

# JAMA<sup>®</sup>

The Journal of the American Medical Association  
103 Years of Continuous Publication

**Editor:** George D. Lundberg, MD

**Deputy Editor:** M. Therese Southgate, MD

**Senior Editors:** Helene M. Cole, MD, Bruce B. Dan, MD, Don Riesenber, MD

**Senior Contributing Editor:** Drummond Rennie, MD

**Contributing Editors:** John D. Archer, MD, Charles B. Clayman, MD, Lawrence D. Grouse, MD, PhD, Lester S. King, MD, Harriet S. Meyer, MD, Carlotta M. Rinke, MD

**Statistical Editor:** Naomi Vaisrub, PhD

**Medical News—Editor:** Phil Gunby; **Associate Editors:** Marsha F. Goldsmith, Charles Marwick (Washington, DC), Beverly Merz; **Assistant Editor:** Chris Anne Raymond, PhD

**Associate Editor:** Roxanne K. Young

**Assistant Editors:** Charlene Breedlove; Elizabeth Knoff; Letters to the Editor: Sharon Iverson

**Editorial Services Manager:** Martha Carney

**Production Manager:** Marlene M. Hirsch

**Assistant Production Manager:** John R. Sayban

**Editorial Processing Manager:** Cheryl Iverson

**Assistant Editorial Processing Manager:** Paula Gitman

**Permissions and Graphic Design:** Dennis J. Shipley

**Production Supervisors:** Lori A. Barba (Copy Editing), Thomas J. Handrigan (Illustrations), Elizabeth Petrikenas (Proofreading), John R. Sayban (Advertising), Mary C. Steermann (Editorial), Jo Anne Weiskopf (Layout)

**Copy Editing:** Vickey Golden (Free-lance Coordinator), Daniel Halibey, Kathy Loudon, Jennifer Sperry

**Proofreading:** Lisette Sabbach, Barbara Wojtowicz

**Senior Production Assistants:** Karen Branham, Diane Darnell, Jerri Hall-Gortowski, Jill Harvey, Debra Lucas, Terese Noto, Susan Price, Helen Sorrell, Ellen Yoshihara

**Production Assistants:** Darlene E. Filips, Anita Jackson

**Illustrations and Layout:** Donna Hagler, Mary Planek-Vanco, Sandra Williams

**Cover Editor:** M. Therese Southgate, MD

**Editorial Coordinator:** Cathy Watkins

**Editorial Supervisor:** Cassandra Johnson

**Editorial Assistants:** Ann Bartling, Mary Cannon, Michele Knutsen, Mary Ann Lilly, Rosemary Navarro, Annette Nunnally, Ethel Pinkston, Theresa Raines, Gale Turner, Helga Wutz

**Senior Secretary:** Shirley Goins

**Indexing:** Norman Frankel (Supervisor), Hermese Bryant, Mary Kay Tinerella

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.


**JAMA, The Journal of the American Medical Association** (ISSN 0098-7484), is published four issues per month by the American Medical Association, 535 N Dearborn St, Chicago, IL 60610. Phone (312) 645-5000. Cable address "Medic" Chicago.

**SUBSCRIPTION RATES**—The subscription rate per year for members of the AMA is \$2 included in the annual membership dues. The subscription rate per year for nonmembers is \$52 for one year, \$90 for two years in the United States and US possessions; in all other countries, one year, \$68; two years, \$110 (add \$30 surcharge to each one-year subscription and \$60 surcharge to each two-year subscription for air delivery to the United Kingdom and Europe only). Rates to medical students and residents, \$26 for one year, \$45 for two years in the United States and US possessions. Rates for subscriptions for delivery to Australia, Bangladesh, India, Japan, Nepal, New Zealand, South Korea, and Sri Lanka are available through respective exclusive agents. Address all subscription communications to American Medical Association, Circulation and Fulfillment Division, 535 N Dearborn St, Chicago, IL 60610. Phone: (312) 280-7154.

**CHANGE OF ADDRESS**—POSTMASTER, send all address changes to Caryl L. Wertheimer, Director of Fulfillment, 535 N Dearborn St, Chicago, IL 60610. Notification of address change must be made at least six weeks in advance; include both old and new addresses, a recent mailing label, and your new zip code.

Second-class postage paid at Chicago and additional mailing office.

JAMA<sup>®</sup> Registered in the US Patent and Trademark Office.

Copyright © 1986 by the American Medical Association 

September 19, 1986 Vol 256, No. 11

The Journal is a forum for open and responsible discussion of matters relevant to the field of medicine. Its mission is education: to inform its readers of progress in clinical medicine, medical research, and of developments in other fields of interest to physicians.

