

ARCHIVES

OF

FAMILY MEDICINE

The ARCHIVES OF FAMILY MEDICINE is a member of the consortium of AMA journals listed below. The ARCHIVES reaches more than 81 500 readers in family and general practice each month, in addition to paid subscribers. The complete text of all AMA journals is available online from Dialog Information Services and Information Access Company.

The Journal of the American Medical Association (JAMA)

Archives of Dermatology
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 monthly by the American Medical Association, 515 N State St, Chicago, IL 60610, and is an official publication of the Association. Second-class postage rates paid at Chicago and at additional mailing office. GST registration number R126 225 556. Canada Post International Publications Mail (Canadian Distribution) Sales Agreement No. 319600. Printed in the USA.

SUBSCRIPTION RATES—The subscription rates for the ARCHIVES OF FAMILY MEDICINE are as follows: \$95 for 1 year, \$190 for 2 years in the United States and US possessions; in the Americas, 1 year, \$130, 2 years, \$260; the rest of the world, 1 year, £90, 2 years, £180. The institution rates are as follows: \$105 for 1 year, \$210 for 2 years in the United States and US possessions; in the Americas, 1 year, \$140, 2 years, \$280; the rest of the world, 1 year, £97, 2 years, £194. Rates for subscriptions for delivery to Japan are available through our exclusive agents—contact the publisher. Special rates for residents and medical students in the United States and US possessions are available. Address inquiries to Subscriber Services Center, American Medical Association, PO Box 10945, Chicago, IL 60610. Phone: (800) 262-2350. Fax: (312) 464-5831. 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 US 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 10945, Chicago, IL 60610, or call (312) 670-SUBS (670-7827) between 8:30 AM and 4:30 PM CST. Fax: (312) 464-5831. For mailing addresses outside the US 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 two offices based on delivery address: 1) For delivery in North America, Central America, and South America, contact Subscriber Services Center, AMA, PO Box 10945, Chicago, IL 60610, USA. Phone: 1-312-670-7827. Fax: 1-312-464-5831; 2) For delivery outside the Americas, contact JAMA & Archives Journals Reader Services Centre, PO Box 299, London, England WC1H 9TD. Phone: 44-(0)-171-383-6270. Fax: 44-(0)-171-383-6402.

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 Avenue, #2210, New York, NY 10010. Phone: (212) 354-0050. Fax: (212) 354-1169. For reprint orders in limited quantities for distribution by educational organizations, please contact Joseph R. Rekish, 515 N State St, Chicago, IL 60610. Phone: (312) 464-2512. Fax: (312) 464-5835.

PERMISSIONS—Contact Laslo Hunyady, 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.

Publication Staff

Offices: 515 N State St
Chicago, IL 60610

Editorial Processing Department, Specialty Journals

Director: Paula Glitman
Manager: Barbara J. Clark
Freelance Manager:
Vickey Golden

Assistant Freelance Coordinator:
Diane L. Cannon

Senior Copy Editor/Alex Specialist:
Paul Frank

Senior Copy Editor:
Mary E. Coerver

Copy Editors:
Brenda J. Gregoline
Lisa Riolo

Manuscript Records Clerk:
Tiffany Rome

Specialty Journal Division Office

Assistant to the Publisher
Marla Hall



Production & Distribution Division

Manager, Budgets & Costs:
Bonnie Van Clevon

Office Manager:
Karen Branham

Production Assistant:
Valerie Balkcom

Advertising & Production Department

Director: Vanessa Hayden
Paper & Planning: Diane Darnell
Manager, Advertising Services:
Carole Piszker

Manager, Production Services:
Susan Price

Production Associates:
Karen Adams-Taylor
Debbie Camp
Betty Frigerio
Anita Jackson
Sarah Powell
Jennifer Reiling
Christine M. Wagenknecht
E. Ruth White

Production Assistant:
Jo Anne Turner

Electronic Production Department

Electronic Production Supervisor:
Linda Knott

Electronic Production Operators:
Gail Barrett
Brenda Chandler-Haynes
Michael L. Culbert
Mary Ann Kuranda
Sandra Lopez

Graphics Manager:
Charl Richey-Davis

Graphics Operators:
JoAnne Weiskopf
Alicja Wojcik

Manager, Proofreading:
Teresa H. Omiotek

Proofreaders:
David Antos
Daniel James
Mary Kay Tinerella
Production Assistant:
Melanie Parenti

Distribution

Distribution Manager: Paul Gasielki

Circulation Processing Department

Director: Beverly Martin

Circulation Development Department

Director: Ann Westerbeke

Licensing & Permissions Department

Director: Norman Frankel
Indexing: Kathy Gaydar
Permissions: Laslo Hunyady

Database & New Media

Manager: Emily Moreno
Electronic Coordinator:
Mary Ellen Johnston

Reprints

Reprint Coordinator: Joseph Rekish

Use of a Pharmacy and Medical Claims Database to Document Cost Centers for 1993 Annual Asthma Expenditures

David A. Stempel, MD;
Edwin C. Hedblom, PharmD;
Joyce F. Durcanin-Robbins, PharmD;
Linda L. Sturm, MHA

36

Departments

In Other AMA Journals 5

Physician Recruitment Advertising 52

**Instructions for Authors—
See March 1995 issue, page 187.**

Clinical Review

Shingles in One Family Practice 42

Peter Richards, MD

Brief Report

Identification of Turner's Syndrome in an Elderly Woman: Case Report and Review 48

Peter P. Tóth, MD, PhD,
Gerald J. Jogerst, MD

ARCHIVES

OF

FAMILY MEDICINE

Editor:

Marjorie A. Bowman, MD, MPA
Bowman Gray School of Medicine
Medical Center Boulevard
Winston-Salem, NC 27157-1084
Phone: (910) 716-7318
Fax: (910) 716-5850

Assistant to the Editor:

Barbara W. Le Grand

Deputy Editor:

Joseph C. Konen, MD, MSPH
Winston-Salem, 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
Winston-Salem, NC

W. Eugene Broadhead, MD, PhD
Danville, Va

Doug Campos-Outcalt, MD, MPA
Phoenix, Ariz

Nancy W. Dickey, MD
Chicago, Ill

Allen J. Dietrich, MD
Hanover, NH

John G. Halvorsen, MD, MS
Peoria, Ill

Arch G. Mainous III, PhD
Lexington, Ky

Patrick J. O'Connor, MD, MPH
St Paul, Minn

Christian N. Ramsey, Jr, MD
Lexington, Ky

Barbara D. Reed, MD, MSPH
Ann Arbor, Mich

Len Scarpinato, DO, FACP, FCCP, FAAFP
Milwaukee, Wis

Thomas L. Speros, MD
Washington, NC

David H. Thom, MD, PhD
Palo Alto, Calif

Statistical Consultant:

Mark A. Espeland, PhD
Winston-Salem, NC

Book Reviews:

Michael L. Adler, MD
Winston-Salem, NC

Selections From Other Journals:

Kevin A. Pearce, MD, MPH
Winston-Salem, NC

Series Editor:

Clinical Preventive Practices:

Robert C. Rinaldi, PhD
Chicago, Ill