

The ARCHIVES OF FAMILY 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 FAMILY MEDICINE (ISSN 1063-3987) is published bi-monthly, by the American Medical Association, 515 N State St, Chicago, IL 60610, and is an official publication of the Association. THE ARCHIVES OF FAMILY MEDICINE reaches more than 40 000 readers in over 40 countries. Periodicals postage 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. 319600. Printed in the USA.

SUBSCRIPTION RATES—The personal subscription rates for the ARCHIVES OF FAMILY MEDICINE are \$95 for 1 year (6 issues) in the United States and US possessions; \$145 in the Americas; £95 outside the Americas. The institution rates for 1 year are \$195 in the United States; \$295 in the Americas; £145 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 FAMILY 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 JAMA & Archives Journals, Reader Services Centre, PO Box 299, London WC1H 9TD, England. Phone: +44(0)171-383-6270. Fax: +44(0)171-383-6402. E-mail: jama-archives@diap.pipex.com.

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 10010. Phone: (212) 354-0050. Fax: (212) 354-1169. E-mail: QGZR06A@Prodigy.com. For reprint orders in limited quantities for distribution by educational organizations, 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>

FAMILY MEDICINE HOME PAGE—<http://www.archfammed.com>

Publication Staff

Offices: 515 N State St, Chicago, IL 60610

**Editorial Processing Department,
Archives Journals**

Director: Paula Glitman
Freelance Manager: Diane L. Cannon
Freelance Coordinators:
Mark Berthold
Connie Manno

