

JAMA

The Journal of the American Medical Association



Paolo Caliari (1528-1588), *The Creation of Eve*, 1570/1580, Venetian.

Letters

Unreliability of Physician "Report Cards" to Assess Cost and Quality of Care 51

E. D. HUFF; L. G. SANDY;
K. G. SHOJANIA, R. M. WACHTER;
J. E. WENNBURG; T. P. HOFER,
R. A. HAYWARD, S. GREENFIELD,
S. H. KAPLAN, E. H. WAGNER,
W. G. MANNING; A. B. BINDMAN

Global Action Against Multidrug-Resistant Tuberculosis

D. SCHRAUFNAGEL, J. ABUBAKER;
S. J. HEYMAN, T. F. BREWER,
M. E. WILSON, H. V. FINEBERG

Mental Health Among Bosnian Refugees

J. C. COYNE, A. KAGEE;
A. A. KARCIC, E. KARCIC

Conventional Medical Care and Unconventional Therapies

D. BARZILAI, A. RIMM; D. L. KATZ;
B. G. DRUSS, R. A. ROSENHECK



EDITOR
Catherine D. DeAngelis, MD, MPH

www.jama.com

January 5, 2000

ORIGINAL CONTRIBUTIONS

Primary Care Outcomes in Patients Treated by Nurse Practitioners or Physicians: A Randomized Trial 59

M. O. MUNDINGER, R. L. KANE, E. R. LENZ, A. M. TOTTEN, W.-Y. TSAI,
P. D. CLEARY, W. T. FRIEDEWALD, A. L. SIU, M. L. SHELANSKI

Long-term Outcome of Children Surviving Massive Burns 69

R. L. SHERIDAN, M. I. HINSON, M. H. LIANG, A. F. NACKEL,
D. A. SCHOENFELD, C. M. RYAN, J. L. MULLIGAN, R. G. TOMPKINS

Hepatotoxicity Associated With Antiretroviral Therapy in Adults Infected With Human Immunodeficiency Virus and the Role of Hepatitis C or B Virus Infection 74

M. S. SULKOWSKI, D. L. THOMAS, R. E. CHAISSON, R. D. MOORE

HPV DNA Testing of Self-collected Vaginal Samples Compared With Cytologic Screening to Detect Cervical Cancer 81

T. C. WRIGHT, JR, L. DENNY, L. KUHN, A. POLLACK, A. LORINCZ

TOWARD OPTIMAL LABORATORY USE

HPV DNA Testing in Cervical Cancer Screening: Results From Women in a High-Risk Province of Costa Rica 87

M. SCHIFFMAN, R. HERRERO, A. HILDESHEIM, M. E. SHERMAN,
M. BRATTI, S. WACHOLDER, M. ALFARO, M. HUTCHINSON,
J. MORALES, M. D. GREENBERG, A. T. LORINCZ

SPECIAL COMMUNICATION

Clinical Goals and Performance Measures for Cholesterol Management in Secondary Prevention of Coronary Heart Disease 94

T. H. LEE, J. I. CLEEMAN, S. M. GRUNDY, C. GILLET,
R. C. PASTERNAK, J. SEIDMAN, C. SENNETT

CARING FOR THE UNINSURED AND UNDERINSURED

Physicians Helping the Underserved: The Reach Out Program 99

H. D. SCOTT, J. BELL, S. GELLER, M. THOMAS

EDITORIALS

JAMA and Its Editor—Thinking Forward 105

C. D. DEANGELIS

Independent Primary Care Practice by Nurse Practitioners 106

H. C. SOX

Human Papillomavirus Testing for Primary Cervical Cancer Screening 108

J. CUZICK

(TABLE OF CONTENTS CONTINUED ON PAGE 7.) 5

©2000 American Medical Association. All rights reserved.

JAMA

Humanities

THE COVER 13

The Creation of Eve

M. T. SOUTHGATE

A PIECE OF MY MIND

For What Purpose? 18

D. SERVAN-SCHREIBER

POETRY AND MEDICINE

My Big Yes for Maria Krebs 23

T. DORSETT

JAMA 100 YEARS AGO 24

From Saddlebags to Pocketbooks

Reader Service

This Week in JAMA 9

Masthead 10

The Key and Critical Objectives of JAMA 17

Abstracts 25

Archives Journals Abstracts 32

Corrections 57

JAMA Instructions for Authors 127

Obituary Listing 136

Continuing Medical Education JAMA Reader's Choice 137

Classified Advertising and Announcements 140

Index of Advertisers 153

Subscription, Business, and Contact Information 153

Reference Directories

Meetings in the United States and International Meetings November 10, 1999

Organizations of Medical Interest and State Medical Associations and Examinations and Licensure July 28, 1999

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.

