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When matched for specificity, the rule of 5 detects a significantly lower proportion of glaucoma eyes as exhibiting progression on OCT compared to trend-based analysis.

Effects of Netarsudil on the Corneal Endothelium: Three-Month Findings from a Phase 3 Trial 421
Thomas Mundorf, MD, Francis Mah, MD, Huan Sheng, MD, PhD, Theresa Heah, MD

Analysis of data from a 3-month phase 3 clinical trial of netarsudil 0.02% in eyes with ocular hypertension or open-angle glaucoma found no clinically significant effects on corneal endothelial cell density or morphology.

(Continued)

On the cover: “Optic Nerve Drusen” by Meghan Menzel, CRA (University of Iowa Hospitals and Clinics, Iowa City, IA). It was the second place winner in the Color Fundus 20°-30° division at the Ophthalmic Photographers’ Society 2019 Scientific Exhibition (www.opsweb.org). Equipment: Topcon 50DX.
Can Psychologic Stress Elevate Intraocular Pressure in Healthy Individuals?
Ricardo Y. Abe, MD, PhD, Thairis C. Silva, MD, Izabella Dantas, BSBC, Sebastião X. Curado, MD, Mariana S. Madeira, MD, Luciene B. de Sousa, MD, PhD, Vital P. Costa, MD, PhD

A significant intraocular pressure, salivary cortisol, and heart rate elevation may occur after an acute psychologic stress event (Trier Social Stress Test) in healthy subjects.

Phaco-endocycloplasty versus Phacotrabeculectomy in Primary Angle-Closure Glaucoma: A Prospective Randomized Study
Vanita Pathak-Ray, FRCS (Ed), FRCOphth (Lon), Nikhil Choudhari, DNB

Phaco-endocycloplasty and phaco-trabeculectomy, are both efficacious in reducing intraocular pressure in primary angle closure glaucoma, but the former appears to be safer. Therefore, its potential as first-line management in such glaucomas should be investigated further.

Recurrent Optic Disc Hemorrhage and Its Association with Visual Field Deterioration in Glaucoma
Dong An, MBBS, Philip House, MBBS, Christopher Barry, Andrew Turpin, PhD, Allison M. McKendrick, MScOptom, PhD, Balwantray C. Chauhan, PhD, Siobhan Manners, MBBS, Stuart Graham, MBBS, PhD, Dao-Yi Yu, MD, PhD, William H. Morgan, MBBS, PhD

High recurrence of optic disc hemorrhage within a sector was associated with worse visual field progression within that sector.

Perceptions of Marijuana Use for Glaucoma from Patients, Cannabis Retailers, and Glaucoma Specialists
Eric W. Weldy, MD, Jordan Stanley, MD, Vivek A. Kodari, MD, Emily A. McCourt, MD, Jennifer L. Patnaik, PhD, Malik Y. Kahook, MD, Leonard K. Seibold, MD

Most marijuana dispensaries (51%) recommended marijuana for glaucoma. In contrast, few glaucoma specialists (7.6%) had recommended marijuana and even fewer patients with glaucoma (2.6%) had used marijuana for glaucoma.

Association of Open-Angle Glaucoma with Non-Alzheimer's Dementia and Cognitive Impairment
Obinna Umanakwe, MD, PhD, Divakar Gupta, MD, Henry Tseng, MD, PhD

Open-angle glaucoma patients have increased odds of concurrent mild cognitive impairment, senile dementia, or other neurodegenerative diseases; decreased odds of concurrent amyotrophic lateral sclerosis or Alzheimer’s disease; and no correlation with Parkinson’s disease or vascular dementia.
The Trajectory of Glaucoma Progression in 2-Dimensional Structural—Functional Space

Agustina de Gainza, MD, Esteban Morales, MS, Diana C. Salazar Vega, MD, Vahid Mohammaddzadeh, MD, Fei Yu, PhD, Abdelmonem Afifi, PhD, Kouros Nouri-Mahdavi, MD, Joseph Caprioli, MD

This retrospective, longitudinal, observational study was designed to create a method that shows the trajectory of glaucoma progression in a 2-dimensional structural—functional space.

Size Matters for Interplicata Diameter: A Case-Control Study of Plateau Iris

Philip S. Garza, MD, MSc, Xiaofei Man, MD, PhD, Joanna H. Queen, MD, Bernadete M. Ayres, MD, Tanya McClendon, Elizabeth A. Parrish, David M. Reed, PhD, Sayoko E. Moroi, MD, PhD

Ultrasound biomicroscopy of the ciliary body interplicata diameter (IPD) showed that smaller IPD among eyes with plateau iris offers a possible mechanism to explain in-the-bag uveitis—glaucoma—hyphema in eyes after uncomplicated cataract surgery.

Report

Early-Onset Glaucoma Manifesting as Buphthalmos in an Infant with Phakomatosis Pigmentovascularis Type Ila

Vijayalakshmi Arjunan Senthilkumar, MS, Ramaswami Krishnadas, DNB, George Varghese Puthuran, MS, Anandakrishnan Ravi Chandar, DA

Pictures & Perspectives

Masked Optic Disc by Hyperoleon in Silicone Oil—Induced Glaucoma Eye

Sunny Chi Lik Au, MBChB, MRCSEd(Ophth), Callie Ka Li Ko, MBBS, FCOphthHK

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