

# ARCHIVES

OF

# OPHTHALMOLOGY

VOL 115 NO. 11, NOVEMBER 1997

## CLINICAL SCIENCES

### Impression Cytology Study of Epithelial Phenotype of Ocular Surface Reconstructed by Preserved Human Amniotic Membrane

Pinnita Prabhasawat, MD;  
Scheffer C. G. Tseng, MD, PhD

1360

### Comparison of Dorzolamide and Timolol as Suppressors of Aqueous Humor Flow in Humans

Laura Wayman, MS; Lill-Inger Larsson, MD;  
Todd Maus, MD; Albert Alm, MD, PhD;  
Richard Brubaker, MD

1368

### Temporal Corneal Phacoemulsification in Patients With Filtered Glaucoma

Hyun Joon Park, MD;  
Young Ha Kwon, MD, PhD;  
Marc Weitzman, MD;  
Joseph Caprioli, MD

1375

### Macular Hole Opercula: Ultrastructural Features and Clinicopathological Correlation

Eric Ezra, FRCS, FRCOphth;  
Peter M. G. Munro, PhD;  
David G. Charteris, FRCS, FRCOphth;  
William G. Aylward, FRCS, FRCOphth;  
Philip J. Luthert, MRCPath;  
Zdenek J. Gregor, FRCS, FRCOphth

1381

### Ganciclovir Implant Exchange: Timing, Surgical Procedure, and Complications

Daniel F. Martin, MD; Frederick L. Ferris, MD;  
David J. Parks, MD; R. Christopher Walton, MD;  
Susan D. Mellow, RN; Deborah Gibbs, COMT;  
Nancy A. Remaley, MS; Paul Ashton, PhD;  
Matthew D. Davis, MD; Chi-Chao Chan, MD;  
Robert B. Nussenblatt, MD

1389

### Histopathologic Study of Eyes After Iodine I 125 Episcleral Plaque Irradiation for Uveal Melanoma

Maria A. Saornil, MD; Marian R. Fisher, PhD;  
R. Jean Campbell, MD; Dennis M. Robertson, MD;  
John D. Earle, MD; Ralph C. Eagle, Jr, MD;  
Jerry A. Shields, MD; Carol L. Shields, MD;  
Suresh R. Chandra, MD; Daniel M. Albert, MD

1395

### Nonarteritic Anterior Ischemic Optic Neuropathy: A Case-Control Study of Potential Risk Factors

Daniel M. Jacobson, MD; Robert A. Vierkant, MAS;  
Edward A. Belongia, MD

1403

### Does Optic Disc Appearance Distinguish Ischemic Optic Neuropathy From Optic Neuritis?

Judith E. A. Warner, MD; Simmons Lessell, MD;  
Joseph F. Rizzo III, MD; Nancy J. Newman, MD

1408

### Botulinum Toxin Management of Essential Infantile Esotropia in Children

Keith W. McNeer, MD; Mary G. Tucker, MD;  
Robert F. Spencer, PhD

1411

## American Medical Association

Physicians dedicated to the health of America



Copyright 1997 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.

**P. John Seward, MD**  
Executive Vice President

**Lynn Jensen, PhD**  
Acting Chief Operating Officer

**George D. Lundberg, MD**  
Editor in Chief, Scientific  
Information and Multimedia

**Robert L. Kennett**  
Vice President, Publishing

**Peter L. Payerli**  
Publisher

**Vanessa Hayden**  
Director, Production &  
Distribution Division

**Cheryl Iverson**  
Director, Editorial Processing  
Division

**Geoffrey A. Flick**  
Manager, Marketing Services

**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.

**LABORATORY SCIENCES**

- Serum Sulfotransferase Levels in Patients With Macular Corneal Dystrophy Type I** 1419  
John R. Hassell, PhD; Gordon K. Klintworth, MD, PhD

- A Comparison of Retinal Morphology Viewed by Optical Coherence Tomography and by Light Microscopy** 1425  
Cynthia A. Toth, MD; Drew G. Narayan; Stephen A. Boppart, MSEE; Michael R. Hee, MSEE; Jim G. Fujimoto, PhD; Reginald Birngruber, PhD; Clarence P. Cain, PhD; Cheryl D. DiCarlo, DVM; W. Patrick Roach, PhD

