INFECTION CONTROL AND HOSPITAL EPIDEMIOLOGY®

EDITORIAL	
Environmental Interventions to Control Nosocomial Infections WILLIAM A. RUTALA, PHD, MPH; DAVID J. WEBER, MD, MPH	442
ORIGINAL ARTICLES	
Bactericidal Activity of Copper and Noncopper Paints TIMOTHY E. COONEY, MS	444
The Incidence of First Hickman Catheter-Related Infection and Predictors of Catheter Removal in Cancer Patients	
COLEMAN ROTSTEIN, MD; LUCY BROCK, RN; ROBIN S. ROBERTS, M TECH	451
Clostridium difficile -Associated Diarrhea and Colitis Dale N. Gerding, MD; Stuart Johnson, MD; Lance R. Peterson, MD; Maury E. Mulligan, MD; Joseph Silva Jr., PRACTICAL HEALTHCARE EPIDEMIOLOGY OSHA Inspections August J. Valenti, MD; Michael D. Decker, MD, MPH	мD 459
PRODUCT COMMENTARY	
Gas Plasma Sterilization Application of Space-Age Technology Sue Crow, RN, MSN; John H. Smith III, BS	483
Gown-Glove Interface: A Possible Solution to the Danger Zone KENNETH K. MEYER, MD, FACS; WILLIAM C. BECK, MD, FACS	488
ABSTRACTS OF LATE-BREAKING REPORTS Fifth Annual Meeting of The Society for Healthcare Epidemiology of America	438

Continued inside.



The Society for Healthcare Epidemiology of America

1995 SHEA/CDC/AHA

Training Course in Hospital Epidemiology

Program

The program will be held October 14-17, 1995 at the Hotel Inter-Continental, Miami, Florida. Timothy W. Lane, M.D.. William Martone, M.D.. and Gina Pugliese. R.N., M.S., will co-chair the program.

Purpose

This program, developed by the Society for Healthcare Epidemiology of America (SHEA). the Centers for Disease Control and Prevention (CDC), and the American Hospital Association (AHA), is intended for infectious disease fellows and new hospital epidemiologists. It emphasizes hands-on exercises in which participants work in small groups to detect, investigate, and control epidemiological problems encountered in the hospital setting. These work sessions are supplemented with lectures and seminars covering fundamental aspects of hospital epidemiology including epidemiology and surveillance, epidemic investigation, transmission and control of nosocomial Infections, disinfection and sterilization, employee health, isolation systems. regulator) compliance, and quality improvement.

Who Should Attend

You should attend if you are a hospital epidemiologist or an infection control practitioner or if you are looking for a course that will provide you the most current information concerning infection control practices and epidemiological methods in health care. This fundamental program will provide you with the opportunities to find solutions to real situations that will occur in the hospital setting. Intensive problem solving sessions are supplemented with lectures and seminars presented by leading authorities.

Scholarships

Scholarships in the amount of \$1.000 will be awarded to up to ten infectious disease fellows for the program to defray the special course fee for fellows of \$350 and expenses incurred in attending the training program.

Interested fellows must submit a letter of no more than one page describing why they would like to have additional training in hospital epidemiology A letter from the fellow's program director outlining the applicant's qualifications and suitability for the course also is required. The deadline of 10.1017/S0195941700002253 Poblished online by Cambridge University Press for receipt of scholarship applications for the course is Monday, August 14,

The SHEA Educational Activities Committee will select the scholarship recipients based on review of these letters. Winners will be notified in earl) September, 1995.

Nominations

Please send scholarship applications to:

Timothy A. Lane, M.D. c/o The Society for Healthcare Epidemiology of America 875 Kings Highway. Suite 200 Woodbury, NJ 08096-3172

Fees

Individual Registrants \$495 Fellows in Infectious Disease \$350

Credits

The Centers for Disease Control and Prevention (CDC) is accredited by the Accreditation Council for Continuing Medical Education to sponsor continuing medical education for physicians.

The Centers for Disease Control and Prevention designates this continuing education activity for up to 21 hours in Category 1 of the Physician's Recognition Award of the American Medical Association.

