

## 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, David H. Mark, MD, MPH, Harriet S. Meyer, MD, Carin M. Olson, MD, Jeanette M. Smith, MD, Jody W. Zylke, MD  
**Consulting Editor:** Robert A. Clark, MD  
**Statistical Editor:** Naomi Vaisrub, PhD  
**Associate Senior Editor:** Annette Flanagin  
**Associate Editors:** Charlene Breedlove, Roxanne K. Young  
**Fishbein Fellow:** Ronna Henry Siegel, MD  
**Medical News & Perspectives:** Marsha F. Goldsmith (editor); Charles Marwick, Andrew Skolnick, Joan Stephenson, PhD, Rebecca Voelker (associate editors)  
**Assistant Editors:** Brian P. Pace, Juliana M. Walker

## 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  
 Michael Berger, MD, Düsseldorf, Germany  
 Robert J. Blendon, ScD, Boston, Mass  
 Marjorie A. Bowman, MD, MPA, Philadelphia, Pa  
 Deborah J. Cook, MD, Hamilton, Ontario, Canada  
 James E. Dalen, MD, Tucson, Ariz  
 Catherine D. DeAngelis, MD, Baltimore, Md  
 Lois DeBaakey, PhD, Houston, Tex  
 Ronald G. Evens, MD, St Louis, Mo  
 Michael E. Johns, MD, Atlanta, Ga  
 Colin I. Johnston, MB,BS, Melbourne, Australia  
 Donald A. B. Lindberg, MD, Bethesda, Md  
 Hervé Maisonneuve, MD, Paris, France  
 Kenneth D. McClatchey, MD, DDS, Maywood, Ill  
 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  
 Reed E. Pyeritz, MD, PhD, Pittsburgh, Pa  
 Uwe E. Reinhardt, PhD, Princeton, NJ  
 Povl Riis, MD, Copenhagen, Denmark  
 William L. Roper, MD, MPH, Chapel Hill, NC  
 Roger N. Rosenberg, MD, Dallas, Tex  
 Masaaki Terada, MD, Tokyo, Japan  
**INTERNATIONAL ADVISORY COMMITTEE**  
 Bassel Atallah, MD, JAMA—Middle East  
 Mauro Bologna, MD, JAMA—Italy  
 Miguel Vigeant Gomes, MD, JAMA—Portugal  
 Yuichiro Goto, 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  
 Maria S. P. da Silva, MD, JAMA—Brazil  
 Miguel Vilardell Tarres, MD, JAMA—Spanish Language  
 Ivan Vidmar, MD, JAMA—Slovenia  
 Jiří Widimský, MUDr, 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 (\$20 per year) is included in and is not deductible from the annual AMA membership dues. The annual subscription rates for nonmembers are \$133 in the United States and US possessions, \$175 in the Americas, and £113 outside the Americas. The rate for nonmember medical students and resident physicians is \$80 in the United States. The annual institution rates are \$193 in the United States, \$242 in the Americas, and £156 outside the Americas. Address all subscription communications to: Subscriber Services Center, American Medical Association, PO Box 10946, Chicago, IL 60610-0946. Phone: (800) 262-2350; Fax: (312) 464-5831; e-mail: [ama-subs@ama-assn.org](mailto:ama-subs@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<sup>®</sup> Registered in the US Patent and Trademark Office.

Copyright<sup>®</sup> 1998 by the

American Medical Association



## Original Contributions

### Folate and Vitamin B<sub>6</sub> From Diet and Supplements in Relation to Risk of Coronary Heart Disease Among Women ..... 359

E. B. Rimm, W. C. Willett, F. B. Hu, L. Sampson, G. A. Colditz, J. E. Manson, C. Hennekens, M. J. Stampfer, Boston, Mass

### Low Dosage and Long Treatment Duration of $\beta$ -Lactam: Risk Factors for Carriage of Penicillin-Resistant *Streptococcus pneumoniae* ..... 365

D. Guillemot, Villejuif, France; C. Carbon, Paris, France; B. Balkau, Villejuif, France; P. Geslin, Créteil, France; H. Lecoeur, Senlis, France; F. Vauzelle-Kervroëdan, Villejuif, France; G. Bouvenot, Marseille, France; E. Eschwège, Villejuif, France

### Health Values of Hospitalized Patients 80 Years or Older ..... 371

J. Thevat, Cincinnati, Ohio; N. V. Dawson, Cleveland, Ohio; A. W. Wu, Baltimore, Md; J. Lynn, Washington, DC; J. R. Soukup, E. F. Cook, Boston, Mass; H. Vidaillet, Marshfield, Wis; R. S. Phillips, Boston, Mass; for the HELP Investigators

## Clinical Investigation

### Cocaine-Induced Cerebral Vasoconstriction Detected in Humans With Magnetic Resonance Angiography ..... 376

M. J. Kaufman, J. M. Levin, M. H. Ross, N. Lange, S. L. Rose, T. J. Kukes, J. H. Mendelson, S. E. Lukas, B. M. Cohen, P. F. Renshaw, Belmont, Mass

