

EDITORIAL STAFF

Editor: George D. Lundberg, MD
Deputy Editor: Richard M. Glass, MD
Deputy Editor (West): Drummond Rennie, MD
Senior Editors: Phil B. Fontanarosa, MD, Margaret A. Winker, MD
Senior Contributing Editor: M. Therese Southgate, MD
Contributing Editors: Charles B. Clayman, MD, Helene M. Cole, MD, Thomas B. Cole, MD, MPH, David S. Cooper, MD, Harriet S. Meyer, MD, Carin M. Olson, MD, Jeanette M. Smith, MD, Jody W. Zylke, MD
Consulting Editors: Roger C. Bone, MD, Robert A. Clark, MD
Statistical Editor: Naomi Vaisrub, PhD
Associate Senior Editor: Annette Flanagin
Associate Editors: Charlene Breedlove, Roxanne K. Young
Fishbein Fellow: David H. Mark, MD, MPH
Medical News and Humanities: Phil Gunby (director)
Medical News & Perspectives: Marsha F. Goldsmith (editor); Charles Marwick, Andrew Skolnick, Joan Stephenson, PhD, Rebecca Voelker (associate editors)
Assistant Editors: Brian P. Pace, Kate Whetzie

EDITORIAL BOARD

Daniel M. Albert, MD, Madison, Wis
Kenneth A. Arndt, MD, Boston, Mass
H. David Banta, MD, Amsterdam, the Netherlands
Jack D. Barchas, MD, New York, NY
Robert J. Blendon, ScD, Boston, Mass
Marjorie A. Bowman, MD, MPA, Winston-Salem, NC
James E. Dalen, MD, Tucson, Ariz
Catherine D. DeAngelis, MD, Baltimore, Md
Lois DeBaakey, PhD, Houston, Tex
Ronald G. Evens, MD, St Louis, Mo
William H. Foege, MD, Atlanta, Ga
Michael E. Johns, MD, Baltimore, Md
Collin I. Johnston, MB,BS, Melbourne, Australia
Robert J. Joynt, MD, PhD, Rochester, NY
Max Just, MD, Basel, Switzerland
Donald A. B. Lindberg, MD, Bethesda, Md
William W. McLendon, MD, Chapel Hill, NC
Arno G. Motulsky, MD, Seattle, Wash
Quan Dong Nguyen, MD, Boston, Mass
Claude H. Organ, Jr, MD, Oakland, Calif
Michael Peckham, MB, MD, London, England
Edmund D. Pellegrino, MD, Washington, DC
Uwe E. Reinhardt, PhD, Princeton, NJ
Povl Riis, MD, Copenhagen, Denmark
Wolf-J. Stetter, MD, Frankfurt, Germany
Masaaki Terada, MD, Tokyo, Japan

INTERNATIONAL ADVISORY COMMITTEE
Bassel Atallah, MD, JAMA—Middle East
Demetre I. Athanassiadis, MD, JAMA—Greece
Mauro Bologna, MD, JAMA—Italy
Miguel Vigeant Gomes, MD, JAMA—Portugal
Yuichiro Goto, MD, JAMA—Japan
Ragini Jain, MD, JAMA—India
Evin Kantemir, MD, JAMA—Turkey
A. J. Khan, SI, FRCP, JAMA—Pakistan
C. R. Kumana, MBBS, JAMA—Southeast Asia
Jin-Pok Kim, MD, JAMA—Korea
Li Chengyi, MD, JAMA—China
Marla S. P. da Silva, MD, JAMA—Brazil
Miguel Vilardell-Tarres, MD, JAMA—Spanish Language
Ivan Vidmar, MD, JAMA—Slovenia
Jiří Widlmský, MD, DrSc, JAMA—Czech/Slovak

JAMA (ISSN 0098-7484) is published weekly by the American Medical Association, except for 4 combined issues in months with 5 Wednesdays. Address: 515 N State St, Chicago, IL 60610.

SUBSCRIPTION RATES—The subscription rate for AMA members is \$20 per year, which is included in the annual AMA membership dues. The annual subscription rates for nonmembers are \$125 in the United States and US possessions, \$160 in the Americas, and \$110 outside the Americas. The rate for nonmember medical students and resident physicians is \$80 in the United States. The annual institution rates are \$160 in the United States, \$200 in the Americas, and \$145 outside the Americas. Address all subscription communications to: Subscriber Services Center, American Medical Association, PO Box 10946, Chicago, IL 60610. Phone: (800) 262-2350; Fax: (312) 464-5831; e-mail: ama-sub@ama-assn.org.

CHANGE OF ADDRESS—POSTMASTER, send all address changes to: JAMA, The Journal of the American Medical Association, attention: Subscription Department, PO Box 10946, Chicago, IL 60610. Notification of address change must be made at least 6 weeks in advance; include both old and new addresses and a recent mailing label. Periodicals postage paid at Chicago and at additional mailing offices. GST Registration Number: 12622 5556 RT.

