

Continuing the Publication  
Founded by Herman Knapp, 1869

The objectives and goals of the *Archives of Ophthalmology* are education: To inform its readers of progress, problems, and pertinent research in the practice of ophthalmology through the publication of original contributions and observations.

## CLINICAL SCIENCES

- Conjunctival Eosinophils in Allergic Ocular Disease**  
*Mark B. Abelson, MD; Nalini Madiwale, MB, BS; Judith H. Weston, Boston*..... 555
- Increased Tear Evaporation in Eyes With Keratoconjunctivitis Sicca**  
*Maurizio Rolando, MD; Miguel F. Refojo, DSc; Kenneth R. Kenyon, MD, Boston*..... 557
- Determination of Angiotensin-Converting Enzyme Activity in Tears**  
*Om P. Sharma, MD, Los Angeles, Joao Brasil Vita, MD, Irvine, Calif*..... 559
- Particulate Contamination in Disposable Corneal Trephines**  
*George J. Pardos, MD, New York, David W. Meltzer, MD, PhD, St Louis*..... 562
- Photoreceptor Degeneration**  
*John L. Keltner, MD; Alan M. Roth, MD; R. Shihman Chang, MD, DSc, Davis, Calif* ..... 564
- Removal of Scleral Buckling Elements**  
*Peggy S. Lindsey, MD; L. Harrell Pierce, MD; Robert B. Welch, MD, Baltimore* ..... 570
- Vitreous Fluorophotometry in Congenital Stationary Nightblindness**  
*Yozo Miyake, MD; Shu Gto, MD; Fumitaka Ando, MD; Hiroshi Ichikawa, MD, Nagoya, Japan*..... 574
- Fundus Changes in Acute Malnutritional Optic Neuropathy**  
*Lars Frisén, MD, Göteborg, Sweden* ..... 577
- The Eye in Bone Marrow Transplantation**
- I. Clinical Study**  
*Lawrence W. Hirst, MD; Douglas A. Jabs, MD; Peter J. Tutschka, MD; W. Richard Green, MD; George W. Santos, MD, Baltimore*..... 580
- II. Histopathology**  
*Douglas A. Jabs, MD; Lawrence W. Hirst, MD; W. Richard Green, MD; Peter J. Tutschka, MD; George W. Santos, MD; William E. Beschorner, MD, Baltimore* ..... 585
- Multiple-Drop Study of Topically Applied 1%  $\Delta^8$ -Tetrahydrocannabinol in Human Eyes**  
*Walter M. Jay, MD, Keith Green, PhD, Augusta, Ga*..... 591
- Congenital Glaucoma and Other Ocular Abnormalities Associated With Pericentric Inversion of Chromosome 11**  
*Warren L. Broughton, MD, Bethesda, Md; Kenneth N. Rosenbaum, MD, George R. Beauchamp, MD, Washington, DC*..... 594
- Choroidal Folds and Refractive Errors Associated With Orbital Tumors**  
*Thomas R. Friberg, MD, Augusta, Ga, Arthur S. Grove, Jr, MD, Boston*..... 598
- Rapid Decompression of Anterior Intracranial Visual Pathways With Bromocriptine**  
*Baird S. Grimson, MD, Zebulon L. Bowman, MD, Chapel Hill, NC*..... 604
- Benign Recurrent Sixth Nerve Palsies in Childhood**  
*David B. Werner, MD, State College, Pa; Peter J. Savino, MD, Norman J. Schatz, MD, Philadelphia* ..... 607
- Relationship of Heterophoria to Stereopsis**  
*Sara Shippman, CO, Kenneth R. Cohen, MD, New York*..... 609

Contents continued on page 512

## EDITORIAL BOARD

**Frederick C. Blodi**

Chief Editor

330 Ferson Ave

Iowa City, IA 52240

**Richard F. Brubaker**, Rochester, Minn

**H. Mackenzie Freeman**, Boston

**J. Donald M. Gass**, Miami

**Joel S. Glaser**, Miami

**Morton F. Goldberg**, Chicago

**William F. Hughes**, Lincolnshire, Ill

**Peter R. Laibson**, Philadelphia

**Robert D. Reinecke**, Philadelphia

**Melvin L. Rubin**, Gainesville, Fla

**Daniel Seigel**, Bethesda, Md

**William H. Spencer**, San Francisco

**James H. Sammons, MD**, Executive Vice-President

**Thomas F. Hannon**, Deputy Executive Vice-President, Corporate, Publishing and Management Services

**George D. Lundberg, MD**, Vice-President, Scientific Information

**John T. Baker**, Vice-President, Publishing

**Norman D. Richey**, Director, Publication Production and Printing Division

**Joseph Dennehy**, General Sales Manager; Director, Advertising Sales and Promotion Services Division

**Lee A. Parent**, Director, Circulation-Fulfillment Division

**SUBSCRIPTION RATES**—The subscription rates for the ARCHIVES OF OPHTHALMOLOGY are as follows: for members of the AMA, \$1.50 included in the annual membership dues; for nonmembers, \$30 for one year, \$56 for two years in the United States and US possessions; all other countries, one year, \$40; two years, \$76 (add \$10 surcharge to each one-year subscription, \$20 for two years for air delivery to the United Kingdom and Europe only). Special yearly rates to residents and medical students in the United States and US possessions, one year, \$15; two years, \$28. Address all subscription communication to American Medical Association, Circulation and Fulfillment Division, 535 N Dearborn St, Chicago, IL 60610. Phone: (312) 751-6079.