## The Cover

**Edouard Manet, *Le Bon Bock*** ..... 1428  
M. T. Southgate, MD, Chicago

**Medical News & Perspectives** ..... 1405

**Advances in Understanding of Alcoholism Initiate Evolution in Treatment Programs . . . Fine-tuned and Loaded, Monoclonals Treat Cancer . . . Antidrinkng Campaigns Target Preadolescents From the Alcohol, Drug Abuse, and Mental Health Administration** ..... 1413

**Leads from the MMWR** ..... 1421

**AMA Insights** ..... 1431

**Domestic Abstracts** ..... 1435

## Reference Directories

**US Meetings, Sept 5; Meetings Outside the US, July 25; Organizations of Medical Interest, July 11; State Associations and Exams and Licensure, July 18; AMA Officials, Aug 15**

**Letters** ..... 1442

**Pregnancy and Delivery in Two Women With Ovarian Failure Following Nonsurgical Transfer of In Vivo Fertilized Uterine Ova** L. Formigli, MD, G. Formigli, Pavia, Italy

**Condoms and the Prevention of AIDS** K. Henry, MD, K. Crossley, MD, St Paul; M. A. Conant, MD, San Francisco; G. Y. Minuk, MD; C. E. Bohme; T. J. Bowen, MD; D. I. Hoar, PhD; S. Cassol, PhD, Calgary, Alberta

**Failure of Recommended Treatment for Secondary Syphilis** N. J. Fiumara, MD, Boston; R. C. Reichman, MD, D. M. Markovitz, MD, Rochester, NY

**Rift Valley Fever Caused the Fifth Plague of Egypt and That of 1977** A. Shimshony, DVM, Beit-Dagan, Israel

**Early Use of X-ray Machines and Electrocardiographs at the Pennsylvania Hospital** J. H. Dirckx, MD, Dayton, Ohio; L. R. Kirkland, MD, Atlanta; J. D. Howell, MD, Ann Arbor, Mich

**'Hello, I'm Your New Doctor'** H. Beckman, MD, R. Frankel, PhD, Detroit

**Lack of Health Effects of Long-term Exposure to 2,3,7,8-Tetrachlorodibenzo-p-Dioxin** A. C. Allison, BM, FRCPath, R. A. Lewis, MD, Palo Alto, Calif; R. E. Hoffman, MD, MPH, P. A. Stehr-Green, DrPH, MPH, Atlanta

**Dialysis-Associated Bone Disease** M. Carrici, MD, Pisa, Italy

**The Dukes Classification of Colorectal Cancer** D. P. Sarma, MD, New Orleans

## Original Contributions

**Disulfiram Treatment of Alcoholism** ..... 1449

R. K. Fuller, MD; L. Branche, MD; D. R. Brightwell, MD; R. M. Derman, MD; C. D. Emrick, PhD; F. L. Iber, MD; K. E. James, PhD; R. B. Lacoursiere, MD; K. K. Lee, PhD; I. Lowenstam, MD; I. Maany, MD; D. Neiderhiser, PhD; J. J. Nocks, MD; S. Shaw, MD, Cleveland

**Alcoholism Treatment and Total Health Care Utilization and Costs** ..... 1456

H. D. Holder, PhD, J. O. Blose, MPP, Chapel Hill, NC

**The Potentiating Effects of Alcohol on Driver Injury** ..... 1461

P. F. Waller, PhD; J. R. Stewart, PhD; A. R. Hansen, MD, PhD; J. C. Stutts, MEd; C. L. Popkin, MSPH; E. A. Rodgman, Chapel Hill, NC

1401

## Special Communication

<b>Women and Alcohol</b> .....	1467
S. B. Blume, MD, Amityville, NY	

## Clinical Investigation

<b>Liver Fibrosis in Alcoholics</b> .....	1471
S. Sato, MD; T. Nouchi, MD; T. M. Worner, MD; C. S. Lieber, MD, Bronx, NY	

## State of the Art/Review

<b>Alcohol and Immune Defense</b> .....	1474
R. R. MacGregor, MD, Philadelphia	

## Concepts in Emergency and Critical Care

<b>Management of the Patient With Hemorrhaging Esophageal Varices</b> .....	1480
J. P. Cello, MD; R. A. Crass, MD; J. H. Grendell, MD; D. D. Trunkey, MD, San Francisco	

## Board of Trustees Report

<b>Alcohol: Advertising, Counteradvertising, and Depiction in the Public Media</b> .....	1485
--	------

## Editorial

<b>Disulfiram Will Reduce Medical Complications but Not Cure Alcoholism</b> .....	1489
F. S. Tennant, Jr, MD, DrPH, Los Angeles	

## A Piece of My Mind

<b>Dance</b> .....	1493
D. L. Schiedermayer, MD, Chicago	

<b>Waste</b> .....	1493
G. D. Lundberg, MD, Chicago	

<b>Questions and Answers</b> .....	1496
------------------------------------	------

**Breast Cancer Screening After Augmentation** W. W. Logan, MD, Rochester, NY, S. M. Love, MD, Boston  
**Chronic Conjunctivitis** J. W. Cowden, MD, Detroit

