

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 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 18 600 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 \$175 for 1 year (12 issues) in the United States and US possessions; \$225 in the Americas; £155 outside the Americas. The institution rates for 1 year are \$325 in the United States; \$425 in the Americas; £275 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, 2441 84th St, Brooklyn, NY 11214. Phone: (718) 946-7424. Fax: (718) 946-7372. 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

Division Director: Cheryl Iverson
Department Director: Paula Glitman
Copyediting Manager:

Brenda Gregoline
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:

Erin M. Giannini
Vickey Golden

Copy Editors:

Lauren B. Fischer
Juana N. Llorens
Rachel Novickas
Cheryl L. Tobey

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

Web Copy Editor: Erin M. Giannini

Web Office Manager: Marla A. Hall

Editorial Assistant: Gemma Wall

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

Circulation Systems Manager:

Alfred Tomaselli

Circulation Specialists:

Reginald Jordan

Kathryn Osten

Circulation Development Department

Director: Bina Oza

Circulation Marketing Managers:

Vida Damijonaitis

Donna Goldman

Michael McGraw

Circulation Marketing Specialist:

Sandra Garzon

Licensing & Permissions Department

Director: Norman Frankel

Permissions: Rhonda Bailey

Production & Distribution Division

Directors: Karen Adams-Taylor,

Paul Gasiccki, 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 Steinhauer, 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, Rowena F. Dagang,

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 Timerella,

Barbara Wojtowicz,

Agnes A. Zarkadas

Advertising

Director, Advertising Sales:

Peter G. Messina

AMA Classified Advertising Department:

Thalia Moss, 800-262-2260.

Advertising Office:

J. P. Cahill & Associates,

341 S Waiola Ave,

La Grange, IL 60525

(708) 352-0322.



ARCHIVES

OF

OPHTHALMOLOGY

JUNE 2001

VOLUME 119, NUMBER 6

PAGES 801-940

CLINICAL SCIENCES

- Use of Tissue Plasminogen Activator to Revive Blebs Following Intraocular Surgery** 809
M. Fran Smith, MD; J. William Doyle, MD, PhD
- Clinical Factors Associated With Progression of Glaucomatous Optic Disc Damage in Treated Patients** 813
Gülgün Tezel, MD; Kim D. Siegmund, PhD; Kathryn Trinkaus, PhD; Martin B. Wax, MD; Michael A. Kass, MD; Allan E. Kolker, MD
- Clinical Investigation of a True Color Scanning Laser Ophthalmoscope** 819
Ayyakkannu Manivannan, PhD; Jan Van der Hoek, FRCOphth; Pedro Vieira, PhD; Allison Farrow, ABIPP; John Olson, MRCP(UK); Peter F. Sharp, PhD; John V. Forrester, MD
- Laser Burn Intensity and the Risk for Choroidal Neovascularization in the CNVPT Fellow Eye Study** 826
Richard S. Kaiser, MD; Jeffrey W. Berger, MD, PhD; Maureen G. Maguire, PhD; Allen C. Ho, MD; Noreen B. Javornik, MS; and the Choroidal Neovascularization Prevention Trial (CNVPT) Study Group
- Sclerochoroidal Calcification: Clinical Manifestations and Systemic Associations** 833
Santosh G. Honavar, MD; Carol L. Shields, MD; Hakan Demirci, MD; Jerry A. Shields, MD
- Visual Functioning and General Health Status in Patients With Uveitis** 841
Rhett M. Schiffman, MS, MHSA; Gordon Jacobsen, MS; Scott M. Whitcup, MD

LABORATORY SCIENCES

- Induction of Tyrosinase Gene Transcription in Human Iris Organ Cultures Exposed to Latanoprost** 853
James D. Lindsey, PhD; Heather L. Jones, MPH; Eleanore G. Hewitt, BA; Mila Angert, MS; Robert N. Weinreb, MD
- Endothelial Cell Hypertrophy Induced by Vascular Endothelial Growth Factor in the Retina: New Insights Into the Pathogenesis of Capillary Nonperfusion** 861
Pim Hofman, BSc; Bart C. van Blijswijk, MSc; Pieter J. Gaillard, PhD; Gijs F. J. M. Vrensen, PhD; Reinier O. Schlingemann, MD, PhD
- The Color Difference in Orbital Fat** 868
Bryan S. Sires, MD, PhD; John C. Saari, PhD; Gregory G. Garwin, BS; John S. Hurst, PhD, MSc; Frederik J. G. M. van Kuijk, MD, PhD

EPIDEMIOLOGY AND BIostatistics

- Association of Demographic, Familial, Medical, and Ocular Factors With Intraocular Pressure** 875
LeAnn M. Weih, PhD; Bickol N. Mukesh, PhD; Catherine A. McCarty, PhD; Hugh R. Taylor, MD
- Visual Risk Factors for Crash Involvement in Older Drivers With Cataract** 881
Cynthia Owsley, PhD, MSPH; Beth T. Stalvey, MPH, PhD; Jennifer Wells, LBSW, CDRS; Michael E. Sloane, PhD; Gerald McGwin, Jr, PhD

American Medical Association

Physicians dedicated to the health of America



Copyright 2001 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

Peter L. Payerli
Interim Vice President, Publishing
Publisher

Cheryl Iverson
Managing Editor

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

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

MECHANISMS OF OPHTHALMIC DISEASE

- The Wound Healing Response After Laser In Situ Keratomileusis and Photorefractive Keratectomy: Elusive Control of Biological Variability and Effect on Custom Laser Vision Correction** 889
 Steven E. Wilson, MD;
 Rahul R. Mohan, PhD;
 Jong-Wook Hong, MD;
 Jong-Soo Lee, MD;
 Rosan Choi, MD;
 Rajiv R. Mohan, PhD