msJAMA 113

Pain, Suffering, and Meaning

C. S. MAGID

Dismantling the Barriers: Providing Palliative and Pain Care

K. FOLEY

The Role of the Clinician in Palliative Medicine

J. L. ABRAHM

The Unnatural Nature of Pain

S. W. HENDERSON

Pain Management: Beyond Pharmacology to Acupuncture and Hypnosis

J. E. LOITMAN

BOOKS, JOURNALS, NEW MEDIA 121

Toxic Deception: How the Chemical Industry Manipulates Science, Bends the Law and Endangers Your Health (Fagin, Lavelle)

REVIEWED BY J. E. CONE

Eye Pathology: An Atlas and Basic Text (Eagle)

REVIEWED BY J. I. PERLMAN

Joseph Leidy: The Last Man Who Knew Everything (Warren)

REVIEWED BY F. A. NEELON

Inflammation: Basic Principles and Clinical Correlates (Gallin, Snyderman, eds)

REVIEWED BY G. E. EHRLICH

Blood Saga: The Social History of the U. S. Hemophilia Community, 1948-98 (Resnik)

REVIEWED BY H. L. MESSMORE, JR

Books, Journals, New Media Received

RESIDENT PHYSICIAN FORUM

Resolutions Affecting Graduate Medical Education 126

JAMA PATIENT PAGE

Burn Injuries 154

News and Analysis

MEDICAL NEWS & PERSPECTIVES 37

More Healthy People in the 21st Century?

New Heart Study a Legacy for the Future

Preventing Surgical Infection Is More Important Than Ever

FROM THE FOOD AND DRUG ADMINISTRATION 46

Injunction Affecting Abbott's In Vitro Test Devices

New Drug for Stroke

FDA's Proposed Strategy on Reuse of Single-Use Devices

FROM THE CENTERS FOR DISEASE CONTROL AND PREVENTION 47

Nonfatal and Fatal Firearm-Related Injuries—United States, 1993-1997

Influenza and Pneumococcal Vaccination Rates Among Persons With Diabetes Mellitus—United States, 1997

Internet Availability of Tobacco Industry Documents

JAMA

EDITORIAL STAFF

EDITOR

Catherine D. DeAngelis, MD, MPH

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

Senior Contributing Editor: M. Therese Southgate, MD

Managing Senior Editor: Annette Flanagan

Contributing Editors: Charles B. Clayman, MD, Helene M. Cole, MD, Thomas B. Cole, MD, MPH, David S. Cooper, MD, Thomas C. Jefferson, MD, David H. Mark, MD, MPH, Harriet S. Meyer, MD, Carin M. Olson, MD, Jeanette M. Smith, MD, Jody W. Zylke, MD

Consulting Editors: Robert A. Clark, MD, Deborah J. Cook, MD

Statistical Editor: Naomi Vaisrub, PhD

Associate Editors: Charlene Breedlove, Roxanne K. Young

Fishbein Fellow: Stephen J. Lurie, MD, PhD

International Fellow: Maria Guadalupe Campos, PhD

Medical News & Perspectives: Marsha F. Goldsmith (editor); Charles Marwick, Mary Jane Friedrich, Mike Mitka, Joan Stephenson, PhD (associate editors); Rebecca Voelker (contributing editor)

Assistant Editor: Juliana M. Walker

Staff Assistant: Helga Fritz

Editorial Graphics: Ronna Henry Siegel, MD (director); Jill Ghormley (medical illustrator)

Electronic Media: Marty Suter (director); Brande Martin, Neal Shankman (assistant editors); Marla A. Hall (staff assistant)

MSJAMA: Jonathan H. Lin, PhD, Sue Sun Yom (editors)

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

Editorial Assistants: Linda Baker, Patricia Joworski, Gale Saulsberry (group supervisors); Kemberly Evans (letters coordinator); Mary Cannon, Susan Collister, Audrey Forman, Shirley Gogins, Charisse Green, Gwenn Gregg, Lisa Hardin, Carmina Landeros, Mary Ann Lilly, Ethel Pinkston, Jennifer Relling, Raul Serrato, Nadine Siewnarine, Gloria Tate

Editorial Processing Division: Cheryl Iverson (director); Paul Frank (electronic editing specialist); Monica Mungle (assistant electronic editing specialist)

Copyediting: Stacy L. Christiansen (director); Joy K. Jaeger (abstracts editor); Coleen Adamson, Susan R. Benner (senior copy editors); Diane Howard, Marie Reinke, Beverly Stewart

PUBLISHING AND BUSINESS STAFF

Vice President, Publishing: Robert L. Kennett

Publisher: Peter J. Murphy

Production and Distribution Division: Vanessa Hayden (director), Diane Darnell (publishing manufacturing analyst), Bonnie Van Cleven (manager, budgets and costs), Karen Adams-Taylor (director, advertising and production), Paul Gasiecki (manager, distribution), Debbie Camp (production services supervisor), Terri Hanley (production specialist)

Managers: Phil Arko (composition), Mary Ellen Johnston (database and new media), Teresa Omiotek (proofreading), Carole Piszker (advertising), Susan Price (print production), Charl Richey (color and graphics)