**CHANGE OF ADDRESS**—POSTMASTER: send address changes to Caryl L. Wertheimer, Director of Fulfillment, 535 N Dearborn St, Chicago, IL 60610. Notification of address change must be made at least six weeks in advance, including both old and new addresses, and a mailing label taken from the most recent copy. Include your new zip code number.

**CLINICOPATHOLOGIC CASE REPORTS**

**Epithelial Inclusion Cysts Following Radial Keratotomy**  
*James V. Jester, PhD; Richard A. Villasenor, MD;*  
*Janet Miyashiro, Los Angeles.....* 611

**Posterior Keratoconus Associated With Systemic Abnormalities**  
*Barbara W. Streeten, MD; Alice G. Karpik, MD;*  
*Kenneth H. Spitzer, MD, Syracuse, NY.....* 616

**SURGICAL TECHNIQUE**

**Motorized Teleguided Stereotactic Micromanipulator for Vitreous Microsurgery**  
*Manfred Spitznas, MD, Los Angeles.....* 623

**LABORATORY SCIENCES**

**Conjunctival Eosinophils in Compound 48/80 Rabbit Model**  
*Mark B. Abelson, MD, Boston; Ira J. Udell, MD, New Hyde Park, NY;*  
*Judith H. Weston, Boston.....* 631

**Quantitation of Tear Lysozyme Levels in Dry-Eye Disorders**  
*Vincent P. deLuise, MD, Khalid F. Tabbara, MD, San Francisco.....* 634

**Effect of Epinephrine on Po<sub>2</sub> in Anterior Chamber**  
*Einar Stefansson, MD, PhD; David Robinson; Myron L. Wolbarsht, PhD;*  
*Maurice B. Landers III, MD; Arthur Walsh, Durham, NC.....* 636

**Effects of Prednisolone and Medroxyprogesterone on Corneal Wound Healing, Ulceration, and Neovascularization**  
*Kathleen Phillips, MD; Robert Arffa, MD; Charles Cintron, PhD; Jeannette Rose;*  
*David Miller, MD; Claire L. Kublin; Kenneth R. Kenyon, MD, Boston.....* 640

**Effect of Topical Antibiotic Solutions on Corneal Epithelial Wound Healing**  
*George A. Stern, MD; Gary B. Schemmer, MD; Richard D. Farber, MD;*  
*Mark S. Gorovoy, MD, Gainesville, Fla.....* 644

**NEW INSTRUMENTS**

**Dual Delivery System for Argon Laser Photocoagulation**  
*Katsuyoshi Mizuno, MD, Yoichi Takaku, MD, Sendai, Japan.....* 648

**Split-Frame Stereoscopy**  
*Jean-Marie Parel, Ing, ETS-G; Frederick G. Karrenberg, MS;*  
*David B. Denham, MS; Edward W. D. Norton, MD, Miami.....* 653

**REGULAR DEPARTMENTS**

**Books.....** 658

**Correspondence.....** 665

**Calendar of Events.....** 675

**News and Comment.....** 675

**Instructions for Authors.....** 514

**Index to Advertisers.....** 679

**PUBLICATION STAFF**  
 535 N Dearborn St  
 Chicago, IL 60610

**Gabriela Radulescu**  
 Managing Editor and  
 Director, Specialty Journal Department

**Michael D. Springer**  
 Assistant Editor

**Mariene M. Hinsch**  
 Production Manager

**John R. Sayban**  
 Assistant Production Manager

**Cheryl Iverson**  
 Editorial Processing Manager

**Paula Glitman**  
 Assistant Editorial Processing Manager

**James M. Martens**  
 Reprints and Permissions

**Copy Editing:** Robin Fitzpatrick (Supervisor), Barbara Long (Free-lance Coordinator), Vickey Golden, Meg Reynolds, Helen Valenta

**Production Supervisors:** Betty Frigerio (Advertising), Thomas J. Handrigan (Illustrations), Elizabeth Petrikenas (Proofreading), Bonnie Van Cleven (Editorial), JoAnne Weiskopf (Layout)

**Proofreading:** Verna Coffman, Patricia Coyne, Winifred O'Reilly, Lisette Sabbach

**Art and Senior Production Assistants:** Karen Branham, Diane Duke, Donna Hagler, Susan Klein, Denise Minkler, Marilyn Moroney, Terese Noto, Susan Routhier, Janice Techter, Sandra Williams, Ellen Yoshihara

**Production Assistants:** Debra Lucas, Zack Price, Kathleen Sistek

**Manuscript Records:** Velma Adams

**Editorial Assistant:** Joan Domkowski

**Indexing:** Phyllis H. McLaren (Supervisor), Jane P. Bouterse, Mary Kay Tinerella

Please address correspondence concerning accepted or published communications to: AMA Specialty Journals, 535 N Dearborn St, Chicago, IL 60610.

**ADVERTISING OFFICES: Eastern:** 600 Third Ave, Suite 700, New York, NY 10016 (**Manager:** Robert C. Corcoran [212-867-6640]; **Representatives:** Phillip B. Altamore, John L. Reeves); **Midwest/Farwest:** 535 N Dearborn St, Chicago, IL 60610 (**Manager:** Thomas J. Carroll [312-751-6752]; **Representatives:** Eric K. Larsen, Alice M. Harvey)

**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 ARCHIVES OF OPHTHALMOLOGY** (ISSN 0003-9950) is published monthly by the American Medical Association and is an official publication of the Association. Second-class postage paid at Chicago, Illinois, and at additional mailing office.