

INFECTION CONTROL AND HOSPITAL EPIDEMIOLOGYTM

EDITORIAL

Lessons Regarding Percutaneous Injuries Among Healthcare Providers

BRADLEY N. DOEBBELING, MD, MSC

82

ORIGINAL ARTICLES

Occupationally Acquired Human Immunodeficiency Virus (HIV) Infection: National Case Surveillance Data During 20 Years of the HIV Epidemic in the United States

ANN N. DO, MD; CAROL A. CIESIELSKI, MD; RUSS P. METLER, JD, MSPH; TERESA A. HAMMETT, MPH; JIANMIN LI, DPE, MEd; PATRICIA L. FLEMING, PhD

86

A Comprehensive Approach to Percutaneous Injury Prevention During Phlebotomy: Results of a Multicenter Study, 1993–1995

FRANCISCO ALVARADO-RAMY, MD; ELISE M. BELTRAMI, MD; LOUISE J. SHORT, MD, MSC; PAMELA U. SRIVASTAVA, MS; KEITH HENRY, MD; MERYL MENDELSON, MD; JULIE L. GERBERDING, MD, MPH; GEORGE L. DELCLOS, MD, MPH; SCOTT CAMPBELL, MSPH; ROBIN SOLOMON, MS; RITA FAHRNER, MS; DAVID H. CULVER, PhD; DAVID BELL, MD; DENISE M. CARDO, MD; MARY E. CHAMBERLAND, MD, MPH

97

Evaluation of a Safety Resheathable Winged Steel Needle for Prevention of Percutaneous Injuries Associated With Intravascular-Access Procedures Among Healthcare Workers

MERYL H. MENDELSON, MD; BAO YING LIN-CHEN, MPH; ROBIN SOLOMON, RN, MS; EILEEN BAILEY, RN, MPH; GENE KOGAN, MS; JAMES GOLDBOLD, PhD

105

Sharps-Related Injuries in California Healthcare Facilities: Pilot Study Results From the Sharps Injury Surveillance Registry

MARION GILLEN, RN, PhD; JENNIFER McNARY, CIH, MPH; JULIEANN LEWIS, MSPH; MARTHA DAVIS, MSPH, EMT; ALISA BOYD, MPH; MARY SCHULLER, BS; CHRIS CURRAN, MS; CAROL A. YOUNG, AA; JAMES CONE, MD, MPH

113

Nosocomial Transmission of Hepatitis C Virus Associated With the Use of Multidose Saline Vials

GÉRARD KRAUSE, MD, DRMed; MARY JO TREPKA, MD, MPH; ROBERT S. WHISENHUNT; DOLLY KATZ, PhD; OMANA NAINAN, PhD; STEVEN T. WIERSMA, MD, MPH; RICHARD S. HOPKINS, MD, MSC

122

Human Immunodeficiency Virus Knowledge and Attitudes Among Hospital-Based Healthcare Professionals in Guangxi Zhuang Autonomous Region, People's Republic of China