**OPHTHALMIC MOLECULAR GENETICS**

- X-linked Retinitis Pigmentosa Associated With a 2-Base Pair Insertion in Codon 99 of the RP3 Gene RPGR** 1429  
Richard G. Weleber, MD; Noah S. Butler; William H. Murphey, PhD; Val C. Sheffield, MD, PhD; Edwin M. Stone, MD, PhD

**EPIDEMIOLOGY AND BIostatISTICS**

- Incidence of Acute Primary Angle-closure Glaucoma in Singapore: An Island-Wide Survey** 1436  
Steve K. L. Seah, FRCSG, MMed; Paul J. Foster, FRCSEd; Paul T. K. Chew, FRCSEd, MMed; Aliza Jap, FRCSG; Francis Oen, FRCSEd, MMed; Han Bor Fam, FRCSEd; Arthur S. M. Lim, FRCS

- Cataract Extraction Rates in Olmsted County, Minnesota, 1980 Through 1994** 1441  
Keith H. Baratz, MD; Darryl T. Gray, MD, ScD; David O. Hodge, MS; Linda C. Butterfield, MD; Duane M. Ilstrup, MS

**SOCIOECONOMICS OF OPHTHALMOLOGY**

- Visual Function and Quality of Life Among Patients With Glaucoma** 1447  
Richard K. Parrish II, MD; Steven J. Gedde, MD; Ingrid U. Scott, MD, MPH; William J. Feuer, MS; Joyce C. Schiffman, MS; Carol M. Mangione, MD, MSPH; Alejandra Montenegro-Piniella, MD

**SPECIAL ARTICLE**

- 150 Years Since Babbage's Ophthalmoscope** 1456  
C. Richard Keeler

**EDITORIAL**

- Botulinum Toxin Management of Essential Infantile Esotropia in Children** 1458  
Burton J. Kushner, MD

**CLINICOPATHOLOGIC REPORTS**

- Scanning Slit Confocal Microscopy of Fungal Keratitis** 1461  
George J. Florakis, MD; Golnaz Moazami, MD; Hermann Schubert, MD; Charles J. Koester, PhD; James D. Auran, MD

# ARCHIVES

OF

## OPHTHALMOLOGY

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

**Associate Editors:**  
Richard E. Appen, MD  
Madison, Wis  
Leonard A. Levin, MD, PhD  
Madison, Wis

**Manager, Editorial Operations:**  
Eleanor Albert, MA  
Madison, Wis

**Assistant Manager, Editorial Operations:**  
Laura Hayes Hoffman  
Madison, Wis

**Ophthalmic Molecular Genetics:**  
Edwin M. Stone, MD, PhD  
Iowa City, Iowa  
**Socioeconomics of Ophthalmology:**  
Eric B. Bass, MD, MPH  
Baltimore, Md  
Jonathan C. Javitt, MD, MPH  
Washington, DC

**Paul P. Lee, MD**  
Los Angeles, Calif  
**Clinicopathologic Reports:**  
W. Richard Green, MD  
Baltimore, Md

**Controversies:**  
Andrew P. Schachal, MD  
Baltimore, Md  
**Photo Essays:**  
Elisabeth J. Cohen, MD  
Philadelphia, Pa

**The Archives Attends:**  
Robin D. Ross, MD  
Royal Oak, Mich

**Book and Software Reviews:**  
Thomas A. Farrell, MD  
Madison, Wis  
**Online Editors:**  
Jon P. Gieser, MD  
Stephen D. McLeod, MD

**Editorial Board:**  
Eduardo C. Alfonso, MD  
Miami, Fla  
Neil M. Bressler, MD  
Baltimore, Md  
Matthew D. Davis, MD  
Madison, Wis  
Monte A. Del Monte, MD  
Ann Arbor, Mich  
Thaddeus P. Dryja, MD  
Boston, Mass  
David A. Durfee, MD  
Oregon City, Ore  
Robert A. Goldberg, MD  
Los Angeles, Calif

