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### Original Articles



**Global Prevalence of Presbyopia and Vision Impairment from  
Uncorrected Presbyopia: Systematic Review, Meta-analysis, and  
Modelling** 1492

*Timothy R. Fricke, MSc, Nina Tahhan, PhD, Serge Resnikoff, MD, Eric Papas, PhD,  
Anthea Burnett, PhD, Suit May Ho, PhD, Thomas Naduvilath, PhD, Kovin S. Naidoo, PhD*

An estimated 826 million people experienced vision impairment because of uncorrected  
presbyopia in 2015. Although presbyopia prevalence is higher in more developed countries,  
unmet spectacle need concentrates in rural areas of less developed countries.

(Continued)

**On the cover:** "Retinal Ischemia and Neovascularization in the Context of Anti-phospholipid Syndrome" Submitted by Christiaan Lopez Miro (Photographer), Swarup S. Swaminathan, MD, Stephen Moster, MD, and Jayanth Sridhar, MD (Bascom Palmer Eye Institute). Equipment: Optos ultra-widefield 200Tx.



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### **Effects of Prolonged Reading on Dry Eye** 1500

Sezen Karakus, MD, Devika Agrawal, BS, Holly B. Hindman, MD, MPH,  
Claudia Henrich, MD, Pradeep Y. Ramulu, MD, PhD, Esen K. Akpek, MD

Prolonged silent reading causes measurable alterations on the ocular surface, particularly in patients with dry eye. Assessing dry eye at rest may miss clinical findings brought about by common everyday tasks such as reading.

### **Commentary: Dry Eye Disease: Time to Introduce Ocular Surface Stress Tests?** 1506

Saaeha Rauz, PhD, FRCOphth



### **Five-Year Graft Survival of Descemet Membrane Endothelial Keratoplasty (EK) versus Descemet Stripping EK and the Effect of Donor Sex Matching** 1508

David A. Price, BS, Meagan Kelley, BS, Francis W. Price, Jr., MD, Marianne O. Price, PhD

Although Descemet membrane endothelial keratoplasty (DMEK) had a significantly lower rejection episode rate, the 5-year graft survival rates were equivalent with DMEK and Descemet stripping endothelial keratoplasty and not influenced by donor/recipient sex match.

### **Patterns of Progressive Ganglion Cell–Inner Plexiform Layer Thinning in Glaucoma Detected by OCT** 1515

Joong Won Shin, MD, Kyung Rim Sung, MD, PhD, Sun-Won Park, MD, PhD

Progressive ganglion cell layer thinning detected by OCT has distinct patterns (i.e., widening, deepening, and new development), frequently involves the inferotemporal macula, and spreads toward the fovea and optic disc in glaucoma.



### **Systemic and Ocular Determinants of Peripapillary Retinal Nerve Fiber Layer Thickness Measurements in the European Eye Epidemiology (E3) Population** 1526

Matthias M. Mausitz, MD, Pieter W.M. Bonnemaijer, MD, Kersten Diers, MSc,  
Franziska G. Rauscher, PhD, Tobias Elze, PhD, Christoph Engel, MD, PhD,  
Markus Loeffler, MD, PhD, Johanna Maria Colijn, MD, MSc, M. Arfan Ikram, MD, PhD,  
Johannes R. Vingerling, MD, PhD, Katie M. Williams, MD, PhD,  
Christopher J. Hammond, MD, PhD, Catherine Creuzot-Garcher, MD, PhD,  
Alain M. Bron, MD, PhD, Rufino Silva, MD, PhD, Sandrina Nunes, PhD,  
Cécile Delcourt, PhD, Audrey Cougnard-Grégoire, PhD, Frank G. Holz, MD,  
Caroline C.W. Klaver, MD, PhD, Monique M.B. Breteler, MD, PhD,  
Robert P. Finger, MD, PhD, on behalf of the European Eye Epidemiology (E3) Consortium

In addition to the impact of age, intraocular pressure, and refraction on peripapillary retinal nerve fiber layer thickness (pRNFLT), we found that systemic and neurovascular diseases were associated with reduced pRNFLT in a large pooled European population.

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