Electronic Editing Specialist:
Paul Frank

Assistant Electronic Editing Specialist:
Monica Mungle

Senior Copy Editors:
Vickey Golden
Brenda Gregoline

Copy Editors:
Lauren L. Bomberger
Erin M. Giannini
Michelle Kurzynski

Editorial Assistant: Wanda Hill

**Scientific Information
& Multimedia Group**

Staff Assistant: Helga Fritz

Scientific Online Resources

Director: Margaret Winker, MD
Electronic Media Department

Director: Marty Suter

Assistant Editors:
Neil Shankman
Wendi Williams

Staff Assistant: Marla A. Hall

Production & Distribution Division

Manager, Budgets & Costs:
Bonnie Van Cleven

Publishing Manufacturing Analyst:
Diane Darnell

Office Manager: Karen Branham
Production Assistant: Shannon Epplert

**Advertising & Production
Department**

Director: Karen Adams-Taylor
Production Specialist: Terri Hanley

Manager, Advertising Services:
Carole Piszker

Manager, Production Services:
Susan Price

Supervisor, Production Services:
Debbie Camp

Production Associates:
Mary Anne Donley
Mari Guizzetti

Sarah Powell
Denise Steinhauer
Jo Anne Turner

Production Assistants:
Bryan Irzyk
Amelia Zamudio

Distribution

Distribution Manager: Paul Gasecki

Distribution Analyst:
Michelle Robinson

Traffic Control Specialist:
Victoria Buckner

Specialty Journal Distribution Office

Assistant to the Publisher:
Christine Hearne

**Circulation & Content
Marketing Division**

Administrative Assistant:
Millette Jackson-Bates

Circulation Processing Department

Director: Beverly Martin
Subscriber Services Manager:
Susan Stoken

Circulation Systems Manager:
Alfred Tomaselli

Circulation Specialists:
Reginald Jordan
Kathryn Osten

Specialty Journal Distribution Office

Assistant to the Publisher:
Christine Hearne

**Circulation & Content
Marketing Division**

Administrative Assistant:
Millette Jackson-Bates

Circulation Processing Department

Director: Beverly Martin
Subscriber Services Manager:
Susan Stoken

Circulation Systems Manager:
Alfred Tomaselli

Circulation Specialists:
Reginald Jordan
Kathryn Osten

**Circulation Development
Department**

Director: Bina Oza

Circulation Marketing Managers:
Robert Herling
Audrey Mathies
Timothy Ryan

Circulation Marketing Specialists:
Sandra Garzon
Michael McGraw

Licensing & Permissions Department

Director: Norman Frankel

Permissions: Rhonda Bailey

International Coordinator: Sharon Ali

Electronic Production Department

Director: Linda Knott

Manager, Composition & Pagination:
Phil Arko

Electronic Production Specialists:
Brenda Chandler
Heather Crego

Karl Elvin
Amy Evers

Mary Ann Kuranda
Sandra Lopez

Graphics Manager: Charl Richey

Electronic Imaging Specialists:
Joe Amft
Noel Chaparro

Carolyn Hall
Maria Kowalkowski

Chris Meyer
JoAnne Weiskopf

Manager, Proofreading:
Teresa H. Omiotek

Proofreaders:
David Antos
Daniel James

Rachel Novickas
Mary Kay Tinerella

Barbara Wojtowicz

Manager, Database & New Media:
Mary Ellen Johnston

Indexer: Kathy Gaydar

New Media Specialists:
Gail Barrett
Paul Boscoe

Joel Brammeier
Regina Brownlee

La'son J. Diggs
Melanie Parenti
Angela Smits

Production Assistant: Ruth Sprague



ARCHIVES

OF

FAMILY MEDICINE

VOL 8 NO. 6, NOVEMBER/DECEMBER 1999

SPECIAL SELECTION

- Ischemic Scalp Necrosis Preceding Loss of Visual Acuity in Giant Cell Arteritis** 474
Jay C. Rudd, MD;
Mitchell S. Fineman, MD; Robert C. Sergott

LETTERS TO THE EDITOR: CORRESPONDENCE

- Inappropriate Title** 476
William E. Straw, MD

LETTERS TO THE EDITOR: A READER ASKS

- Religious Commitment and Health Status** 476
Dale A. Matthews, MD;
M. E. McCollough;
J. P. Swyers; M. G. Milano;
David B. Larson, MD, MSPH; H. G. Koenig

SPECIAL ARTICLE

- An Overview of Osteopathic Medicine** 477
Emil P. Lesho, DO



ORIGINAL CONTRIBUTION

- Preventable Hospitalizations in Primary Care Shortage Areas: An Analysis of Vulnerable Medicare Beneficiaries** 487
Michael L. Parchman, MD;
Steven D. Culler, PhD

EDITORIAL

- When Access-to-Care Indicators Meet: Designated Shortage Areas and Avoidable Hospitalizations** 492
Donald E. Pathman, MD, MPH;
Thomas C. Ricketts III, PhD, MPH

ORIGINAL CONTRIBUTIONS

- Prognostic Factors for Persons With Idiopathic Chronic Fatigue** 495
Arthur J. Hartz, MD, PhD;
Evelyn M. Kuhn, PhD;
Suzanne E. Bentler, MS;
Paul H. Levine, MD;
Richard London, MD



American Medical Association

Physicians dedicated to the health of America



Copyright 1999 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.

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

Lynn E. Jensen, PhD
Chief Operating Officer

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

Robert L. Kennett
Vice President,
Publishing

Peter L. Payerli
Publisher

Peter G. Messina
National Sales Manager

Geoffrey A. Flick
Manager, Marketing Services

Cheryl Iverson
Director, Editorial Processing Division

Vanessa Hayden
Director, Production &
Distribution Division

James A. Skowrenski
Director, Circulation &
Content Marketing Division

Advertising Offices: East: Peter G. Messina, Kelly E. Lezynski, 119 Cherry Hill Rd, 3rd Flr, Parsippany, NJ 07054 (973) 263-9191.
Midwest/West: Alexis A. O'Connell, 515 N State St, Chicago, IL 60610 (312) 464-2470.
AMA Classified Advertising Department: Thalia Moss, Supervisor, 800-262-2260.