JAMA[®] Registered in the US Patent and Trademark Office.
Copyright[®] 1996 by the
American Medical Association



Original Contributions

- A Prospective Study of Cigarette Smoking and Age-Related Macular Degeneration in Women** 1141
J. M. Seddon, W. C. Willett, F. E. Speizer, S. E. Hankinson, Boston, Mass
- A Prospective Study of Cigarette Smoking and Risk of Age-Related Macular Degeneration in Men** 1147
W. G. Christen, R. J. Glynn, J. E. Manson, U. A. Ajani, J. E. Buring, Boston, Mass

Clinical Investigation

- Fatty Acid Ethyl Esters in the Blood as Markers for Ethanol Intake** 1152
K. M. Doyle, J. E. Cluette-Brown, D. M. Dube, T. G. Bernhardt, C. R. Morse, M. Laposata, Boston, Mass

Special Communication

- Yellow Fever: A Decade of Reemergence** 1157
S. E. Robertson, B. P. Hull, Geneva, Switzerland;
O. Tomori, O. Bele, Brazzaville, Congo;
J. W. LeDuc, K. Esteves, Geneva, Switzerland

Clinical Crossroads

- A 17-Year-Old Mother Seeking Contraception** 1163
D. A. Grimes, San Francisco, Calif
- A 61-Year-Old Man With Parkinson's Disease, 1 Year Later** 1171
T. L. Delbanco, J. Daley, E. E. Hartman, Boston, Mass

Consensus Statement

- The Role of Cost-effectiveness Analysis in Health and Medicine** 1172
L. B. Russell, New Brunswick, NJ; M. R. Gold, Washington, DC;
J. E. Siegel, Cambridge, Mass; N. Daniels, Medford, Mass;
M. C. Weinstein, Cambridge, Mass; for the Panel
on Cost-Effectiveness in Health and Medicine

Editorials

- Smoke Gets in Your Eyes Too** 1178
R. Klein, B. E. K. Klein, Madison, Wis
- Effectively Costing Out Options** 1180
J. M. Smith, Chicago, Ill

The 1996 Albert Lasker Medical Research Awards

- Prevention of Systemic Infections, Especially Meningitis, Caused by *Haemophilus influenzae* Type b: Impact on Public Health and Implications for Other Polysaccharide-Based Vaccines** 1181
J. B. Robbins, R. Schneerson, Bethesda, Md; P. Anderson, Rochester, NY;
D. H. Smith, New York, NY

- The Discovery of Endothelium-Derived Relaxing Factor and Its Importance in the Identification of Nitric Oxide** 1186
R. F. Furchgott, Brooklyn, NY

- Signal Transduction Using Nitric Oxide and Cyclic Guanosine Monophosphate** 1189
F. Murad, Lake Forest, Ill

The Cover 1118

Max Beckmann, *Self-portrait in Blue Jacket* M. T. Southgate

(Table of Contents continued on next page.)

AMA Archives Journals Abstracts 1118 b

Poetry and Medicine

Therapy J. L. Wright 1119

In Six Movements J. L. Wright 1120

JAMA 95 Years Ago 1120 d

The Increasing Sterility of American Women.

Resident Forum 1120 f

The Healing Fields

JAMA Instructions for Authors 1120 k

Medical News & Perspectives 1121

New Strategies to Fight Oral Cancer . . . Lipoprotein Patterns, Plaque, Homocysteine, and Hormones
Among Ongoing Cardiology Studies . . . Miscellanea Medica

From the Food and Drug Administration 1128

Plan for Distribution of Prescription Drug Information for Patients . . . Symposium on Deadly
Diseases and People of Color: Are Clinical Trials an Option? . . . Final Regulations to Reduce
Children's Use of Tobacco Issued . . . Treatment to Protect Against Poison Ivy Approved

From the Centers for Disease Control and Prevention 1130

Infection With *Mycobacterium abscessus* Associated With Intramuscular Injection
of Adrenal Cortex Extract—Colorado and Wyoming, 1995-1996

A Piece of My Mind 1132

Gertrude Stein Reads *JAMA* B. Wineapple

Letters 1135

Practice Guidelines for Treatment of Peptic Ulcer Disease M. B. Fennerty; C. A. Olson; D. D. Webb;
P. Tsang, H. Rotterdam; A. H. Soll for the ACG Practice Parameters Committee

Patient Privacy and Secondary Use of Administrative Databases S. Kumar, C. Lucey; L. O. Gostin,
Z. Lazzarini, V. S. Nestlund, M. I. Osterholm

Genetic Testing of Families With Hereditary Diseases O. I. Olopade; T. F. Thurmon; A. Wexler;
C. Lerman, K. Schulman, S. Narod, H. Lynch

Effect of Trimethoprim on Lamivudine Bioavailability M. Hudson, C. Nash; C. Katlama

Books, Journals, New Media 1193

The American Psychiatric Press Textbook of Consultation-Liaison Psychiatry (Rundell, Wise, eds)
Reviewed by W. W. Weddington

The Pathology of Congenital Heart Disease: A Personal Experience With More Than 6300
Congenitally Malformed Hearts (Bharati, Lev) Reviewed by F. J. Schoen

Democracy and DNA: American Dreams and Medical Progress (Weissmann)
Reviewed by S. H. Calmes

