

JAMA

The Journal of the American Medical Association



Jean-Baptiste Oudry (1686-1755), *Still Life With Monkey, Fruits, and Flowers*, 1724, French.

Letters

Toxicity Associated With Isoniazid Preventive Therapy 2207

T. MOULDING; C. M. NOLAN

Cholinergic Markers in Alzheimer Disease

R. T. BARTUS, D. F. EMERICH; K. L. DAVIS, D. MARIN, D. P. PUROHIT, D. PERL, M. LANTZ, G. AUSTIN, V. HAROUTUNIAN

Stress-Induced Immunomodulation

M. PETTICREW, D. HUNTER; R. GLASER, B. RABIN, M. CHESNEY, S. COHEN, B. NATELSON

Reductions in Motor Vehicle-Related Injuries and Deaths

L. A. O'BRIEN; B. JONES, D. SLEET, A. DELLINGER, D. WALLACE, K. QUINLAN, C. BRANCHE

Preventing Prion Transmission in Corneal Transplants

H. D. CAVANAGH, R. N. HOGAN; L. TAN, M. A. WILLIAMS

Into Thin Air: Deaths on Everest

D. R. SHLIM; R. J. HAWLEY

Coffee Consumption and Risk of Gallstone Disease

B. H. CHADI; M. LEITZMANN, E. GIOVANNUCCI

116 Years of CONTINUOUS PUBLICATION

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

www.jama.com

December 15, 1999

ORIGINAL CONTRIBUTIONS

Caregiving as a Risk Factor for Mortality: The Caregiver Health Effects Study 2215

R. SCHULZ, S. R. BEACH

AIDS-Related Opportunistic Illnesses Occurring After Initiation of Potent Antiretroviral Therapy: The Swiss HIV Cohort Study 2220

B. LEDERGERBER, M. EGGER, V. ERARD, R. WEBER, B. HIRSCHL, H. FURRER, M. BATTEGAY, P. VERNAZZA, E. BERNASCONI, M. OPRAVIL, D. KAUFMANN, P. SUDRE, P. FRANCIOLI, A. TELENTI; FOR THE SWISS HIV COHORT STUDY

Foregone Health Care Among Adolescents 2227

C. A. FORD, P. S. BEARMAN, J. MOODY

Relationship Between Modifiable Health Risks and Short-term Health Care Charges 2235

N. P. PRONK, M. J. GOODMAN, P. J. O'CONNOR, B. C. MARTINSON

CLINICAL INVESTIGATION

Fecal and Oral Shedding of *Helicobacter pylori* From Healthy Infected Adults 2240

J. PARSONNET, H. SHMUELY, T. HAGGERTY

CLINICAL CARDIOLOGY

Expert Panel vs Decision-Analysis Recommendations for Postdischarge Coronary Angiography After Myocardial Infarction 2246

K. M. KUNTZ, J. TSEVAT, M. C. WEINSTEIN, L. GOLDMAN

SPECIAL COMMUNICATION

William Osler at 150: An Overview of a Life 2252

R. L. GOLDEN

EDITORIALS

Chronic Stress and Mortality Among Older Adults 2259

J. K. KIECOLT-GLASER, R. GLASER

Where Does *Helicobacter pylori* Come From and Why Is It Going Away? 2260

M. J. BLASER

Access to Health Care: A Call for Papers 2262

D. RENNIE, R. M. GLASS

(TABLE OF CONTENTS CONTINUED ON PAGE 2189.) 2187

©1999 American Medical Association. All rights reserved.

JAMA

Humanities

THE COVER 2193

Still Life With Monkey, Fruits, and Flowers

M. T. SOUTHGATE

A PIECE OF MY MIND 2195

AIDS in Paradise

R. E. KOENIG

POETRY AND MEDICINE

Incident at Malvern 2196 c

J. E. BEARDSLEY

JAMA 100 YEARS AGO 2196 d

Club Doctoring Again

A False Step

Druggists' Responsibilities

Reader Service

This Week in JAMA 2191

Masthead 2192

Abstracts 2196 m

Archives Journals Abstracts 2196 s

Corrections 2213

Obituary Listing 2268 e

Continuing Medical Education

JAMA Reader's Choice 2269

Classified Advertising

and Announcements 2270 c

Index of Advertisers 2271

Subscription, Business,

and Contact Information 2271

Reference Directories

Meetings in the United States and

International Meetings November 10, 1999

Organizations of Medical Interest

and State Medical Associations and

Examinations and Licensure July 28, 1999

JAMA Instructions for Authors

JULY 7, 1999

JAMA Key and Critical Objectives

NOVEMBER 10, 1999

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.

www.jama.com

BOOKS, JOURNALS, NEW MEDIA 2263

Mending Bodies, Saving Souls: A History of Hospitals (Risse)

REVIEWED BY S. J. LURIE

Oxford Textbook of Sports Medicine (Harries et al, eds)

