

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 directly from AMA as well as the following aggregators: Dialog Information Services, Proquest, Ovid Technologies, Inc, Gale Research, and EBSCO.

**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 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 60610-0946, 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—**

|               | Individual Print  | Individual Print & Online  | Individual Online Only  |
|---------------|-------------------|----------------------------|-------------------------|
| US            | \$190             | \$200                      | \$150                   |
| Americas      | \$245             | \$260                      | \$195                   |
| Rest of World | £170              | £180                       | £135                    |
|               | Institution Print | Institution Print & Online | Institution Online Only |
| US            | \$355             | \$375                      | \$285                   |
| Americas      | \$465             | \$490                      | \$370                   |
| Rest of World | £300              | £315                       | £240                    |

Rates for residents and medical students available.

**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 the Americas, see below.

**SUBSCRIPTION INFORMATION—**Subscription inquiries for mailing addresses in the US and the Americas: For fastest service, direct inquiries regarding missing issues, address changes, subscription billing, subscription renewal, or back issue purchases as shown below: **AMA members:** Phone: 800-262-3211 between 8:30 AM-4:45 PM CST; Fax: 800-262-3221; E-mail: msc@ama-assn.org. **Other physicians and nonphysician customers:** Phone: 800-262-2350 or 312-670-7827 (same hours as above); Fax: 312-464-5831; E-mail: ama-subs@ama-assn.org. Mail inquiries should be directed to the Unified Service Center, American Medical Association, PO Box 10946, Chicago, IL 60610-0946. For mailing addresses outside the US and the Americas: Contact JAMA and Archives Journals, American Medical Association, Tower House, Sovereign Park, Market Harborough, Leicestershire LE15 9EF, UK. Phone: +44 (0) 1858-438880; Fax: +44 (0) 1858-434958; E-mail: ama@subscription.co.uk.

**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 Reprints 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:** Lauren B. Fischer  
Comie Manno

**Electronic Systems Managers:**

Paul Frank  
Monica Mungle  
**Systems Programmer/Internet Specialist:** J. D. Neff

**Senior Copy Editor:**

Vickey Golden

**Copy Editors:**

Juana N. Llorens  
Rachel Novickas  
Cheryl L. Tobey  
Rachel Bodzin Young

**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  
**Associate Web Editors:** Katherine Behar  
Erin M. Giannini  
**Web Office Manager:** Marla A. Hall

**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:** Karen Howes  
**Circulation Systems Manager:** Alfred Tomaselli  
**Circulation Specialists:** Reginald Jordan  
Kathryn Osten  
**Assistant Application Administrator:** Julie Burton

**Circulation Development Department**

**Director:** Bina Oza Trivedi  
**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 Gasielcki, 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 Assistant:** Kristy Kambanis  
**Production Associates and Specialists:**  
**Advertising and Production Services:** LaWanda Brown, Susan Chiara, Mary Anne Donley, Brian McCartney, 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, John Marcinek, 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 Tinerella, 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

FEBRUARY 2002 VOLUME 120, NUMBER 2 PAGES 121-256

## CLINICAL SCIENCES

- Photodynamic Therapy to Control Fibrosis in Human Glaucomatous Eyes** 130  
**After Trabeculectomy: A Clinical Pilot Study**  
*Michael Diestelhorst, MD;*  
*Salvatore Grisanti, MD*
- Identifying Live Nematodes in Diffuse Unilateral Subacute Neuroretinitis by Using the Scanning Laser Ophthalmoscope** 135  
*Lúcio R. Moraes, MD;*  
*Arnaldo P. Cialdini, MD;*  
*Marcos P. Avila, MD, PhD;*  
*Ann E. Elsner, PhD*
- Trypan Blue Staining of Epiretinal Membranes in Proliferative Vitreoretinopathy** 141  
*Eric J. Feron, MD;*  
*Marc Veckeneer, MD;*  
*Rita Parys-Van Ginderdeuren, MD;*  
*Alfons Van Lommel, PhD;*  
*Gerrit R. J. Melles, MD, PhD;*  
*Peter Stalmans, MD, PhD*
- Gyrate Atrophy of the Choroid and Retina: Further Experience With Long-term Reduction of Ornithine Levels in Children** 146  
*Muriel I. Kaiser-Kupfer, MD;*  
*Rafael C. Caruso, MD;*  
*David Valle, MD*
- Short-Wavelength Sensitivity Deficits in Patients With Migraine** 154  
*Allison M. McKendrick, PhD;*  
*George A. Cioffi, MD;*  
*Chris A. Johnson, PhD*

