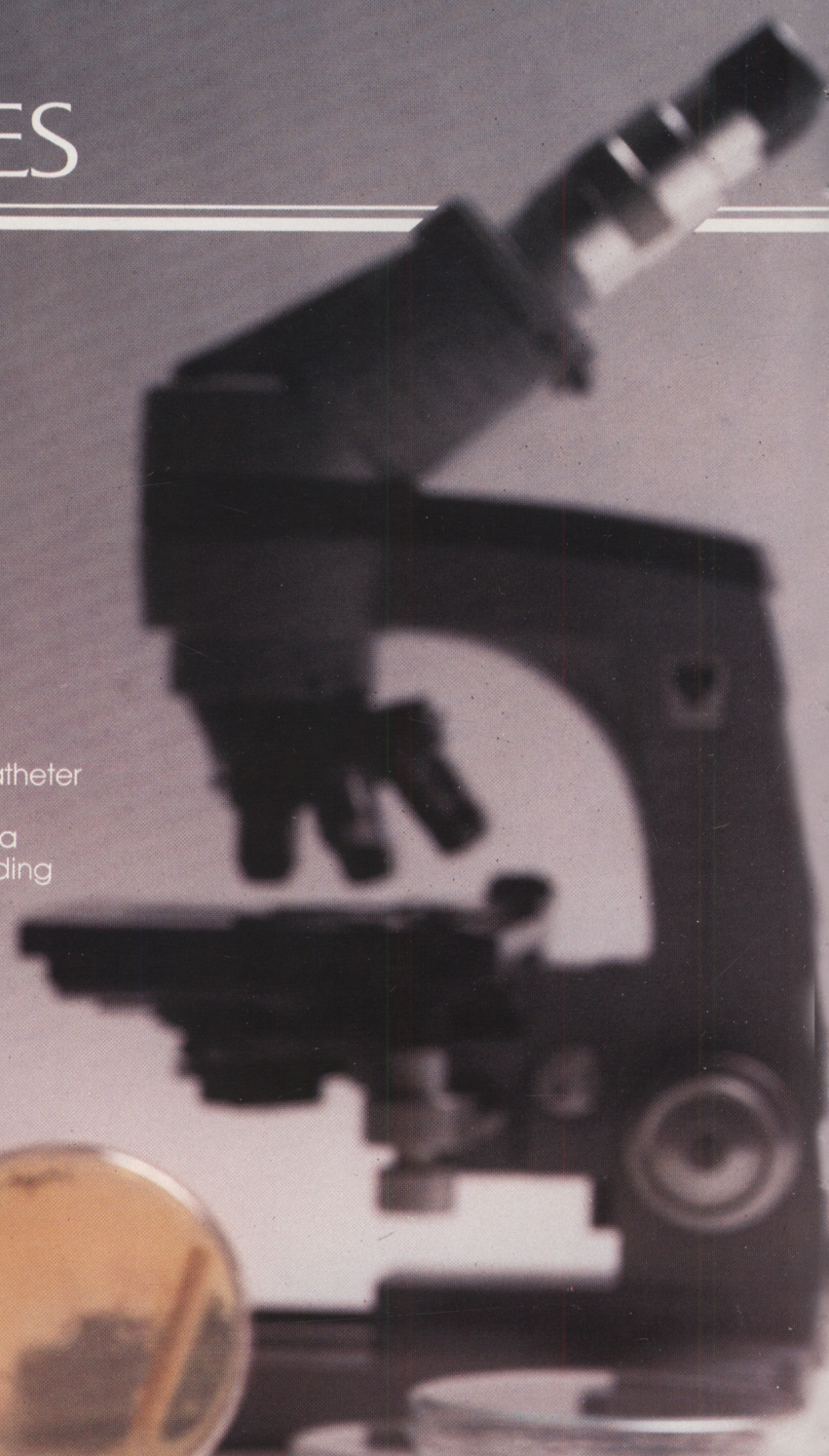
---

bn-74  
CATHETER COATING TM

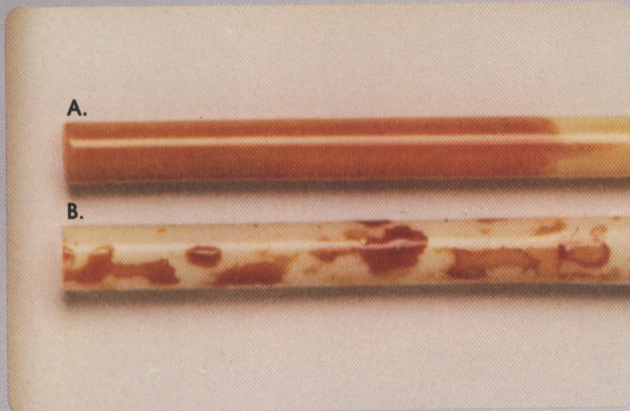
AN ADVANCEMENT  
IN THE FIGHT AGAINST  
NOSOCOMIAL URINARY  
TRACT INFECTION

Available Exclusively on the bn-74  
Coated BARDEX® All Silicone Foley Catheter

A NEW TECHNOLOGY now offers a  
barrier to bacterial migration by providing  
a surface on a Foley Catheter which  
effectively absorbs antimicro-  
bial solutions.



# THE ONLY FOLEY CATHETER WITH THESE INFECTION CONTROL FEATURES



## IT'S WETTABLE

Absorbs antimicrobial solutions into catheter surface to aid in reducing bacterial migration

A. bn-74™ Coated Catheter section:

Unique hydrophilic nature of bn-74 Coating allows povidone-iodine to absorb into the catheter surface

B. Hydrophobic surfaces of uncoated catheter sections: Povidone-iodine beads and rolls off uncoated latex or silicone catheters



## IT RESISTS STATIC BUILDUP

C. The bn-74 hydrophilic surface reduces static electricity, minimizing attraction of particulate matter—another aid in infection control

D. Static electricity on hydrophobic surfaces of uncoated silicone catheters can attract pathogen-containing dust or lint, creating an additional infection hazard