Cardiac Arrest: The Science and Practice of Resuscitation Medicine (Paradis et al, eds)
Reviewed by R. F. Wilson

Trauma (Feliciano et al, eds) Reviewed by J. H. Wulsin

Cope's Early Diagnosis of the Acute Abdomen (Silen) Reviewed by L. M. Nyhus

Books Received

Obituary 1198

Howard Washington Kenney, MD

Obituary Listing 1198

**Physician Recruitment Advertising
and Announcements** 1199

JAMA Journal Club Reading Assignments 1200 n

Index to Advertisers 1200 n

Reference Directories

Organizations of Medical Interest July 17, 1996; State Medical Associations and Examinations
and Licensure July 17, 1996; Meetings Outside the United States July 24/31, 1996;
Meetings in the United States August 28, 1996, AMA Officials October 2, 1996



The Journal of the American Medical Association

SCIENTIFIC INFORMATION AND MULTIMEDIA STAFF

New Media: William M. Silberg (editorial director), Marty Suter (assistant editor)

Editorial Systems and Administration: Elaine Williams (director), Vee Bailey (electronic input specialist)

Administrative Assistant: Helga Fritz

Editorial Assistants: Patricia Joworski, Gale Saulsberry, Juliana Walker (group supervisors); Kemberly Evans (letters coordinator); Linda Baker, Mary Cannon, Jacqueline Edwards, Lenette Gardner, Shirley Gogins, Gwenn Gregg, Lisa Hardin, Sharon Iverson, Mary Ann Lilly, Ethel Pinkston, Raul Serrato

Editorial Processing Division: Cheryl Iverson (director), Diane L. Cannon (freelance manager), Paul Frank (senior copy editor/Atex specialist)

Copy Editors: Jane C. Lantz (director), Susan R. Benner (senior copy editor), Bill Clements, Susan Goeks, Pete Johlle, Jennifer Sperry

PRODUCTION AND DISTRIBUTION STAFF

Production and Distribution Division: Mary C. Steermann (director), Bonnie Van Clevon (manager, budgets and costs), Vanessa Hayden (director, advertising and production), Linda Knott (director, electronic production), Mary Ellen Johnston (electronic coordinator), Melanie Parenti (database assistant)

Managers: Susan Price (print production), Teresa Omiotek (proofreading), Carole Piszker (advertising), Charl Richey-Davis (color and graphics), Sandra Lopez (composition & pagination)

Proofreaders: David Antos, Daniel James, Mary Kay Tinereila
Production Associates and Operators: Karan Adams-Taylor, Gail Barrett, Karen Branham, Debbie Camp, Brenda Chandler-Haynes, Michael L. Culbert, Betty Frigerio, Mary Ann Kuranda, Sarah Powell, Jeni Reiling, Christine M. Wagenknecht, JoAnne Weiskopf, Alicja Wojcik

Production Assistants: Ruth Sprague, Jo Anne Turner

CIRCULATION AND MARKETING STAFF

Circulation Processing: Beverly Martin (director)

Circulation Development: Ann Westerbeke (director)

Licensing and Permissions: Norman Frankel (director), Kathy Gaydar (indexing), Ada Jimenez-Walker (permissions)

Reprint Coordinator: Joseph Reakash

AMA Officers

President: Daniel H. Johnson, Jr, MD*

President-Elect: Percy Woolton, MD*

Immediate Past President: Lonnie R. Bristow, MD

Secretary-Treasurer: Randolph D. Smoak, Jr, MD*

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

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

AMA Trustees

Regina M. Benjamin, MD (Young Physician); Yank D. Coble, Jr, MD; Nancy W. Dickey, MD* (Chair); Timothy T. Flaherty, MD*; Palma E. Formica, MD; Michael S. Goldrich, MD (Resident); J. Edward Hill, MD; William E. Jacott, MD; D. Ted Lewers, MD*; William H. Mahood, MD; John C. Nelson, MD; Donald J. Palmisano, MD, JD; Pamela Petersen-Crair (Student); Thomas R. Reardon, MD* (Vice-Chair); Randolph D. Smoak, Jr, MD*

*Executive Committee.

AMA EXECUTIVE STAFF

Executive Vice President: P. John Seward, MD

Deputy Executive Vice President: Kenneth E. Monroe

Group Vice President, Business and Management Services: James F. Rappel

Editor in Chief, Scientific Information and Multimedia:

George D. Lundberg, MD

Vice President, Publishing: Robert L. Kennett

Publisher: Peter J. Murphy

Publisher, New Media: Michael D. Springer

ADVERTISING OFFICES—Eastern: 119 Cherry Hill Road, 3rd Floor, Parsippany, NJ 07054 (Representatives: Alice H. Herman, Stuart H. Williams [201-263-9191]); **Midwest/Farwest:** 515 N State St, Chicago, IL 60610 (Representative: Jeffery J. Bonistalli [312-464-2551]); **Physician Recruitment Advertising:** 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.

MANUSCRIPT SUBMISSION—Send manuscripts to the Editor, George D. Lundberg, MD, JAMA, 515 N State St, Chicago, IL 60610.

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.