


**Editor:** George D. Lundberg, MD  
**Deputy Editor (West):** Drummond Rennie, MD  
**Senior Editors:** Helene M. Cole, MD, Don Riesenber, MD  
**Senior Contributing Editors:** Bruce B. Dan, MD, M. Therese Southgate, MD  
**Contributing Editors:** Charles B. Clayman, MD, David S. Cooper, MD, Lester S. King, MD, Harriet S. Meyer, MD, Jody W. Zyke, MD  
**Consulting Editors:** Roger C. Bone, MD, Richard M. Glass, MD  
**Statistical Editor:** Naomi Vaisrub, PhD  
**Morris Fishbein Fellow:** Carin M. Olson, MD  
**Assistant to the Editor:** Annette Flanagin  
**Medical News — Editor:** Phil Gunby; **Associate Editors:** Marsha F. Goldsmith, Charles Marwick (Washington, DC), Beverly Merz; Chris Raymond, PhD; **Assistant Editor:** Timothy F. Kim  
**Graduate Fellow:** Suzann Silverman, Medill School of Journalism, Northwestern University, Evanston, Ill  
**Associate Editors:** Charlene Breedlove, Roxanne K. Young  
**Editorial Services Manager:** Elaine Williams  
**Production Manager:** Marlene M. Hinsch  
**Assistant Production Manager:** John R. Sayban  
**Editorial Processing Manager:** Cheryl Iverson  
**Assistant Editorial Processing Manager:** Paula Glitman  
**Permissions and Graphic Design Manager:** Dennis J. Shipley  
**Staff Assistants:** Diane Darnell, Bonnie Van Clevon  
**Production Supervisors:** Lori A. Barba (Copy Editing), Thomas J. Handigan (Illustrations), Elizabeth Petrikenas (Proofreading), John R. Sayban (Advertising), Mary C. Steermann (Editorial), JoAnne Weiskopf (Layout)  
**Copy Editing:** Vickey Golden (Free-lance Coordinator), Paul Frank (Senior Copy Editor), Lisa Cluver, Daniel Halibey, Jerri Schwartz, Jennifer Sperry, Melissa Ulloa  
**Proofreading:** Teresa H. Omiolek, Richard T. Porter, Jennifer Reiling, Barbara Wojtowicz  
**Senior Production Assistants:** Melinda Arcabas, Laura Bleiler, Karen Branham, Cynthia Gelper, Jerri Hall-Gortowski, Anita Henderson, Debra Lucas, Dorothy Patterson, Susan Price, E. Ruth White, Ellen Yoshihara  
**Production Assistant:** Darlene E. Filips  
**Illustrations and Layout:** Carl Biamonte, Kimberly McCormick, Juliana K. Mills  
**Cover Editor:** M. Therese Southgate, MD  
**Editorial Coordinator:** Lenette Williams  
**Editorial Supervisors:** Cassandra Johnson, Steve Sarang, Gale Saulsberry  
**Administrative Assistant:** Michele Bacuros  
**Editorial Assistants:** Mary Cannon, Kemberly Evans, Shirley Goines, Sharon Iverson, Mary Ann Lilly, Ethel Pinkston, Dorothy White, Helga Wutz  
**Electronic Input Specialist:** Vee Bailey  
**Scientific and Socioeconomic Indexing Department:** Norman Frankel (Director), George Kruto, Susan McClelland, Mary Kay Tinerella  
 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.

**JAMA, The Journal of the American Medical Association** (ISSN 0098-7484), is published four issues per month by the American Medical Association, 535 N Dearborn St, Chicago, IL 60610. Phone (312) 645-5000. Cable address "Medic" Chicago.  
**SUBSCRIPTION RATES**—The subscription rate per year for members of the AMA is \$2 included in the annual membership dues. The subscription rate per year for nonmembers is \$66 for 1 year, \$117 for 2 years in the US and US possessions, in all other countries, 1 year \$83; 2 years, \$151 (add \$35 surcharge to each 1-year subscription and \$70 surcharge to each 2-year subscription for air delivery available to most countries). Rates to US medical students and residents, \$33 for 1 year, \$41.50 for 2 years in the US and US 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 and Fulfillment Division, 535 N Dearborn St, Chicago, IL 60610. Phone: (312) 280-7168.  
**CHANGE OF ADDRESS**—POSTMASTER, send all address changes to JAMA, The Journal of the American Medical Association, attention: Subscription Department, Director of Fulfillment, 535 N Dearborn 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 © 1989 by the American Medical Association 

## Original Contributions

**Prospective Study of Human Immunodeficiency Virus Infection and Pregnancy Outcomes in Intravenous Drug Users** ..... 1289  
 P. A. Selwyn, E. E. Schoenbaum, K. Davenny, V. J. Robertson, A. R. Feingold, J. F. Shulman, M. M. Mayers, R. S. Klein, G. H. Friedland, Bronx, NY; M. F. Rogers, Atlanta, Ga