## THE bn-74 CONTRIBUTION TO INFECTION CONTROL

Because bn-74 absorbs antimicrobial solutions, it is now technically feasible to prepare a bactericidal surface on the catheter shaft surface at a potential site of contamination...After insertion, the catheter is coated with an antimicrobial solution from where it enters the meatus to the catheter bifurcation. In laboratory testing bn-74 coated catheters and uncoated sections were treated with an antimicrobial solution and then exposed to *Staphylococcus aureus* and *Escherichia coli*. The results showed effectiveness of the absorbed antimicrobial solution on the bn-74 coated catheter against the bacteria being tested.

bn-74  
CATHETER COATING™

COATED BARDEX®  
ALL SILICONE FOLEY  
CATHETER

AN ADVANCEMENT  
IN CATHETER COATING...

A CONTRIBUTION TO  
INFECTION CONTROL

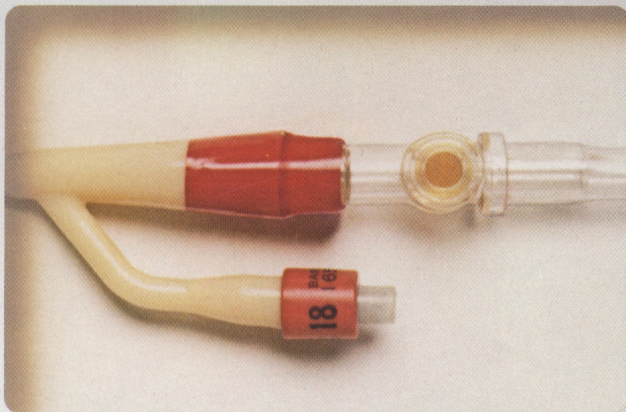
ONLY FROM BARD...  
EXCLUSIVE COMPONENTS IN A UNIQUE  
SYSTEM FOR INFECTION CONTROL

# bn-74

CATHETER COATING TM

## COATED BARDEX® ALL SILICONE FOLEY CATHETER

- Absorbs antimicrobial solutions to help minimize bacterial migration
- Resists static buildup to further aid in infection control



