

JAMA

The Journal of the American Medical Association
107 Years of Continuous Publication

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.

Editor: George D. Lundberg, MD

Deputy Editor: Richard M. Glass, MD

Deputy Editor (West): Drummond Rennie, MD

Senior Editors: Helene M. Cole, MD, Don Friesen, MD

Senior Contributing Editors: Bruce B. Dan, MD, M. Therese Southgate, MD

Contributing Editors: Charles B. Clayman, MD, David S. Cooper, MD, Harriet S. Meyer, MD, Carin M. Olson, MD, Jeanette M. Smith, MD, Jody W. Zylke, MD

Consulting Editor: Roger C. Bone, MD

Statistical Editor: Naomi Vaisrub, PhD

Assistant to the Editor: Annette Flanagan

Medical News—Editor: Phil Gunby; **Associate Editors:** Paul Cotton, Marsha F. Goldsmith, Charles Marwick (Washington, DC), Ten Randall, Andrew Skolnick

Associate Editors: Charlene Breedlove, Roxanne K. Young

Special Assignments Editor: Dennis L. Breo

Editorial Services Manager: Elaine Williams

Production Manager: M. Kathleen Berka

Electronic Manager: Mary C. Steermann

Editorial Processing Manager: Cheryl Iverson

Assistant Editorial Processing Manager: Paula Glitman Stone

Staff Assistants: Diane Darnell, Bonnie Van Cleven

Electronic Coordinator: Mary Ellen Johnston

Production Supervisors: Barbara Clark (Proofreading), Betty Frigenio (Production), Thomas J. Handrigan (Illustrations), JoAnne Weiskopf (Layout)

Copy Editing: Vickey Golden (Free-lance Coordinator), Paul Frank (Senior Copy Editor), Susan R. Benner, Susan L. McIlwaine, Richard T. Porter, Anne Schmidt Ryan, Jennifer Sperry

Proofreading: Gwen Gilberg, Margaret Johnson, Teresa H. Omitek, Jennifer Reiling

Senior Production Assistants: Melinda Arcabos, Karen Branham, Anita Henderson, Marci A. Kayne, Debra Lucas, Christine Metzler, Dorothy Patterson, Debbie Pogorzelski, E. Ruth White, Lynn Yuill

Production Assistants: Brenda Chandler, Sandra Sanders

Illustrations and Layout: Leslie Koch, Juliana K. Mills, Linda Schmitt

Cover Editor: M. Therese Southgate, MD

Editorial Coordinator: Lenette Williams

Editorial Supervisors: Steve Sarang, Gale Saulsberry

Editorial Assistants: Mary Cannon, Kemberly Evans, Anne Frecka, Helen M. Giese, Shirley Goines, Sharon Iverson, Patricia Jowerski, Andrea Kanter, Mary Ann Lilly, Ethel Pinkston, Dan Reyes, Dorothy White, Helga Wutz

Electronic Input Specialist: Vee Bailey

Scientific and Socioeconomic Indexing Department: Norman Frankel (Director), George Kruto, Susan McClelland, Mary Kay Tinerella

JAMA, The Journal of the American Medical Association (ISSN 0098-7484), is published four issues per month by the American Medical Association, 515 N State St, Chicago, IL 60610. Phone (312) 464-5000. Cable address "Medic" Chicago.

SUBSCRIPTION RATES—The subscription rate per year is \$20.00 which is included in the annual AMA membership dues. Nonmembers are charged a higher than basic rate of \$79.00 for 1 year, \$143.00 for 2 years in the United States and U.S. possessions; in all other countries, 1 year \$99; 2 years \$183 (add \$40 surcharge to each 1-year subscription and \$80 surcharge to each 2-year subscription for air delivery available to most countries). Medical students and residents are also charged a higher than basic rate of \$39.50 for 1 year, \$71.50 for 2 years in the United States and U.S. possessions. Rates for subscriptions for delivery to Japan or South Korea are available through respective exclusive agents. Address all subscription communications to American Medical Association, Circulation Division, 515 N State St, Chicago, IL 60610. Phone: (312) 670-SUBS.

CHANGE OF ADDRESS—POSTMASTER, send all address changes to JAMA, The Journal of the American Medical Association, attention: Subscription Department, 515 N State St, Chicago, IL 60610. Notification of address change must be made at least 6 weeks in advance; include both old and new addresses, a recent mailing label, and your new zip code. Second-class postage paid at Chicago and additional mailing office.

JAMA® Registered in the US Patent and Trademark Office.
Copyright © 1991 by the American Medical Association



April 17, 1991, Vol 265, No. 15

To promote the science and art of medicine and the betterment of the public health.

