

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 Flanagan
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 Bredelove, Roxanne K. Young
Assistant Editor: Sharon Iverson
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. Handrigan (Illustrations), Elizabeth Petrikenas (Proofreading), John R. Sayban (Advertising), Mary C. Steermann (Editorial), JoAnne Weiskopf (Layout)
Copy Editing: Vickay Golden (Free-Invoice Coordinator), Paul Frank (Senior Copy Editor), Lisa Cluver, Daniel Halibey, Jerri Schwartz, Jennifer Sperry, Melissa Ulloa
Proofreading: Teresa H. Omiotek, Richard T. Porter, Jennifer Reiling, Barbara Wojtowicz
Senior Production Assistants: Malinda Arcabos, Laura Bleiler, Karen Branham, Cynthia Gelpier, 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, Gale Saulsberry
Administrative Assistant: Michele Bacuros
Editorial Assistants: Mary Cannon, Kemberly Evans, Shirley Goines, Mary Ann Lilly, Ethel Pinkston, Steve Sarang, Dorothy White, Helga Wutz
Electronic Input Specialist: Vee Bailey
Scientific and Socioeconomic Indexing Department: Norman Frankel (Director), George Kruto, Susan McClelland, Mary Kay Tinarella

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 one year, \$117 for two years in the U.S. and U.S. possessions, in all other countries, one year \$83; two years, \$151 (add \$35 surcharge to each one-year subscription and \$70 surcharge to each two-year subscription for air delivery available to most countries. Rates to U.S. medical students and residents, \$33 for one year, \$41.50 for two years in the U.S. 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 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: Caryl L. Wertheimer, Director of Fulfillment, 535 N Dearborn St, Chicago, IL 60610. Notification of address change must be made at least six 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

- Passive Smoking on Commercial Airline Flights**867
M. E. Mattson, G. Boyd, D. Byar, C. Brown, J. F. Callahan, D. Corle, J. W. Cullen, Bethesda, Md; J. Greenblatt, Rockville, Md; N. J. Haley, Valhalla, NY; S. K. Hammond, Worcester, Mass; J. Lewtas, Research Triangle Park, NC; W. Reeves, Montreal, Canada
- Average Daily Blood Pressure, Not Office Blood Pressure, Determines Cardiac Function in Patients With Hypertension**873
W. B. White, P. Schulman, E. J. McCabe, H. M. Dey, Farmington, Conn
- Efficacy of an Attachable Subcutaneous Cuff for the Prevention of Intravascular Catheter-Related Infection**878
R. H. Flowers III, K. J. Schwenzer, R. F. Kopet, M. J. Fisch, S. I. Tucker, B. M. Farr, Charlottesville, Va
- The Limited Reliability of Physical Signs for Estimating Hemodynamics in Chronic Heart Failure**884
L. W. Stevenson, J. K. Perloff, Los Angeles, Calif

Special Communication

- The Ravelled Sleeve of Care**899
J. M. Colford, Jr, S. J. McPhee, San Francisco, Calif

Brief Reports

- Adrenal Insufficiency After Operative Removal of Apparently Nonfunctioning Adrenal Adenomas**894
C. M. Huias, G. B. Pehling, R. H. Caplan, La Crosse, Wis
- Comparing Tobacco Cigarette Dependence With Other Drug Dependences**898
L. T. Kozlowski, D. A. Wilkinson, W. Skinner, C. Kent, T. Franklin, M. Pope, Toronto, Canada

Topics in Radiology

- Intrahepatic Pregnancy**902
G. J. Harris, A. S. Al-Juri, W. T. C. Yuh, M. M. Abu-Yousef, Iowa City, Iowa

Commentaries

- Old Age and New Policy**905
D. Callahan, Briarcliff Manor, NY
- Options to Control the Rising Health Care Costs of Older Americans**907
E. L. Schneider, Los Angeles, Calif

Editorial

- No Turning Back: A Blueprint for Residency Reform**909
T. B. McCall, Cambridge, Mass

The Cover811

Toulouse-Lautrec, A Corner of the Moulin de la Galette

M. T. Southgate, Chicago, Ill

Medical News & Perspectives813

Distrust, Rage, May Be 'Toxic Core' That Puts 'Type A' Person at Risk . . . New Studies Fuel Controversy Over Universal Cholesterol Screening During Childhood . . . Useful Advice to Patient Whose Spouse Has Died: 'Establish a Routine, Mingle With Other People' . . . Intensifying the War Against Drunken Driving by Discouraging Alcohol Consumption in General . . . In Herpes or Chlamydia Infections, Immune Response May Be Key Factor in Lost Vision . . . Miscellaneous Medica

