

ARCHIVES OF OPHTHALMOLOGY

The ARCHIVES OF OPHTHALMOLOGY 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 OPHTHALMOLOGY (ISSN 0003-9950) is published monthly by the American Medical Association, 515 N State St, Chicago, IL 60610, and is an official publication of the Association. The ARCHIVES OF OPHTHALMOLOGY reaches more than 18 000 readers in over 94 countries each month. 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. 318957.

Printed in the USA.

Continuing the Publication Founded by Herman Knapp, MD, in 1869. The objective of the ARCHIVES OF OPHTHALMOLOGY is education: To inform its readers of progress, problems, and pertinent research in the practice of ophthalmology through the publication of original contributions and observations.

SUBSCRIPTION RATES—The personal subscription rates for the ARCHIVES OF OPHTHALMOLOGY are \$145 for 1 year (12 issues) in the United States and US possessions; \$195 in the Americas; £125 outside the Americas. The institution rates for 1 year are \$245 in the United States; \$345 in the Americas; £195 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 OPHTHALMOLOGY, 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. Telephone: +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>

OPHTHALMOLOGY HOME PAGE—<http://www.archophthalmol.com>

Publication Staff

Offices: 515 N State St, Chicago, IL 60610

Editorial Processing Department,
Archives Journals

Director: Paula Glitman

Manager: Brenda Gregoline

Freelance Manager: Diane L. Cannon

Freelance Coordinators:

Gwen Chaffen

Connie Manno

Electronic Editing Specialist:

Paul Frank

Assistant Electronic Editing Specialist:

Monica Mungle

Senior Copy Editor: Vickey Golden

Copy Editors:

Lauren L. Bomberger

Erin M. Giannini

Michelle Kurzynski

Editorial Assistant: Wanda Hill

Scientific Publications
& **Multimedia Applications**

Staff Assistant: Helga Fritz

Scientific Online Resources

Director: Margaret Winker, MD

Electronic Media Department

Director: Marty Suter

Assistant Editors:

Brandt Martin

Neil Shankman

Staff Assistant: Marla A. Hall

Production & Distribution Division

Manager, Budgets & Costs:

Bonnie Van Clevon

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

Sarah Powell

Denise Steinhauer

Jo Anne Turner

Carmela Ware

Production Assistants:

Bryan Irzyk

Amelia Zamudio

Distribution

Distribution Manager: Paul Gasielki

Distribution Analyst:

Michelle Robinson

Traffic Control Specialist:

Victoria Buckner



Specialty Journal Division Office

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 Managers:

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

Manager, Composition & Pagination:

Phil Arko

Electronic Production Specialists:

Brenda Chandler-Grayer

Heather Grego

Karl Elvin

Amy Evers

Mary Ann Kuranda

Sandra Lopez

Manager, Graphics: Charl Richey

Electronic Imaging Specialists:

Joe Amft

Noel Chaparro

Carolyn Hall

Maria Kowalkowski

Chris Meyer

JoAnne Weiskopf

Proofreaders:

David Antos

Daniel James

Rachel Novickas

Teresa H. Omiotek

Mary Kay Tinerella

Barbara Wojtowicz

Manager, Database & New Media:

Mary Ellen Johnston

Indexer: Kathy Gaydar

New Media Specialists:

Gail Barrett

Joel Brammeier

Regina Brownlee

La'son J. Diggs

Melanie Parenti

Angela Smits

Production Assistant: Ruth Sprague

ARCHIVES

OF

OPHTHALMOLOGY

VOL 118 NO. 2, FEBRUARY 2000

CLINICAL SCIENCES

- Confirmation of Confocal Microscopy
Diagnosis of *Acanthamoeba* Keratitis
Using Polymerase Chain Reaction Analysis** 178
*William D. Mathers, MD; Scott E. Nelson, PhD;
James L. Lane, BLS; Mary E. Wilson, MD;
Richard C. Allen, MD, PhD; Robert Folberg, MD*

- Iridocorneal Endothelial Syndrome
in Thai Patients: Clinical Variations** 187
*Chaiwat Teekhasaenee, MD;
Robert Ritch, MD*

- Scanning Laser Ophthalmoscope
Correlations With Biomicroscopic
Findings and Foveal Function
After Macular Hole Closure** 193
*Taiichi Hikichi, MD; Satoshi Ishiko, MD;
Akira Takamiya, MD; Eiichi Sato, MD;
Fumihiko Mori, MD; Masatoshi Takahashi, MD;
Norihiko Yanagiya, MD; Jun Akiba, MD;
Akitoshi Yoshida, MD*

- Observations on 17 Patients
With Retinocytoma** 199
*Arun D. Singh, MD;
Maria Carmen M. Santos, MD;
Carol L. Shields, MD;
Jerry A. Shields, MD;
Ralph C. Eagle, Jr, MD*

- Choroidal Laser Doppler Flowmetry
in Healthy Subjects** 211
*Myriam Straubhaar, MD; Selim Orgül, MD;
Konstantin Gugleta, MD; Andy Schötzau, PhD;
Carl Erb, MD; Josef Flammer, MD*