**EXCLUSIVE BARD® TAMPER EVIDENT SEAL\***  
Helps provide a continuous, unbroken catheter/  
drainage tube linkup

- prevents accidental disconnection of catheter connector
- discourages intentional disconnection
- provides visual evidence of a break in the closed system

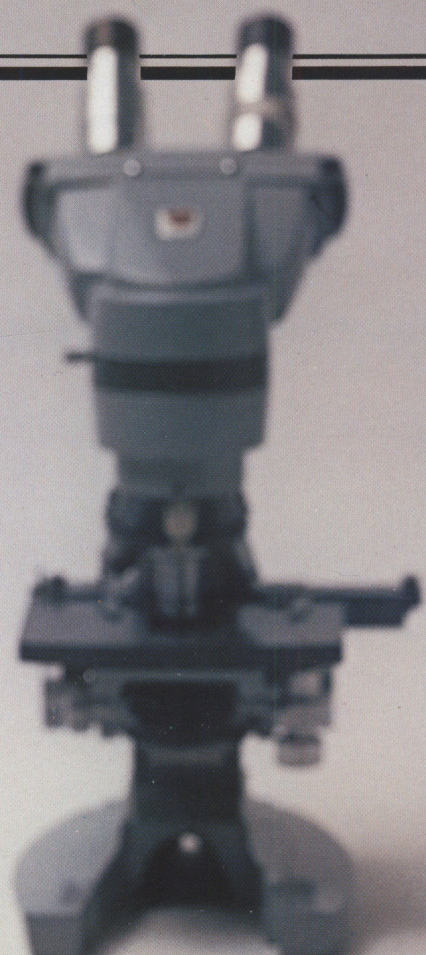
**The bn-74 Coated BARDEX® All Silicone Foley Catheter**  
Available in a tray with complete components for sterile catheterization procedure. Also available individually and in a BARD® Bladder Care Tray with Urine Meter Drainage Bag.

procedure. Also available in a BARD® Bladder Drainage Bag.

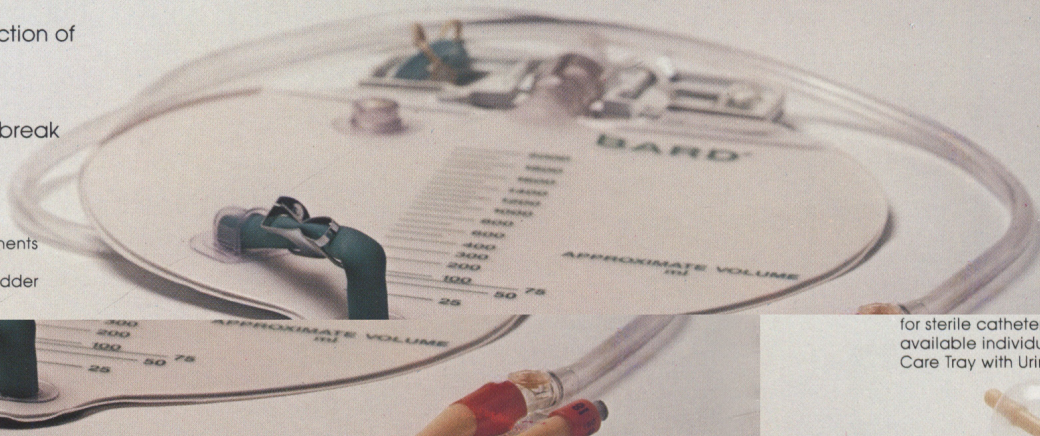
ers:  
use 10cc maximum  
n catheter, do not use oint-  
a petrolatum base. They will  
lastomer and may burst balloon.

gs and Foley Catheters:  
Law restricts these devices to  
y physician.

are trademarks registered in the  
U.S. Patent and Trademark Office



**BARD® CENTER ENTRY URINARY DRAINAGE BAG**  
■ Limits pooling ■ Provides better balance ■ Is easier to empty



for sterile catheterization  
available individually and  
Care Tray with Urine Meter

Regarding all Foley Cath  
USAGE: For 5cc balloons  
sterile water. WARNING: r  
ments or lubricants having  
damage latex or silicone

Regarding all Drainage B  
CAUTION: Federal (U.S.A.  
sale by or on the order of

After insertion, the antimicrobial solution is applied to the catheter shaft from the meatus to the bifurcation of the catheter.

