

JAMA

The Journal of the American Medical Association



Fra Angelico (c 1400-1455) and Fra Filippo Lippi (c 1406-1469), *The Adoration of the Magi*, c 1445, Florentine.

December 27, 2000

ORIGINAL CONTRIBUTIONS

Relation Between Hospital Primary Angioplasty Volume and Mortality for Patients With Acute MI Treated With Primary Angioplasty vs Thrombolytic Therapy 3131

D. J. MAGID, B. N. CALONGE, J. S. RUMSFELD, J. G. CANTO, P. D. FREDERICK, N. R. EVERY, H. V. BARRON; FOR THE NATIONAL REGISTRY OF MYOCARDIAL INFARCTION 2 AND 3 INVESTIGATORS

Relation Between Operator and Hospital Volume and Outcomes Following Percutaneous Coronary Interventions in the Era of the Coronary Stent 3139

P. D. MCGRATH, D. E. WENNBERG, J. D. DICKENS, JR, A. E. SIEWERS, F. L. LUCAS, D. J. MALENKA, M. A. KELLETT, JR, T. J. RYAN, JR

Individual and Community Risks of Measles and Pertussis Associated With Personal Exemptions to Immunization 3145

D. R. FEIKIN, D. C. LEZOTTE, R. F. HAMMAN, D. A. SALMON, R. T. CHEN, R. E. HOFFMAN

Emergence of Domestically Acquired Ceftriaxone-Resistant *Salmonella* Infections Associated With AmpC β -Lactamase 3151

E. F. DUNNE, P. D. FEY, P. KLUDT, R. REPORTER, F. MOSTASHARI, P. SHILLAM, J. WICKLUND, C. MILLER, B. HOLLAND, K. STAMEY, T. J. BARRETT, J. K. RASHEED, F. C. TENOVER, E. M. RIBOT, F. J. ANGULO

BRIEF REPORT

Diurnal Variation in Fasting Plasma Glucose: Implications for Diagnosis of Diabetes in Patients Examined in the Afternoon 3157

R. J. TROISI, C. C. COWIE, M. I. HARRIS

GRAND ROUNDS

Pulmonary Hypertension 3160

S. GAINÉ

EDITORIALS

Volume-Outcome Relationship in Acute Myocardial Infarction: The Balloon and the Needle 3169

J. G. JOLLIS, P. S. ROMANO

State Mandates and Childhood Immunization 3171

K. M. EDWARDS

Letters

Safety of Celecoxib vs Other Nonsteroidal Anti-inflammatory Drugs 3123

L. KOHLER, H. ZEIDLER, S. MERKESDAL, J. G. KUIPERS; B. TAYLOR, B. VAN DE WAL; J. B. LEFKOWITH, G. S. GEIS, F. SILVERSTEIN

Glycoprotein Inhibitors and Fibrinolysis in Myocardial Infarction

B. L. RING; D. L. BHATT, E. J. TOPOL

The Spectrum of Pediatric Gastroesophageal Reflux

G. T. FURUTA, S. NURKO, A. BOUSVAROS, D. ANTONIOLI, K. BADIZADEGAN; G. D. EHRLICH, F. Z. HU, R. PRESTON, J. C. POST

Lead in Calcium Supplements

E. A. ROSS, N. J. SZABO, I. R. TEBBETT; H. J. ROBERTS; R. P. HEANEY

What Is the Best Evidence for Making Clinical Decisions?

N. R. SHAH; G. H. GUYATT, D. NAYLOR, W. S. RICHARDSON, L. GREEN, R. B. HAYNES, M. C. WILSON, D. J. COOK, R. Z. JAE SCHKE

Research Letter 3128

Association of Initial CD4 Cell Count and Viral Load With Response to Highly Active Antiretroviral Therapy

R. E. CHAISSON, J. C. KERULY, R. D. MOORE



EDITOR
Catherine D. DeAngelis, MD, MPH

www.jama.com

(Reprinted) (TABLE OF CONTENTS CONTINUED ON PAGE 3093.) 3091

©2000 American Medical Association. All rights reserved.

