

The ARCHIVES OF INTERNAL MEDICINE is a member of the consortium of AMA journals listed below. The complete text of all AMA journals is available online from Dialog Information Services and Ovid Technologies, Inc.

**The Journal of the American Medical Association (JAMA)**

- Archives of Dermatology
- Archives of Facial Plastic Surgery
- Archives of Family Medicine
- Archives of General Psychiatry
- Archives of Internal Medicine
- Archives of Neurology
- Archives of Ophthalmology
- Archives of Otolaryngology-Head & Neck Surgery
- Archives of Pathology & Laboratory Medicine
- Archives of Pediatrics & Adolescent Medicine
- Archives of Surgery

The ARCHIVES OF INTERNAL MEDICINE (ISSN 0003-9926) is published twice a month, except for combined issues in August and December, by the American Medical Association, 515 N State St, Chicago, IL 60610, and is an official publication of the Association. The ARCHIVES OF INTERNAL MEDICINE reaches more than 98 400 readers in over 82 countries each month. Periodicals postage rates paid at Chicago, IL, and at additional mailing offices. GST registration number: 12622 5556 RT. Canada Post International Publications Mail (Canadian Distribution) Sales Agreement No. 318655.

Printed in the USA.

**SUBSCRIPTION RATES**—The personal subscription rates for the ARCHIVES OF INTERNAL MEDICINE are \$145 for 1 year (22 issues) in the United States and US possessions; \$195 in the Americas; £125 outside the Americas. The institution rates for 1 year are \$295 in the United States; \$395 in the Americas; £245 outside the Americas. Special rates for residents and medical students are available. Address all subscription communications to: Subscriber Services Center, American Medical Association, PO Box 10946, Chicago, IL 60610-0946. Phone: (800) 262-2350. Fax: (312) 464-5831. E-mail: ama-subs@ama-assn.org. For mailing addresses outside the United States and US possessions, see International Subscription Information.

**CHANGE OF ADDRESS**—POSTMASTER, send all address changes to ARCHIVES OF INTERNAL MEDICINE, c/o Subscriber Services, American Medical Association, 515 N State St, Chicago, IL 60610. Please notify us of address change at least 6 weeks in advance to ensure uninterrupted service. Include both old and new addresses, a recent mailing label, and new ZIP code. For mailing addresses outside the United States and US possessions, see International Subscription Information.

**SUBSCRIBER SERVICES**—For information about subscribing to any of the AMA publications, change of address, missing issues, or purchasing back issues, please contact Subscriber Services Center, American Medical Association, PO Box 10946, Chicago, IL 60610-0946, or call (800) 262-2350 or (312) 670-SUBS (670-7827) between 8:30 AM and 4:30 PM CST. Fax: (312) 464-5831. E-mail: ama-subs@ama-assn.org. For mailing addresses outside the United States and US possessions, see International Subscription Information.

**INTERNATIONAL SUBSCRIPTION INFORMATION**—Subscriptions outside the United States and US possessions are served according to geographic region. Please address correspondence to the following 2 offices based on delivery address: (1) For delivery in North America, Central America, and South America, contact Subscriber Services Center, AMA, PO Box 10946, Chicago, IL 60610-0946. Phone: (312) 670-7827. Fax: (312) 464-5831. E-mail: ama-subs@ama-assn.org. (2) For delivery outside the Americas, contact Subscription Department, JAMA & Archives Journals, American Medical Association, Tower House, Sovereign Park, Market Harborough, Leicestershire LE15 9EF, England. Phone: +44 (0) 1858-438880. Fax: +44 (0) 1858-434958.

**REPRINTS**—Authors place their reprint order at the time the edited typescript is reviewed and should allow 4 to 6 weeks for delivery following publication. Requests for individual reprints should be sent directly to the author at the address shown in the article.

For bulk reprint orders for distribution by commercial organizations, please contact Wanda Bartolotta, 500 Fifth Ave, #2210, New York, NY 10110. Phone: (212) 354-0050. Fax: (212) 354-1169. E-mail: wanda\_bartolotta@ama-assn.org. For reprint orders in limited quantities for distribution by educational organizations and for author reprints, please contact Reprint Coordinator, 515 N State St, Chicago, IL 60610. Phone: (312) 464-4594. Fax: (312) 464-4849.

**PERMISSIONS**—Contact Rhonda Bailey, Permissions Assistant, 515 N State St, Chicago, IL 60610. Phone: (312) 464-2513.

**ADVERTISING PRINCIPLES**—Each advertisement in this issue has been reviewed and complies with the principles governing advertising in AMA scientific publications. A copy of these principles is available on request. The appearance of advertising in AMA publications is not an AMA guarantee or endorsement of the product or the claims made for the product by the manufacturer.