REVIEWED BY P. J. DORSEN

Books, Journals, New Media Received

RESIDENT PHYSICIAN FORUM

GME Funding and Specialty Choice, Part 1 2268

E. TUOHY

JAMA PATIENT PAGE

Caregiving 2272

News and Analysis

MEDICAL NEWS & PERSPECTIVES 2197

Genetic Test Information Fears Unfounded

Fetal Pig Neural Cells for Parkinson Disease

New Recommendation for Adult Immunization

Pesticide Study Aids Parkinson Research

Miscellanea Medica

HEALTH AGENCIES UPDATE 2201

Heart Attack Triage

Cultural Barriers to Care

Tobacco Documents Unveiled

Inducing Immune Tolerance

FROM THE CENTERS FOR DISEASE CONTROL AND PREVENTION 2202

Tobacco Use—United States, 1900-1999

Surveillance for Acute Pesticide-Related Illness During the Medfly

Eradication Program—Florida, 1998

©1999 American Medical Association. All rights reserved.

2189

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, Thomas C. Jefferson, MD, David H. Mark, MD, MPH, Harriet S. Meyer, MD, Carin M. Olson, 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:** Stephen J. Lurie, MD, PhD**International Fellow:** Maria Guadalupe Campos, PhD**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**Editorial Graphics:** Ronna Henry Siegel, MD (director); Jill Ghormley (medical illustrator)**Electronic Media:** Marty Suter (director); Brande Martin, Neal Shankman (assistant editors); Marla A. Hall (staff assistant)**MSJAMA:** Jonathan H. Lin, PhD, Sue Sun Yom (editors)**Editorial Systems and Administration:** Elaine Williams (director); Lenette Gardner-Gullens (electronic input supervisor); Fanny L. Brown, Celina Canchola (electronic input specialists)**Editorial Assistants:** Linda Baker, Patricia Joworski, Gale Saulsberry (group supervisors); Kemberly Evans (letters coordinator); Mary Cannon, Susan Collister, Audrey Forman, Shirley Gogins, Charisse Green, Gwenn Gregg, Lisa Hardin, Carmina Landeros, Mary Ann Lilly, Ethel Pinkston, Jennifer Relling, Raul Serrato, Nadine Siewnarine, Gloria Tate**Editorial Processing Division:** Cheryl Iverson (director); Paul Frank (electronic editing specialist); Monica Mungle (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 Cleven (manager, budgets and costs), Karen Adams-Taylor (director, advertising and production), Paul Gasiecki (manager, distribution), Debbie Camp (production services supervisor), 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 Armt, Gail Barrett, Joel Brammeier, 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, Carolyn Hall, Maria Kowalkowski, Mary Ann Kuranda, Sandra Lopez, Christopher Meyer, Melanie Parenti, Sarah Powell, 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: Robert Herling (director); Susan Stoken, Alfred Tomaselli (managers); Reginald Jordan, Kathryn Osten (specialists)**Circulation Development:** Bina Oza (director); Audrey Mathies, Timothy Ryan (managers); Sandra Garzon, Michael McGraw (specialists)**Licensing and Permissions:** Norman Frankel (director); Rhonda Bailey (permissions)**Subscriber Services:** (800) 262-2350; fax: (312) 464-5831; e-mail: ama-sub@ama-assn.org**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:**

Robert A. Musacchio, PhD

AMA OFFICERS AND TRUSTEES

President: Thomas R. Reardon, MD***President-Elect:** Randolph D. Smoak, Jr, MD***Immediate Past President:** Nancy W. Dickey, MD***Secretary-Treasurer:** Yank D. Coble, MD***Speaker, House of Delegates:** Richard F. Corlin, MD**Vice-Speaker, House of Delegates:** John A. Knotte, MD**Trustees:** Herman I. Abromowitz, MD; Susan Hershberg Adelman, MD; Duane M. Cady, MD; Yank D. Coble, MD*; Timothy T. Flaherty, MD* (Vice Chair); J. Edward Hill, MD; Matthew D. Kagan (Student); D. Ted Lewers, MD* (Chair); William H. Mahood, MD; John C. Nelson, MD*; Donald J. Palmisano, MD*; William G. Plested, MD; Liana Puscas, MD (Resident); Joseph A. Riggs, MD; Bruce A. Scott, MD

*Executive Committee

EDITORIAL BOARD

Daniel M. Albert, MDUniversity 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**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
School of Medicine
Washington, DC**Reed E. Pyeritz, MD, PhD**MCP Hahnemann University
Pittsburgh, Pa**Uwe E. Reinhardt, PhD**

Princeton University, Princeton, NJ

Povl Riis, MD, DSCI, DHCProfessor 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
Csaba Farsang, MD, DSc, JAMA—Hungary
Carlos R. Gherardi, MD, JAMA—Argentina
Carla Gikovate, MD, MSc, JAMA—Brazil
Hiromasa Ishii, 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
Victor Hugo Olmedo Canchola, MD, JAMA—Mexico
Ivan Vidmar, MD, JAMA—Slovenia
Miquel Vilardell-Tarres, MD, JAMA—Spain
Jiří Widimský, MUDr, DrSc, JAMA—Czech/Slovak
Alexei Yurenev, MD, JAMA—Russia