

JAMA

The Journal of the American Medical Association



Edward Hopper, *City Sunlight*, 1954, American.

Letters

Cost-effectiveness of Interferon Treatment for Hepatitis C 2083

E. HENLEY, D. J. VAN LEEUWEN;
J. B. WONG, R. S. KOFF, S. G. PAUKER

Epidural Analgesia and Cesarean Delivery

M. HERSHEL, R. MITTENDORF;
E. LIEBERMAN, A. COHEN, F. FRIGOLETTO,
J. LANG; J. M. NICHOLSON; S. HALPERN,
A. OHLSSON

Yoga for Carpal Tunnel Syndrome

H. W. DANIELI; S. E. MACKINNON,
C. B. NOVAK; S. DEITCHMAN, F. GERR;
M. HARRAST, G. KRAFT; M. GARFINKEL,
D. A. ALLAN, H. R. SCHUMACHER, JR

The Realities of Resident Research Requirements

E. MYLONAKIS, P. KOUTKIA;
A. V. NEALE, P. WEST, L. FRENCH

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.

115 Years of
CONTINUOUS
PUBLICATION

June 9, 1999

ORIGINAL CONTRIBUTIONS

Hormone Replacement Therapy and Risk of Breast Cancer With a Favorable Histology: Results of the Iowa Women's Health Study 2091

S. M. GAPSTUR, M. MORROW, T. A. SELLERS

The Unreliability of Individual Physician "Report Cards" for Assessing the Costs and Quality of Care of a Chronic Disease 2098

T. P. HOFER, R. A. HAYWARD, S. GREENFIELD, E. H. WAGNER,
S. H. KAPLAN, W. G. MANNING

A Prospective Study of Coffee Consumption and the Risk of Symptomatic Gallstone Disease in Men 2106

M. F. LEITZMANN, W. C. WILLETT, E. B. RIMM, M. J. STAMPFER,
D. SPIEGELMAN, G. A. COLDITZ, E. GIOVANNUCCI

CLINICAL INVESTIGATION

Impairment of Endothelial Functions by Acute Hyperhomocysteinemia and Reversal by Antioxidant Vitamins 2113

F. NAPPO, N. DE ROSA, R. MARFELLA, D. DE LUCIA, D. INGROSSO,
A. F. PERNA, B. FARZATI, D. GIUGLIANO

CARING FOR THE CRITICALLY ILL PATIENT

Inhaled Budesonide in Addition to Oral Corticosteroids to Prevent Asthma Relapse Following Discharge From the Emergency Department: A Randomized Controlled Trial 2119

B. H. ROWE, G. W. BOTA, L. FABRIS, S. A. THERRIEN, R. A. MILNER, J. JACONO

CONSENSUS STATEMENT

Smallpox as a Biological Weapon: Medical and Public Health Management 2127

D. A. HENDERSON, T. V. INGLESBY, J. G. BARTLETT, M. S. ASCHER, E. EITZEN,
P. B. JAHRLING, J. HAUER, M. LAYTON, J. MCDADE, M. T. OSTERHOLM,
T. O'TOOLE, G. PARKER, T. PERL, P. K. RUSSELL, K. TONAT;
FOR THE WORKING GROUP ON CIVILIAN BIODEFENSE

