

AMERICAN JOURNAL OF OPTHALMOLOGY®

FEBRUARY 2003 • VOLUME 135

ORIGINAL ARTICLES

CORNEAL THICKNESS MEASUREMENTS AND VISUAL FUNCTION ABNORMALITIES IN OCULAR HYPERTENSIVE PATIENTS

Medeiros, Sample, Weinreb

TIMOLOL 0.5%/DORZOLAMIDE 2% FIXED COMBINATION VS TIMOLOL MALEATE 0.5% AND UNOPROSTONE 0.15% GIVEN TWICE DAILY TO PATIENTS WITH PRIMARY OPEN-ANGLE GLAUCOMA OR OCULAR HYPERTENSION

Day, Schacknow, Wand, and Co-Authors

REDUCED CEREBROVASCULAR BLOOD FLOW VELOCITIES AND VASOREACTIVITY IN OPEN-ANGLE GLAUCOMA

Harris, Zarfati, Biller, and Co-Authors

OPTICAL COHERENCE TOMOGRAPHY FOR EVALUATING DIABETIC MACULAR EDEMA BEFORE AND AFTER VITRECTOMY

Massin, Duguid, Erginay, Haouchine, Gaudric

IATROGENIC PUNCTATE CHORIORETINOPATHY AFTER INTERNAL LIMITING MEMBRANE PEELING

Karacorlu, Karacorlu, Ozdemir

RETINAL DETACHMENT RATE AFTER VITRECTOMY FOR RETAINED LENS MATERIAL AFTER PHACOEMULSIFICATION

Smiddy, Guerro, Pinto, Feuer

SCLERITIS AND OTHER OCULAR SIDE EFFECTS ASSOCIATED WITH PAMIDRONATE DISODIUM

Fraunfelder, Fraunfelder, Jensvold

BRIEF REPORTS

EPIDEMIC AND SPORADIC CASES OF NONTUBERCULOUS MYCOBACTERIAL KERATITIS ASSOCIATED WITH LASER IN SITU KERATOMILEUSIS

Winthrop, Steinberg, Holmes, and Co-Authors

MALIGNANT GLAUCOMA DUE TO DRUG-RELATED ANGIOEDEMA

Hille, Hille, Ruprecht



AJO®

MONTHLY SINCE 1884
Full-text online at www.ajo.com

ELSEVIER

ISSN 0002-9394

AMERICAN JOURNAL OF OPHTHALMOLOGY®

ISSN 0002-9394 • VOL. 135, NO. 2 FEBRUARY 2003

CONTENTS

ORIGINAL ARTICLES

- 131 **Corneal thickness measurements and visual function abnormalities in ocular hypertensive patients.** Felipe A. Medeiros, MD, Pamela A. Sample, PhD, and Robert N. Weinreb, MD

Ocular hypertensive (OHT) patients with abnormal short-wavelength automated perimetry (SWAP) results had thinner central cornea than OHT patients with normal SWAP results, suggesting that corneal thickness should be taken into account when assessing risk of glaucoma development among OHT subjects.

- 138 **Timolol 0.5% dorzolamide 2% fixed combination vs timolol maleate 0.5% and unoprostone 0.15% given twice daily to patients with primary open-angle glaucoma or ocular hypertension.** Douglas G. Day, MD, Paul N. Schacknow, MD, Martin Wand, MD, Elizabeth D. Sharpe, MD, Jeanette A. Stewart, RN, Jessica Leech, BS, and William C. Stewart, MD

Both timolol/dorzolamide 2% fixed combination and concomitant timolol maleate 0.5% and unoprostone 0.15% therapy given twice daily provide similar efficacy and safety throughout the daytime diurnal curve.

- 144 **Reduced cerebrovascular blood flow velocities and vasoreactivity in open-angle glaucoma.** Alon Harris, PhD, Drora Zarfati, MD, Miriam Zalish, MD, Jose Biller, MD, Clinton W. Sheets, BS, Ehud Rechtman, MD, Renata Migliardi, MD, and Hana J. Garzoxi, MD

The authors compared cerebral blood flow velocities between open-angle glaucoma patients and controls, at baseline and during hyperoxia. Glaucoma patients were found to have lower middle cerebral artery blood flow velocities and an absence of vasoreactivity to hyperoxia, compared with controls.

- 148 **Structure and function evaluation (SAFE): II. comparison of optic disk and visual field characteristics.** Chris A. Johnson, PhD, Pamela A. Sample, PhD, Linda M. Zangwill, PhD, Cristiana G. Vasile, MD, George A. Cioffi, MD, Jeffrey R. Liebmann, MD, and Robert N. Weinreb, MD
- Results from longitudinal monitoring of a large cohort of well-defined patients are consistent and provide strong support for structural optic disk abnormalities being a predictor of future glaucomatous visual field deficits.

- 155 **Use of glaucoma drainage devices in the management of glaucoma associated with aniridia.** Claudia P. Arroyave, MD, Ingrid U. Scott, MD, MPH, Steven J. Gedde, MD, Richard K. Parrish, II, MD, and William J. Feuer, MS

Glaucoma drainage device placement for glaucoma associated with aniridia achieves intraocular pressure control and vision preservation in most patients.

- 160 **Combined use of frequency doubling perimetry and polarimetric measurements of retinal nerve fiber layer in glaucoma detection.** Folkert K. Horn, PhD, Nhung X. Nguyen, MD, Christian Y. Mardin, MD, and Anselm G. Jünemann, MD

The combination of the results obtained by both techniques with a two-dimensional discrimination analysis results in improved sensitivity in comparison to testing with one method only.

- 169 **Optical coherence tomography for evaluating diabetic macular edema before and after vitrectomy.** Pascale Massin, MD, PhD, Graham Duguid, MD, FRCS, Ali Erginay, MD, Belkacem Haouchine, MD, and Alain Gaudric, MD

Vitrectomy is beneficial for eyes with diffuse diabetic macular edema combined with a taut thickened posterior

AJO®