General Course Information

Information regarding the schedule, hotel and travel accommodations.' discount airfare, and course fees are available from SHEA (609) 845-1720. Note that application for a scholarship does <u>not</u> constitute enrollment in the program. This must be done separately.

Scholarship Awards provided in part by an educational grant from SmithKline Beecham



Vol. 16 No. 8 August 1995

INFECTION CONTROL AND HOSPITAL EPIDEMIOLOGY ®

CONTENTS

Continued from cover.

LETTERS TO THE EDITOR Additional Pointers for Preparing for a JCAHO Inspection (With Reply)	
Sue M. Parini, RN, BS, MA, CIC; Mary D. Nettleman, MD, MS	440
Brita Water Filters Contaminated F.D. Daschner, MD; H. Ruden, MD CORRECTION Clarification of Hepatitis B Vaccine Dose for Infants	440 441
CDC Issues Ebola Guidelines as Cases Continue to Occur OSHA's Respiratory Protection Standard Will Not Apply to TB HIV Transmission Reported in Dialysis Center Increased Risk of Bloodstream Infection With Needleless Device Joint Commission Board Approves Infection Control Indicators OSHA Plans Meeting of "Stakeholders" to Discuss TB Standard Nosocomial MRSA Outbreak Linked to Nasal Carriage by Physician Consecutive Annual Decreases in TB Incidence Joint Commission Now Accredits Ambulatory Care Infusion Centers Appeals Court Upholds Hospital Firing of HIV-Positive Physician Nosocomial Transmission of Tinea Corporis on a Pediatric Ward CDC Investigates Meningitis Infections Linked to Contaminated Tissue From Cadavers	450 458 482 487 491 491 492 492 492 493 493
CLASSIFIED MARKETPLACE	494
CALENDAR OF EVENTS	494
SHEA NEWS C. Glen Mayhall, MD	495
Meningitis Vaccination Update Meeting Schedule for SHEA During ICAAC New Special Interest Group in Pediatric Healthcare Epidemiology Search for Editor of SHEA News and SHEA Newsletter	495 495 495 496
Representing the Membership: SHEA and OSHA	496

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) 848-1000.

COPYRIGHT 1995 The Society for Healthcare Epidemiology of America. Inc., and SLACK Incorporated. All rights resewed. No part of this publication may be reproduced without written permission from the publisher. Printed in the USA

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—\$15.00; Two years—\$130.00; Three years—\$160.00; Institutional: One year—\$105.00; Two years—\$145.00: Three years—\$185.00. Fellows: \$35 per year with proof of training status. Canada: \$18.00 additional each year plus 7% for Canadian Goods & Services tax; all other countries: \$36.00 additional each year Single copies of current issues may be obtained for \$15.00, United States and possessions: \$30.00 all other countries.

&PRINTS: All requests to reprint or use material published herein should be addressed to Dan Boyden, SLACK Incorporated, 6900 Grove Rd., Thorofare, NJ 08086. For reprint orders and prices. contact Dan Boyden 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.

INFECTION CONTROL AND HOSPITAL EPIDEMIOLOGY is listed in Index Medicus, Current Contents-Clinical Practice. Hospital Literature Index, Cumulative Index to Nursing &Allied Health Literature, Nursing Abstracts. Laboratory Performance Information Exchange System. and RNdex Top 100.

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

Publisher

John C. Carter

Editorial Director

Production Editor

Shirley P. Strunk, ELS

Jennifer Kilpatrick

Topics in Occupational Medicine

Vice President/Group Publisher Richard N. Roash

David Weber, MD, MPH

Chapel Hill, North Carolina

INFECTION CONTROL AND HOSPITAL EPIDEMIOLOGY®

EDITORIAL ADVISORY BOARD

Paris, France Jacques F. Acar, MD

J. Wesley Alexander, MD

Cincinnati, Ohio Chicago, Illinois

Paul Arnow, MD 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 Columbia, South Carolina

Charles Bryan, MD

Creteil, France Christian Brun-Buisson, MD

Donald E. Craven, MD

Boston, Massachusetts Sue Crow, MSN, RN, CIC Shreveport, Louisiana

Franz Daschner, MD Leigh G. Donowitz, MD

Freiburg, Federal Republic of Germany 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