**WORLD WIDE WEB ADDRESS**—<http://www.ama-assn.org>

**INTERNAL MEDICINE HOME PAGE**—<http://www.archinternmed.com>

**Publication Staff**  
Offices: 515 N State St, Chicago, IL 60610

**Editorial Processing Division**

**Division Director:** Cheryl Iverson  
**Department Director:** Paula Gltman  
**Copyediting Manager:** Lise M. Stevens  
**Freelance Copyediting Manager:** Diane L. Cannon  
**Freelance Copyediting Coordinators:** Gwen Chaffen, Connie Manno  
**Electronic Editing Specialist:** Paul Frank  
**Assistant Electronic Editing Specialist:** Monica Mungle  
**Senior Copy Editors:** Dee E. Egger, Vickie Golden  
**Copy Editors:** John McFadden, Jennifer L. Reddy  
**Editorial Assistant:** Wanda Hill

**Scientific Publications & Multimedia Applications**

**Assistant to the Editor:** Helga Fritz

**Scientific Online Resources**

**Director:** Margaret Winker, MD  
**Electronic Media Department Director:** Michelle Kurzynski  
**Web Development Editor:** Keith Huff  
**Assistant Editor:** Nikhil Torsekar  
**Staff Assistant:** Marla A. Hall

**Production & Distribution Division**

**Director:** Vanessa Hayden  
**Manager, Journal Manufacturing:** Diane Darnell  
**Journal Manufacturing Analyst:** Nona Malchin  
**Office Manager:** Karen Branham  
**Production Assistant:** Shannon Epplett

**Advertising & Production Department**

**Director:** Karen Adams-Taylor  
**Production Specialist:** Terri Hanley  
**Manager, Advertising Services:** Carole Piszker  
**Manager, Production Services:** Susan Price  
**Supervisor, Production Services:** Betty Frigerio  
**Production Associates:** Mary Anne Donley, Sarah Powell, Denise Steinhauer, Jo Anne Turner, Carmela Ware  
**Production Assistant:** Susan Chiara

**Distribution**

**Distribution Manager:** Paul Gasielki  
**Distribution Analyst:** Michelle Robinson

**Advertising**

**National Sales Manager:** Peter G. Messina  
**AMA Classified Advertising Department:** Thalia Moss, 800-262-2260.



**Specialty Journal Division Office**

**Manager, Marketing Services:** Geoffrey A. Flick  
**Assistant to the Publisher:** Christine Hearne

**Circulation & Content Marketing Division**

**Administrative Assistant:** Millette Jackson-Bates

**Circulation Processing Department**

**Director:** Robert Herling  
**Subscriber Services Manager:** Susan Stoken  
**Circulation Systems Manager:** Alfred Tomaselli  
**Circulation Specialists:** Reginald Jordan, Kathryn Osten

**Circulation Development Department**

**Director:** Bina Oza  
**Circulation Marketing Manager:** Audrey Mathies  
**Circulation Marketing Specialists:** Sandra Garzon, Michael McGraw

**Licensing & Permissions Department**

**Director:** Norman Frankel  
**Permissions:** Rhonda Bailey  
**International Coordinator:** Sharon Ali

**Electronic Production Department**

**Manager, Composition:** Karl Elvin  
**Electronic Production Specialists:** Brenda Chandler-Grayer, Amy Evers, Fred Furtner, Mary Ann Kuranda, Sandra Lopez  
**Manager, Graphics:** Charl Richey  
**Electronic Imaging Specialists:** Joe Amft, Noel Chaparro, Carolyn Hall, Maria Kowalkowski, Chris Meyer, JoAnne Weiskopf  
**Manager, Proofreading:** David Antos  
**Proofreaders:** Daniel James, Rachel Novickas, Teresa H. Omietek, Mary Kay Tinerella, Barbara Wojtowicz  
**Manager, Database & New Media:** Mary Ellen Johnston  
**Indexer:** Bruce McGregor  
**New Media Specialists:** Clifford O. Barrett, Gail Barrett, Joel Brammeier, Regina Brownlee, La'son J. Diggs, Melanie Parenti, Angela Smits  
**Production Assistant:** Ruth Sprague

**Advertising Offices:**

**East:** Peter G. Messina, Kelly Lezynski, 119 Cherry Hill Rd, 3rd Flr, Parsippany, NJ 07054 (973) 263-9191.  
**Midwest/West:** Alexis O'Connell, 515 N State, Chicago, IL 60610 (312) 464-2470.