JAMA

Humanities

THE COVER 3099

The Adoration of the Magi

M. T. SOUTHGATE

A PIECE OF MY MIND 3100

From Rites of Passage to Last Rights

L. F. SANDOCK

POETRY AND MEDICINE 3102

Aristotle's Champagne

B. A. ST. ANDREWS

JAMA 100 YEARS AGO 3103

The Indiscriminate Use of Alcohol

Temperance in France

Reader Service

This Week in JAMA 3095

Masthead 3096

The Key and Critical Objectives of JAMA 3107

Abstracts 3108

Archives Journals Abstracts 3111

Corrections 3129

Obituary Listing 3190

Continuing Medical Education JAMA Reader's Choice 3237

Classified Advertising and Announcements 3239

Index of Advertisers 3251

Subscription, Business, and Contact Information 3251

Reference Directories

Meetings in the United States and International Meetings December 13, 2000

Organizations of Medical Interest and State Medical Associations and Examinations and Licensure July 26, 2000

JAMA Instructions for Authors

JULY 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.

CONTEMPO UPDATES: LINKING EVIDENCE AND EXPERIENCE

Pediatric Obsessive-Compulsive Disorder 3104

L. A. SNIDER, S. E. SWEDO

CONTROVERSIES

The Ethical Validity of Using Nuclear Transfer in Human Transplantation 3175

R. P. LANZA, A. L. CAPLAN, L. M. SILVER, J. B. CIBELLI, M. D. WEST, R. M. GREEN

The Ethics of Embryonic Stem Cells—Now and Forever, Cells Without End 3180

E. JUENGST, M. FOSSEL

BOOKS, JOURNALS, NEW MEDIA 3185

Scientific Basis of Transfusion Medicine: Implications for Clinical Practice (Anderson, Ness, eds)

REVIEWED BY E. H. PIERCE, JR

What's Normal? Narratives of Mental and Emotional Disorders (Donley, Buckley, eds)

REVIEWED BY L. R. KIRKLAND

The Case of Dr. Sachs: A Novel (Winckler)

REVIEWED BY T. MIKSANEK

Handbook for Mortals: Guidance for People Facing Serious Illness (Lynn, Harrold)

REVIEWED BY T. MORRIS

Merritt's Neurology (Rowland, ed)

REVIEWED BY T. RILEY

Books, Journals, New Media Received

INDEX TO VOLUME 284 3192

JAMA PATIENT PAGE

Heart Procedures 3252

News and Analysis

MEDICAL NEWS & PERSPECTIVES 3113

HIV/AIDS Surging in Eastern Europe

Federal Plan Asks for Increased Drug Treatment

Study Allays Therapy Concern, Finds New Flu Drug Safe for Patients With Asthma, COPD

Cat of a Different Color Kinder to Allergies

Miscellanea Medica

QUICK UPTAKES 3117

New Cancer Marker

ACoEM Withdraws Support

Inconclusive Isoflavones

Pediatric Emergencies

FROM THE CENTERS FOR DISEASE CONTROL AND PREVENTION 3118

HIV-Related Knowledge and Stigma—United States, 2000

Update: West Nile Virus Activity—Eastern United States, 2000

Outbreak of Poliomyelitis—Cape Verde, 2000

Declines in Lung Cancer Rates—California, 1988-1997

JAMA

EDITORIAL STAFF

EDITOR
Catherine D. DeAngelis, MD, MPH

Executive Deputy Editor: Phil B. Fontanarosa, MD

Deputy Editors: Richard M. Glass, MD, Drummond Rennie, MD, Margaret A. Winker, MD

Senior Contributing Editor: M. Therese Southgate, MD

Managing Senior Editor: Annette Flanagan

Senior Editor: Stephen J. Lurie, MD, PhD

Contributing Editors: Charles B. Clayman, MD, Helene M. Cole, MD, Thomas B. Cole, MD, MPH, David S. Cooper, MD, Michael S. Lauer, MD, Wendy Levinson, MD, David H. Mark, MD, MPH, Robert A. McNutt, MD, 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: Alice T. D. Hughes, MD

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

Assistant Editor: Juliana M. Walker

MSJAMA: Alison J. Huang, MPhil, Stefan C. Weiss, MHS (coeditors)

Assistant to the Editor: Helga Fritz

Administrative Assistant: Nadine Siewnarine

Editorial Graphics: Ronna Henry Siegel, MD (director); Cassio Lynm (medical illustrator)

Electronic Media: Michelle Kurzynski (director); Keith Huff (Web development editor); Nikhil Torsekar (assistant editor); Erin Giannini (Web copy editor); Marla A. Hall (Web office manager); Gemma Wall (editorial assistant)