ALLEN F. ANDERSON, PhD; ZHENG QINGSI, MD, MSC; WU GUANGLIN, MD; LI ZHIJUN, MD; LIU WEI, MD

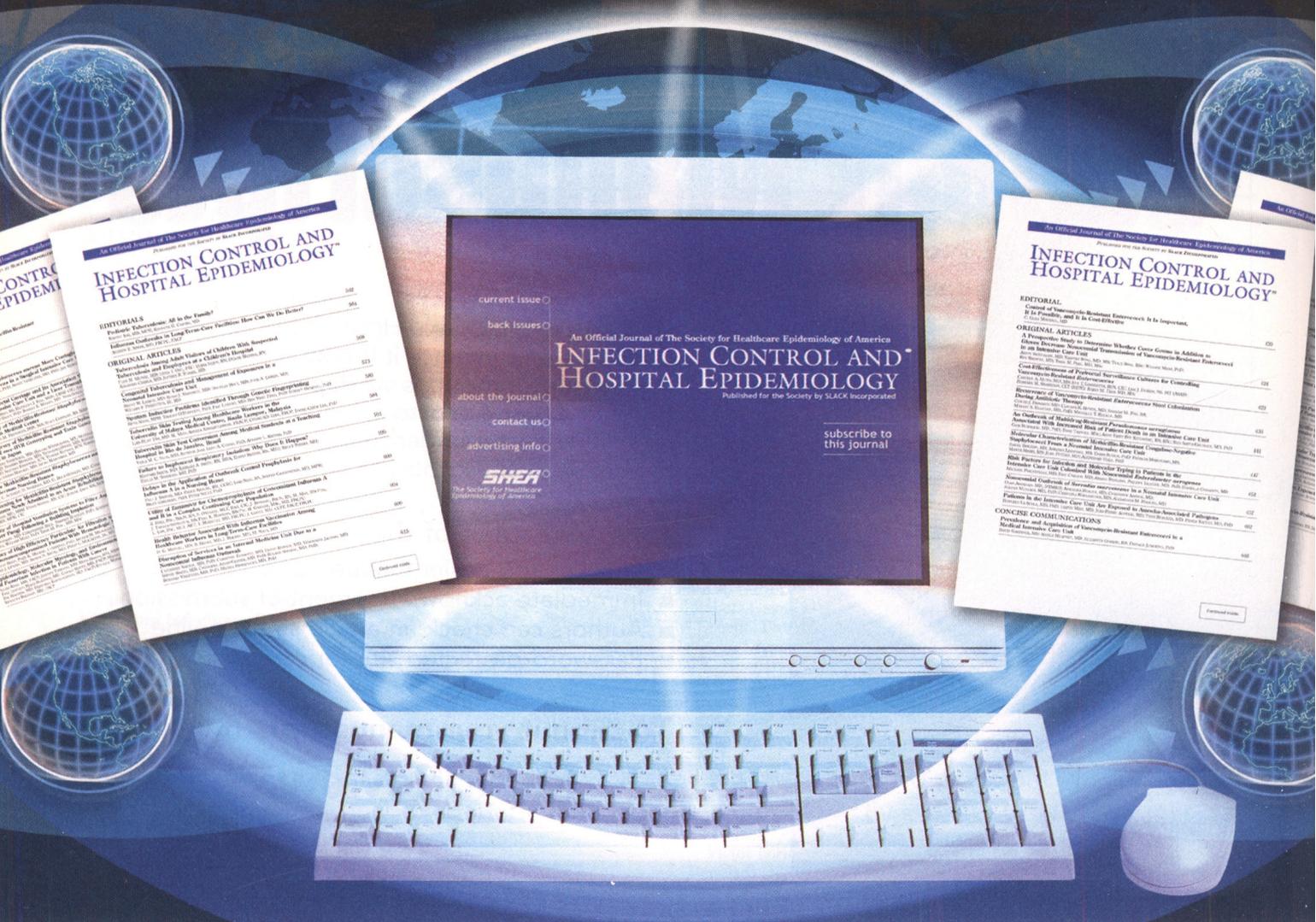
128

Cost-Effectiveness of Testing for Human Immunodeficiency Virus and Hepatitis C Virus Among Blood Transfusion Recipients

SIMONE MATHOULIN-PELISSIER, MD, PhD; LOUIS-RACHID SALMI, MD, PhD; PIERRE FIALON, MD; ROGER SALAMON, MD, PhD

132

Continued inside.



Get Full-Text Online!



Full-text articles are now available online for
INFECTION CONTROL AND HOSPITAL EPIDEMIOLOGY!

- Read the latest issue
- Find an archived article (PDF format)
- Search by topic, author or keyword

FREE, unlimited access to every article for subscribers
Non-subscribers may obtain full-text articles on a pay-per-view basis

ICHEJournal.com

INFECTION CONTROL AND HOSPITAL EPIDEMIOLOGY™

CONTENTS

Continued from cover

CONCISE COMMUNICATIONS

Detection of Hepatitis C Virus Antibody and RNA in Hemostatic Gauze Used for Dentistry

HIROMASA HASEGAWA, DDS, PhD; TETSUO YAMADA, DDS, PhD; MARIKO ESUMI, PhD

137

Microbial Aerosol Contamination of Dental Healthcare Workers' Faces and Other Surfaces in Dental Practice

EMILIA PROSPERO, MD, MPH; SANDRA SAVINI, PhD; ISIDORO ANNINO, MD

139

Infection Control Practices in Clinical Laboratories in Pakistan

SYED ABDUL MUJEEB, MBBS; MALIK MOHUMMAD ADIL, BSC; ARSHAD ALTAF, MBBS; SHARAF ALI SHAH, MBBS; STEPHEN LUBY, MD

141

Monsel's Solution: A Potential Vector for Nosocomial Infection?

