

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, David S. Cooper, MD, Harriet S. Meyer, MD, Carin M. Olson, MD, Jeanette M. Smith, MD, Jody W. Zylke, MD
Consulting Editor: Roger C. Bone, MD
Statistical Editor: Naomi Vaisrub, PhD
Associate Senior Editor: Annette Flanagan
Associate Editors: Charlene Breedlove, Roxanne K. Young
Fishbein Fellow: Bonnie I. Chi-Lum, MD
Medical News and Humanities: Phil Gunby (director)
Medical News & Perspectives: Marsha F. Goldsmith (editor); Charles Marwick, Andrew Skolnick, Rebecca Voelker (associate editors)

National Correspondent: Dennis L. Breo
Assistant Editors: Helga Fritz, Kate Whetzle

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
 R. Gordon Douglas, Jr, MD, New York, NY
 Ronald G. Evers, MD, St Louis, Mo
 William H. Foegen, MD, Atlanta, Ga
 Michael E. Johns, MD, Baltimore, Md
 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
 Claude H. Organ, Jr, MD, Oakland, Calif
 Edmund D. Pellegrino, MD, Washington, DC
 David Keith Peters, MB ChB, Cambridge, United Kingdom
 Uwe E. Reinhardt, PhD, Princeton, NJ
 Povl Riis, MD, Copenhagen, Denmark
 Wolf-J. Stetter, MD, Frankfurt, Germany
 Baruch Ticho, MD, PhD, Canton, Mass

INTERNATIONAL ADVISORY COMMITTEE

Bessel Atallah, MD, JAMA—Middle East
 Demetre I. Athanassiadis, MD, JAMA—Greece
 Mauro Bologna, MD, JAMA—Italy
 Michèle Dekker, MD, JAMA—France
 Miguel Vigeant Gomes, MD, JAMA—Portugal
 Yuichiro Goto, MD, JAMA—Japan
 Zhang Hongkai, MD, JAMA—China
 Ragini Jain, MD, JAMA—India
 Evin Kantemir, MD, JAMA—Turkey
 A. J. Khan, SI, FRCP, JAMA—Pakistan
 C. R. Kumana, MBBS, JAMA—Southeast Asia
 Yong Kak Lee, MD, JAMA—Korea
 Tanla L. R. Martinez, MD, JAMA—Brazil
 Miguel Vilardell Tarres, MD, JAMA—Spanish Language
 Ivan Vidmar, MD, JAMA—Slovenia
 Jifi Widimský, MD, DrSc, JAMA—Czech/Slovak

JAMA, The Journal of the American Medical Association (ISSN 0098-7484), is published four issues per month by the American Medical Association, 515 N State St, Chicago, IL 60610. Phone: (312) 464-5000. Cable address "Medic" Chicago.

SUBSCRIPTION RATES—The subscription rate per year is \$20, which is included in the annual AMA membership dues. Nonmembers are charged a higher than basic rate of \$120 for 1 year, \$240 for 2 years in the United States; in the Americas, 1 year, \$160; 2 years, \$320; the rest of the world, 1 year, \$110, 2 years, \$220. Institution rates are \$140 for 1 year, \$280 for 2 years in the United States; in the Americas, 1 year, \$200, 2 years, \$400; the rest of the world, 1 year, \$138, 2 years, \$276. Nonmember medical students and residents are also charged a higher than basic rate of \$60.00 for 1 year in the United States. Rates for subscriptions for delivery to Japan are available through our agent. Address all subscription communications to: Subscriber Services, AMA, PO Box 10945, Chicago, IL 60610. Phone: (800) 262-2350. Fax: (312) 464-5831.

CHANGE OF ADDRESS—POSTMASTER, send all address changes to: Subscription Department, PO Box 10945, 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. Second-class postage paid at Chicago and additional mailing office. GST Registration Number: R 126 225 556.