# ARCHIVES

OF

## INTERNAL MEDICINE

JULY 10, 2000 VOLUME 160, NUMBER 13 PAGES 1885-2076

### AUTOPSY AND MEDICINE

#### Case of the Month: The Autopsy and New Technology: All That Glitters Is Not a Gold Standard 1901

Eric Kiesel, MD; Randy Hanzlick, MD; and the Autopsy Committee of the College of American Pathologists

### EDITORIAL

#### The Trouble With Triglycerides 1903

Hanna Bloomfield Rubins, MD, MPH

### COMMENTARY

#### Angiotensin II Receptor Blockers: Equal or Preferred Substitutes for ACE Inhibitors? 1905

Ehud Grossman, MD; Franz H. Messerli, MD; Joel M. Neutel, MD

### REVIEW ARTICLES

#### The Influence of Anxiety and Depression on Outcomes of Patients With Coronary Artery Disease 1913

James L. Januzzi, Jr, MD; Theodore A. Stern, MD; Richard C. Pasternak, MD; Roman W. DeSanctis, MD

#### Ventilator-Associated Pneumonia 1926

Richard Scott Morehead, MD; Simmy Jerry Pinto, MD

### ORIGINAL INVESTIGATIONS

#### Do Triglycerides Provide Meaningful Information About Heart Disease Risk? 1937

Andrew L. Avins, MD, MPH; John M. Neuhaus, PhD

#### Exercise and Weight Loss Reduce Blood Pressure in Men and Women With Mild Hypertension: Effects on Cardiovascular, Metabolic, and Hemodynamic Functioning 1947

James A. Blumenthal, PhD; Andrew Sherwood, PhD; Elizabeth C. D. Gullette, PhD; Michael Babyak, PhD; Robert Waugh, MD; Anastasia Georgiades, PhD; Linda W. Craighead, PhD; Damon Tweedy; Mark Feinglos, MD; Mark Appelbaum, PhD; Junichiro Hayano, MD; Alan Hinderliter, MD

American Medical Association

Physicians dedicated to the health of America



Copyright 2000 by the American Medical Association. All rights reserved. Reproduction without permission is prohibited.

All articles published, including editorials, letters, and book reviews, represent the opinions of the authors and do not reflect the policy of the American Medical Association, the Editorial Board, or the institution with which the author is affiliated, unless this is clearly specified.

Catherine D. DeAngelis, MD, MPH  
Editor in Chief, Scientific Publications  
& Multimedia Applications

Robert L. Kennett  
Vice President, Publishing

Peter L. Payerli  
Publisher

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

Lynn E. Jensen, PhD  
Chief Operating Officer

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

- Impact of *Helicobacter pylori* Infection on Gastric Cancer Incidence in a General Japanese Population: The Hisayama Study** 1962  
*Hajime Yamagata, MD; Yutaka Kiyohara, MD; Kunihiko Aoyagi, MD; Isao Kato, MD; Hiromitsu Iwamoto, MD; Keizo Nakayama, MD; Haruki Shimizu, MD; Yumihiro Tanizaki, MD; Hisatomi Arima, MD; Noriyasu Shinohara, MD; Hideki Kondo, MD; Takayuki Matsumoto, MD; Masatoshi Fujishima, MD*
- Short- and Long-term Survival After Cardiopulmonary Resuscitation** 1969  
*Thomas W. Zoch, MD; Norman A. Desbiens, MD; Frank DeStefano, MD; Dean T. Stueland, MD; Peter M. Layde, MD*
- Screening for Alcohol Problems in Primary Care: A Systematic Review** 1977  
*David A. Fiellin, MD; M. Carrington Reid, PhD, MD; Patrick G. O'Connor, MD, MPH*
- Excess Triiodothyronine as a Risk Factor of Coronary Events** 1993  
*Achim Peters, MD; Martin Ehlers, MD; Bodo Blank; Dirk Exler; Carol Falk, MD; Thomas Kohlmann, PhD; Bernd Fruehwald-Schultes, MD; Peter Wellhoener, MD; Wolfgang Kerner, MD; Horst L. Fehm, MD*
- Wound Myiasis in Urban and Suburban United States** 2004  
*Ronald A. Sherman, MD, MSc, DTM&H*
- Immune Function and Vaccine Responses in Healthy Advanced Elderly Patients** 2017  
*Paul J. Carson, MD; Kristin L. Nichol, MD; James O'Brien; Pierre Hilo; Edward N. Janoff, MD*
- A Prospective Study of Cytomegalovirus, Herpes Simplex Virus 1, and Coronary Heart Disease: The Atherosclerosis Risk in Communities (ARIC) Study** 2027  
*Paul D. Sorlie, PhD; F. Javier Nieto, MD, PhD; Ervin Adam, MD; Aaron R. Folsom, MD; Eyal Shahar, MD; Mark Massing, MD, MPH*
- A Population-Based Study of the Effectiveness of Inferior Vena Cava Filter Use Among Patients With Venous Thromboembolism** 2033  
*Richard H. White, MD, FACP; Hong Zhou, PhD; Jinwoo Kim, MD; Patrick S. Romano, MD, MPH*
- Prophylactic Antithrombotic Therapy for Patients With Systemic Lupus Erythematosus With or Without Antiphospholipid Antibodies: Do the Benefits Outweigh the Risks? A Decision Analysis** 2042  
*Denis G. Wahl, MD, PhD; Henri Bounameaux, MD; Philippe de Moerloose, MD; François P. Sarasin, MD*
- Effects of Protease Inhibitors on Hyperglycemia, Hyperlipidemia, and Lipodystrophy: A 5-Year Cohort Study** 2050  
*Sotirios Tsiodras, MD; Christos Mantzoros, MD; Scott Hammer, MD; Matthew Samore, MD*