**BARD UROLOGICAL DIVISION**

INTEGRITY  
© B. Bard, Inc



**Editorial**

**Dilemmas of the Beta-Lactam Explosion**

Peter C. Fuchs, M.D. and Ronald N. Jones, M.D. 451

**Original Articles**

**Observations Relating to an Inter-Hospital Outbreak of Methicillin-Resistant *Staphylococcus aureus*: Role of Antimicrobial Therapy in Infection Control**

Thomas T. Ward, M.D.; Rick E. Winn, M.D.; Alan I. Hartstein, M.D.; and David L. Sewell, Ph.D. 453

***Klebsiella pneumoniae* Pseudobacteremia Due to Cross-Contamination of a Radiometric Blood Culture Analyzer**

Gary P. Greenwood, M.D.; Anita K. Highsmith, M.D.; James R. Allen, M.D.; William A. Causey, M.D.; C. Michael West, M.D.; and Richard E. Dixon, M.D. 460

**The Control of Chagas' Disease in Mambai, Brazil: The Initial Phases**

P.D. Marsden, M.D. 466

**Departments**

Information for Authors 437

Letters to the Editor 440

New Developments in Infection Control 444

Book Reviews 446

Topics in Clinical Microbiology 473

Readers' Forum 478

Applied Statistics in Infection Control 483

Calendar of Events 489

Classified 491

New Products and Services 494

Index to Advertisers 505

Annual Index 506

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



**Publisher:** Infection Control is published bimonthly by Charles B. Slack, Inc., 6900 Grove Road, Thorofare, New Jersey 08086. Telephones: Thorofare (609) 848-1000; New York (212) 285-9777.

**Copyright 1981.** Published bimonthly by Charles B. Slack, Inc., 6900 Grove Road, Thorofare, New Jersey 08086; telephone (609) 848-1000. All rights reserved. No part of this publication may be reproduced without written permission from the publisher.

**Subscriptions:** Subscription requests should be addressed to the publisher. Annual subscription price is: Individual, One year—\$22.00; Two years—\$38.00; Three years—\$54.00. Student rates: \$11.00 per year. All subscriptions, without exception, will start with the first issue published after the order is received. Back copies are available, but must be purchased separately. Cost per individual copy is \$5.00. All orders for individual issues must be accompanied by payment.

**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. Controlled circulation postage is paid at Thorofare, New Jersey 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*.

# Steam and Gas.

Now...SteriGage® Indicators  
give you both steam and ethylene oxide  
sterilization security.

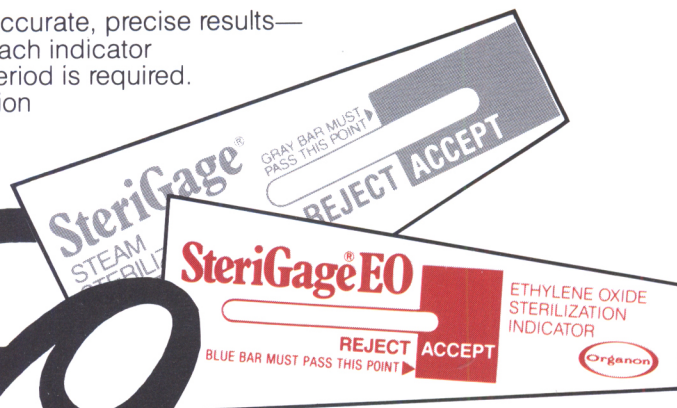
Sterilization security...it's something you and your patients  
receive with both the SteriGage Steam and SteriGage EO Ethylene  
Oxide Sterilization Indicators.

One indicator in each pack provides accurate, precise results—  
no reader interpretation is necessary. And each indicator  
provides instant readouts—no incubation period is required.

SteriGage and SteriGage EO...sterilization  
assurance for all your needs.

For further information, call toll-free  
800-631-1253, ext. 4760.