**Is Experience With Human
Immunodeficiency Virus Disease
Related to Clinical Practice?**

**A Survey of Rural
Primary Care Physicians**

Cynthia L. Willard, MD;
Petra Liljestrand, PhD;
Ronald H. Goldschmidt, MD;
Kevin Grumbach, MD

502



**Quality of Care for Primary Care Patients
With Depression in Managed Care**

Kenneth B. Wells, MD, MPH;
Michael Schoenbaum, PhD;
Jürgen Unützer, MD, MPH;
Isabel T. Lagomasino, MD;
Lisa V. Rubenstein, MD, MSHS

529



Editor's Note

Marjorie A. Bowman, MD, MPA

509

**Do Follow-up Recommendations
for Abnormal Papanicolaou Smears
Influence Patient Adherence?**

Joy Melnikow, MD, MPH;
Benjamin K. S. Chan, MS;
Gary K. Stewart, MD, MPH

510



**Prevalence of Gambling Disorders
in a Primary Care Setting**

Andrew V. Pasternak IV, MD, MS;
Michael F. Fleming, MD, MPH

515



Author's Comment

Andrew V. Pasternak IV, MD, MS

520

**Breast Cancer Trends of Black Women
Compared With White Women**

Kenneth C. Chu, PhD;
Robert E. Tarone, PhD;
Otis W. Brawley, MD

521



CLINICAL REVIEW

**The Role of Vitamin E in the Prevention
of Heart Disease**

David H. Emmert, MD;
Jeffrey T. Kirchner, DO

537



BRIEF REPORT

**Patients and Community Together:
A Family Medicine Community-Oriented
Primary Care Project in an Urban
Private Practice**

William H. Bayer, MD;
Kevin Fiscella, MD, MPH

546

EDITORIAL

**Community-Oriented Primary Care:
The State of an Art**

A. H. Strelnick, MD

550

ARCHIVES
OF
FAMILY MEDICINE

Editor:

Marjorie A. Bowman, MD, MPA
University of Pennsylvania
Health System
3400 Spruce St/1126 Penn Tower
Philadelphia, PA 19104-4283
Phone: (215) 662-3348
Fax: (215) 662-3591

Assistant to the Editor:

Patti Hutchings

Deputy Editor:

Joseph C. Konen, MD, MSPH
Charlotte, NC

Associate Editors:

Louise S. Acheson, MD, MS
Cleveland, Ohio

Charles E. Driscoll, MD

West Branch, Iowa

Steven C. Zweig, MD, MSPH

Columbia, Mo

Editorial Board:

Robert M. Bostick, MD, MPH

Columbia, SC

Elizabeth A. Burns, MD, MA

Chicago, Ill

Doug Campos-Outcalt, MD, MPA

Phoenix, Ariz

Nancy W. Dickey, MD

Chicago, Ill

Allen J. Dietrich, MD

Hanover, NH

Joseph J. Gallo, MD, MPH

Baltimore, Md

Lillian Gelberg, MD, MSPH

Los Angeles, Calif

John G. Halvorsen, MD, MS

Peoria, Ill

James M. Herman, MD, MSPH

Hershey, Pa

Vahe A. Keukjian, MD

Hudson, NY

Arch G. Mainous III, PhD

Charleston, SC

Michael L. Parchman, MD

El Paso, Tex

Barbara D. Reed, MD, MSPH

Ann Arbor, Mich

Len Scarpinato, DO, FACP,

FCPP, FAAFP

Racine, Wis

David E. Swee, MD

New Brunswick, NJ

Susan Z. Yanovski, MD

Bethesda, Md

Statistical Consultant:

Mark A. Espeland, PhD

Winston-Salem, NC

BRIEF REPORT

- Traumatic Complications of Acupuncture: Therapists Need to Know Human Anatomy** 553
Elmar T. Peuker, MD;
Adrian White, MD;
Edzard Ernst, MD, PhD;
Franz Pera, MD;
Timm J. Filler, MD

**LIVING IN MEDICINE**

- Dear Sheena** 559
Anne Walling, MD

BOOK REVIEWS

- Books Received** 560

DEPARTMENTS

- In Other AMA Journals** 471
Reviewers List 485
ARCHIVES CME 543
Index to Volume 8 562
Classified Advertising 572
Index to Advertisers 576
- Instructions for Authors—**
 See September/October 1999 issue,
 page 454, or visit the Web site
 at www.archfammed.com.

*Answers to This Issue's Self-assessment Quiz*

- Q1. A Q2. D Q3. E Q4. C Q5. A Q6. D Q7. B
 Q8. C Q9. A Q10. B