**Frequency and Types of Medical Emergencies Among Commercial Air Travelers** ..... 1295  
 R. O. Cummins, J. A. Schubach, Seattle, Wash

**Nicotine vs Placebo Gum in General Medical Practice** ..... 1300  
 J. R. Hughes, Burlington, Vt; S. W. Gust, Washington, DC; R. M. Keenan, Minneapolis, Minn; J. W. Fenwick, Burlington, Vt; M. L. Healey, Minneapolis, Minn

## Brief Reports

**Pregnancy-Associated Deaths due to AIDS in the United States** ..... 1308  
 L. M. Koonin, T. V. Ellerbrock, H. K. Atrash, M. F. Rogers, J. C. Smith, C. J. R. Hogue, Atlanta, Ga; M. A. Harris, W. Chavkin, New York, NY; A. L. Parker, G. J. Halpin, Trenton, NJ

**Benign Familial Hyperphosphatasemia** ..... 1310  
 P. A. Siraganian, J. J. Mulvihill, Bethesda, Md; R. A. Mulivor, Camden, NJ; R. W. Miller, Bethesda, Md

## State of the Art/Review

**Listeriosis** ..... 1313  
 B. G. Gellin, C. V. Broome, Atlanta, Ga

## Grand Rounds at the Clinical Center of the National Institutes of Health

**Type D (Delta) Hepatitis** ..... 1321  
 J. H. Hoofnagle, Bethesda, Md

## Editorials

**HIV Disease in Reproductive Age Women: A Problem of the Present** ..... 1328  
 S. H. Landesman, H. Minkoff, Brooklyn, NY; A. Willoughby, Bethesda, Md

**The Accidental Tourist: Medical Emergencies in the Air** ..... 1328  
 B. B. Dan, Chicago, Ill

## The Cover ..... 1251

**Theodore Wores, Honolulu Garden**  
 M. T. Southgate, Chicago, Ill

## Medical News & Perspectives ..... 1255

**As Influenza Season Progresses, Experts Look Ahead to 1990 Season . . . Pacific Basin May Provide Early Flu Warning . . . Computers Star in New Communication Concepts for Physically Disabled People . . . Vision-Related Problems May Offer Clues for Earlier Diagnosis of Alzheimer's Disease**

## From the National Institutes of Health ..... 1260

## Leads From the Morbidity and Mortality Weekly Report ..... 1265

**Recommendations of the Immunization Practices Advisory Committee  
 Pneumococcal Polysaccharide Vaccine**

## Reference Directories

US Meetings ..... 1268

Organizations of Medical Interest, January 13; State Associations and Examinations and Licensure, January 20; Meetings Outside the United States, January 27; AMA Officials, August 19

JAMA 100 Years Ago ..... 1272

The Lomb Prize Essay and The New York Herald.

Letters ..... 1275

Hemophiliacs With HIV Seroconversion Associated With Heat-Treated Products: Are They Actively Infected? V. Damjanovic, J. B. Jackson, H. H. Balfour, Jr

Mandatory Reporting of HIV Testing Would Deter Men From Being Tested S. M. Kegeles, T. J. Coates, B. Lo, J. A. Catania

No Pretending Not to Know R. Rokey, L. A. Rolak, G. W. Vick III, D. L. Brown

ASA T. C. Smith, D. Rennie

The Epstein-Barr Virus and Chronic Fatigue Syndrome W. J. Hermann, Jr, G. R. Reiss, W. C. Hellinger, R. S. Edson

Prophylactic Lidocaine in Acute MI P. I. Hershberg, A. Volpi, A. Cavalli, A. Maggioni, M. G. Franzosi, G. Tognoni

Who Will Die in the ICU? APACHE II, ROC Curve Analysis, and, of Course, Cleone D. A. Redelmeier, R. M. Poses, M. L. Auerback, J. A. Kruse, R. W. Carlson

Physicians and Journalists E. Robinson-Haynes, D. F. Phillips

Correction ..... 1280

Eruptive and Tubero-eruptive Xanthomas of the Skin Arising on Sites of Prior Injury: Two Case Reports, G. Roederer, M. Xhignesse, J. Davignon, Montreal, Canada

Obituaries ..... 1285

B. Felson, by S. Sarang; T. S. Zimmerman, by S. Sarang; N. F. Spafford, Jr, by R. M. Hoffman

Literature and Medicine ..... 1329

A Piece of My Mind ..... 1333

Keola and the Kahuna

Domestic Abstracts ..... 1336

Questions and Answers ..... 1342

Physiological Effects of Standing: Does Type of Flooring Matter? J. J. Andonian

Jewelry in the Operating Room T. R. Beam, Jr

Books ..... 1345

Sports Medicine (Appenzeller, ed) Reviewed by B. Balke

Neuromuscular Diseases (Swash, Schwartz) Reviewed by S. U. Ho

Clinical Radiation Oncology (Wang, ed) Reviewed by W. G. Gunn

Operative Neurosurgical Techniques (Schmidek, Sweet, eds) Reviewed by D. L. Erickson

