

JAMA

The Journal of the American Medical Association



Piero di Cosimo (1462-1521),
The Visitation With St Nicholas and St Anthony Abbot, c 1490, Florentine.

Letters

Psychiatric Consequences
of September 11 2683

M. J. HENZLOVA; I. LEVAV,
A. PONIZOVSKY; R. D. MARSHALL,
S. GALEA, D. KILPATRICK; P. A. SULLIVAN,
P. J. SHAPIRO, R. THOMPSON;
W. E. SCHLENGER, J. M. CADDELL,
L. EBERT, B. K. JORDAN, K. R. BATTS

Bioterrorism and
Public Health Law

G. J. ANNAS; J. M. ORIENT;
L. O. GOSTIN, J. W. SAPSIN,
S. P. TERET, S. BURRIS,
J. S. MAIR, J. G. HODGE, JR,
J. S. VERNICK

Police Detainment of a Patient
Following Treatment
With Radioactive Iodine

C. BUETTNER, M. I. SURKS

Health Literacy and
Diabetic Control

R. ROTHMAN, R. MALONE,
B. BRYANT, D. DEWALT,
M. PIGNONE; T. ZIMMERMAN,
D. W. SHENENBERGER

Preoperative Hand-Rubbing vs
Hand-Scrubbing

M. B. SOSIS; J. J. PARIENTI, P. THIBON,
X. LE COUTOUR, Y. LE ROUX,
H. BENSADOUN, P. VON THEOBALD,
R. HELLER

119 Years of
CONTINUOUS
PUBLICATION

EDITOR
Catherine D. DeAngelis, MD, MPH

December 4, 2002

ORIGINAL CONTRIBUTIONS

Myocardial Perfusion Imaging for Evaluation and Triage
of Patients With Suspected Acute Cardiac Ischemia:
A Randomized Controlled Trial 2693

J. E. UDELSON, J. R. BESHANSKY, D. S. BALLIN, J. A. FELDMAN, J. L. GRIFFITH,
G. V. HELLER, R. C. HENDEL, J. H. POPE, R. RUTHAZER, E. J. SPIEGLER,
R. H. WOOLARD, J. HANDLER, H. P. SELKER

Effects of Decision Aids for Menorrhagia on
Treatment Choices, Health Outcomes, and Costs:
A Randomized Controlled Trial 2701

A. D. M. KENNEDY, M. J. SCULPHER, A. COULTER, N. DWYER, M. REES, K. R. ABRAMS,
S. HORSLEY, D. COWLEY, C. KIDSON, C. KIRWIN, C. NAISH, G. STIRRAT

The Metabolic Syndrome and Total and
Cardiovascular Disease Mortality in Middle-aged Men 2709

H.-M. LAKKA, D. E. LAAKSONEN, T. A. LAKKA, L. K. NISKANEN,
E. KUMPUSALO, J. TUOMILEHTO, J. T. SALONEN

Risk Factors for Sudden Infant Death Syndrome
Among Northern Plains Indians 2717

S. IYASU, L. L. RANDALL, T. K. WELTY, J. HSIA, H. C. KINNEY, F. MANDELL,
M. MCCLAINE, B. RANDALL, D. HABBE, H. WILSON, M. WILLINGER

SPECIAL COMMUNICATION

Chlamydia pneumoniae as an Emerging Risk Factor
in Cardiovascular Disease 2724

M. V. KALAYOGLU, P. LIBBY, G. I. BYRNE

COMMENTARY

Why This Hospital Nursing Shortage Is Different 2742

H. S. BERLINER, E. GINZBERG

EDITORIAL

Chest Pain Triage—Another Step Forward 2745

R. J. GIBBONS

CLINICIAN'S CORNER

PERSPECTIVES ON CARE AT THE CLOSE OF LIFE

Withdrawal of Life Support: Intensive Caring at the End of Life 2732

T. J. PRENDERGAST, K. A. PUNTILLO

Adolescent Grief: "It Never Really Hit Me . . .
Until It Actually Happened" 2741

A. J. MARKOWITZ, S. J. MCPHEE

JAMA

Humanities

THE COVER 2647

The Visitation With St Nicholas and St Anthony Abbot

M. T. SOUTHGATE

POETRY AND MEDICINE 2651

My Tomography Report

J. L. WRIGHT

JAMA 100 YEARS AGO 2754

The Outdoor Treatment of Tuberculosis

Reader Service

This Week in JAMA 2643

Masthead 2644

Abstracts 2659

Archives Journals Abstracts 2666

Correction 2689

CME Announcement 2689

Physician Marketplace 2755

Index of Advertisers 2771

Reference Directories

Meetings, Organizations of Medical Interest and State Medical Associations, and Examinations and Licensure are available at <http://pubs.ama-assn.org/meetings.html>.

