

# JAMA

The Journal of the American Medical Association



Jan Philips van Thielen (1618-1667), *Roses and Tulips and Jasmine in a Glass With a Dragonfly and a Butterfly*, mid-1600s, Flemish.

April 19, 2000

## ORIGINAL CONTRIBUTIONS

### JAMA-EXPRESS

Major Cardiovascular Events in Hypertensive Patients Randomized to Doxazosin vs Chlorthalidone: The Antihypertensive and Lipid-Lowering Treatment to Prevent Heart Attack Trial (ALLHAT) ..... 1967

THE ALLHAT OFFICERS AND COORDINATORS FOR THE ALLHAT COLLABORATIVE RESEARCH GROUP

The Relationship Between Managed Care Insurance and Use of Lower-Mortality Hospitals for CABG Surgery ..... 1976

L. C. ERICKSON, D. F. TORCHIANA, E. C. SCHNEIDER, J. W. NEWBURGER, E. L. HANNAN

Enduring Effects of Nurse Home Visitation on Maternal Life Course: A 3-Year Follow-up of a Randomized Trial ..... 1983

H. KITZMAN, D. L. OLDS, K. SIDORA, C. R. HENDERSON, JR, C. HANKS, R. COLE, D. W. LUCKEY, J. BONDY, K. COLE, J. GLAZNER

The Effect of Organized Systems of Trauma Care on Motor Vehicle Crash Mortality ..... 1990

A. B. NATHENS, G. J. JURKOVICH, P. CUMMINGS, F. P. RIVARA, R. V. MAIER

## CARING FOR THE CRITICALLY ILL PATIENT

Ketoconazole for Early Treatment of Acute Lung Injury and Acute Respiratory Distress Syndrome: A Randomized Controlled Trial ..... 1995

THE ARDS NETWORK AUTHORS FOR THE ARDS NETWORK

## SPECIAL COMMUNICATION

The Case Against Anergy Testing as a Routine Adjunct to Tuberculin Skin Testing ..... 2003

B. S. SLOVIS, J. D. PLITMAN, D. W. HAAS

## CONSENSUS STATEMENT

Meta-analysis of Observational Studies in Epidemiology: A Proposal for Reporting ..... 2008

D. F. STROUP, J. A. BERLIN, S. C. MORTON, I. OLKIN, G. D. WILLIAMSON, D. RENNIE, D. MOHER, B. J. BECKER, T. A. SIPE, S. B. THACKER; FOR THE META-ANALYSIS OF OBSERVATIONAL STUDIES IN EPIDEMIOLOGY (MOOSE) GROUP

## EDITORIALS

Diuretics vs  $\alpha$ -Blockers for Treatment of Hypertension: Lessons From ALLHAT ..... 2013

L. LASAGNA

Clinical Performance Measurement—A Hard Sell ..... 2015

S. F. JENCKS

Thanking Authors, Peer Reviewers, and Readers—Constancy in a Time of Change ..... 2016

P. B. FONTANAROSA, R. M. GLASS, C. D. DEANGELIS

## Letters

Sodium Intake as a Risk Factor for Cardiovascular Disease ..... 1957

M. H. ALDERMAN, H. W. COHEN, S. MADHAVAN, G. KIMURA, J. HE, L. G. OGDEN, P. K. WHELTON

Smoking and Adverse Childhood Experiences

M. W. REYNOLDS, C. FRANK, A. PARROTT, R. F. ANDA, J. B. CROFT, W. H. GILES, D. F. WILLIAMSON, G. A. GIOVINO, V. J. FELITTI, D. NORDENBERG

Rofecoxib and the Risk of Adverse Upper Gastrointestinal Effects

J. FRESTON, E. WHITNEY, M. J. LANGMAN

Cyclooxygenase 2 Selective Agents and Upper Gastrointestinal Disease

H. FERNANDEZ, G. T. LESSER, R. H. PALMER, L. S. SIMON

Research Letter ..... 1963

NIH Research Grants: Funding and Re-funding

T. V. RAJAN, J. CLIVE



EDITOR

Catherine D. DeAngelis, MD, MPH

www.jama.com

(TABLE OF CONTENTS CONTINUED ON PAGE 1929.) 1927

©2000 American Medical Association. All rights reserved.

# JAMA

## Humanities

### THE COVER ..... 1933

*Roses and Tulips and Jasmine  
in a Glass With a Dragonfly  
and a Butterfly*

M. T. SOUTHGATE

### A PIECE OF MY MIND ..... 1934

The Stories

A. SCHEETZ, M. E. FRY

### POETRY AND MEDICINE ..... 1935

Calcium

M. J. STRAUS

### JAMA 100 YEARS AGO ..... 1936

Relations of Pharmacy  
to the Medical Profession

## Reader Service

### This Week in JAMA ..... 1931

### Masthead ..... 1932

### Abstracts ..... 1937

### Archives Journals Abstracts ..... 1940

### The Key and Critical Objectives of JAMA ..... 1942

### Corrections ..... 1963

### Obituary Listing ..... 2040

### Continuing Medical Education JAMA Reader's Choice ..... 2041

### Classified Advertising and Announcements ..... 2044

### Index of Advertisers ..... 2059

### Subscription, Business, and Contact Information ..... 2059

## Reference Directories

Meetings in the United States and  
International Meetings ..... April 12, 2000

Organizations of Medical Interest  
and State Medical Associations and  
Examinations and Licensure ..... July 28, 1999

## JAMA Instructions for Authors

JANUARY 5, 2000

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](http://www.jama.com)