Bronx, New York

Madison, Wisconsin

Bethesda, Maryland

Atlanta, Georgia

Brussels, Belgium

Buffalo, New York

Helsinki, Finland

Iowa City, Iowa

Houston, Texas

Vienna, Austria

Ierusalem, Israel

San Antonio, Texas

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

Munich, Federal Republic of Germany

Atlanta, Georgia

Taipei, Taiwan

Charlottesville, Virginia

Farmington, Connecticut

Los Angeles, California Chapel Hill, North Carolina

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 Rebecca Wurtz, MD

Greenville, South Carolina

Chicago, Illinois

Beijing, People's Republic of China

Greifswald, Federal Republic of Germany

São Paulo, Brazil

Evanston, Illinois

SLACK Incorporated 6900 Grove Road Thorofare, New Jersey 08086 (609) 848-1000

Assistant Editor Eileen C. Anderer

Circulation Manager Lester J. Robeson, CCCP

Production Director Christine Malin

Production Coordinator

Publishing Director/ Advertising Wayne McCourt

Pharmaceutical Group Sales Director

Michael LoPresti Advertising Sales Representative

Classified/Recruitment Sales Manager Michele Burch



Solution: Who says you have to sacrifice comfort for protection? Introducing the KIMBERLY-CLARK@ Impervious Comfort Gown.

The outside is quilted film for outstanding protection. The inside is soft fabric for comfort. The design is open-back with either thumb hooks or knit cuffs.

In use tests, staff found

KIMBERLY-CLARK® Impervious

Comfort Gowns to be cool and light. In fact, they'd even wear them when it wasn't necessary

These gowns are a good choice if you want to standardize on one gown that will provide maximum protection with comfort in ICU, decontam, endoscopy and E.R.

While we're on the subject,
Kimberly-Clark has a complete
family of gown options designed
to help you reach your desired
outcome at the lowest cost-per-use.

Ask your Kimberly-Clark rep or call 1-800-KC-HELPS to receive a brochure on many of the infection control products available from Kimberly-Clark.

®Registered Trademark of Kimberly-Clark Corporation, Roswell, GA 30 '076. 01995 KCC. All Rights Reserved.

(13) Kirnberly-Clark

Advanced Protection Through Innovation.

Introducing the New Convalec

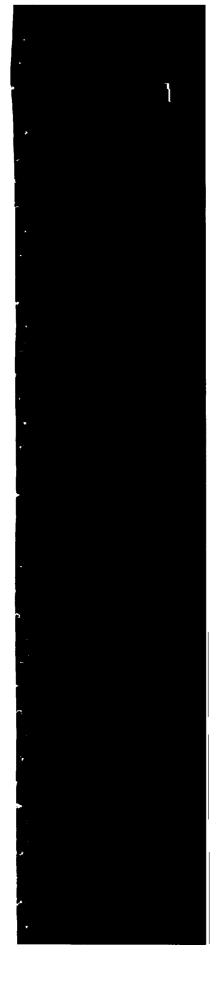
A new spectrum of solutions...

01995 E.R. Squibb & Sons, Inc.

Issued July 1995

Printed in U.S.A.

7-95-1001



Offering you the best of ConvaTec and Calgon Vestal

Two companies you know and value...organized into four specialty groups to provide more focused attention on your changing needs in today's fist-paced health-care environment. For more information abut our expanded spectrum of products, services and resources, call1-800-422-8811.

Ostomy and Continence Care

Products and services which deliver the best possible care for people with ostomies and incontinence.

Wound and Skin Care

Innovative wound dressings, cleansers and preventative skin care products, enhanced by the highest standards of excellence in professional services support and educational programs.

Calgon Vestal Infection Control

Expanded instrument decontamination products, environmental disinfectants, skin cleansers and surgical scrubs, combined with the highest quality professional services.

Calgon Vestal Contamination Control

Highly specialized disinfectants and cleaners designed for pharmaceutical and personal care manufacturers, laboratory animal research, and other FDA-regulated facilities.



Solutions For Your Changing World