## LABORATORY SCIENCES

- Effects of Enzymatic Sterilization Detergents on the Corneal Endothelium** 165  
*Chirag Parikh, BA;*  
*Brian D. Sippy, MD, PhD;*  
*Daniel F. Martin, MD;*  
*Henry F. Edelhauser, PhD*
- Spatial and Temporal Processing of Threshold Data for Detection of Progressive Glaucomatous Visual Field Loss** 173  
*Paul G. D. Spry, PhD;*  
*Chris A. Johnson, PhD;*  
*Alex B. Bates;*  
*Andrew Turpin, PhD;*  
*Balwantray C. Chauhan, PhD*

## SURGICAL TECHNIQUE

- A New Technique for Repairing Descemet Membrane Detachments Using Intracameral Gas Injection** 181  
*Terry Kim, MD;*  
*Saiyid Akbar Hasan, MD*
- The Drawstring Temporary Tarsorrhaphy Technique** 187  
*John Kitchens, MD; John Kinder, MD;*  
*Thomas Oetting, MD*

## EDITORIAL

- "Who's On First?": Considering the Options for Primary Glaucoma Therapy** 191  
*Eve J. Higginbotham, MD*

**JAMA**  
&  
**ARCHIVES**  
**JOURNALS**  
American Medical Association

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

**Nawin Gupta, PhD**  
Vice President, Publishing

**Peter L. Payerli**  
Publisher

**Cheryl Iverson**  
Managing Editor

**Michael D. Maves, MD, MBA**  
Executive Vice President,  
Chief Executive Officer

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

Copyright 2002 by the American Medical Association. All rights reserved.  
Reproduction without permission is prohibited.

**SPECIAL ARTICLE**

**The Ophthalmoscope in the Lifetime of Hermann von Helmholtz** 194  
C. Richard Keeler

**CLINICOPATHOLOGIC REPORTS, CASE REPORTS, AND SMALL CASE SERIES**

**Conjunctival Papillomas Caused by Human Papillomavirus Type 33** 202  
Ronald R. Buggage, MD;  
Janine A. Smith, MD;  
Defen Shen, PhD;  
Chi-Chao Chan, MD

**Bilateral Iridociliary T-Cell Lymphoma** 204  
Claudia Yahalom, MD; Yossi Cohen, MD;  
Edward Averbukh, MD; Irene Anteby, MD;  
Gail Amir, MB, ChB; Jacob Pe'er, MD

**Pigmented Medulloepithelioma of the Ciliary Body** 207  
Jerry A. Shields, MD;  
Ralph C. Eagle, Jr, MD;  
Carol L. Shields, MD;  
Arun D. Singh, MD;  
Johane Robitaille, MD

**Endogenous *Nocardia asteroides* Endophthalmitis** 210  
Eugene W. M. Ng, MD;  
Ingrid E. Zimmer-Galler, MD;  
W. Richard Green, MD

**Neuroblastoma Within a Congenital Orbital Teratoma** 213  
David J. Wilson, MD; Roger A. Dailey, MD;  
John L. Wobig, MD; Jason W. Dimmig, BA

**Substance P, Insulinlike Growth Factor 1, and Surface Healing** 215  
Catherine H. Lee, MD; Amanda L. Whiteman, DVM;  
Christopher J. Murphy, DVM, PhD;  
Neal P. Barney, MD; Peter B. Taylor, MD;  
Ted W. Reid, PhD