## ARCHIVES OF INTERNAL MEDICINE

*Editor:*

**James E. Dalen, MD, MPH**  
 1228 E Prince Rd  
 Suite A  
 Tucson, AZ 85719

*Deputy Editor:*

**Richard S. Liebowitz, MD**  
 Tucson, Ariz

*Associate Editors:*

**Frederick R. Ahmann, MD**  
 Tucson, Ariz

**Robert J. Goldberg, PhD**  
 Worcester, Mass

**Eskild A. Petersen, MD**  
 Tucson, Ariz

*Editorial Assistant:*

**Janet S. Frank**  
 Tucson, Ariz

*Editorial Board:*

**Joseph S. Alpert, MD**  
 Tucson, Ariz

**Christine K. Cassel, MD**  
 New York, NY

**William S. Dalton, MD**  
 Tampa, Fla

**M. Brian Fennerty, MD**  
 Portland, Ore

**Faith T. Fitzgerald, MD**  
 Sacramento, Calif

**John P. Howe III, MD**  
 San Antonio, Tex

**Jack M. Matloff, MD**  
 Los Angeles, Calif

**Raymond Taetle, MD**  
 Tucson, Ariz

**CLINICAL OBSERVATION**

**Cocaine and Buerger Disease:  
Is There a Pathogenetic Association?** 2057  
*Victor J. Marder, MD;  
Ingo K. Mellinger, MD*

**EDITOR'S CORRESPONDENCE**

**Food Cobalamin Malabsorption:  
A Usual Cause of Vitamin B<sub>12</sub> Deficiency** 2061  
*Emmanuel Andrès, MD;  
Bernard Goichot, MD, PhD;  
Jean-Louis Schlienger, MD*

**In Reply** 2061  
*Lawrence Rice, MD*

**Continued Dependence on Nicotine  
Replacement Therapy Should  
Be Reported and Discussed  
in Smoking Cessation Trials** 2062  
*Julius Gylys, PhD*

**In Reply** 2062  
*Peter Hajek, PhD;  
Robert West, PhD*

**The Need for Improving Information  
Systems on Drug Interactions in Japan** 2063  
*Kazuhiro Harada, MD;  
Akio Fujimura, MD*

**In Reply** 2063  
*S. Troy McMullin, PharmD, BCPS*

**Testosterone and Cardiovascular  
Risk Factors** 2064  
*Paul G. Cohen, MD*

**In Reply** 2064  
*Paulo A. Lotufo, MD, DrPH;  
JoAnn E. Manson, MD, DrPH*

**Is There Enough Evidence That  
Low-Molecular-Weight Heparin  
Is Superior to Unfractionated Heparin  
in Pulmonary Embolism?** 2065  
*Gyanendra K. Sharma, MD*

**In Reply** 2065  
*Russell D. Hull, MBBS, MSc;  
Gary E. Raskob, PhD;  
Rollin F. Brant, PhD;  
Graham F. Pineo, MD;  
Paul D. Stein, MD;  
Andrew F. Mah, BSc*

**Interleukin 6 May Be an Important  
Mediator of Trimethoprim-Induced  
Systemic Adverse Reaction  
Resembling Aseptic Meningitis** 2066  
*Jaakko Anttonen, MD, PhD;  
Janne Hulkkonen, MD;  
Amos Pasternack, MD, PhD;  
Mikko Hurme, MD, PhD*

**REGULAR DEPARTMENTS**

**ARCHIVES CME** 2068

**Instructions for Authors** 2070

**Classified Advertising** 2073

**Index to Advertisers** 2076