

**Editor:** William R. Barclay, MD  
**Deputy Editor:** M. Therese Southgate, MD  
**Executive Editor:** Robert W. Mayo  
**Senior Editors:** John D. Archer, MD, Samuel Vaisrub, MD  
**Contributing Editors:** Terrence S. Carden, Jr, MD, Charles B. Clayman, MD, Jeffrey R. M. Kunz, MD  
**Morris Fishbein Fellow:** John P. Callan, MD  
**Medical News—Editor:** Gail McBride; **Senior Associate Editor:** Phil Gunby; **Associate Editors:** William A. Check, Elizabeth Rasche González, Beverly Montgomery, Michelle Preston, John Elliott (Washington, DC); **Secretary:** Holly Ann Babich  
**Administrative Assistant:** Sandra Williamson  
**Production Manager:** Marlene M. Hinsch  
**Assistant Production Manager:** John R. Sayban  
**Editorial Processing Manager:** Diana A. Stokes  
**Assistant Editorial Processing Manager:** Rosanne M. Schulenberg  
**Reprints and Permissions:** Bonnie M. Van Clevon  
**Production Supervisors:** Julia Bero (Layout), Thomas J. Handrigan (Illustrations), Marlene M. Hinsch (Editorial), Lorraine L. Kruse (Proofreading), John R. Sayban (Advertising), Roxanne K. Young (Copy Editing)  
**Copy Editing:** Lori A. Burnette, Elizabeth Crown, Virgil R. Wilson, Jr (Special Projects)  
**Proofreading:** Verna Coffman, Patricia Coyne, Elizabeth Petrikenas, Kay Skvorc, Mary Kay Tinarella  
**Selected Abstracts and International Comments:** Merry Uchida (Editorial Coordinator), Lucille Souci  
**Questions and Answers—Coordinating Editor:** Hilda L. Slive  
**Letters:** Ivana Falajlo (Editorial Coordinator)  
**Senior Production Assistants:** Karen Branham, Shirley Latronica, Marilyn Moroney, Susan Routhier  
**Production Assistants:** E. Linda Fry, J. Denise Henderson, Evita S. Hofmann, June Jones, Lucille Kuznicki, Blossom Manyfield, Maria Saguto  
**Illustrations and Layout:** Mary Barrett, Floriana Hayes, Nancy Keyes, Donna Pender, Jo Anne Weiskopf  
**Editorial Assistants:** Mary Cannon, Rose Garcia, Gayle Ivy, Raiko K. Okada, Shirley Owens, Ethel Pinkston, Viola A. Wade, H. Susan Zukowski  
**Indexing:** Phyllis H. O'Donnell (Supervisor), Jane P. Mauldin, Helen F. Topel

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.

**Group Vice-President, Scientific Publications:** William R. Barclay, MD  
**Director, Scientific Publications Division:** Robert W. Mayo  
**JAMA, THE JOURNAL of the American Medical Association** (ISSN 0002-9955) is published weekly by the American Medical Association, 535 North Dearborn Street, Chicago, IL 60610. Phone 751-6000 (Area Code 312). Cable address "Medic" Chicago.  
**SUBSCRIPTION RATE**—The subscription price per year for members of the AMA is \$2, included in the annual membership dues. The subscription price per year for nonmembers is \$36 for one year, \$60 for two years in the United States and US possessions; \$56 for one year, \$86 for two years in all other countries, payable in advance. Price to medical students, interns, and residents, \$18 for one year, \$30 for two years in the United States and US possessions. Address all subscription communications to Circulation-Fulfillment Department.  
**CHANGE OF ADDRESS:** POSTMASTER, send address changes to Helen R. Mazur, Director, Circulation-Fulfillment. Changes may be made by sending old address (as it appears on your Journal) and new address with zip code number. Instructions should state whether change is temporary or permanent. Allow six weeks for changeover.  
 Second-class postage paid at Chicago and additional mailing office.  
 Copyright © 1979 by the American Medical Association