**A Novel *KRIT1/CCMI* Truncating Mutation in a Patient With Cerebral and Retinal Cavernous Angiomas** 217  
Sophie Laberge-Le Couteulx, MD;  
Antoine P. Brézin, MD;  
Bertrand Fontaine, MD, PhD;  
Elisabeth Tournier-Lasserre, MD;  
Pierre Labauge, MD

**Retinal Alterations in Acquired Partial Lipodystrophy: A Case Report** 218  
Pasquale Aragona, MD, PhD;  
Paolina Quattrocchi, MD;  
Costantino J. Trombetta, MD;  
Edoardo Ferlazzo, MD;  
Rosaria Spinella, MD;  
Domenica Bonanno, MD

**Exercise-Induced Vasospastic Amaurosis Fugax** 220  
Andrea Jehn, MD; Barbara Frank Dettwiler, MD;  
Johannes Fleischhauer, MD;  
Matthias Sturzenegger, MD; Daniel S. Mojon, 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. 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:*

**Neil M. Bressler, MD**  
Iowa City, Iowa

**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

**PHOTO ESSAYS**

**Disastrous Complications Following a Bilateral, Same-Day Laser In Situ Keratomileusis (LASIK) Procedure** 226  
*Sylvie M. Velou, MD;*  
*Joseph Colin, MD*

**Complications of Miragel: Pseudotumor** 228  
*Robert A. Braunstein, MD, MBA;*  
*Marc Winnick, MD*

**CORRESPONDENCE**

**Retinal Detachment and Culture-Proven Bacterial Endophthalmitis in the EVS** 230  
*Robert W. Enzenauer, MD, MPH;*  
*Michael Biderman, PhD*

**In Reply** 230  
*Bernard H. Doft, MD;*  
*Sheryl F. Kelsey, PhD;*  
*Stephen R. Wisniewski, PhD;*  
*Michael Barza, MD*

**Diabetes and the EVS: A Different Interpretation of the Results** 231  
*Robert W. Enzenauer, MD, MPH*

**In Reply** 232  
*Sheryl F. Kelsey, PhD;*  
*Bernard H. Doft, MD;*  
*Stephen R. Wisniewski, PhD;*  
*Shirley Groer-Fitzgerald, PhD*

**The Post-Endophthalmitis Vitrectomy Study Era** 233  
*Marlene L. Durand, MD*

**Republication of Color Figures** 234  
*Nicholas Dushku, MD;*  
*Molykutty K. John, PhD;*  
*Gregory S. Schultz, PhD;*  
*Ted W. Reid, PhD*

**BOOK AND SOFTWARE REVIEWS**

**Clinical Glaucoma Management: Critical Signs in Diagnosis and Therapy** 238  
*Ronald L. Gross, MD (ed)*  
*Reviewed by James C. Robinson, MD*

**Vitreoretinal Surgical Techniques** 238  
*Gholam A. Peyman, MD; Stephen A. Meffert, MD;*  
*Mandi D. Conway, MD; Famin Chou, MD (eds)*  
*Reviewed by Lars Freisberg, MD*

**Colour Atlas of Ophthalmic Plastic Surgery, 2nd ed** 239  
*A. G. Tyers, FRCS, FRCOphth;*  
*J. R. O. Collin, MA, FRCS, FRCOphth*  
*Reviewed by Mark J. Lucarelli, MD*

**OBITUARIES**

**Albert M. Potts, MD, PhD (1914-2001)** 240  
*Steven Kramer, MD, PhD*

**Oliver H. Dabezies, Jr, MD (1930-2001)** 242  
*Thomas C. Naugle, Jr, MD; Barrett G. Haik, MD*

**REGULAR DEPARTMENTS**

**ARCHIVES Web Quiz Winner** 144

**Notice to the Authors of Reports From Clinical Trials** 172

**Correction** 180

**Notice to Authors: Submission of Manuscripts** 183

**Fractal Fundus** 190

**Ophthalmological Numismatics** 193, 246

**In Other Journals** 201

**100 Years Ago in the ARCHIVES** 241

**ARCHIVES CME** 243

**Continuing Medical Education** 245

**Products & Services** 249

**Classified Advertising** 250

**Index to Advertisers** 256

**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.**