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ORIGINAL ARTICLES

• **375 Measurements of optic disk size with HRT II, stratus OCT, and funduscopy are not interchangeable.**

Yaniv Barkana, MD, Noga Harizman, MD, Yariv Gerber, PhD, Jeffrey M. Liebmann, MD, and Robert Ritch, MD

Relatively poor agreement was found in the measurement of optic disk size between Heidelberg Retinal Tomograph (HRT), optical coherence tomograph (OCT), and funduscopy. Poor agreement was also found for the three modalities in the gross classification of the disk size as small, average, or large.

• **381 Agreement and repeatability for standard automated perimetry and confocal scanning laser ophthalmoscopy in the Diagnostic Innovations in Glaucoma Study.**

Diana Ng, MD, Linda M. Zangwill, PhD, Lyne Racette, PhD, Christopher Bowd, PhD, John P. Pascual, MA, Rupert R. A. Bourne, MD, Catherine Boden, PhD, Robert N. Weinreb, MD, and Pamela A. Sample, PhD

We assessed the agreement between structural and functional testing in classifying eyes as normal or abnormal and the repeatability of each on two consecutive visits. Results demonstrated that agreement between standard automated perimetry (SAP) and Heidelberg retina tomograph (HRT) was only fair at both visits. Repeatability across visits was substantial for SAP alone, HRT alone, and for the combination of SAP and HRT. Structural and functional tests appear complementary and should both be used for early detection of glaucoma.

• **387 Fluidics and heat generation of Alcon Infiniti and Legacy, Bausch & Lomb Millennium, and Advanced Medical Optics Sovereign phacoemulsification systems.**

Michael S. Floyd, MPH, Jeremy R. Valentine, BA, MD, and Randall J. Olson, MD

Flow is generally similar to actual, however, in regard to heat generation, percent power has no correlation between machines tested. Active unoccluded vacuum can be very high in peristaltic machines, especially with Cruise Control.

• **393 Herpes zoster ophthalmicus in otherwise healthy children.**

Denise De Freitas, MD, Elisabeth N. Martins, MD, Consuelo Adan, MD, Lênio S. Alvarenga, MD, and Deborah Pavan-Langston, MD

The authors followed a series of otherwise healthy children with herpes zoster ophthalmicus (HZO) verifying that the majority (n = 8) presented a favorable good prognosis; nonetheless two patients presented severe eye complications (glaucoma, neurotrophic ulcer) causing visual loss.

• **400 Intraoperative mitomycin and corneal endothelium after photorefractive keratectomy.**

Alberto J. Morales, MD, David Zadok, MD, Rolando Mora-Retana, MD, Eduardo Martínez-Gama, MD, Nora E. Robledo, OD, and Arturo S. Chayet, MD

In a prospective randomized, double-blind, placebo-controlled crossover trial, we analyzed the effect of intraoperative application of mitomycin C (MMC) 0.02% vs balanced salt solution (BSS) on corneal endothelial cells in 18 eyes of nine patients during photorefractive keratectomy (PRK). Our study suggests that there is an increased risk of corneal endothelial cells loss as result of topical application of MMC 0.02% for 30 seconds after PRK.

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