COMMENTARY

The Need for Global Action Against Multidrug-Resistant Tuberculosis 2138

S. J. HEYMANN, T. F. BREWER, M. E. WILSON, H. V. FINEBERG

EDITORIALS

Hormone Replacement Therapy and Risk of Breast Cancer 2140

T. L. BUSH, M. K. WHITEMAN

Can Physician Profiles Be Trusted? 2142

A. B. BINDMAN

JAMA

Humanities

THE COVER 2067

City Sunlight

M. T. SOUTHGATE

POETRY AND MEDICINE 2068

The Doctor in the Night

M. C. ROSNER

JAMA 100 YEARS AGO 2069

Dietetics

Reader Service

This Week in JAMA 2065

Masthead 2066

The Key and Critical Objectives of JAMA 2066 b

Abstracts 2072 e

Archives Journals Abstracts 2072 l

Corrections 2089

Reference Directories

MEETINGS IN THE UNITED STATES
AND INTERNATIONAL MEETINGS 2151

ORGANIZATIONS OF MEDICAL INTEREST AND
STATE MEDICAL ASSOCIATIONS AND EXAMINATIONS
AND LICENSURE July 22/29, 1998

Obituary Listing 2156 g

Continuing Medical Education JAMA Reader's Choice 2157

Classified Advertising and Announcements 2158 b

Index of Advertisers 2159

Subscription, Business, and Contact Information 2159

JAMA Instructions for Authors

JANUARY 6, 1999

This Week Online

- Tables of contents, abstracts, and full text of selected articles available online.

www.jama.com

CONTEMPO 1999

Buckle Up! Is Not Enough:
Enhancing Protection of the Restrained Child 2070

F. K. WINSTON, D. R. DURBIN

BOOKS, JOURNALS, NEW MEDIA 2145

Psychopathology and Violent Crime (Skodol, ed)

REVIEWED BY J. S. YONGUE

New Treatments for Chemical Addictions (McCance-Katz, Kosten, eds)

REVIEWED BY J. S. YONGUE

Who Shall Live? Health, Economics, and Social Choice (Fuchs)

REVIEWED BY D. HEMENWAY

Pediatric Surgery and Urology: Long Term Outcomes (Stringer et al, eds)

REVIEWED BY R. J. TOULOUKIAN

Becoming Anna: The Autobiography of a Sixteen-Year-Old (Michener)

REVIEWED BY E. J. MIKKELSEN

Books, Journals, New Media Received

RESIDENT PHYSICIAN FORUM

How Medicare Calculates GME Payments, Part 2 2156

JAMA PATIENT PAGE

Asthma 2160

News and Analysis

MEDICAL NEWS & PERSPECTIVES 2073

Improved Stroke Imaging Techniques

New Pharmaceutical Approaches to Stroke Prevention, Treatment

Care Gap "Unconscionable"; Universal Coverage AAP Aim

Miscellanea Medica

THE WORLD IN MEDICINE 2078

Timing Key in Group A Strep

Preemies and Pertussis Vaccine

Dual Disease Burden

Targeting the Root of Dyslexia

MEDICINE IN UNIFORM 2079

Better Bandage for Bleeding

Military Medical Milestones

No Plain Planes Anymore

FROM THE CENTERS FOR DISEASE CONTROL AND PREVENTION 2080

Motor-Vehicle Safety: A 20th Century Public Health Achievement

International Course in Applied Epidemiology

National Dog Bite Prevention Week

JAMA

EDITORIAL STAFF

INTERIM COEDITORS

Richard M. Glass, MD Phil B. Fontanarosa, MD

Deputy Editor (West): Drummond Rennie, MD

Deputy Editor: Margaret A. Winker, MD

Senior Contributing Editor: M. Therese Southgate, MD

Managing Senior Editor: Annette Flanagan

Contributing Editors: Charles B. Clayman, MD, Helene M. Cole, MD, Thomas B. Cole, MD, MPH, David S. Cooper, MD, David H. Mark, MD, MPH, Harriet S. Meyer, MD, Carin M. Olson, MD, Ronna Henry Siegel, MD, Jeanette M. Smith, MD, Jody W. Zylke, MD

Consulting Editors: Robert A. Clark, MD, Deborah J. Cook, MD

Statistical Editor: Naomi Vaisrub, PhD

Associate Editors: Charlene Breedlove, Roxanne K. Young

Fishbein Fellow: Thomas C. Jefferson, MD

Medical News & Perspectives: Marsha F. Goldsmith (editor); Charles Marwick, Mary Jane Friedrich, Mike Mitka, Joan Stephenson, PhD (associate editors); Rebecca Voelker (contributing editor)

Assistant Editor: Juliana M. Walker

Staff Assistant: Helga Fritz

Electronic Media: Marty Suter (interim director); Deborah Flapan, Neal Shankman, Wendi Williams (assistant editors); Brande Martin (Web copy editor); Marla A. Hall (staff assistant)

msJAMA: Jonathan H. Lin (editor)