MARK E. RUPP, MD; SHARON J. MEDCALF, RN; PAUL D. FEY, PhD; LUKE D. HANDKE, BS; NEDRA D. MARION, RN

142

READERS' FORUM

Recycling of Injection Equipment in Pakistan

SYED ABDUL MUJEEB, MBBS; MALIK MOHUMMAD ADIL, BSC; ARSHAD ALTAF, MBBS; YVAN HUTIN, MD, MSc; STEPHEN LUBY, MD

145

INFORMATION FOR AUTHORS

80

MEDICAL NEWS

GINA PUGLIESE, RN, MS; MARTIN S. FAVERO, PhD

147

To access these articles,
visit us on the Internet at <http://www.ichejournal.com>

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-0195-9417, Canadian GST#129780466) is published exclusively by SLACK Incorporated 12 times a year. Address: 6900 Grove Road, Thorofare, NJ 08086. Telephone: (856) 848-1000.

SHEA: 19 Mantua Rd., Mt. Royal, NJ 08061; telephone, 856-423-0087; fax, 856-423-3420; e-mail address, sheahq@talley.com.

COPYRIGHT 2003 The Society for Healthcare Epidemiology of America, Inc., and SLACK Incorporated. All rights reserved. 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-\$119.00; Two years-\$179.00; Three years-\$239.00; Institutional: One year-\$259.00; Two years-\$439.00; Three years-\$609.00. Fellows: \$54.50 per year with proof of training status. Canada: add 7% Goods & Services tax; Overseas: add \$49.00 each year for delivery by air service. Single copies of current issues may be obtained for \$24.00.

INSTRUCTIONS TO AUTHORS: Authors may submit manuscripts prepared in accordance with the 2001 revision of the "Uniform Requirements for Manuscripts Submitted to Biomedical Journals." A digital version is available at www.icmje.org. Submit to ICHE Editorial Office, SLACK Incorporated, 6900 Grove Road, Thorofare, NJ 08086, USA. All submissions must be accompanied by copyright form(s) signed by all authors.

REPRINTS: All requests to reprint or use material published herein should be addressed to Karen Lambertson, SLACK Incorporated, 6900 Grove Road, Thorofare, NJ 08086. For reprint orders and prices, contact Karen Lambertson at (856) 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 \$.20 per page is paid directly to Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923; phone (978) 750-8400. 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 6 weeks in advance of effective date. Include old and new addresses with zip codes. The publisher cannot accept responsibility for undelivered copies. Periodicals postage paid at Thorofare, New Jersey 08086-9447 and at additional mailing offices. POSTMASTER: Send address changes to SLACK Incorporated, 6900 Grove Road, 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 OFFICE

SLACK Incorporated
6900 Grove Road
Thorofare, NJ 08086
(856) 848-1000; (856) 848-6091 (FAX)
E-mail: iche@slackinc.com

EDITOR

Barry M. Farr, MD, MSc

DEPUTY EDITORS

David P. Calfee, MD, MS

William R. Jarvis, MD

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**

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

Infections in Immunocompromised**Patients**

Kent Sepkowitz, MD

New York City, New York

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

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 |
| Neil L. Barg, MD | Yakima, Washington |
| Manuel Bastanzuri, MD | Havana, Cuba |
| Elizabeth Ann Bolyard, RN, MPH, CIC | Atlanta, Georgia |
| John M. Boyce, MD | Providence, Rhode Island |
| Professor Dr. Ilja Braveny | Munich, Germany |
| Christian Brun-Buisson, MD | Creteil, France |
| Charles Bryan, MD | Columbia, South Carolina |
| John P. Burke, MD | Salt Lake City, Utah |
| Donald E. Craven, MD | Boston, Massachusetts |
| Sue Crow, MSN, RN, CIC | Shreveport, Louisiana |
| Franz Daschner, MD | Freiburg, 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 |
| Robert Gaynes, MD | Atlanta, Georgia |
| Velvl Greene, PhD, MPH | Beer Sheva, Israel |
| 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 |
| 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 |
| 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 |
| Robert R. Muder, MD | Pittsburgh, Pennsylvania |
| Carlene A. Muto, MD, MS | 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 |
| Lisa Saiman, MD, MPH | New York, New York |
| William E. Scheckler, MD | Madison, Wisconsin |
| Andrew E. Simor, MD | Toronto, Ontario, Canada |
| Denis Spelman, MD | Prahran Victoria, Australia |
| Michael L. Tapper, MD | New York, New York |
| Clyde Thornsberrry, 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, Germany |
| Sergio B. Wey, MD | São Paulo, Brazil |
| Rebecca Wurtz, MD | Evanston, Illinois |

