

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. Zyke, MD

Consulting Editors: Roger C. Bone, MD, Robert A. Clark, MD
Statistical Editor: Naomi Vaisrub, PhD

Associate Senior Editor: Annette Flanagan

Associate Editors: Charlene Bredelove, 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 Voaliker (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, Winston-Salem, NC

James E. Dalen, MD, Tucson, Ariz

Catherine D. DeAngelis, MD, Baltimore, Md

Lola DeBakey, PhD, Houston, Tex

R. Gordon Douglas, Jr, MD, New York, NY

Ronald G. Evens, MD, St Louis, Mo

William H. Foegen, MD, Atlanta, Ga

Michael E. Johns, MD, Baltimore, Md

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. Steiler, MD, Frankfurt, Germany

Masaaki Terada, MD, Tokyo, Japan

INTERNATIONAL ADVISORY COMMITTEE

Bassel Atallah, MD, JAMA—Middle East

Demetre I. Athanasiadis, MD, JAMA—Greece

Mauro Bologna, MD, JAMA—Italy

Miguel Viçent 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

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

Jiří Widimský, 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 \$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-subs@web.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

Effects of Selenium Supplementation for Cancer Prevention in Patients With Carcinoma of the Skin:

A Randomized Controlled Trial 1957

L. C. Clark, Tucson, Ariz; G. F. Combs, Jr, B. W. Turnbull, E. H. Slate, Ithaca, NY; D. K. Chalker, Macon, Ga; J. Chow, Columbia, SC; L. S. Davis, Augusta, Ga; R. A. Glover, G. F. Graham, Wilson, NC; E. G. Gross, Farmington, Conn; A. Krongrad, Miami, Fla; J. L. Leshner, Jr, Augusta, Ga; H. K. Park, Greenville, NC; B. B. Sanders, Jr, Macon, Ga; C. L. Smith, Greenville, NC; J. R. Taylor, Miami, Fla; for the Nutritional Prevention of Cancer Study Group

Screening for Problem Drinking

In Older Primary Care Patients 1964

W. L. Adams, Milwaukee, Wis; K. L. Barry, M. F. Fleming, Madison, Wis

Effectiveness of Bicycle Helmets in Preventing Head Injuries:

A Case-Control Study 1968

D. C. Thompson, F. P. Rivara, R. S. Thompson, Seattle, Wash

Brief Report

Effectiveness of Bicycle Safety Helmets

In Preventing Serious Facial Injury 1974

D. C. Thompson, M. E. Nunn, R. S. Thompson, F. P. Rivara, Seattle, Wash

Special Communication

Controversies in Prostate Cancer Screening:

Analogies to the Early Lung Cancer Screening Debate 1976

M. M. Collins, M. J. Barry, Boston, Mass

Toward Optimal Laboratory Use

Misdiagnosis of Multidrug-Resistant Tuberculosis

Possibly Due to Laboratory-Related Errors 1980

A. T. Nitta, P. T. Davidson, M. L. de Koning, R. J. Kilman, Los Angeles, Calif

Editorials

Selenium and Cancer Prevention:

Promising Results Indicate Further Trials Required 1984

G. A. Colditz, Boston, Mass

Swapping Health Care Systems:

Whose Grass Is Really Greener? 1986

C. I. Johnston, M. Standford, Heidelberg, Victoria, Australia

The Cover 1927

Horace Phippen, *Christmas Morning, Breakfast* M. T. Southgate

Poetry and Medicine 1928

Old Man in Bedclothes J. LeVasseur

Abstracts 1929

A Piece of My Mind 1931

Maumee: My Walden Pond R. C. Bone

JAMA 100 Years Ago 1932

The Slowness With Which Important Medical Discoveries Are Generally Put to Practical Use.

(Table of Contents continued on next page.)

... In Perspective 1933

The Effect of Medical Conservatism on the Acceptance of Important Medical Discoveries R. L. Martensen

Medical News & Perspectives 1935

Cyberconference Helps Archivists Manage Trove of Scientific Papers ... Public Health Advocates Target Children's Health ... Apgar Quartet Plays Perinatologist's Instruments ... Miscellanea Medica

Quick Uptakes ... 1941

Designated Diagnosticians ... Don't Fall for Winter Dangers ... Autopsy Network Proposed ... The Flip Side of AIDS Decline ... Importing Tropical Illnesses ... Team Improves Wound Outcomes

From the Centers for Disease Control and Prevention 1942

Deaths From Motor-Vehicle-Related Unintentional Carbon Monoxide Poisoning—Colorado, 1996, New Mexico, 1980-1995, and United States, 1979-1992 ... Update: Mass Vaccination With Oral Poliovirus Vaccine—Asia and Europe, 1996

Letter From Australia 1944

The Australian Health Care System: Are the Incentives Down Under Right Side Up? J. W. Peabody, S. R. Bickel, J. S. Lawson

Letters 1951

Health of the Public: The Private-Sector Challenge S. Woloshin, L. Schwartz; L. B. Lehman; J. Showstack, N. Lurie, S. Leatherman, E. Fisher, T. Inui

The Elderly and Poor in the Medical Outcomes Study P. H. Barrett, P. Juhn; J. R. Grana, C. C. Diamond, N. A. Hanchak; J. E. Ware, Jr, M. S. Bayliss, W. H. Rogers, M. Kosinski, A. R. Tarlov

Primary Immunodeficiency Disease Presenting in Midlife S. J. Kornfeld, R. N. Haire, G. W. Litman

Challenges for Junior Faculty: Mentoring and Family J. M. Williams; L. P. Fried, C. A. Francomano, S. M. MacDonald, E. M. Wagner, W. B. Bias, E. J. Stokes, M. M. Newman, J. D. Stobo

Patient Compliance and Drug Failure in Protease Inhibitor Monotherapy G. F. Vanhove, J. M. Schapiro, M. A. Winters, T. C. Merigan, T. F. Blaschke

Should Directly Observed Therapy Be Considered for Treatment of HIV? W. C. Woodward

Correction 1956

Incorrect Quotation *Penicillium marsefiei* Part of Southeast Asian AIDS

Books, Journals, New Media 1990

Im/partial Science: Gender Ideology in Molecular Biology (Spanier) Reviewed by L. M. Purdy, E. R. Radwanski

Why Michael Couldn't Hit and Other Tales of the Neurology of Sports (Klawans) Reviewed by T. Riley

Comprehensive Human Physiology: From Cellular Mechanisms to Integration (Greger, Windhorst, eds) Reviewed by P. G. Iatridis

AIDS in Post-Communist Russia and Its Successor States (Williams) Reviewed by S. Berkley

Walter and Israel General Pathology (Walter et al) Reviewed by A. B. Morrison

Received

Obituary Listing 1995

Index to Volume 276 1996

Physician Recruitment Advertising and Announcements 2054 a

Index to Advertisers 2054 j

JAMA Journal Club Reading Assignments 2054 j

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; AMA Officials October 2, 1996; Meetings in the United States December 4, 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, Lenette Gardner, Shirley Gogins, Gwenn Gregg, Lisa Hardin, Sharon Iverson, Mary Ann Lilly, Ethel Pinkston, Raul Serrato, Gloria Tate

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

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

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 Omiolek (proof-reading), Carole Piszker (advertising), Charl Richey (color and graphics), Sandra Lopez (composition and pagination)

Proofreaders: David Antos, Daniel James, Mary Kay Tinerella

Production Associates and Operators: Karen 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 Jiminez-Walker (permissions)

Reprint Coordinator: Joseph Rekash

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. Knote, 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.