

**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 Whetzel

**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, Philadelphia, Pa  
Deborah J. Cook, MD, Hamilton, Ontario, Canada  
James E. Dalen, MD, Tucson, Ariz  
Catherine D. DeAngelis, MD, Baltimore, Md  
Lois DeBakey, PhD, Houston, Tex  
Ronald G. Evens, MD, St Louis, Mo  
William H. Foege, MD, Atlanta, Ga  
Michael E. Johns, MD, Atlanta, Ga  
Colin 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. Stelter, 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  
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  
Maria S. P. da Silva, MD, JAMA—Brazil  
Miguel Vilardell Tarres, MD, JAMA—Spanish Language  
Ivan Vidmar, MD, JAMA—Slovenia  
Jiri Widimsky, 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 (\$20 per year) is included in and is not deductible from the annual AMA membership dues. The annual subscription rates for nonmembers are \$130 in the United States and US possessions, \$170 in the Americas, and £113 outside the Americas. The rate for nonmember medical students and resident physicians is \$87.50 in the United States. The annual institution rates are \$175 in the United States, \$220 in the Americas, and £152 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-sub@ama-assn.org](mailto: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 © 1997 by the American Medical Association



**Original Contributions**

**Administration of Methylprednisolone for 24 or 48 Hours or Tirilazad Mesylate for 48 Hours in the Treatment of Acute Spinal Cord Injury: Results of the Third National Acute Spinal Cord Injury Randomized Controlled Trial** ..... 1597

M. B. Bracken, M. J. Shepard, T. R. Holford, L. Leo-Summers, E. F. Aldrich, M. Fazl, M. Fehlings, D. L. Herr, P. W. Hitchon, L. F. Marshall, R. P. Nockels, V. Pascale, P. L. Perot, Jr, J. Piepmeier, V. K. H. Sonntag, F. Wagner, J. E. Wilberger, H. R. Winn, W. Young; for the National Acute Spinal Cord Injury Study

**Effectiveness of a Violence Prevention Curriculum Among Children in Elementary School: A Randomized Controlled Trial** ..... 1605

D. C. Grossman, H. J. Neckerman, T. D. Koepsell, P.-Y. Liu, K. N. Asher, K. Beland, K. Frey, F. P. Rivara, Seattle, Wash

**Characteristics of Women With and Without Breast Augmentation** ..... 1612

L. S. Cook, J. R. Daling, L. F. Voigt, M. P. deHart, K. E. Malone, Seattle, Wash; J. L. Stanford, Salt Lake City, Utah; N. S. Weiss, Seattle, Wash; L. A. Brinton, Bethesda, Md; M. D. Gammon, New York, NY; D. Brogan, Atlanta, Ga

**Depressive Symptoms and the Cost of Health Services in HMO Patients Aged 65 Years and Older: A 4-Year Prospective Study** ..... 1618

J. Unützer, D. L. Patrick, G. Simon, D. Grembowski, E. Walker, C. Rutter, W. Katon, Seattle, Wash

**Review**

**Effects of Oral Potassium on Blood Pressure: Meta-analysis of Randomized Controlled Clinical Trials** ..... 1624

P. K. Whelton, J. He, Baltimore, Md; J. A. Cutler, Bethesda, Md; F. L. Brancati, L. J. Appel, Baltimore, Md; D. Follmann, Bethesda, Md; M. J. Klag, Baltimore, Md

**Clinical Crossroads**

**An 88-Year-Old Woman Facing the End of Life** ..... 1633

J. Lynn, Washington, DC

**A 64-Year-Old Man With Adult-Onset Diabetes, 1 Year Later** ..... 1640

T. L. Delbanco, J. Daley, E. E. Hartman, Boston, Mass

**Editorials**

**Applying Science to Violence Prevention** ..... 1641

M. L. Rosenberg, K. E. Powell, R. Hammond, Atlanta, Ga

**More Breast Implant Prose and Cons: Contractures and Confounding: The Controversy Continues** ..... 1643

D. J. del Junco, Houston, Tex

**The Cover** ..... 1578

Pablo Picasso, *Woman With a Crow* K. Whetzel

**Poetry and Medicine** ..... 1578 c

The Green Gable Restaurant and Playhouse J. L. Wright

**Abstracts** ..... 1578 f

**Readers' Guide to JAMA** ..... 1578 p

## Medical News & Perspectives ..... 1579

Medicine and Public Health Join Forces . . . Prostate Cancer's Complexities of Causation, Detection, and Treatment Challenge Researchers . . . President Limits Secret Experiments on Humans . . .  
Miscellanea Medica

## Quick Uptakes . . . ..... 1584

Effective Helmet Law . . . Depressing Statistic . . . Menopause Magazine . . . New Clinical Journal . . . Trying Out New Guidelines . . . Heart Disease Prevention

## From the Centers for Disease Control and Prevention ..... 1585

Surveillance for Penicillin-Nonsusceptible *Streptococcus pneumoniae*—New York City, 1995 . . .  
Tobacco Tax Initiative—Oregon, 1996 . . . Urban Community Intervention to Prevent  
Halloween Arson—Detroit, Michigan, 1985-1996

## JAMA Instructions for Authors ..... 1588 e

## A Piece of My Mind ..... 1589

For Everything a Blessing K. M. Prager

## JAMA 100 Years Ago ..... 1590

Cystitis in Women.