An Informal History of W. B. Saunders Company (Dusseau) Reviewed by H. S. Meyer

AIDS (Holmes, Motulsky, eds) Reviewed by H. Bollers, A. P. Panwalker

Current Protocols in Molecular Biology (Ausubel, Brent, Kingston, eds) Reviewed by R. Teplitz

Books Received

Pulse ..... 1353

Obituary Listing ..... 1361

Classified Advertising ..... 1363

CME Corner ..... 1374

Index to Advertisers ..... 1376

JAMA Journal Club Reading Assignments ..... 1376

Instructions for Authors ..... See February 10, 1989, p 855.

1246 JAMA, March 3, 1989—Vol 261, No. 9

# JAMA<sup>®</sup>

The Journal of the American Medical Association

## EDITORIAL BOARD

Kenneth A. Arndt, MD, Boston, Mass  
Byron J. Balley, MD, Galveston, Tex  
Robert J. Blendon, ScD, Boston, Mass  
James E. Dalen, MD, Tucson, Ariz  
Lois DeBaKey, PhD, Houston, Tex  
R. Gordon Douglas, Jr, MD, New York, NY  
William H. Foege, MD, Atlanta, Ga  
Renee C. Fox, PhD, Philadelphia, Pa  
Daniel X. Freedman, MD, Los Angeles, Calif  
Vincent A. Fuqini, MD, Tucson, Ariz  
Morton F. Goldberg, MD, Chicago, Ill  
Marilyn Helms, MD, Tucson, Ariz  
King K. Holmes, MD, PhD, Seattle, Wash  
Harold G. Jacobson, MD, Bronx, NY  
Robert J. Joynt, MD, PhD, Rochester, NY  
Mark S. Litwin, MD, Boston, Mass  
Gordon K. MacLeod, MD, Pittsburgh, Pa  
Daniel J. McCarty, MD, Milwaukee, Wis  
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  
Thomas P. Stossel, MD, Boston, Mass

## INTERNATIONAL ADVISORY COMMITTEE

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  
Prof David Todd, JAMA—Southeast Asia  
Dr Zhang Hongkai, JAMA—People's Republic of China  
Dr Pierre-François Unger, JAMA—Switzerland

## AMA Officers

President: James E. Davis, MD\*  
President-Elect: Alan R. Nelson, MD\*  
Immediate Past President: William S. Hotchkiss, MD  
Secretary-Treasurer: George L. Collins, Jr, MD\*  
Speaker, House of Delegates: John L. Clowe, MD  
Vice-Speaker, House of Delegates: Daniel H. Johnson, Jr, MD

## AMA Trustees

Timothy E. Baldwin, MD (Resident); Lonnie R. Bristow, MD; Rufus K. Broadaway, MD; George L. Collins, Jr, MD\* (Secretary); John H. Dawson, MD; Ray W. Gifford, Jr, MD; Robert E. McAfee, MD\*; Joseph T. Painter, MD\* (Vice-Chairman); Rebecca J. Patchin (Student); John J. Ring, MD\* (Chairman); Raymond Scalettar, MD; Jerald R. Schenken, MD\*; C. John Tupper, MD; Frank B. Walker, MD

\*Executive Committee

Executive Vice President: James H. Sammons, MD  
Senior Deputy Executive Vice President: James S. Todd, MD  
Deputy Executive Vice President: Kenneth E. Monroe  
Assistant Executive Vice President: Theodore R. Chilcoat, Jr  
Assistant Executive Vice President: M. Roy Schwarz, MD  
Vice President, Publishing: John T. Baker  
Vice President, Scientific Information: George D. Lundberg, MD

Director, Publication Production and Printing Division: Norman D. Richey

Director, Advertising Sales and Promotion Services Division: Dennis Joseph Dennehy

Director, Circulation-Fulfillment Division: Lee A. Parent

Director, Advertising Communications: Thomas J. Carroll

Director, Advertising Services: Raymond Christian

ADVERTISING OFFICES: Eastern: 600 Third Ave, Suite 700, New York, NY 10016 (Manager: Robert C. Corcoran [212-867-6640]; Representatives: Alice Harvey-Herman, Cliff Vanderhoof; Midwest/Farwest: 535 N Dearborn St, Chicago, IL 60610 (Manager: Thomas J. Carroll [312-280-7182]; Representative: Daniel T. Mjolsness); Classified Advertising: Leah Wnukowski (312-280-7190)

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.