

# AMERICAN JOURNAL OF OPHTHALMOLOGY®

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### EDITORIAL

- xiii The American Board of Ophthalmology, the *American Journal of Ophthalmology*, and Edward Jackson. George B. Bartley

### PERSPECTIVE

- xviii Preschool vision screening: Where we have been and where we are going. Evan Silverstein and Sean P. Donahue  
Amblyopia is a serious and important public health problem. The US Preventative Services Task Force, American Association of Pediatric Ophthalmology and Strabismus, American Academy of Ophthalmology, and American Academy of Pediatrics recommend vision screening for amblyopia and amblyopia risk factors in preschool children. This paper discusses the evolution of vision screening devices from Polaroid photoscreeners to binocular retinal polarization scanning technology.

### LANDMARK REPRINT

- xxiv The nature of retinoblastoma. I. photoreceptor differentiation: A clinical and histopathologic study. Mark O.M. Ts'o, Lorenz E. Zimmerman, and Ben S. Fine

### ORIGINAL ARTICLES

- 1 Endophthalmitis rates after bilateral same-day intravitreal anti-vascular endothelial growth factor

**injections.** Durga S. Borkar, Anthony Obeid, Daniel C. Su, Philip P. Storey, Xinxiao Gao, Carl D. Regillo, Richard S. Kaiser, Sunir J. Garg, and Jason Hsu, for the Wills Post Injection Endophthalmitis (PIE) Study Group

The rate of presumed infectious endophthalmitis after bilateral same-day intravitreal anti-vascular endothelial growth factor injection was 0.027%, or approximately 1 in 3700 injections, which is near the lower end of the range noted in prior studies of postinjection endophthalmitis. There were no cases of bilateral endophthalmitis, and no patients had more than 1 occurrence of endophthalmitis during the study period. This study provides key information about an increasingly common practice pattern.

- 7 Randomized, controlled, phase 2 trial of povidone-iodine/dexamethasone ophthalmic suspension for treatment of adenoviral conjunctivitis. Jay S. Pepose, Arjun Ahuja, Wenlei Liu, Abhijit Narvekar, and Reza Haque

In this randomized controlled trial, adults with acute adenoviral conjunctivitis were randomized to an ophthalmic suspension of povidone-iodine 0.6% and dexamethasone 0.1%, povidone-iodine 0.6%, or vehicle, and evaluated for 12-13 days (treatment was for 5 days). Povidone-iodine/dexamethasone appeared safe/well tolerated and, compared with vehicle, significantly improved clinical resolution by the day 6 visit and adenoviral eradication by the day 3 visit. These findings suggest that PVP-I 0.6%/dexamethasone 0.1% may shorten the course of acute adenoviral conjunctivitis.

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- **16 Elastin content and distribution in endothelial keratoplasty tissue determines direction of scrolling.** *Imran Mohammed, Andrew R. Ross, John O. Britton, Dalia G. Said, and Harminder S. Dua*

Elastin is evenly distributed through the pre-Descemet layer (PDL) but concentrated as a band in the anterior part of the Descemet membrane. This explains why endothelial keratoplasty tissues always scroll with the endothelium outside. PDL contains more elastin than any other part of the cornea.

- **26 Optical coherence tomography angiography quantitative assessment of choriocapillaris blood flow in central serous chorioretinopathy.** *Cédric Rochepeau, Laurent Kodjikian, Max-Adrien Garcia, Charlotte Coulon, Carole Burillon, Philippe Denis, Benoît Delaunay, and Thibaud Mathis*

Choriocapillaris hypoperfusion was demonstrated using optical coherence tomography angiography in patients with acute, recurrent, and persistent subtypes of central serous chorioretinopathy. These microvascular changes were found in the affected eyes as well as in the unaffected fellow eyes of the patients. Choriocapillaris flow deficits were positively correlated with age and negatively correlated with the spontaneous resolution of serous retinal detachment. These findings may contribute to improving our understanding of the disease and other pachychoroid disorders.

- **35 Optical coherence tomography angiography in intermediate uveitis.** *Maximilian W.M. Wintergerst, Maximilian Pfau, Philipp L. Müller, Moritz Berger, Luis de Sisternes, Frank G. Holz, and Robert P. Finger*

In this observational case-control study, eyes with intermediate uveitis and age-matched controls were imaged with swept-source optical coherence tomography angiography. Superficial and deep retinal layers were analyzed for vascular density and complexity and the choriocapillaris

for alterations in heterogeneity of perfusion. Reduced vascular density and complexity in retinal layers and altered choriocapillaris perfusion were present. These results may aid in the diagnosis as well as the monitoring of intermediate uveitis.

- **46 Use of machine learning on contact lens sensor-derived parameters for the diagnosis of primary open-angle glaucoma.** *Keith R. Martin, Kaweh Mansouri, Robert N. Weinreb, Robert Wasilewicz, Christophe Gisler, Jean Hennebert, and Dominique Genoud, for the Research Consortium*

This article shows that contact lens sensor (CLS)-based 24-hour profiles of ocular volume changes contain information complementary to intraocular pressure to discriminate between primary open-angle glaucoma (POAG) and healthy eyes. It reports the first results presenting the CLS parameters as potentially additional and novel risk factors for predicting the onset and progression of POAG.

- **54 A mobile phone informational reminder to improve eye care adherence among diabetic patients in rural China: A randomized controlled trial.** *Tingting Chen, Wenhui Zhu, Bobby Tang, Ling Jin, Haoxiang Fu, Yuqun Chen, Congyao Wang, Guoshan Zhang, Jun Wang, Tiantian Ye, Di Xiao, Janardhan Vignarajan, Baixiang Xiao, Yogessan Kanagasingam, and Nathan Congdon*

This trial randomly allocated 233 consecutive patients with diabetes 1:1 to receive automated Short Message Service reminders containing information about diabetic retinopathy 1 week and 3 days prior to scheduled eye appointments (Intervention) or to appointments without reminders (Control). Low-cost Short Message Service informational reminders significantly improved adherence to, knowledge about, and satisfaction with care.

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