<b>MEDICAL NEWS</b> .....	1875
<b>What Causes Diabetic Encephalopathy? . . . Bile Acid Measurements in Pediatric Illness . . . Working Women Don't Have More Heart Disease . . . Warm Weather and Legionnaires' Disease Prevention . . . Behavior Research in the Caribbean . . . Miscellanea Medica</b>	
<b>FROM THE NIH</b> .....	1885
<b>JAMA 75 YEARS AGO</b> .....	1925
<b>REFERENCE DIRECTORIES</b>	
<b>Previous Listings: US Meetings, April 6; Foreign Meetings, March 9; Organizations of Medical Interest, April 20; State Associations and Exams and Licensure, March 23; AMA Officials, Feb 9</b>	
<b>INSTRUCTIONS FOR AUTHORS</b> .....	April 27, 1979, p 1785
<b>LETTERS</b> .....	1890
<b>Patients' Confusion From Drug Substitution</b> R. J. Popkin, MD, Los Angeles . . .	
<b>Efficacy of Instant Glucose</b> H. M. Rosenbaum, MD, S. M. Genuth, MD, G. T. Kent, MD, O. P. Schumacher, MD, PhD, R. G. Wieland, MD, Cleveland, A. J. Garber, MD, PhD, Houston . . .	
<b>Cyanide Production From Laetrile in the Presence of Megadoses of Ascorbic Acid</b> R. C. Backer, PhD, South Charleston, Va, V. Herbert, MD, JD, Bronx, NY . . .	
<b>Valproic Acid in Epilepsy</b> S. Livingston, MD, L. L. Pauli, MD, I. Pruce, I. I. Kramer, MD, Baltimore . . .	
<b>Possible Teratogenic Hyperthermia and Marathon Running</b> C. F. Schaefer, PhD, Oklahoma City . . .	
<b>Exercise-Related Hematuria</b> P. L. Hooper, MD, Albuquerque, NM . . .	
<b>Lead Absorption by Children of Battery Workers</b> L. A. O'Tuama, MD, J. F. Rogers, MD, Chapel Hill, NC, W. Rogan, MD, Research Triangle Park, NC . . .	
<b>Drug-Associated Cardiotoxicity</b> A. U. Buzdar, MD, S. S. Legha, MD, G. N. Hortobagyi, MD, G. R. Blumenschein, MD, Houston, R. H. Israel, MD, J. P. Olson, MD, Rochester, NY . . .	
<b>Cancer of the Nail Bed</b> T. S. Ashbell, MD, Chicago	
<b>COMMENTARY</b>	
<b>The Continuing Failure to Understand and Treat Hypertension</b> .....	1897
I. H. Page, MD, Cleveland	
<b>ORIGINAL CONTRIBUTIONS</b>	
<b>Mobile Intensive Care Units</b> .....	1899
M.-A. Sherman, PhD, Evanston, Ill	
<b>Effectiveness of Advanced Paramedics in a Mobile Coronary Care System</b> .....	1902
R. P. Lewis, MD; J. M. Stang, MD; P. K. Fulkerson, MD; K. L. Sampson, BSN; A. Scoles; J. V. Warren, MD, Columbus, Ohio	
<b>Cardiac Resuscitation in the Community</b> .....	1905
M. S. Eisenberg, MD, PhD; L. Bergner, MD, MPH; A. Hallstrom, PhD, Seattle	
<b>Ovarian Cancer</b> .....	1908
S. E. Vogl, MD; E. Greenwald, MD; B. H. Kaplan, MD, PhD; M. Moukhtar, MD; D. Wollner, MD, Bronx, NY	
<b>Proton Radiation as Boost Therapy for Localized Prostatic Carcinoma</b> .....	1912
W. U. Shipley, MD; J. E. Tepper, MD; G. R. Prout, MD; L. J. Verhey, PhD; O. A. Mendiondo, MD; M. Goitein, PhD, Boston; A. M. Koehler, PhD, Cambridge, Mass; H. D. Suit, MD, Boston	
<b>Evidence of Dietary Copper and Zinc Deficiencies</b> .....	1916
L. M. Klevay, MD, SD in Hyg; S. J. Reck, MS, RD; D. F. Barcome, MD, Grand Forks, ND	
<b>SPECIAL COMMUNICATIONS</b>	
<b>Education for Self-treatment by Adult Asthmatics</b> .....	1919
L. A. Maiman, PhD; L. W. Green, DPH; G. Gibson, PhD; E. J. MacKenzie, MSc, Baltimore	
<b>The Congestive Heart Failure Model of Schizophrenia</b> .....	1923
E. A. Burch, Jr, MD; K. T. Burch, Columbia, SC	
<b>BRIEF REPORT</b>	
<b>Magical Thinking and Imipramine Poisoning in Two School-aged Children</b> ..	1926
V. C. Herson, MD; B. D. Schmitt, MD; B. H. Rumack, MD, Denver	

**CONTENTS—Continued**

**CLINICAL NOTES**

**Leukopenia Secondary to Sulfadiazine Silver** ..... 1928  
 G. L. Fraser, Minneapolis, J. T. Beaulieu, MS, Lewiston, Me

**Isolated Rupture of the Right Hemidiaphragm With Eventration of the Liver** ..... 1929  
 N. W. Salomon, MD, C. F. Zukoski, MD, Tucson, Ariz

**EDITORIALS**

**Emergency Medical Services—The Bottom Line** ..... 1931

**Teatime for Thalassemia** ..... 1932

**TOPICS IN RADIOLOGY**

**Bone Resorption of the Distal Clavicle** ..... 1933  
 J. F. Norfray, MD, Chicago

**QUESTIONS AND ANSWERS** ..... 1935

**Pneumococcal Vaccine and Recurrent Otitis Media in Children** F. W. Davison, MD, Danville, Pa . . . **Reconstructive Breast Surgery** R. K. Snyderman, MD, Piscataway, NJ, A. Peck, MD, New York