© 1981 ORGANON INC.  
ORG-7104



Distributed by:  
**Organon Hospital Products**  
Organon Inc.  
West Orange, NJ 07052



A PART OF Akzo INC



# EDITORIAL BOARD

## INFECTION CONTROL

### EDITOR

Richard P. Wenzel, MD  
Charlottesville, Virginia

### SENIOR ASSOCIATE EDITOR

William Schaffner, MD  
Nashville, Tennessee

### ASSOCIATE EDITORS

Sue Crow, RN, BS, MSN  
Shreveport, Louisiana

Dennis G. Maki, MD  
Madison, Wisconsin

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

### EDITORIAL ADVISORY BOARD

Robert C. Aber, MD  
Hershey, Pennsylvania

Charles S. Bryan, MD  
Columbia, South Carolina

John P. Burke, MD  
Salt Lake City, Utah

Richard E. Dixon, MD  
Trenton, New Jersey

Harvey A. Elder, MD  
Loma Linda, California

Peter C. Fuchs, MD, PhD  
Portland, Oregon

Richard A. Garibaldi, MD  
Farmington, Connecticut

Donald A. Goldmann, MD  
Boston, Massachusetts

Dieter H.M. Gröschel, MD  
Charlottesville, Virginia

Peter A. Gross, MD  
Hackensack, New Jersey

Karen Hadley, RN, MPH  
New Orleans, Louisiana

Cyrus C. Hopkins, MD  
Boston, Massachusetts

Allen B. Kaiser, MD  
Nashville, Tennessee

Harold Laufman, MD, PhD  
Bronx, New York

William J. Ledger, MD  
New York, New York

Barbara McArthur, RN, BSN, MS,  
MS, PhD

Detroit, Michigan

Rob Roy MacGregor, MD  
Philadelphia, Pennsylvania

C. Glen Mayhall, MD  
Richmond, Virginia

Ronald Lee Nichols, MD  
New Orleans, Louisiana

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

Karen Paul, BS, MS

Gig Harbor, Washington

Frank S. Rhame, MD

Minneapolis, Minnesota

William E. Scheckler, MD  
Madison, Wisconsin

Robert J. Shannon, MSPH  
Boston, Massachusetts

Walter E. Stamm, MD  
Seattle, Washington

Timothy R. Townsend, MD  
Baltimore, Maryland

William M. Valenti, MD  
Rochester, New York

James Veazey, MD  
Albany, New York

Kathy J. Wydra, RN  
Rochester, New York



Managing Editor  
Shelley L. Cypher

Associate Publisher  
Richard N. Roash

Charles B. Slack, Inc.  
6900 Grove Road  
Thorofare, New Jersey 08086

Assistant Editor  
Deborah A. Titus

Promotion and Circulation Manager  
Peter N. Slack

Advertising Sales Representative  
Melissa Warner

**New Convenience** Soothing foams de-germ hands "on-the-go" to help reduce cross infection between patient contacts. Pocket size cans and wall dispensers keep protection always at hand.

**Soothes and softens hands** Built-in emollients lubricate the skin to cool, soothe and soften hands—ideal for frequent use.

**De-germ Hands  
Anywhere  
Anytime  
Without Water  
In 60 Seconds**

**Fast and Effective** In laboratory tests, a 60-second application of Alcare has demonstrated 100% elimination of transient organisms from hands. Septisol Foam surgical scrub reduces scrub time to two minutes and is both bactericidal and bacteriostatic.

For complete details and a personal demonstration fill in and mail the coupon below.



## VESTAL FOAMED DEGERMERS

### Protect Caring Hands Against Cross Infection

CREATIVE CHEMISTRY  
FOR SAFER  
ENVIRONMENTS



VESTAL LABORATORIES  
A Division of Chemed Corp.  
5035 Manchester Avenue  
St. Louis, MO 63110  
(314) 535-1810



Handy pocket size  
dispenser cans

**Yes**—please have my Vestal representative call me. I'd like to know more about Vestal Foamed Degermers.

- ALCARE Foamed Alcohol Degermer for use in general nursing.  
 Septisol Foam Surgical Hand Scrub

Name \_\_\_\_\_ Title \_\_\_\_\_  
Hospital \_\_\_\_\_  
Address \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_  
Telephone \_\_\_\_\_

IC71