Medical Illustrator: Jill Ghormley

Editorial Systems and Administration: Elaine Williams (director); Lenette Gardner-Gullens (electronic input supervisor); Celina Canchola (electronic input specialist)

Editorial Assistants: Linda Baker, Patricia Joworski, Gale Saulsberry (group supervisors); Kemberly Evans (letters coordinator); Mary Cannon, Susan Collister, Audrey Forman, Shirley Gogins, Gwenn Gregg, Lisa Hardin, Carmina Landeros, Mary Ann Lilly, Ethel Pinkston, Jennifer Reiling, Raul Serrato, Nadine Siewnarine, Gloria Tate

Editorial Processing Division: Cheryl Iverson (director); Paul Frank (electronic editing specialist); Monica Mungie (assistant electronic editing specialist)

Copyediting: Stacy L. Christiansen (director); Joy K. Jaeger (abstracts editor); Coleen Adamson, Susan R. Benner (senior copy editors); Diane Howard, Marie Reinke, Beverly Stewart

PUBLISHING AND BUSINESS STAFF

VICE PRESIDENT, PUBLISHING
Robert L. Kennett

PUBLISHER
Peter J. Murphy

Production and Distribution Division: Vanessa Hayden (director), Diane Darnell (publishing manufacturing analyst), Bonnie Van Clevon (manager, budgets and costs), Karen Adams-Taylor (director, advertising and production), Linda Knott (director, electronic production), Paul Gasiecki (manager, distribution), Debbie Camp, Betty Frigerio (production services supervisors), Terri Hanley (production specialist)

Managers: Phil Arko (composition), Mary Ellen Johnston (database and new media), Teresa Omiotek (proofreading), Carole Piszker (advertising), Susan Price (print production), Charl Richey (color and graphics)

Proofreaders: David Antos, Daniel James, Rachel Novickas, Mary Kay Tinerella, Barbara Wojtowicz

Production Associates and Specialists: Joseph Amft, Gail Barrett, Paul Boscoe, Joel Brameier, Karen Branham, Regina Brownlee, Victoria Buckner, Noel Chaparro, Brenda Chandler-Grayer, Heather Crego, La'son J. Diggs, Mary Anne Donley, Karl Elvin, Shannon Epplert, Amy Evers, Kathy Gaydar, Mari Guizzetti, Maria Kowalkowski, Mary Ann Kuranda, Sandra Lopez, Anne McBride, Melanie Parenti, Sarah Powell, Beth A. Rillema, Michelle Robinson, Angela Smits, Denise Steinhauer, Jo Anne Turner, JoAnne Weiskopf, Amelia Zamudio

Production Assistants: Bryan Irzyk, Ruth Sprague

Circulation and Content Marketing Staff: James A. Skowrenski (director)

Circulation Processing: Beverly Martin (director)

Circulation Development: Bina Oza (director); Robert Herling, Audrey Mathies (circulation marketing managers)

Licensing and Permissions: Norman Frankel (director), Rhonda Bailey (permissions)

Advertising Sales Staff: Stuart H. Williams (director)

Eastern: Susan J. Carollo, Alice H. Herman (representatives); 119 Cherry Hill Rd, Third Floor, Parsippany, NJ 07054, (973) 263-9191

Midwest/Farwest: Jeffery J. Bonistalli (representative); 515 N State St, Chicago, IL 60610, (312) 464-2551

Classified Advertising: Crystal Wells (representative); 515 N State St, Chicago, IL 60610, (312) 464-2456