JAMA Instructions for Authors

July 3, 2002

JAMA Key and Critical Objectives

September 11, 2002

Contact Information 2771

Subscriptions: (800) 262-2350

fax: (312) 464-5831

ama-subs@ama-assn.org

Permissions: (312) 464-2513

fax: (312) 464-5835

rhonda_bailey@ama-assn.org

Editorial Office: (312) 464-2402

fax: (312) 464-5824

jamams@ama-assn.org

All articles published, including editorials, letters, and book reviews, represent the opinions of the authors and do not reflect the official policy of the American Medical Association or the institution with which the author is affiliated, unless this is clearly specified.

www.jama.com

PHOTO/ESSAY

Acrodermatitis Enteropathica Associated

With Anorexia Nervosa 2655

C. M. QUIRK, J. SEYKORA, B. J. WINGATE, G. COTSARELIS

BOOKS, JOURNALS, NEW MEDIA 2749

Textbook of Cardiovascular Medicine (Topol, ed)

REVIEWED BY B. SURAWICZ

Hematology: Clinical Principles and Applications (Rodak, ed)

REVIEWED BY T. LAZAR

The American Psychiatric Publishing Textbook of Neuropsychiatry and Clinical Neurosciences (Yudofsky, Hales, eds)

REVIEWED BY L. MARSH

GrantSlam (CD-ROM)

REVIEWED BY S. E. SCHUTZER

Books, Journals, New Media Received

JAMA PATIENT PAGE

Sudden Infant Death Syndrome 2772

News and Analysis

MEDICAL NEWS & PERSPECTIVES 2671

In HIV Vaccine Efforts, New Strategies and Patience Are Needed in Equal Measure

Listeriosis Outbreak Prompts Action—Finally

Miscellanea Medica

CAPITOL HEALTH CALL 2677

Rebirth of Prescription Drug Plan?

Uninsured Tax Breaks

Abortion Opponents Win Seats

Medicare Rates Still Uncertain

FROM THE FOOD AND DRUG ADMINISTRATION 2678

Proposed Change of Patent Rules

New Treatment for Hepatitis C

Two Drugs for Opioid Dependence

FROM THE CENTERS FOR DISEASE CONTROL AND PREVENTION 2679

HIV Testing Among Pregnant Women—United States and Canada, 1998-2001

Protecting Building Environments From Airborne Chemical, Biologic, or Radiologic Attacks

Use of Anthrax Vaccine in Response to Terrorism: Supplemental Recommendations of the Advisory Committee on Immunization Practices

©2002 American Medical Association. All rights reserved.

(Reprinted) 2641

JAMA

EDITORIAL STAFF

EDITOR

Catherine D. DeAngelis, MD, MPH

Executive Deputy Editor: Phil B. Fontanarosa, MD

Deputy Editors: Richard M. Glass, MD, Drummond Rennie, MD, Margaret A. Winker, MD

Senior Contributing Editor: M. Therese Southgate, MD

Managing Senior Editor: Annette Flanagin

Senior Editors: Stephen J. Lurie, MD, PhD, Ronna Henry Siegel, MD

Contributing Editors: Charles B. Clayman, MD, Helene M. Cole, MD, Thomas B. Cole, MD, MPH, David S. Cooper, MD, Michael S. Lauer, MD, Wendy Levinson, MD, David H. Mark, MD, MPH, Robert A. McNutt, MD, Harriet S. Meyer, MD, Jeanette M. Smith, MD, Janet M. Torpy, MD, Jody W. Zylke, MD

Consulting Editor: Deborah J. Cook, MD

Statistical Editor: Naomi Vaisrub, PhD

Associate Editors: Charlene Breedlove, Roxanne K. Young

Fishbein Fellow: Sarah Pressman Lovinger, MD

Medical News & Perspectives: Marsha F. Goldsmith (editor); Mike Mitka, Joan Stephenson, PhD, Brian Vastag (associate editors); Rebecca Voelker (contributing editor)

Assistant Editors: Jennifer Reiling, Juliana M. Walker

msJAMA: Jane van Dis, Stuart P. Weisberg (editors)