Barbara S. Hawkins, PhD  
Baltimore, Md  
Eve J. Higginbotham, MD  
Baltimore, Md  
Douglas H. Johnson, MD  
Rochester, Minn  
Dan B. Jones, MD  
Houston, Tex  
Simmons Lessell, MD  
Boston, Mass  
Charles E. Letocha, MD  
York, Pa  
Peter J. McDonnell, MD  
Los Angeles, Calif  
William F. Mieler, MD  
Milwaukee, Wis  
Stephen A. Obstbaum, MD  
New York, NY  
Annabelle A. Okada, MD  
Tokyo, Japan  
Michael B. Raizman, MD  
Boston, Mass  
Arthur L. Rosenbaum, MD  
Los Angeles, Calif  
Robert N. Weinreb, MD  
La Jolla, Calif

**Non-Hodgkin Lymphoma and Kaposi Sarcoma in an Eyelid of a Patient With Acquired Immunodeficiency Syndrome: Multiple Viruses in Pathogenesis** 1464  
*Murat Tunc, MD; Martha L. Simmons, MD, PhD; Devron H. Char, MD; Brian Herndier, MD, PhD*

**A Case of Erdheim-Chester Disease With Orbital Involvement** 1467  
*Christophe Valmaggia, MD; Jörg Neuweiler, MD; Christian Fretz, MD; Irene Gottlob, MD*

### CASE REPORTS AND SMALL CASE SERIES

**Fluctuating Vision in Best Disease** 1469  
*Donald W. Park, MD; Timothy D. Polk, MD; Edwin M. Stone, MD, PhD*

**Acute Histoplasmosis Choroiditis in 2 Immunocompetent Brothers** 1470  
*Bradley J. Katz, MD, PhD; William E. Scott, MD; James C. Folk, MD*

**Bilateral Endophthalmitis as an Initial Presentation in Meningococcal Meningitis** 1472  
*Thomas Barnard, MD; Arup Das, MD, PhD; Sheila Hickey, MD*

**Protracted Postsurgical Blindness With Visual Recovery Following Optic Nerve Sheath Fenestration** 1473  
*Michael C. Brodsky, MD; Garrick A. Rettele, MD*

### NEW INSTRUMENT

**Orbital Cup: A Device to Facilitate Ultrasound Biomicroscopic Examination of Pars Plana and Peripheral Retina** 1475  
*Julian Garcia-Feijoo, MD; Jose M. Benitez del Castillo, MD; Mario Martin-Carbajo, MD; Julian Garcia-Sanchez, MD*

### PHOTO ESSAYS

**Unilateral Pigment Dispersion and Glaucoma Caused by Angle Recession** 1478  
*J. Kevin McKinney, MD, MPH; Wallace L. M. Alward, MD*

**Iris Ring Melanoma Masquerading as Pigmentary Glaucoma** 1480  
*Iftikhar M. Chaudhry, MD; Marlene R. Moster, MD; James J. Augsburger, MD*

**Lacrimal Gland Choristoma of the Ciliary Body** 1482  
*Steven A. Rowley, FRCOphth; Wojciech S. S. Karwatowski, FRCOphth*

### CORRESPONDENCE

**Medical Ethics and the Excimer Laser** 1484  
*John E. Sutphin, MD*

**In Reply** 1484  
*Samuel Packer, MD*

**'Managed' Care Somewhat 'Mangled'?** 1484  
*Richard L. Elliott, MD*

**In Reply** 1484  
*Paul Lee, MD, JD; Steve Asch, MD, MPH; Caroline L. Goldzweig, MD*

### BOOK AND SOFTWARE REVIEWS

**Uveitis: Fundamentals and Clinical Practice** 1485  
*Robert B. Nussenblatt, MD; Scott M. Whitcup, MD; Alan G. Palestine, MD*  
*Reviewed by C. Joseph Anderson, MD*

**Posterior Uveitis: Diagnosis and Management** 1485  
*Khalid F. Tabbara, MD; Robert B. Nussenblatt, MD*  
*Reviewed by Neal P. Barney, MD*

### REGULAR DEPARTMENTS

**Notes From Our Ophthalmic Heritage** 1371, 1400, 1466, 1476, 1486

**Continuing Medical Education** 1487

**Products & Services** 1488

**Classified Advertising** 1489

**Index to Advertisers** 1496

**Instructions for Authors—**  
 See July 1997 issue, page 950 or visit the Web site at [www.ama-assn.org](http://www.ama-assn.org).