## 1999 PEER REVIEWERS

The JAMA 1999 Editorial Peer Review Report ..... 2019  
E. S. WILLIAMS

## RESIDENT PHYSICIAN FORUM

AMA Foundation Recognizes Resident Leaders, Part 3 ..... 2034

## BOOKS, JOURNALS, NEW MEDIA

..... 2035

Chemical and Biological Terrorism: Research and Development  
to Improve Civilian Medical Response (Committee on R & D Needs  
for Improving Civilian Medical Response to Chemical and Biological  
Terrorism Incidents, Health Science Policy Program, Institute of Medicine,  
and Board of Environmental Studies and Toxicology, Commission on  
Life Sciences, National Research Council)

REVIEWED BY E. MCSWEEGAN

Anthrax: The Investigation of a Deadly Outbreak (Guillemin)

REVIEWED BY J.-L. SAGRIPANTI

Sex and Death: An Introduction to Philosophy of Biology (Sterelny, Griffiths)

REVIEWED BY J. WILSON

Books, Journals, New Media Received

## JAMA PATIENT PAGE

Tuberculosis ..... 2060

## News and Analysis

### MEDICAL NEWS & PERSPECTIVES ..... 1943

Polymer Scientists Engineer Better Remedies

Final Report on Mechanical vs Bioprosthetic Heart Valves

Japanese Develop Early Test for Lung Cancer Metastases

Miscellanea Medica

### HEALTH AGENCIES UPDATE ..... 1950

Gene Therapy Trials Oversight

Hypertension Trial Surprise

Bitter Truth

Substance Abuse Treatment

Vaccine Progress Report

### FROM THE CENTERS FOR DISEASE CONTROL AND PREVENTION ..... 1951

Update: Pulmonary Hemorrhage/Hemosiderosis Among Infants—  
Cleveland, Ohio, 1993-1996

Imported Dengue—United States, 1997 and 1998

Availability of Work-Related Lung Disease Surveillance Report, 1999

Satellite Broadcast on HIV Prevention

National Vaccine Program Office Workshop on Aluminum in Vaccines

©2000 American Medical Association. All rights reserved.

1929

# JAMA

## EDITORIAL STAFF

## EDITOR

Catherine D. DeAngelis, MD, MPH

**Deputy Editors:** Richard M. Glass, MD, Drummond Rennie, MD, Phil B. Fontanarosa, MD, 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

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

**Assistant Editor:** Juliana M. Walker

**MSJAMA:** Jonathan H. Lin, PhD, Sue Sun Yom (editors)

**Assistant to the Editor:** Helga Fritz

**Administrative Assistant:** Nadine Siewnarine

**Editorial Graphics:** Ronna Henry Siegel, MD (director); Jill Ghormley (medical illustrator)

**Electronic Media:** Brande Martin (assistant editor); Michelle Kurzynski (Web copy editor); Marla A. Hall (staff assistant)

**Editorial Systems and Administration:** Elaine Williams (director); Lenette Gardner-Gullens (electronic input supervisor); Fanny L. Brown, Celina Canchola (electronic input specialists)

**Editorial Assistants:** Patricia Joworski, Gale Saulsberry, Gloria Tate (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 Reiling, Raul Serrato

**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), Karen Adams-Taylor (director, advertising and production), Paul Gasiecki (manager, distribution), Debbie Camp (production services supervisor), Terri Hanley (production specialist)

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

**Proofreaders:** Daniel James, Rachel Novickas, Teresa Omiotek, Mary Kay Tinerella, Barbara Wojtowicz

**Production Associates and Specialists:** Joseph Amft, Gail Barrett, Joel Brammeier, Karen Branham, Regina Brownlee, Victoria Buckner, Noel Chaparro, Brenda Chandler-Grayer, La'son J. Diggs, Mary Anne Donley, Karl Elvin, Shannon Epplert, Amy Evers, Carolyn Hall, Maria Kowalkowski, Mary Ann Kuranda, Sandra Lopez, Bruce McGregor, Christopher Meyer, Melanie Parenti, Sarah Powell, Michelle Robinson, Angela Smits, Denise Steinhauser, Jo Anne Turner, Carmela Ware, JoAnne Weiskopf, Amelia Zamudio

**Production Assistant:** 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-subs@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 EXECUTIVES AND TRUSTEES

**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

**President:** Thomas R. Reardon, MD

**President-Elect:** Randolph D. Smoak, Jr, MD

**Immediate Past President:** Nancy W. Dickey, MD

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

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

**Trustees:** D. Ted Lewers, MD (chair); Timothy T. Flaherty, MD (vice chair); Yank D. Coble, Jr, MD (secretary-treasurer); Herman I. Abramowitz, MD; Susan Hersberg Adelman, MD; Duane M. Cady, MD; J. Edward Hill, MD; Matthew Kagan (student); 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 (young physician)

## JOURNAL OVERSIGHT COMMITTEE

Joshua Lederberg, PhD (chair), Christine K. Cassel, MD, David A. Kessler, MD, JD, Robert A. Musacchio, PhD, William M. Passano, Jr, Roy M. Pitkin, MD, Kenneth I. Shine, MD

## 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

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

**Lois DeBakey, PhD**  
Baylor College of Medicine  
Houston, Tex

**Pierre Durieux, MD, MPH**  
Université Paris 6  
Paris, France

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

**Alain Joffe, MD**  
Johns Hopkins University  
School of Medicine  
Baltimore, Md

**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

**Donald A. B. Lindberg, MD**  
National Library of Medicine  
Bethesda, Md

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

**C. David Naylor, MD, DPHl**  
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. Pyeritz, 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 Debksi, 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 Livaditov, 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**