Assistant to the Editor: Helga Fritz

Administrative Assistant: Nadine Siewnarine

Medical Illustrator: Cassio Lynn

Electronic Media: Michelle Kurzynski (director); Katherine Behar, Erin Giannini (associate Web editors); Marla A. Hall (Web office manager)

Editorial Systems and Administration: Elaine Williams (director); Gale Saulsberry (database specialist); Lenette Gardner-Gullens (electronic input supervisor); Fanny L. Brown, Celina Canchola (electronic input specialists)

Staff Assistant: Gloria Tate

Editorial Assistants: Patricia Joworski (group supervisor); Mary Cannon, Susan Collister, Carmina Conley, Dawn Cortez, Audrey Forman, Shirley Gogins, Glenn Gregg, Lisa Hardin, Mary Ann Lilly, Rachell M. Lozano, Rosa E. Miranda, Lupe Morales, Ethel Pinkston, Kenny Stewart

Editorial Processing Division: Cheryl Iverson (director); Paul Frank, Monica Mungle (editorial systems managers); J. D. Neff (associate editorial systems developer)

Copyediting: Stacy L. Christiansen (director); Joy K. Jaeger (abstracts editor); Coleen Adamson, Susan R. Benner, Beverly Stewart (senior copy editors); Jennifer L. Reddy, Phil Sefton, Heather A. Shebel

JAMA/Archives Media Relations: Jann Ingmire (director); Jim Michalski, Sharon Parnet

PUBLISHING AND BUSINESS STAFF

Group Publisher: Nawin Gupta, PhD

Publishing Operations Division:

Division Director: Vanessa Hayden

Directors: Karen Adams-Taylor, Paul Gasielki

Managers: David Antos, Debbie Camp, Karl Elvin, Betty Frigerio, Mary Ellen Johnston, Mark Matura, Susan Price, Charl Richey, Carmela Ware

Production Associates and Specialists:

Advertising and Production Services: LaWanda Brown, Susan Chiara, Mary Anne Donley, Euwanaha Joiner-Smith, Brian McCartney, Noemi Olmo, Sarah Powell, Denise Steinhauser, Ellen Yoshihara

Composition: Rebecca Aiken, Brenda Chandler-Grayer, Amy Evers, Mary Ann Kuranda, Sandra Lopez

Database & New Media: Bruce McGregor (indexer), Clifford O. Barrett, Gail Barrett, Regina Brownlee, Rowena F. Dagang, John Marcinek, La'son Diggs Sledge, Angela Smits

Distribution: Linda Alexander

Graphics: Joe Amft, Fred Furtner, Carolyn Hall, Maria Kowalkowski, Chris Meyer, JoAnne Weiskopf

Proofreading: Carol Joy Farrell, Daniel James, Judith A. Literskis, Teresa H. Omiotek, Barbara Wojtowicz, Agnes A. Zarkadas

Director, Circulation and Classified Advertising: Curt Reilly

Circulation Processing: Alfred Tomaselli (manager); Larry Majkszak (circulation system administrator)

Circulation Development: Vida Damijonaitis, Michael McGraw (managers)

Classified Advertising: Thalia Moss (manager) (800) 262-2260; 515 N State St, Chicago, IL 60610

Subscriber Services: (800) 262-2350; fax: (312) 464-5831; e-mail: ama-subs@ama-assn.org

Licensing and Permissions: Norman Frankel, PhD (director); Rhonda Bailey (permissions); fax: (312) 464-5835

National Sales Director: Peter J. Murphy

Advertising Sales Staff: Stuart H. Williams (director)

Eastern: Susan J. Carollo, Nancy E. Souza (representatives); 119 Cherry Hill Rd, Third Floor, Parsippany, NJ 07054, (973) 263-9191

Midwest/Farwest: Jeffery J. Bonistalli (representative); 515 N State St, Chicago, IL 60610, (312) 464-2551

Marketing Services Manager: Kathleen Hiltz

Publishing Manager: Geoffrey A. Flick

AMA EXECUTIVES AND TRUSTEES

Executive Vice President, Chief Executive Officer:

Michael D. Maves, MD, MBA

Senior Vice President, Publishing and Business Services:

Robert A. Musacchio, PhD

President: Yank D. Coble, Jr, MD

President-Elect: Donald J. Palmisano, MD, JD

Immediate Past President: Richard F. Corlin, MD

Speaker, House of Delegates: John A. Knotte, MD

Vice-Speaker, House of Delegates: Nancy H. Nielsen, MD, PhD

Trustees: J. Edward Hill, MD (chair); William G. Pledest III, MD (chair-elect); Herman I. Abramowitz, MD; John H. Armstrong, MD (young physician); Duane M. Cady, MD; Peter W. Carmel, MD; Ronald M. Davis, MD; Timothy T. Flaherty, MD;

Joseph M. Heyman, MD; Robert R. McMillan, MD (public board member); John C. Nelson, MD;

Joseph A. Riggs, MD; J. James Rohack, MD;

David A. Rosman (student); Peter Y. Watson, MD (resident); Cecil B. Wilson, MD

JOURNAL OVERSIGHT COMMITTEE

Joshua Lederberg, PhD (chair), Christine K. Cassel, MD, David A. Kessler, MD, JD, Robert A. Musacchio, PhD, William M. Passano, Jr, Roy M. Pitkin, MD, Kenneth I. Shine, MD

EDITORIAL BOARD

Daniel M. Albert, MD
University of Wisconsin Hospital
and Clinics
Madison, Wis

Kenneth A. Arndt, MD
Harvard Medical School
Boston, Mass

H. David Banta, MD
The Netherlands Organization
for Applied Scientific Research
Leiden, the Netherlands

Robert J. Blendon, ScD
Harvard University
Boston, Mass

Marjorie A. Bowman, MD, MPA
University of Pennsylvania
Health System
Philadelphia, Pa

Cyril Chantler, MD, FRCP
London, United Kingdom

Joseph T. Coyle, MD
Harvard Medical School
Boston, Mass

James E. Dalen, MD
University of Arizona
College of Medicine
Tucson, Ariz

Pierre Durieux, MD, MPH
Université Paris 6
Paris, France

Ronald G. Evens, MD
Barnes-Jewish Hospital
St Louis, Mo

Michael E. Johns, MD
Robert W. Woodruff
Health Sciences Center
of Emory University
Atlanta, Ga

Colin I. Johnston, MB, BS
University of Melbourne
Melbourne, Australia

Mary-Claire King, PhD
University of Washington
Seattle, Wash

Wayne F. Larrabee, Jr, MD
University of Washington
Seattle, Wash

Joseph K. Lim, MD
Stanford University Medical Center
Stanford, Calif

Donald A. B. Lindberg, MD
National Library of Medicine
Bethesda, Md

Kenneth D. McClatchey, MD, DDS
Loyola University Medical Center
Maywood, Ill

C. David Naylor, MD, DPhil
University of Toronto
Toronto, Ontario, Canada

Claude H. Organ, Jr, MD
University of California—San Francisco,
East Bay
Oakland, Calif

June E. Osborn, MD
Josiah Macy, Jr Foundation
New York, NY

Edmund D. Pellegrino, MD
Georgetown University
Washington, DC

Uwe E. Reinhardt, PhD
Princeton University, Princeton, NJ

Povl Riis, MD, DSCI, DHC
Professor of Medicine
Copenhagen, Denmark

Frederick P. Rivara, MD, MPH
University of Washington
Seattle, Wash

William L. Roper, MD, MPH
University of North Carolina at Chapel Hill
Chapel Hill, NC

Roger N. Rosenberg, MD
University of Texas Southwestern
Medical Center
Dallas, Tex

Masaaki Terada, MD
National Cancer Center
Tokyo, Japan

INTERNATIONAL ADVISORY COMMITTEE

Bassel Atallah, MD, JAMA—Middle East

Mauro Bologna, MD, JAMA—Italy

Csaba Farsang, MD, DSc, JAMA—Hungary

Igor Francetic, MD, PhD, JAMA—Croatia

Evarist Feliu Frasnado, MD, JAMA—Spain

Zbigniew A. Gaciong, MD, PhD, JAMA—Poland

Carla Gikovate, MD, MSc, JAMA—Brazil

Hirosama Ishii, MD, JAMA—Japan

Evin Kantemir, MD, JAMA—Turkey

A. J. Khan, SI, FRCP, JAMA—Pakistan

Li Chengyi, MD, JAMA—China

Guillermo RuizVelasco y A, MD, JAMA—Mexico

Ivan Vidmar, MD, JAMA—Slovenia

Jiří Widimský, MUDr, DrSc, JAMA—Czech/Slovak