JAMA® Registered in the US Patent and Trademark Office.
 Copyright© 1995 by the
 American Medical Association



Original Contributions

Determinants in Canadian Health Care Workers

of the Decision to Withdraw Life Support From the Critically Ill 703

D. J. Cook, G. H. Guyatt, R. Jaeschke, J. Reeve, Hamilton, Ontario, Canada;
 A. Spanier, Montreal, Quebec, Canada; D. King, D. W. Molloy, A. Willan,
 D. L. Streiner, Hamilton, Ontario, Canada;
 for the Canadian Critical Care Trials Group

Birth Weight and Perinatal Mortality:

A Comparison of the United States and Norway 709

A. Wilcox, Research Triangle Park, NC; R. Skjaerven, Bergen, Norway;
 P. Buekens, Brussels, Belgium; J. Kiely, Hyattsville, Md

Foot Infections in Diabetic Patients:

Decision and Cost-effectiveness Analyses 712

M. H. Eckman, S. Greenfield, W. C. Mackey, J. B. Wong, S. Kaplan,
 L. Sullivan, K. Dukes, S. G. Pauker, Boston, Mass

Brief Report

Probing to Bone in Infected Pedal Ulcers: A Clinical Sign

of Underlying Osteomyelitis in Diabetic Patients 721

M. L. Grayson, G. W. Gibbons, K. Balogh, E. Levin, A. W. Karchner, Boston, Mass

Special Communication

Language Barriers in Medicine in the United States 724

S. Woloshin, White River Junction, Vt; N. A. Bickell, New York, NY;
 L. M. Schwartz, White River Junction, Vt; F. Gary, New York, NY;
 H. G. Welch, White River Junction, Vt

Review

Helicobacter pylori, Gastroduodenal Disease, and Recurrent Abdominal Pain in Children 729

C. Macarthur, N. Saunders, W. Feldman, Toronto, Ontario, Canada

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

Human T-Cell Lymphotropic Virus Type I-Associated Adult T-Cell Leukemia: The Joseph Goldberger

Clinical Investigator Lecture 735

T. A. Waldmann, Bethesda, Md

Editorials

Withdrawing Life Support: How Is the Decision Made? 738

T. A. Raffin, Stanford, Calif

The Continuing Challenge of Preterm Delivery 739

M. M. Adams, Atlanta, Ga

Poetry and Medicine 680 /

Alligator S. Minar

Resident Forum 680 m

How Physicians Can Become Better Public Speakers: Part 1

AMA Specialty Journal Abstracts 682 b

The Cover 684

Luis Meléndez, *Still Life With Oranges, Jars, and Boxes of Sweets* M. T. Southgate

A Piece of My Mind 686

Cristina P. Hansen

(Table of Contents continued on next page.)

Medical News & Perspectives 687

Research in Emergency Circumstances . . . First Annual Medical Alliance Month Starts Today . . . Why Has 'Historic' Public Disclosure of Hospital Performance Data Attracted So Little Attention? . . . Miscellaneous Medica

From the Joint Commission on Accreditation of Healthcare Organizations 691

A New Tool—Request for Indicators

From the Centers for Disease Control and Prevention 692

Update: Acquired Immunodeficiency Syndrome—United States, 1994 . . . Recommended Childhood Immunization Schedule—United States, January 1995 . . . Monthly Immunization Table . . . Occupational Silicosis—Ohio, 1989-1994

JAMA 100 Years Ago 696

The Regulation of Doctors' Fees.

Letters 697

The Appropriateness of Tympanostomy Tubes for Children C. D. Bluestone, J. O. Klein, E. I. Canteikin, S. T. Dana, S. K. Dankle, T. M. Davidson, G. A. Gates, D. Grossman, K. M. Grundfast, G. B. Healy, J. L. Pulec, L. Witt, L. C. Kleinman, J. Kosecoff, R. W. Dubois, R. H. Brook

Mammographic Screening in Women Younger Than 50 Years D. B. Kopans, D. L. Davis, S. M. Love
Ethnicity, Sex, and the NBME Part I Examination J. M. Bestler, J. J. Norcini

Correction 702

Incorrect Key in Figure Control of Food Intake in Older Men—S. B. Roberts, P. Fuss, M. B. Heyman, W. J. Evans, R. Tsay, H. Rasmussen, M. Fiatarone, J. Cortiella, G. E. Dallal, V. R. Young

Reference Directories

Meetings in the United States 742

AMA Officials, October 5, 1994; Organizations of Medical Interest, January 11, 1995; State Medical Associations and Examinations and Licensure, January 18, 1995; Meetings Outside the United States, February 1, 1995

Obituary Listing 744 a

Pulse 745

A History of *Pneumocystis carinii* . . . More Spotlights on Student Clinics . . . Poetry and Medicine

Books, Journals, Software 752

The Monkey Wars (Blum) Reviewed by M. T. McGuire
Genetics and Medicine in the United States, 1800-1922 (Rushton) Reviewed by E. F. Nation
Health Care Ethics: Critical Issues (Monagle, Thomasma, eds) Reviewed by J. M. Clark
The Parathyroids: Basic and Clinical Concepts (Bilezikian, ed) Reviewed by A. N. Vaswani
Academic Emergency Medicine (Hedges, ed) Reviewed by K. J. Little, D. T. Richards
Emergency Radiology: A Journal of Practical Imaging (Keats, ed) Reviewed by E. Pantoja, J. M. Wehmeyer
MIM-CD, Mendelian Inheritance in Man, Version 3.1 (Aries Systems Corp) Reviewed by G. F. Pratt
Books Received

Physician Recruitment Advertising 756 g

JAMA Journal Club Reading Assignments 756 p

Index to Advertisers 756 p

JAMA Instructions for Authors See January 4, 1995, p 27.