## Letters ..... 1591

**Usefulness of Oral Mucosal Transudate for HIV Antibody Testing** K. Ryder; L. F. Tessler,  
J. M. E. Walsh; A. P. Frank; P. Martinez, R. Ortiz de Lejarazu, J. M. Eiros, A. Rodriguez-Torres;  
J. H. Fitchen, J. R. George, A. S. Goldstein

**Prognostic Implications of Elevated Creatine Kinase After Coronary Angioplasty** C. G. Densem;  
J. A. Herschfus; T. Q. Kong, Jr, C. J. Davidson

**The Rational Clinical Examination: Detecting Abnormal Systolic Murmurs** K. M. Fosnocht; Y. Ali;  
E. Etchells

**More on Dietary Sodium and Blood Pressure** J. Stamler, W. B. Applegate, J. D. Cohen, J. A. Cutler,  
P. K. Whelton; A. G. Logan, C. M. T. Greenwood, A. G. Matthew, J. P. Midgley

**A National Strategy for Research in Chronic Obstructive Pulmonary Disease** T. F. Murphy,  
S. Sethi; G. Weinmann

## Resident Forum ..... 1644 b

**Practical Suggestions for Physicians Completing Medical Training  
and Entering Practice, Part 1** P. Tsang, S. S. H. Wu

## Policy Perspectives ..... 1645

Arizona Overwhelmingly Adopts Health Care Initiative A. W. Nichols

## Books, Journals, New Media ..... 1649

**The Public Health Consequences of Disasters** (Noji, ed) Reviewed by J. N. Logue

**The Panorama of Vesalius: A 'Lost' Design From Titian's Studio** (Cavanagh)  
Reviewed by J. E. Skandalakis

**Design Paradigms: Case Histories of Error and Judgment in Engineering** (Petroski)  
Reviewed by D. K. Oxley

**Smoke and Mirrors: The Canadian Tobacco War** (Cunningham) Reviewed by R. N. Proctor

Books, Journals, New Media Received

## Obituary Listing ..... 1654 a

## Physician Recruitment Advertising and Announcements ..... 1654 o

## Index to Advertisers ..... 1654 z

## JAMA Journal Club Reading Assignments ..... 1654 z

## Reference Directories

**Organizations of Medical Interest** January 15, 1997;  
**State Medical Associations and Examinations and Licensure** January 22/29, 1997;  
**I. Meetings in the United States . . . II. International Meetings** April 9, 1997

# JAMA<sup>®</sup>

The Journal of the American Medical Association

### SCIENTIFIC INFORMATION AND MULTIMEDIA STAFF

**New Media:** William M. Silberg (editorial director), Marty Sufer (associate editor), Marla A. Hall (staff assistant)

**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, Lenette Gardner, Shirley Gogins, Gwenn Gregg, Lisa Hardin, Sharon Iverson, Mary Ann Lilly, Christina Myers, Ethel Pinkston, Raul Serrato, Gloria Tate

**Editorial Processing Division:** Cheryl Iverson (director), Diane L. Cannon (freelance manager), Pete Jothie (assistant freelance coordinator), Paul Frank (senior copy editor/Alex specialist)

**Copy Editors:** Jane C. Lantz (director), Susan R. Benner (senior copy editor), Fiona M. Bruce, Bill Clements, Deborah Flapan, Susan Goeks

### PRODUCTION AND DISTRIBUTION STAFF

**Production and Distribution Division:** Mary C. Steermann (director), Bonnie Van Cleven (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 Ormick (proofreading), Carole Piszker (advertising), Charl Richey (color and graphics)  
**Proofreaders:** David Antos, Daniel James, Martha Kerr, Mary Kay Tinerella

**Production Associates and Operators:** Karen Adams-Taylor, Joseph Amft, Gail Barrett, Karen Branham, Debbie Camp, Brenda Chandler-Haynes, La'son J. Diggs, Betty Frigerio, Mari Guizzetti, Ellen Gundersen, Mary Ann Kuranda, Sandra Lopez, Sarah Powell, Jeni Reiling, 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:** Ann Westerbeke (director)

**Licensing and Permissions:** Norman Frankel (director),

Kathy Gaydar (indexing), Ada Jimenez-Walker (permissions)

**Reprint Coordinator:** Joseph Rekasch

### AMA Officers

**President:** Daniel H. Johnson, Jr, MD\*

**President-Elect:** Percy Wootton, 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. Knots, 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

**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.