Marketing Services Manager: Kathleen Hiltz

AMA CHIEF EXECUTIVES, OFFICERS, AND TRUSTEES

AMA EXECUTIVE STAFF

Executive Vice President, Chief Executive Officer: E. Ratcliffe Anderson, Jr, MD

Chief Operating Officer: Lynn E. Jensen, PhD

Senior Vice President, Publishing and Business Services: Paul J. Blackney

AMA OFFICERS AND TRUSTEES

President: Nancy W. Dickey, MD*

President-Elect: Thomas R. Reardon, MD*

Immediate Past President: Percy Wootton, MD

Secretary-Treasurer: Timothy T. Flaherty, MD*

Speaker, House of Delegates: Richard F. Corlin, MD

Vice-Speaker, House of Delegates: John A. Knote, MD

Trustees: Herman I. Abramowitz, MD; Susan Hershberg Adelman, MD; Yank D. Coble, MD*; Palma E. Formica, MD; J. Edward Hill, MD; Donald T. Lewers, MD* (Vice Chair); William H. Mahood, MD; John C. Nelson, MD*; Donald J. Palmisano, MD, JD; William G. Plested III, MD; Bruce A. Scott, MD (Young Physician); Randolph D. Smoak, Jr, MD* (Chair); Andrew M. Thomas, MD (Resident); Jeffrey A. Towson (Student)

*Executive Committee

EDITORIAL BOARD

Daniel M. Albert, MD
University of Wisconsin Hospital and Clinics
Madison, Wis

Kenneth A. Arndt, MD
Harvard Medical School
Boston, Mass

H. David Banta, MD
The Netherlands Organization
for Applied Scientific Research
Leiden, the Netherlands

Jack D. Barchas, MD
Cornell University Medical College
New York, NY

Michael Berger, MD
Heinrich Heine Universität Düsseldorf
Düsseldorf, Germany

Robert J. Blendon, ScD
Harvard University
Boston, Mass

Marjorie A. Bowman, MD, MPA
University of Pennsylvania Health System
Philadelphia, Pa

Iain Chalmers, MBBS, MSc
UK Cochrane Centre
Oxford, United Kingdom

James E. Dalen, MD
University of Arizona College of Medicine
Tucson, Ariz

Catherine D. DeAngelis, MD
Johns Hopkins University
School of Medicine, Baltimore, MD

Lois DeBakey, PhD
Baylor College of Medicine
Houston, Tex

Ronald G. Evens, MD
Washington University School of Medicine
St Louis, Mo

Michael E. Johns, MD
Robert W. Woodruff Health Sciences
Center of Emory University
Atlanta, Ga

Colin I. Johnston, MB, BS
University of Melbourne
Melbourne, Australia

Wayne F. Larrabee, Jr, MD
University of Washington
Seattle, Wash

Hervé Maisonneuve, MD
Agence Nationale d'Accreditation et
d'Evaluation en Santé, Paris, France

Kenneth D. McClatchey, MD, DDS
Loyola University Medical Center
Maywood, Ill

C. David Naylor, MD, DPhil
University of Toronto
Toronto, Ontario, Canada

Claude H. Organ, Jr, MD
University of California—Davis, East Bay
Oakland, Calif

Edmund D. Pellegrino, MD
Georgetown University
Washington, DC

Reed E. Peyerit, MD, PhD
MCP Hahnemann University
Pittsburgh, Pa

Uwe E. Reinhardt, PhD
Princeton University, Princeton, NJ

Povl Riis, MD, DSCI, DHC
Professor of Medicine
Copenhagen, Denmark

William L. Roper, MD, MPH
University of North Carolina at Chapel Hill
Chapel Hill, NC

Roger N. Rosenberg, MD
University of Texas
Southwestern Medical Center
Dallas, Tex

Renée Solomon, MD
Mount Sinai—NYU Medical Center
New York, NY

Masaaki Terada, MD
National Cancer Center
Tokyo, Japan

INTERNATIONAL ADVISORY COMMITTEE

Bassel Atallah, MD, JAMA—Middle East

Mauro Bologna, MD, JAMA—Italy

Romuald Debski, MD, PhD, JAMA—Poland

Carlos R. Gherardi, MD, JAMA—Argentina

Carla Gikovate, MD, JAMA—Brazil

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

Alexandra Livaditou, MD, JAMA—Greece

Ivan Vidmar, MD, JAMA—Slovenia

Miquel Vilardell-Tarres, MD, JAMA—Spain

Jiří Widimský, MUDr, DrSc, JAMA—Czech/Slovak

Alexei Yurenev, MD, JAMA—Russia