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

Editorial Assistants: Patricia Joworski, Gloria Tate (group supervisors); Mary Cannon, Susan Collister, Audrey Forman, Shirley Gogins, Charisse Green, Gwenn Gregg, Lisa Hardin, Carmina Landeros, Mary Ann Lilly, Lupe Morales, Ethel Pinkston, Jennifer Reiling, Cara Savage, 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, Jennifer L. Reddy, Phil Sefton, Beverly Stewart

PUBLISHING AND BUSINESS STAFF

Vice President, Publishing: Robert L. Kennett

Publisher: Peter J. Murphy

Production and Distribution Division:

Directors: Karen Adams-Taylor, Paul Gasielki, Vanessa Hayden

Managers: David Antos, Karen Branham, Debbie Camp, Diane Darnell, Karl Elvin, Betty Frigerio, Terri Hanley, Mary Ellen Johnston, Carole Piszker, Susan Price, Charl Richey, Carmela Ware

Production Assistants: Kristy Kambanis, Ruth Sprague

Production Associates and Specialists:

Advertising and Production Services: LaWanda Brown, Susan Chiara, Mary Anne Donley, Sarah Powell, Denise Steinhauser, Jo Anne Turner, Ellen Yoshihara

Composition: Rebecca Aiken, Brenda Chandler-Grayer, Amy Evers, Fred Furtner, Mary Ann Kuranda, Sandra Lopez

Database & New Media: Bruce McGregor (indexer), Clifford O. Barrett, Gail Barrett, Regina Brownlee, La'son Diggs Sledge, Angela Smits

Distribution: Linda Alexander, Michelle Robinson

Graphics: Joe Amft, Noel Chaparro, Carolyn Hall, Maria Kowalkowski, Chris Meyer, JoAnne Weiskopf

Proofreading: Daniel James, Teresa H. Omiotek, Mary Kay Tinerella, Barbara Wojtowicz, Agnes A. Zarkadas

Circulation Processing: Robert Herling (director); Susan Stokes, Alfred Tomaselli (managers); Reginald Jordan, Kathryn Osten (specialists)

Circulation Development: Bina Oza (director); Vida Damijonaitis, Donna Goldman, Michael McGraw (managers); Sandra Garzon (specialist)

Licensing and Permissions: Norman Frankel (director); Rhonda Bailey (permissions); fax: (312) 464-5835

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 (director); 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

Senior Vice President, Publishing and Business Services: Robert A. Musacchio, PhD

President: Randolph D. Smoak, Jr, MD

President-Elect: Richard F. Corlin, MD

Immediate Past President: Thomas R. Reardon, MD

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

Vice-Speaker, House of Delegates: Nancy H. Nielsen, MD

Trustees: D. Ted Lewers, MD (chair); Timothy T. Flaherty, MD (chair-elect); Yank D. Coble, Jr, MD (secretary-treasurer); Herman I. Abromowitz, MD; Susan Hershberg Adelman, MD; Duane M. Cady, MD; J. Edward Hill, MD; William H. Mahood, MD; Sandeep "Sunny" Mistry (student); 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
Barnes-Jewish Hospital
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

Joseph K. Lim, MD
Yale University School of Medicine
New Haven, Conn

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

Frederick P. Rivara, MD, MPH
University of Washington
Seattle, Wash

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

Masaaki Terada, MD
National Cancer Center
Tokyo, Japan

INTERNATIONAL ADVISORY COMMITTEE

Bassel Atallah, MD, JAMA—Middle East
Mauro Bologna, MD, JAMA—Italy
Namsik Chung, MD, PhD, JAMA—Korea
Csaba Farsang, MD, DSc, JAMA—Hungary
Evarist Feliu Frasnedo, MD, JAMA—Spain
Zbigniew A. Gaciong, MD, PhD, JAMA—Poland
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
C. R. Kumana, MBBS, JAMA—Southeast Asia
Li Chengyi, MD, JAMA—China
Victor Hugo Olmedo Canchola, MD, JAMA—Mexico
Ivan Vidmar, MD, JAMA—Slovenia
Jiří Widimský, MUDr, DrSc, JAMA—Czech/Slovak
Alexei Yurenev, MD, JAMA—Russia