Original Contributions

Effect of Outcome on Physician Judgments of Appropriateness of Care

R. A. Caplan, K. L. Posner, F. W. Cheney, Seattle, Wash 1957

Fetal Alcohol Syndrome in Adolescents and Adults

A. P. Streissguth, J. M. Aase, S. K. Clarren, S. P. Randels, R. A. LaDue, Seattle, Wash; D. F. Smith, Vancouver, British Columbia 1961

Disposition and Pharmacodynamics of Methamphetamine in Pregnant Sheep

D. J. Burchfield, V. W. Lucas, R. M. Abrams, R. L. Miller, C. L. DeVane, Gainesville, Fla 1968

Clinical Investigation

Hepatitis B and C Viruses and Their Interaction in the Origin of Hepatocellular Carcinoma

E. Kaklamani, Athens, Greece; D. Trichopoulos, Boston, Mass; A. Tzonou, X. Zavitsanos, Y. Koumantaki, A. Hatzakis, Athens, Greece; C. C. Hsieh, Boston, Mass; S. Hatzilyannis, Athens, Greece 1974

Special Communication

A Critique of the Use of Generic Screening in Quality Assessment

P. J. Sanazaro, San Francisco, Calif; D. H. Mills, Long Beach, Calif 1977

Brief Report

Inability to Assess Breath Sounds

During Air Medical Transport by Helicopter 1982

R. C. Hunt, D. M. Bryan, V. S. Brinkley, T. W. Whitley, N. H. Benson, Greenville, NC

Review

A Meta-analysis of the Effect of Estrogen Replacement Therapy on the Risk of Breast Cancer

K. K. Steinberg, S. B. Thacker, S. J. Smith, D. F. Stroup, M. M. Zack, W. D. Flanders, R. L. Berkelman, Atlanta, Ga 1985

Caring for the Uninsured and Underinsured

Health Care in Crisis: A Proposed Role for the Individual Physician as Advocate

L. C. Kleinman, Los Angeles, Calif 1991

Commentary

Beyond Generic Occurrence Screening

D. S. O'Leary, Oakbrook Terrace, Ill 1993

Editorial

Do Bad Outcomes Mean Substandard Care?

S. A. Schroeder, A. I. Kabcenell, Princeton, NJ 1995

Medical News & Perspectives

1917

Army Center Helps Severely Burned Patients Push Survival 'Envelope' . . .
Cultured Skin Cells, Artificial Dermis Join in Race Against Time to Cover Burn Wound . . .
Burn Patients Confront Pain, Fear, Loss of Control . . .
Symptoms May Return After Carpal Tunnel Surgery . . .
Miscellanea Medica

From the Alcohol, Drug Abuse, and Mental Health Administration

1926

From the Health Care Financing Administration

1927

1913

From the Centers for Disease Control 1930

Alcohol-Related Traffic Fatalities Among Youth and Young Adults—United States, 1982-1989

The Cover 1932

Ernest Lawson, *Springtime, Harlem River* M. T. Southgate, Chicago, Ill

Specialty Abstracts 1934

A Piece of My Mind 1944

Empathy

Letters 1949

Reducing High Blood Cholesterol Levels With Drugs

J. D. Bentkover, B. A. Boselli, P. A. Lambird, K. A. Shulman, B. Kinoshian, T. A. Jacobson, H. Glick, J. M. Eisenberg, H. Koffer, M. K. William

Monitoring for Side Effects of NSAIDs

G. K. Graham, G. R. Gay

A Diagnostic Model for Diagnosing Chlamydial Infection

D. G. Addiss, M. L. Vaughn, J. P. Davis, B. A. Johnson, R.M. Poses

Clarification of AIDS Mortality in Women

R. L. Berkelman, S. Y. Chu, K. Farizo, J. W. Buehler

Legal Intervention During Pregnancy

F. A. Chervenak, L. B. McCullough, R. C. Grandon, D. Orentlicher, K. A. Halkola

Correction 1953

Controversy Grows Over Monitoring System for New Schizophrenia Drug M.J. Kleinerman

Resident Forum 1996

First Call for AMA-RPS Annual Meeting . . . Cohen Reintroduces Loan Deferment Bill

Books 1999

Living With AIDS (Graubard, ed) Reviewed by M. Callan

Concise Textbook of Medicine (Kochar, Kully, eds) Reviewed by F. D. Gray

Edeiken's Roentgen Diagnosis of Diseases of Bone (Edeiken, Dalinka, Karasick)

Reviewed by S. E. Harms

Books Received

JAMA 100 Years Ago 2003

Voice in Female Singers Affected by Gynecological Disorders.