- Metastatic Neoplasms in the Optic Disc:
The 1999 Bjerrum Lecture: Part 2** 217
*Jerry A. Shields, MD; Carol L. Shields, MD;
Arun D. Singh, MD*

- Melkersson-Rosenthal Syndrome:
New Clinicopathologic Findings in 4 Cases** 227
*Kimberly Peele Cockerham, MD;
Ahmed A. Hidayat, MD; Glenn C. Cockerham, MD;
Mark H. Depper, MD; Scott Sorensen, MD;
Albert S. Cytryn, MD; Paul T. Gavaris, MD*

LABORATORY SCIENCES

- Swelling and Loss of Photoreceptors
in Chronic Human and
Experimental Glaucomas** 235
*T. Michael Nork, MD, MS;
James N. Ver Hoeve, PhD;
Gretchen L. Poulsen;
Robert W. Nickells, PhD;
Matthew D. Davis, MD;
Arthur J. Weber, PhD;
Vaegan, PhD;
Shirley H. Sarks, MD;
Heath L. Lemley, MD;
Lyndell L. Millecchia, PhD*

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.

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

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

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**

Advertising Office:
J. P. Cahill & Associates, 341 S Waiola Ave,
La Grange, IL 60525 (708) 352-0322.

AMA Classified Advertising Department:
Thalia Moss, 800-262-2260.

Tear Production After Unilateral Removal of the Main Lacrimal Gland in Squirrel Monkeys	246
<i>Dmitri Y. Maitchouk, MD;</i> <i>Roger W. Beuerman, PhD;</i> <i>Toshihiko Ohta, MD;</i> <i>Michael Stern, PhD;</i> <i>Ray J. Varnell, PhD</i>	

EPIDEMIOLOGY AND BIOSTATISTICS

Surgical Undertreatment of Glaucoma in Black Beneficiaries of Medicare	253
<i>Uday Devgan, MD; Fei Yu, MS;</i> <i>Eric Kim; Anne L. Coleman, MD, PhD</i>	
Anterior Chamber Depth Measurement as a Screening Tool for Primary Angle-closure Glaucoma in an East Asian Population	257
<i>Joe G. Devereux, FRCOphth;</i> <i>Paul J. Foster, FRCSE;</i> <i>Jamyanjav Baasanhu, MD, DCEH;</i> <i>Davaatseren Uranchimeg, MD; Pak-Sang Lee, MSc;</i> <i>T. Erdenbeleg, MD; David Machin, MSc, PhD;</i> <i>Gordon J. Johnson, MD, FRCSC;</i> <i>Poul Helge Alsbirk, MD</i>	
Age-Specific Causes of Bilateral Visual Impairment	264
<i>LeAnn M. Weih, PhD, MSc;</i> <i>Mylan R. VanNewkirk, MD, FRACO;</i> <i>Catherine A. McCarty, PhD, MPH;</i> <i>Hugh R. Taylor, MD, FRACO</i>	

CONTROVERSIES

The Analysis of Clinical Research: Mandatory Submission of Data Sets	273
---	-----

Journals Should Have Access to Research Data
Kirk R. Wilhelmus, MD, MPH

Journal Editors Should Not Require Complete Data Sets for Independent Scrutiny	275
<i>Roy W. Beck, MD, PhD;</i> <i>Frederick L. Ferris, MD</i>	

EDITORIAL

Management of Small Corneal Infiltrates in Contact Lens Wearers	276
<i>Elisabeth J. Cohen, MD</i>	

CLINICOPATHOLOGIC REPORT

T-Cell Lymphoproliferative Disorder of Vitreous Associated With Mycosis Fungoides	278
<i>Gayle C. Williams, MD, PhD;</i> <i>Eric Holz, MD;</i> <i>Andrew G. Lee, MD;</i> <i>Ramon L. Font, MD</i>	

ARCHIVES OF OPHTHALMOLOGY

Editor:
Daniel M. Albert, MD, MS
Suite 102
2870 University Ave
Madison, WI 53705
(608) 262-7769
Fax: (608) 265-5896
archives@eyesee.ophth.wisc.edu

Associate Editor:
Leonard A. Levin, MD, PhD
Madison, Wis

Assistant Editor:
Justin L. Gottlieb, MD
Madison, Wis

Editorial Manager:
Laura Hayes Hoffman
Madison, Wis

Office Manager:
Eleanor Albert, MA
Madison, Wis

Ophthalmic Molecular Genetics:
Edwin M. Stone, MD, PhD
Iowa City, Iowa
Socioeconomics and Health Services
Paul P. Lee, MD
Durham, NC