Proofreaders: David Antos, Daniel James, Rachel Novickas, Mary Kay Tinerella, Barbara Wojtowicz

Production Associates and Specialists: Joseph Amft, Gail Barrett, Joel Brammeier, Karen Branham, Regina Brownlee, Victoria Buckner, Noel Chaparro, Brenda Chandler-Grayer, Heather Crego, La'son J. Diggs, Mary Anne Donley, Karl Elvin, Shannon Epplett, Amy Evers, Kathy Gaydar, Carolyn Hall, Maria Kowalkowski, Mary Ann Kuranda, Sandra Lopez, Christopher Meyer, Melanie Parenti, Sarah Powell, Michelle Robinson, Angela Smits, Denise Steinhauer, Jo Anne Turner, JoAnne Weiskopf, Amelia Zamudio

Production Assistants: Bryan Irzyk, Ruth Sprague

Circulation and Content Marketing Staff:

James A. Skowrenski (director)

Circulation Processing: Robert Herling (director); Susan Stoken, Alfred Tomaselli (managers); Reginald Jordan, Kathryn Osten (specialists)

Circulation Development: Bina Oza (director); Audrey Mathies, Timothy Ryan (managers); Sandra Garzon, Michael McGraw (specialists)

Licensing and Permissions: Norman Frankel (director); Rhonda Bailey (permissions)

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

Advertising Sales Staff:

Stuart H. Williams (director)

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

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

Classified Advertising: Crystal Wells (representative); 515 N State St, Chicago, IL 60610, (312) 464-2456

Marketing Services Manager: Kathleen Hiltz

AMA EXECUTIVES AND TRUSTEES

Executive Vice President, Chief Executive Officer: E. Ratcliffe Anderson, Jr, MD

Chief Operating Officer: Lynn E. Jensen, PhD

Senior Vice President, Publishing and Business Services: Robert A. Musacchio, PhD

President: Thomas R. Reardon, MD

President-Elect: Randolph D. Smoak, Jr, MD

Immediate Past President: Nancy W. Dickey, MD

Speaker, House of Delegates: Richard F. Corlin, MD

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

Trustees: D. Ted Lewers, MD (chair); Timothy T. Flaherty, MD (vice chair); Yank D. Coble, Jr, MD (secretary-treasurer); Herman I. Abramowitz, MD; Susan Hershberg Adelman, MD; Duane M. Cady, MD; J. Edward Hill, MD; Matthew Kagan (student); William H. Mahood, MD; John C. Nelson, MD; Donald J. Palmisano, MD; William G. Plested, MD; Liana Puscas, MD (resident); Joseph A. Riggs, MD; Bruce A. Scott, MD (young physician)

JOURNAL OVERSIGHT COMMITTEE

Christine K. Cassel, MD, David A. Kessler, MD, JD, Joshua Lederberg, PhD, 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

Jack D. Barchas, MD
Cornell University Medical College
New York, NY

Michael Berger, MD
Heinrich Heine Universität Düsseldorf
Düsseldorf, Germany

Robert J. Blendon, ScD
Harvard University
Boston, Mass

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

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

Lois DeBaakey, PhD
Baylor College of Medicine
Houston, Tex

Ronald G. Evens, MD
Washington University
School of Medicine
St Louis, Mo

Alain Joffe, MD
Johns Hopkins University
School of Medicine
Baltimore, Md

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

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

Hervé Maisonneuve, MD
Paris 7 University
Paris, France

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—Davis, East Bay
Oakland, Calif

Edmund D. Pellegrino, MD
Georgetown University
Washington, DC

Reed E. Pyeritz, MD, PhD
MCP Hahnemann University
Pittsburgh, Pa

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

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

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

Renée Solomon, MD
Mount Sinai—NYU Medical Center
New York, NY

Masaaki Terada, MD
National Cancer Center
Tokyo, Japan

INTERNATIONAL ADVISORY COMMITTEE

Bassel Atallah, MD, JAMA—Middle East
Mauro Bologna, MD, JAMA—Italy
Romuald Debski, MD, PhD, JAMA—Poland
Csaba Farsang, MD, DSc, JAMA—Hungary
Carlos R. Gherardi, MD, JAMA—Argentina
Carla Gikovate, MD, MSc, JAMA—Brazil
Hiromasa Ishii, MD, JAMA—Japan
Evin Kantemir, MD, JAMA—Turkey
A. J. Khan, SI, FRCP, JAMA—Pakistan
Jin-Pok Kim, MD, JAMA—Korea
C. R. Kumana, MBBS, JAMA—Southeast Asia
Li Chengyi, MD, JAMA—China
Alexandra Livaditou, MD, JAMA—Greece
Victor Hugo Olmedo Canchola, MD, JAMA—Mexico
Ivan Vidmar, MD, JAMA—Slovenia
Miquel Vilardell-Tarres, MD, JAMA—Spain
Jiří Widimský, MUDr, DrSc, JAMA—Czech/Slovak
Alexei Yurenev, MD, JAMA—Russia