## Brief Reports

### Epidemiology of Tension-Type Headache ..... 381

B. S. Schwartz, W. F. Stewart, D. Simon, Baltimore, Md; R. B. Lipton, New York, NY

### Possible Effectiveness of Clarithromycin and Rifabutin for Cryptosporidiosis Chemoprophylaxis in HIV Disease ..... 384

S. D. Holmberg, A. C. Moorman, J. C. Von Bargen, Atlanta, Ga; F. J. Palella, Chicago, Ill; M. O. Loveless, Portland, Ore; D. J. Ward, Washington, DC; T. R. Navin, Atlanta, Ga; for the HIV Outpatient Study (HOPS) Investigators

## Clinical Cardiology

### Prognostic Significance of the Initial Electrocardiogram in Patients With Acute Myocardial Infarction ..... 387

W. R. Hathaway, E. D. Peterson, G. S. Wagner, C. B. Granger, K. M. Zabel, K. S. Pieper, K. A. Clark, L. H. Woodlief, R. M. Califf, Durham, NC; for the GUSTO-I Investigators

## Editorials

### Homocysteine, Folate, Vitamin B<sub>6</sub>, and Cardiovascular Disease ..... 392

K. S. McCully, Providence, RI

### Strategies for Stemming the Tide of Antimicrobial Resistance ..... 394

D. E. Low, Toronto, Ontario, Canada; W. M. Scheld, Charlottesville, Va

## The Cover ..... 340

Yasuo Kuniyoshi, *A Woman* B. P. Pace

## Poetry and Medicine

Chekhov's Doctors: 19. Marfa Petrovna Petchonkin J. Coulehan ..... 340 i

Chekhov's Doctors: 20. Stepan Klotchkov J. Coulehan ..... 340 j

## A Piece of My Mind

Leaders or Lemmings? M. Linzer ..... 341

(Table of Contents continued on next page.)

<b>AMA Archives Journals Abstracts</b> .....	342
<b>JAMA 100 Years Ago</b> .....	342 <i>n</i>
How We Treat Consumptives Today.	
<b>Resident Forum</b> .....	342 <i>u</i>
AMA House of Delegates Adopts Resolutions, Part 1 S. Reid	
<b>Medical News &amp; Perspectives</b> .....	343
New Study Suggests Radiation Often Underused for Palliation . . . Improved Protection for Human Research Subjects . . . <i>Miscellanea Medica</i>	
<b>From the Food and Drug Administration</b> .....	346
Two New Warnings Added to Labeling for Mibefradil . . . FDA Modernization Act of 1997 . . . Health Advisory for Low-Molecular-Weight Heparins and Heparinoids . . . Guidance on Industry-Supported Scientific and Educational Activities	
<b>From the Centers for Disease Control and Prevention</b> .....	347
Update: Isolation of Avian Influenza A(H5N1) Viruses From Humans—Hong Kong, 1997-1998 . . . Rubella Among Crew Members of Commercial Cruise Ships—Florida, 1997 . . . Evaluation of HIV Case Surveillance Through the Use of Non-Name Unique Identifiers— Maryland and Texas, 1994-1996 . . . Approval of Installation of Air Bag On-Off Switches for Certain Motor-Vehicle Owners	
<b>Readers' Guide to JAMA</b> .....	352 <i>j</i>
<b>Letters</b> .....	353
<b>Protecting Adolescents From Harm</b> M. Hojat; M. D. Resnick	
<b>Increasing Incidence of AIDS Among Women</b> W. S. Smith, F. J. Payne; S. Franceschi, L. Dal Maso, D. Serrano, A. Lo Re, C. La Vecchia; P. M. Wortley, P. L. Fleming	
<b>Authors vs Contributors: Accuracy, Accountability, and Responsibility</b> B. Greenfield; J. L. Kaufman; W. J. Hueston, A. G. Mainous III; L. DeBakey, S. DeBakey; D. Rennie, V. Yank, L. Emanuel	
<b>Sertraline for Premenstrual Dysphoric Disorder</b> L. S. Cohen; K. A. Yonkers, U. Halbreich, C. Brown, T. Pearlstein, E. Freeman, J. Endicott, S. Severino, E. Frank	
<b>Index to Advertisers</b> .....	396
<b>Pulse</b> .....	397
Incorporating Art and Creativity Into Medical Practice . . . Creativity and the Arts in Health Care Settings . . . When Healing Is More Than Simply Clowning Around . . . Healing Cast in a New Light: The Therapy of Artistic Creation . . . Forgive Me, I'm Bleeding	
<b>Books, Journals, New Media</b> .....	405
<b>Drugs, Diseases, and Anesthesia</b> . . . <b>Drugs, Diseases, and Anesthesia Software</b> (Stern, ed) Reviewed by W. D. Hetrick	
<b>Children in a Violent Society</b> (Ososky, ed) Reviewed by R. D. Sege	
<b>Gynaecology</b> (Shaw et al, eds) Reviewed by L. McGowan	
<b>Demanding Medical Excellence: Doctors and Accountability in the Information Age</b> (Millenson) Reviewed by S. Satya-Murti	
<b>Campbell's Urology, vols 1-3</b> (Walsh et al, eds) Reviewed by F. Hinman, Jr	
<b>Biodiversity and Human Health</b> (Grifo, Rosenthal, eds) Reviewed by E. D. Kilbourne	
<b>Books, Journals, New Media Received</b>	
<b>Obituary Listing</b> .....	409 <i>a</i>
<b>Classified Advertising and Announcements</b> .....	412 <i>a</i>
<b>JAMA Journal Club Reading Assignments</b> .....	412 <i>i</i>
<b>Reference Directories</b>	
<b>Meetings in the United States</b> . . . <b>International Meetings</b> January 14, 1998 <b>Organizations of Medical Interest</b> July 9, 1997; <b>State Medical Associations and Examinations and Licensure</b> July 23/30, 1997	
<b>JAMA Instructions for Authors</b> .....	See January 7, 1998, p 67.
<b>JAMA Reader's Choice: Continuing Medical Education</b> .....	411