Questions and Answers 2004

Dermatophyte Infection of Toenails: The Ajax Cure P. Kechijian

Elevated Creatine Kinase Levels G. Pattee, S. P. Ringel

CME Forum 2006

Obituary Listing 2008

Poetry and Medicine 2012

Drug Thieves at the Doctor's Office

Classified Advertising 2013

JAMA Journal Club Reading Assignments 2028

Index to Advertisers 2028

Reference Directories

AMA Officials, April 3; US Meetings, April 3; Organizations of Medical Interest, January 9; State Associations and Examinations and Licensure, January 16; Meetings Outside the United States, January 23/30

Instructions for Authors See January 2, 1991, p 49.

JAMA

The Journal of the American Medical Association

EDITORIAL BOARD

Kenneth A. Arndt, MD, Boston, Mass
Byron J. Bailey, MD, Galveston, Tex
Robert J. Blendon, ScD, Boston, Mass
James E. Dalen, MD, Tucson, Ariz
Lois DeBaakey, PhD, Houston, Tex
R. Gordon Douglas, Jr, MD, New York, NY
Ronald G. Evens, MD, St Louis, Mo
William H. Foote, MD, Atlanta, Ga
Renee C. Fox, PhD, Philadelphia, Pa
Daniel X. Freedman, MD, Los Angeles, Calif
Vincent A. Fulginiti, MD, New Orleans, La
Morton F. Goldberg, MD, Baltimore, Md
Marilyn Heins, MD, Tucson, Ariz
King K. Holmes, MD, PhD, Seattle, Wash
Robert J. Joynt, MD, PhD, Rochester, NY
Gordon K. MacLeod, MD, Pittsburgh, Pa
William W. McLendon, MD, Chapel Hill, NC
Arno G. Motulsky, MD, Seattle, Wash
Claude H. Organ, Jr, MD, Oakland, Calif
Edmund D. Pellegrino, MD, Washington, DC
Robert E. Rakel, MD, Houston, Tex
David J. Shulkin, MD, Philadelphia, Pa
Thomas P. Stossel, MD, Boston, Mass
Anne Colston Wentz, MD, Chicago, Ill

INTERNATIONAL ADVISORY COMMITTEE

Prof Luigi Allegra, JAMA—Italy
Dr Michèle Dekker, JAMA—France
Yulchiro Goto, MD JAMA—Japan
Dr J. K. Jain, JAMA—India
Prof Dr Med Max Just, JAMA—Switzerland
Prof Dr Ivan Lambić, JAMA—Yugoslavia
Yong Kak Lee, MD, FACS JAMA—South Korea
Dr Mehmet Pekus, JAMA—Turkey
Azam Soorma, MBBCh, JAMA—Pakistan
Prof David Todd, JAMA—Southeast Asia
Dr Zhang Hongkal, JAMA—People's Republic of China
Dr Pierre-Francois Unger, JAMA—Switzerland

AMA Officers

President: C. John Tupper, MD*
President-Elect: John J. Ring, MD*
Immediate Past President: Alan R. Nelson, MD
Secretary-Treasurer: Jerald R. Schenken, MD*
Speaker, House of Delegates: John L. Clowe, MD
Vice-Speaker, House of Delegates: Daniel H. Johnson, Jr, MD

AMA Trustees

Lonnie R. Bristow, MD*; Rufus K. Broadaway, MD; Mary Ann Contogiannis, MD (Resident); Nancy W. Dickey, MD; Palma E. Formica, MD; William E. Jacott, MD; Audrey J. Ludwig (Student); Robert E. McAfee, MD* (Vice-Chairman); Joseph T. Painter, MD* (Chairman); Thomas R. Reardon, MD; Raymond Scalettar, MD*; Jerald R. Schenken, MD* (Secretary); P. John Seward, MD; Frank B. Walker, MD

*Executive Committee

Executive Vice President: James S. Todd, MD
Deputy Executive Vice President: Kenneth E. Monroe
Senior Vice President: Larry E. Joyce
Vice President, Publishing: Robert L. Kennett
Editor-in-Chief, Scientific Publications: George D. Lundberg, MD
Director, Publication Production and Printing Division: Nawin Gupta
Director, Advertising Sales and Promotion Services Division: Dennis Joseph Dennehy
Director, Advertising Services: Raymond Christian
Director, Circulation Department: Beverly Martin
Director, Fulfillment Department: Ray Healy

ADVERTISING OFFICES: Eastern: 600 Third Ave, Suite 3700, New York, NY 10016 (Representatives: Alice Harvey-Herman, Cliff Vanderhoof [212-867-6640]); Midwest/Farwest: 515 N State St, Chicago, IL 60610 (Manager: Thomas J. Carroll [312-464-2472] Representative: Daniel T. Mjolsness); Classified Advertising: Michele Hanrahan (312-464-2456)

ADVERTISING PRINCIPLES—Advertisements in this issue have been reviewed to comply with the principles governing advertising in AMA publications. A copy of these principles is available on request. The appearance of advertising in AMA publications is not an AMA guarantee or endorsement of the product or the claims made for the product by the manufacturer.