**BOOKS** ..... 1939

**Psychoanalysis and Psychosomatics** (Ammon) Reviewed by J. P. Callan, MD, Chicago . . . **The Pre-excitation Syndrome** (Sherf, Neufeld) Reviewed by C. Fisch, MD, Indianapolis . . . **Abbreviations in Medicine** (Steen) Reviewed by P. Gunby, Chicago . . . **Books in Brief** . . . **Books Received**

**OBITUARIES** ..... 1942

**SELECTED ABSTRACTS** ..... 1946

**CLASSIFIED ADVERTISING** ..... 1954

**INDEX TO ADVERTISERS** ..... 1968

<b>EDITORIAL BOARD</b>	
<b>Bobby R. Alford, MD</b>	Houston
<b>Arthur E. Baue, MD</b>	New Haven, Conn
<b>Leonard B. Berman, MD</b>	Orange, Calif
<b>Frederick C. Biodi, MD</b>	Iowa City
<b>Kenneth M. Brinkhous, MD</b>	Chapel Hill, NC
<b>William H. Crosby, MD</b>	La Jolla, Calif
<b>Donald J. Dalessio, MD</b>	La Jolla, Calif
<b>George E. Ehrlich, MD</b>	Philadelphia
<b>Benjamin Felson, MD</b>	Cincinnati
<b>Joaquin Ferré, MD</b>	Barcelona, Spain
<b>Gilbert B. Forbes, MD</b>	Rochester, NY
<b>Daniel X. Freedman, MD</b>	Chicago
<b>Emil J. Freireich, MD</b>	Houston
<b>George D. Lundberg, MD</b>	Davis and Sacramento, Calif
<b>Frederick D. Malkinson, MD</b>	Chicago
<b>Howard G. McQuarrie, MD</b>	Salt Lake City
<b>Martin L. Nusynowitz, MD</b>	San Antonio, Tex
<b>Nicholas J. Pisacano, MD</b>	Lexington, Ky
<b>James Ransom, PhD</b>	Los Altos, Calif
<b>J. Graham Smith, Jr, MD</b>	Augusta, Ga
<b>Alfred Soffer, MD</b>	Park Ridge, Ill
<b>Raymond L. Teplitz, MD</b>	Duarte, Calif
<b>Maurice W. Van Allen, MD</b>	Iowa City
<b>Robert M. Veatch, PhD</b>	Hastings-on-Hudson, NY

**The Cover**  
 Rescue personnel load cardiac victim into mobile intensive care ambulance before transport to hospital. This issue of THE JOURNAL includes informative articles on the effectiveness of mobile intensive care unit programs (p 1899), the capabilities of the paramedics in such programs (p 1902), and the need for rapid delivery of such services in emergencies (p 1905). For editorial comment see page 1931. (Photograph © Motorola Inc.)

**AMA Officers**  
 President: Tom E. Nesbitt, MD\*; President-Elect: Hoyt D. Gardner, MD\*; Immediate Past President: John H. Budd, MD; Secretary-Treasurer: Daniel T. Cloud, MD; Speaker, House of Delegates: William Y. Rial, MD; Vice-Speaker, House of Delegates: Harrison L. Rogers, Jr, MD

**AMA Trustees**  
 Robert B. Hunter, MD (Chairman)\*; H. Thomas Ballantine, Jr, MD; Joseph F. Boyle, MD\*; Daniel T. Cloud, MD; Charles Max Cole, MD; John J. Coury, MD; William S. Hotchkiss, MD; Frank J. Jirka, MD\*; George H. Mills, MD; Hubert A. Ritter, MD; George A. Rowland, MD; Lowell H. Steen, MD\*  
 \*Executive Committee

**Executive Vice-President:** James H. Sammons, MD  
**Vice-President, Publishing:** John T. Baker  
**Director, Publication Production Division:** Norman D. Richey  
**Director, Advertising Sales and Promotion Services Division:** Joseph Dennehy  
**Director, Circulation-Fulfillment:** Helen R. Mazur  
**Director, Advertising Communications:** Thomas J. Carroll  
**Director, Advertising Services:** Raymond Christian  
**ADVERTISING OFFICES:** Midwest/Farwest: 535 N Dearborn St, Chicago, IL 60610 (312-751-8675). **General Sales Manager:** Joseph Dennehy; **Midwest Sales Representatives:** James Anton, Alice Harvey, William Healy; **Farwest Sales Representative:** James Anton; **Eastern Office:** 600 Third Ave, Suite 600, New York, NY 10016 (212-867-8840). **Eastern Manager:** Robert C. Corcoran; **Eastern Sales Representatives:** Mark Altier, Bill Tice, Cliff Vanderhoof.

**ADVERTISING PRINCIPLES—**Advertisements in this issue have been reviewed to comply with the principles governing advertising in AMA scientific publications. A copy of these principles is available on request.