# JAMA<sup>®</sup>

The Journal of the American Medical Association

## SCIENTIFIC INFORMATION AND MULTIMEDIA STAFF

**Medical News and New Media Division:** William M. Silberg (editorial director); Marty Suter (associate editor); Deborah Flapan, Neal Shankman (assistant editors); Marla A. Hall (staff assistant)  
**Editorial Systems and Administration:** Elaine Williams (director), Vee Bailey (electronic input supervisor), Veronica Campos, Lenette Gardner-Gullens (electronic input specialists)

**Administrative Assistant:** Helga Fritz

**Editorial Assistants:** Linda Baker, Patricia Joworski, Gale Saulsberry (group supervisors); Kemberly Evans (letters coordinator); Mary Cannon, Susan Collier, Audrey Forman, Shirley Gogins, Gwenn Gregg, Lisa Hardin, Carmina Landeros, Mary Ann Lilly, Christina Myers, Ethel Pinkston, Raul Serrato, Gloria Tate

**Editorial Processing Division:** Cheryl Iverson (director), Diane L. Cannon (freelance manager), Sandra E. Hazel (freelance coordinator), Paul Frank (electronic editing specialist), Monica Mungle (assistant electronic editing specialist)

**Copy Editing:** Laura King (director); Susan R. Benner, Jane C. Lantz (senior copy editors); Coleen Adamson, Bill Clements, Brande Martin

## PRODUCTION AND DISTRIBUTION STAFF

**Production and Distribution Division:** Vanessa Hayden (director), Bonnie Van Clevon (manager, budgets and costs), Karen Adams-Taylor (director, advertising and production), Linda Knott (director, electronic production), Mary Ellen Johnston (electronic coordinator), Kathy Gaydar (indexer), Melanie Parenti, Vincent Tafuya (database assistants)

**Managers:** Phil Arko (composition and pagination), Teresa Omiotek (proofreading), Carole Piszker (advertising), Susan Price (print production), Charl Richey (color and graphics)

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

**Production Associates and Operators:** Joseph Amft, Gail Barrett, Karen Branham, Debbie Camp, Brenda Chandler-Haynes, La'son J. Diggs, Shannon Eplett, Betty Frigerio, Mari Guizzetti, Ellen Gundersen, Mary Ann Kuranda, Sandra Lopez, Sarah Powell, Jeni Reiling, Chad Sanderson, Mary Ann Schultz, Carmela Ware, JoAnne Weiskopf, Alicja Wojcik-Dunn

**Production Assistants:** Ruth Sprague, Jo Anne Turner

## CIRCULATION AND MARKETING STAFF

**Circulation Processing:** Beverly Martin (director)

**Circulation Development:** Bina Oza (director)

**Licensing and Permissions:** Norman Frankel (director), Ada Jimenez-Walker (permissions)

**Reprint Coordinator:** Joseph Rehash

## AMA Officers

**President:** Percy Wootton, MD\*

**President-Elect:** Nancy W. Dickey, MD\*

**Immediate Past President:** Daniel H. Johnson, Jr, MD

**Secretary-Treasurer:** D. Ted Lewers, MD\*

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

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

## AMA Trustees

Herman I. Abramowitz, MD; Regina M. Benjamin, MD (Young Physician); Yank D. Coble, Jr, MD\*; Timothy T. Flaherty, MD\*; Palma E. Formica, MD; 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\* (Chair); Randolph D. Smock, Jr, MD\* (Vice Chair); Andrew M. Thomas, MD (Resident)

\*Executive Committee.

## AMA EXECUTIVE STAFF

**Chief Operating Officer & Interim Executive Vice President:**

Lynn Jensen, PhD

**Editor in Chief, Scientific Information and Multimedia:**

George D. Lundberg, MD

**Vice President, Publishing:** Robert L. Kennett

**Publisher:** Peter J. Murphy

**Director of Advertising Sales:** Stuart H. Williams

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