EDITORIALS

- Risk Factors for Glaucoma Progression: Where Does Intraocular Pressure Fit In?** 897
 Paul Palmberg, MD, PhD
- Ethics and Human Fetal Retinal Pigment Epithelium Transplantation** 899
 Jon P. Gieser, MD

CLINICOPATHOLOGIC REPORTS, CASE REPORTS, AND SMALL CASE SERIES

- Unilateral Follicular Conjunctivitis With Retained Hair and Pseudomonal Infection** 901
 Adrian M. Laviña, MD;
 Louise A. Mawn, MD;
 Xuemo Fan, MD, PhD;
 Denis M. O'Day, MD

- Spontaneous Incomplete Avulsion of Juxtafoveal Retinal Pigment Epithelial Hamartoma** 903
 Frank G. Holz, MD; Evangelos Alexandridis, MD;
 Hans E. Völcker, MD, Stefan Dithmar, MD;
 Hans E. Grossniklaus

- Traumatic Corneal Perforation With Epithelial Ingrowth After Laser In Situ Keratomileusis** 907
 Chi-Chin Sun, MD; Shu-Wen Chang, MD;
 Ray R. F. Tsai, MD

- Retinal Detachment With a Dislocated Posterior Chamber Intraocular Lens** 909
 Brian P. Connolly, MD;
 J. Arch McNamara, MD, FRCSC;
 Gaurav K. Shah, MD;
 Caroline R. Baumal, MD, FRCSC

- Serous Macular Detachments in a Patient With IgM Paraproteinemia: An Optical Coherence Tomography Study** 911
 Anita Leys, MD, PhD;
 Peter Vandenberghe, MD, PhD

- Bilateral Retinal Hemorrhages in a Preterm Infant With Retinopathy of Prematurity Immediately Following Cardiopulmonary Resuscitation** 913
 Antonio Polito, MD;
 Kah-Guan Au Eong, MMed(Ophth), FRCS;
 Michael X. Repka, MD;
 Dante J. Pieramici, MD

ARCHIVES
OF
OPHTHALMOLOGY

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

Associate Editors:
Justin L. Gottlieb, MD
Leonard A. Levin, MD, PhD
 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, Case Reports, and Small Case Series:
W. Richard Green, MD
 Baltimore, Md

Controversies:
Andrew P. Schachar, 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:

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, MS
 Omaha, Neb

Maternal Antiphospholipid Antibodies and Vitreous Hemorrhages in the Newborn: A Case Report 914
Leon-Paul Noel, MD;
Ann S. Botash, MD;
Audrey DeSilva, MD

Exogenous Endophthalmitis Caused by Amphotericin B-Resistant *Paecilomyces lilacinus*: Treatment Options and Visual Outcomes 916
Ingrid U. Scott, MD, MPH;
Harry W. Flynn, Jr, MD;
Darlene Miller, MS, MPH;
James W. Speights, MD;
Robert C. Snip, MD;
Roy D. Brod, MD

PHOTO ESSAYS

Retinal Nerve Fiber Layer Loss After Traumatic Optic Neuropathy Detected by Scanning Laser Polarimetry 920
Felipe Andrade Medeiros, MD;
Remo Susanna, Jr, MD

Frontoethmoidal Mucoceles Causing Bilateral Chorioretinal Folds 922
David B. Leventer, MD; John V. Linberg, MD;
Brian Ellis, MD

CORRESPONDENCE

Temporary Retrobulbar Catheter for Local Anesthesia in Vitreoretinal Surgery 924
J. Fernando Arevalo, MD; Juan B. Yezpez, MD

In Reply 924
Jost B. Jonas, MD; Wido M. Budde, MD;
Michael Dinkel, MD; Thomas M. Hemmerling, MD

Iris Melanomas in Children 925
Tero Kivelä, MD

In Reply 925
Arun D. Singh, MD; Carol L. Shields, MD;
Jerry A. Shields, MD; Takami Sato, MD

The Beneficial Effect of Diclofenac Sodium in the Treatment of Filamentary Keratitis 926
Aharon Grinbaum, MD; Iftach Yassur, MD;
Isaac Avni, MD

Management of Large Filtering Blebs Without Surgery 927
Stefanos Baltatzis, MD; Panagiotis G. Theodossiadis, MD;
Panayotis Zafirakis, MD

BOOK AND SOFTWARE REVIEWS

Clinical Pathways in Glaucoma 929
Thom J. Zimmerman, MD, PhD; Karanjit S. Kooner (eds)
Reviewed by Richard K. Parrish II, MD

Anterior Segment Disease: A Diagnostic Color Atlas 929
S. Arthur Boruchoff, MD
Reviewed by Michael A. Hall, MD

The Wisdom of the Eye 930
David Miller, MD
Reviewed by Mark J. Mannis, MD

REGULAR DEPARTMENTS

Notice to Authors: Submission of Manuscripts 812

From the Archives of the ARCHIVES 824, 896, 898

ARCHIVES Web Quiz Winner 849

Notice to the Authors of Reports From Clinical Trials 871

Ophthalmological Numismatics 919

Correction 927

ARCHIVES CME 931

Continuing Medical Education 933

Products & Services 934

Classified Advertising 935

Index to Advertisers 940

Instructions for authors are available on our Web site: <http://www.archophthalmol.com>. If you do not have access to the Web, contact Laura Hayes Hoffman at (608) 262-7769.