Clinicopathologic Reports:
W. Richard Green, MD
Baltimore, Md

Controversies:
Andrew P. Schachat, MD
Baltimore, Md

Book and Software Reviews:
Barbara A. Blodi, MD
Madison, Wis

Online Editors:
Jon P. Gieser, MD
Chicago, Ill

Stephen D. McLeod, MD
San Francisco, Calif

ARCHIVES CME:
William F. Mieler, MD
Houston, Tex

Editorial Board:
Eduardo C. Alfonso, MD
Miami, Fla

Neil M. Bressler, MD
Baltimore, Md

Elisabeth J. Cohen, MD
Philadelphia, Pa

Karen J. Cruickshanks, PhD
Madison, Wis

Thaddeus P. Dryja, MD
Boston, Mass

Robert A. Goldberg, MD
Los Angeles, Calif

Eve J. Higginbotham, MD
Baltimore, Md

Douglas H. Johnson, MD
Rochester, Minn

Dan B. Jones, MD
Houston, Tex

Simmons Lessell, MD
Boston, Mass

Peter J. McDonnell, MD
Los Angeles, Calif

Stephen A. Obstbaum, MD
New York, NY

Annabelle A. Okada, MD
Tokyo, Japan

Michael B. Raizman, MD
Boston, Mass

James G. Ravin, MD
Toledo, Ohio

Arthur L. Rosenbaum, MD
Los Angeles, Calif

Robert N. Weinreb, MD
La Jolla, Calif

M. Roy Wilson, MD
Omaha, Neb

CASE REPORTS AND SMALL CASE SERIES

Photorefractive Keratectomy for Correction of Epikeratophakia Regression 281
Hirsh Ami, MD; Solberg Yoram, MD, PhD; Cahana Michael, MD; Avni Isaac, MD

Iatrogenic Keratoconus: Corneal Ectasia Following Laser In Situ Keratomileusis for Myopia 282
Stephen D. McLeod, MD; Timothy A. Kislak, DO; Nicholas C. Caro, MD; Timothy T. McMahon, OD

Treatment of Conjunctival Mucosa-Associated Lymphoid Tissue Lymphoma With Intralesional Injection of Interferon Alfa-2b 284
Kevin R. Lachapelle, MD; Rajinder Rathee, MD; Vladimir Krathy, MD; David F. Dexter, MD

Spontaneous Resolution of Vitreomacular Traction Documented by Optical Coherence Tomography 286
Destry J. Sulkes; Michael S. Ip, MD; Caroline R. Bauman, MD; Helen K. Wu, MD; Carmen A. Puliafito, MD

Acute Bilateral Visual Loss Associated With Retinal Hemorrhages Following Epiduroscopy 287
Arezo Amirikia, MD; Ingrid U. Scott, MD, MPH; Timothy G. Murray, MD; Lawrence S. Halperin, MD

Capillary Hemangioma of the Optic Nerve Head and Juxtapapillary Retina 289
Monika A. Malecha, MD; Barrett G. Haik, MD; William R. Morris, MD

Sildenafil (Viagra) Associated Anterior Ischemic Optic Neuropathy 291
Robert Egan, MD; Howard Pomeranz, MD, PhD

PHOTO ESSAYS

***Mycobacterium chelonae* Infection in a Corneal Graft** 294
Sudha Sudesh, FRCOphth; Elisabeth J. Cohen, MD; Louis W. Schwartz, MD; Jonathan S. Myers, MD

Peculiar Macular Hemorrhage 296
David Sarraf, MD; Steven Schwartz, MD

Retinopathy of NARP Syndrome 298
John B. Kerrison, MD; Valerie Biousse, MD; Nancy J. Newman, MD

CORRESPONDENCE

Codons 837 and 838 in the Retinal Guanylate Cyclase Gene on Chromosome 17p: Hot Spots for Mutations in Autosomal Dominant Cone-Rod Dystrophy? 300
Maike Weigell-Weber, MD; Siv Fokstuen, MD; Béla Török, MD, PhD; Günter Niemyer, MD; Albert Schinzel, MD; Martin Hergersberg, PhD

OBITUARY

Jorge N. Buxton, MD (1921-1999) 301
Louis J. Girard, MD

BOOK AND SOFTWARE REVIEWS

Eye Pathology: An Atlas and Basic Text 302
Ralph C. Eagle, Jr, MD
Reviewed by Paul Bryar, MD

Atlas of Orbital Tumors 302
Jerry A. Shields, MD; Carol L. Shields, MD
Reviewed by Mark J. Lucarelli, MD

Corneal Disorders: Clinical Diagnosis and Management, 2nd ed 303
Howard M. Leibowitz, MD;
George O. Waring III, MD, FRCOphth
Reviewed by Frederick S. Brightbill, MD;
Monali Sakhalkar, MD

REGULAR DEPARTMENTS

50 Years Ago in the ARCHIVES 197, 205

Notice to the Authors: Submission of Manuscripts 224

Notice to the Authors of Reports From Clinical Trials 245

Notice of Intent 277

Continuing Medical Education 305

ARCHIVES CME 306

Products and Services 308

Classified Advertising 309

Index to Advertisers 312

Information for Authors—
See January 2000 issue, page 156, or visit the Web site at <http://www.archophthalmol.com>.