The Journal of the American Medical Association

SCIENTIFIC PUBLICATIONS STAFF

Editorial Systems and Administration: Elaine Williams (director), Mary C. Willbom (administrative assistant), Vee Bailey (electronic input specialist)

Editorial Assistants: Patricia Joworski, Gale Saulsbury (group supervisors); Kemberly Evans (letters coordinator); Linda Baker, Mary Cannon, Lenette Gardner, Shirley Gogins, Gwenn Gregg, Lisa Hardin, Sharon Iverson, Mary Ann Lilly, Brian P. Pace, Ethel Pinkston, Dorothy White

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

Copy Editors: Jane C. Lantz (director); Susan R. Benner, Jennifer Sperry, Marty Suter (senior copy editors); Pete Johlke, Laura King

PUBLISHING OPERATIONS STAFF

Publishing Operations Division: Nawin Gupta, PhD (director), Mary Steermann (assistant director), Bonnie Van Cleven (manager, budgets and costs), Vanessa Hayden (director, advertising and production), Jaye Matthews (director, electronic production), Mary Ellen Johnston (electronic coordinator), George Kruto (indexing associate), Peter Watkins (database assistant)
Managers: Susan Price (print production), Linda Knott (composition and pagination), Teresa Omiotek (proofreading), Carole Piszker (advertising), Charl Richey-Davis (color and graphics)

Proofreaders: David Antos, Brenda J. Gregoline, Daniel James, Mary Kay Tinerella

Production Associates and Operators: Karen Adams-Taylor, Valerie Balkcom, Gail Barrett, Karen Branham, Brenda Chandler-Haynes, Michael L. Culbert, Betty Frigerio, Anita Jackson, Mary Ann Kuranda, Sandra Lopez, Debbie Pogorzelski, Sarah Powell, Jennifer Reiling, Regina Vander Heyden, Christine M. Wagenknecht, JoAnne Weiskopf, E. Ruth White, Alicja Wojcik

Production Assistants: Melanie Parenti, Jo Anne Turner

Circulation Processing: Beverly Martin (director)

Circulation Development: Ann Westerbeke (director)

Licensing and Permissions: Norman Frankel (director), Laslo Hunyady (permissions)

Reprint Coordinator: Joseph Reakash

AMA Officers

President: Robert E. McAfee, MD*
President-Elect: Lonnie R. Bristow, MD*
Immediate Past President: Joseph T. Painter, MD
Secretary-Treasurer: Thomas R. Reardon, MD*
Speaker, House of Delegates: Daniel H. Johnson, Jr, MD
Vice-Speaker, House of Delegates: Richard F. Corin, MD

AMA Trustees

Yank D. Coble, Jr, MD; Nancy W. Dickey, MD* (Vice-Chair); Timothy T. Flaherty, MD; Palma E. Formica, MD; Michael S. Goldrich, MD (Resident); William E. Jacott, MD; Donald T. Lewers, MD; John C. Nelson, MD; Thomas R. Reardon, MD* (Secretary); P. John Seward, MD* (Chair); Randolph D. Smoak, Jr, MD*; Michael Suk (Student); Frank B. Walker, MD*; Percy Wootton, MD

*Executive Committee.

AMA EXECUTIVE STAFF

Executive Vice President: James S. Todd, MD
Deputy Executive Vice President: Kenneth E. Monroe
Group Vice President, Business and Management Services: James F. Rappel
President, Publishing and Multimedia Development: Larry E. Joyce
Editor-in-Chief, Scientific Publications: George D. Lundberg, MD
Vice President, Publishing: Robert L. Kennett
Publisher: Peter J. Murphy

ADVERTISING OFFICES—Eastern: 600 Third Ave, Suite 3700, New York, NY 10016 (Representatives: Alice Harvey-Herman, Cliff Vanderhoof, Stuart H. Williams [212-867-6640]); **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.