SLACK Incorporated

6900 Grove Road
Thorofare, New Jersey 08086
(856) 848-1000

Executive Vice President

Richard N. Roash

Vice President, Publishing Operations

John C. Carter

Editorial Director

Jennifer Kilpatrick

Executive Editor

Shirley P. Strunk, ELS

Associate Editor

Eileen C. Anderer, ELS

Circulation Manager

Lester J. Robeson, CCCC

Production Director

Christine Malin

Production Coordinator

Joanne Patterson

Vice President, U.S. Advertising

Wayne McCourt

Pharmaceutical Group Sales Director

Robin Geller

Advertising Sales Representative

Michael Raftery

Advertising Sales Administrator

Theresa Ficarra

Classified/Recruitment Sales Manager

Kelly Wark

Classified/Recruitment Sales Representative

Anabella O'Brien

Director of Reprint Sales

John Kain

Submit Manuscripts

**Copyright compliance
needn't be like your
last traffic jam...**



Let Us Give You a Lift!

Get permission to reproduce content from online or printed magazines, newspapers and other copyrighted works the easy way. We're Copyright Clearance Center (CCC), the world leader in text reproduction rights and we're here to help.

CCC offers one-stop shopping for all your permission needs.

Copyright Clearance Center, Inc.

1-800-982-3887 ext. 2862

marketing@copyright.com

copyright.com

LOYOLA Infection Control Practitioner

Loyola University Health System is a nationally recognized academic health care facility listed as one of "America's Best Hospitals" by U.S. News & World Report. Our 70-acre campus, located 15 minutes west of downtown Chicago, is home to a 523-bed teaching hospital, a Level 1 Trauma Center, a regionally recognized Burn Center, the Cardinal Bernardin Cancer Center, the Ronald McDonald® Children's Hospital, and the Loyola University Chicago Stritch School of Medicine.

The Infection Control Practitioner functions as the (nurse) expert in infection control surveillance and prevention for inpatient and outpatient programs, for the clinical staff, and for the emergency & disaster preparedness committee. Additional responsibilities include: development and review of infection control and related policies/procedures; developing programs for collecting & analyzing infection control data; conducting surveillance; investigating clusters & outbreaks; calculating thresholds for surveillance, and preparing control charts.

This position is also responsible for implementing infection control measures by providing direction in isolation procedures, surgical reprocessing, and aseptic technique. Will also collaborate with Admitting for appropriate patient placement; with Engineering on all construction projects; PI projects & initiatives; and with Medical Center Administration to optimize data collection & analysis and to insure requirements of licensing & accrediting bodies are met.

The Infection Control Practitioner will also assess the educational needs of the institution with respect to infection control & safety; develop & deliver education programs for all skill levels within the organization; participates in clinical & non-clinical orientation; orient new infection control staff; and partner with Occupational Health in exposure management and the assessment of, and orientation for, new products.

Requirements for this position include a Bachelor's degree in Nursing (Master's preferred), Certification in Infection Control preferred, and strong working knowledge of infection control policies, procedures and practices.

Loyola offers a competitive salary & benefits package including medical, dental, vision & life insurance, vacation accrual, 10 paid holidays, paid personal, sick & bonus days, a pension plan, a matched retirement savings plan, an on-site health & fitness center, and tuition assistance benefits at Loyola University Chicago. For consideration, please contact Toni Copp, Human Resources Manager at 708-216-4977 or forward your resume to:



LOYOLA
UNIVERSITY
HEALTH SYSTEM
Loyola University Chicago

2160 S. First Ave.
Maywood, IL 60153
Fax: 708-216-4918
Email: tcopp@lumc.edu
Website: www.luhs.org

We also treat the human spirit.™

Equal Opportunity Employer/Educator