<b>Books</b> .....	1500
--------------------	------

**Alcohol** (Mendelson, Mello) Reviewed by R. E. Herrington, MD, Milwaukee  
**Textbook on Alcoholism and Drug Abuse in the Soviet Union** (Babayan, Gonopolsky) Reviewed by S. Cohen, MD, Los Angeles  
**Diseases of the Liver and Biliary System** (Sherlock) Reviewed by F. L. Iber, MD, Baltimore  
**Woman Abuse** (Okun) Reviewed by C. C. Bell, MD, Chicago  
**Heal Thyself** (Scott, Hawk, eds) Reviewed by R. L. Martin, MD, Kansas City, Kan  
**Software** . . . **The Bloodgas Professor** (Beamsley) Reviewed by R. Feinstein, MD, PhD, St Louis  
**Books Received**

<b>JAMA 100 Years Ago</b> .....	1429
---------------------------------	------

<b>The Exchange</b> .....	1434
---------------------------	------

<b>Osleriana</b> .....	1509
------------------------	------

<b>Obituaries</b> .....	1512
-------------------------	------

<b>Classified Advertising</b> .....	1517
-------------------------------------	------

<b>CME Corner</b> .....	1532
-------------------------	------

<b>Index to Advertisers</b> .....	1532
-----------------------------------	------



The Journal of the American Medical Association

### EDITORIAL BOARD

**Kenneth A. Arndt, MD**, Boston  
**Byron J. Bailey, MD**, Galveston, Tex  
**Arthur E. Baue, MD**, St Louis  
**Donald J. Dalessio, MD**, La Jolla, Calif  
**Cecilia M. Fenoglio, MD**, Albuquerque  
**William H. Foegen, MD**, Atlanta  
**Renee C. Fox, PhD**, Philadelphia  
**Daniel X. Freedman, MD**, Los Angeles  
**Vincent A. Fulginiti, MD**, Tucson  
**Morton F. Goldberg, MD**, Chicago  
**Marilyn Heins, MD**, Tucson  
**Edward C. Hill, MD**, San Francisco  
**James F. Holland, MD**, New York  
**King K. Holmes, MD, PhD**, Seattle  
**Harold G. Jacobson, MD**, Bronx, NY  
**Robert J. Joynt, MD, PhD**, Rochester, NY  
**Richard L. Landau, MD**, Chicago  
**Daniel J. McCarty, MD**, Milwaukee  
**William W. McLendon, MD**, Chapel Hill, NC  
**Arno G. Motulsky, MD**, Seattle  
**Robert E. Rakei, MD**, Houston  
**Domeena C. Renshaw, MD**, Chicago  
**Martha M. Sarasa, MD, PhD**, Charleston, SC  
**Alfred Soffer, MD**, Park Ridge, Ill  
**Robert M. Veatch, PhD**, Washington, DC

### AMA Officers

**President:** John J. Coury, Jr, MD\*  
**President-Elect:** William S. Hotchkiss, MD\*  
**Immediate Past President:** Harrison L. Rogers, Jr, MD  
**Secretary-Treasurer:** George L. Collins, Jr, MD\*  
**Speaker, House of Delegates:** James E. Davis, MD  
**Vice-Speaker, House of Delegates:** John L. Clowe, MD

### AMA Trustees

Stefano Bertozzi (student); Lonnie R. Bristow, MD; Rufus K. Broadaway, MD; George L. Collins, Jr, MD\* (Secretary); Ronald M. Davis, MD (resident); John H. Dawson, MD; Ray W. Gifford, MD; Robert E. McAfee, MD; Alan R. Nelson, MD\* (Chairman); Joseph T. Painter, MD\*; John J. Ring, MD\* (Vice-Chairman); Raymond Scalettar, MD; Jerald R. Schenken, MD\*; C. John Tupper, MD

\* Executive Committee

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

**Executive Vice President:** James H. Sammons, MD  
**Senior Deputy Executive Vice President:** James S. Todd, MD  
**Deputy Executive Vice President:** Whalen M. Strobhar  
**Assistant Executive Vice President:** M. Roy Schwarz, MD  
**Vice President, Scientific Information:** George D. Lundberg, MD  
**Vice President, Publishing and Marketing:** John T. Baker  
**Director, Publication Production and Printing Division:** Norman D. Richey  
**General Sales Manager; Director, Advertising Sales and Promotion Services Division:** D. Joseph Dennehy  
**Director, Circulation-Fulfillment Division:** Lee A. Parent  
**Director, Promotion and Western Sales:** Thomas J. Carroll  
**Director, Advertising Services:** Raymond Christian

**ADVERTISING OFFICES: Eastern:** 600 Third Ave, Suite 700, New York, NY 10016 (**Manager:** Robert C. Corcoran [212-867-6640]; **Representatives:** Bill Tice, Cliff Vanderhoof); **Midwest/Farwest:** 535 N Dearborn St, Chicago, IL 60610 (**Manager:** Thomas J. Carroll [312-280-7182]; **Representative:** Daniel T. Mjoiness); **Classified Advertising:** Delores Boudentt (312-280-7190)

**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.