From the Food and Drug Administration821

Leads From the Morbidity and Mortality Weekly Report 823

Years of Potential Life Lost Before Age 65—United States, 1987 . . . Measles Prevention: Supplementary Statement . . . Preliminary Report: 2,3,7,8-Tetrachlorodibenzo-p-dioxin Exposure to Humans—Seveso, Italy

Literature and Medicine 834

AMA Insights 839

International Abstracts 843

Instructions for Authors 855

Letters 859

Sleep Deprivation and Performance of Residents T. B. McCall, C. E. Schwartz, K. Ritchie, B. R. Pawel, M. K. Chelminowski, M. W. Burlingame, T. H. Monk, D. J. Buysse, G. S. Walbroehl, D. H. Novack, D. B. Reuben, S. Goodman, J. M. Feldman, D. Blocker, R. L. Cohen, T. F. Deaconson, D. P. O'Hair, M. F. Levy, M. B.-F. Lee, R. E. Condon, A. L. Schueneman

'Poe-phyria,' Madness, and The Fall of the House of Usher L. S. Rickman, C. R. Kim

Premenstrual Exacerbations in Hepatic Porphyria: Prevention by Intermittent Administration of an LH-RH Agonist in Combination With a Gestagen M. J. Bargetzi, U. A. Meyer, M. H. Birkhaeuser

Alcoholism as Willful Misconduct J. A. Schaler, T. V. Seessel

Cessation of Zidovudine Therapy May Lead to Increased Replication of HIV-1 M. A. Wainberg, J. Falutz, M. Fanning, J. Gill, K. Gelmon, J. S. G. Montaner, M. O'Shaughnessy, C. Tsoukas, J. Ruedy

Metronidazole and Cancer G. D. Friedman, J. V. Selby

Nine-ball Neck R. D. Smith

A Piece of My Mind 914

An Elegy

The Exchange 916

Questions and Answers 917

Noninvasive Electrical Stimulation for Nonunited Bone Fracture (DATT)

Books 923

Stress (Hers, Terpstra, eds) Reviewed by E. Boisubin

Allergy (Middleton, Jr, Reed, Ellis, eds) Reviewed by N. R. Rose

Cancer of the Breast (Donegan, Spratt) Reviewed by N. P. Lang

Otologic Medicine and Surgery (Alberti, Ruben, eds) Reviewed by W. D. Clark

Preventing CAN Deaths (Greenland) Reviewed by D. L. Chadwick

Sexual Happiness (Yaffé, Fenwick) Reviewed by B. C. Einspruch

The Psychology of Women (Walsh, ed) Reviewed by C. N. Jacklin

The Directory of Online Healthcare Databases 1988 (Peterkin, Black, eds) Reviewed by R. W. Hogan

Judging Medicine (Annas) Reviewed by W. P. Deiss, Jr

Morbid Appearances (Maulitz) Reviewed by D. M. Connors

Books Received

JAMA 100 Years Ago 932

Infantile Convulsions

Obituary Listing 933

Classified Advertising 942

CME Corner 954

Index to Advertisers 954

AMA Journal Club Reading Assignments 954

Reference Directories

US Meetings, February 3; **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[®]

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
Lola DeBaakey, 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. Fulginiti, 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. Motuleky, MD, Seattle, Wash
Claude H. Organ, Jr, MD, Oakland, Calif
Edmund D. Pellegrino, MD, Washington, DC
Robert E. Rakal, MD, Houston, Tex
Thomas P. Stossel, MD, Boston, Mass

INTERNATIONAL ADVISORY COMMITTEE

Dr Michèle Deker, JAMA—France
Yuichiro Goto, MD JAMA—Japan
Dr J. K. Jain, JAMA—India
Prof Dr Med Max Just, JAMA—Switzerland
Prof Dr Ivan Lambic, JAMA—Yugoslavia
Yong Kak Lee, MD, FACS JAMA—South Korea
Dr Mehmet Pekue, JAMA—Turkey
Prof David Todd, JAMA—Southeast Asia
Dr Zhang Hongkal, JAMA—People's Republic of China
Dr Pierre-Francois 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. Broadway, 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 [212-887-8640]); 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. Mjøsness; 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.