2009 Research Days Abstract Form – Department of Ophthalmology – UNIFESP/EPM

2. SCIENTIFIC SECTION PREFERENCE (REQUIRED): (GL) GLAUCOMA	106. FIRST (PRESENTING) AUTHOR (REQUIRED): Must be the author listed first in abstract body.
	() R1 () R2 () R3 () PIBIC () PG0 () PG1 (x) Fellow () Technician
3. PRESENTATION PREFERENCE (REQUIRED) Check one: Paper □ Paper □ Poster X FAST Paper	Last Name: Magalhães First Name: Thiago Middle: Padilha Service (Sector): Department of Ophthalmology, Federal
4. The signature of the First (Presenting) Author (REQUIRED) acting as the authorized agent for all authors, hereby	University of São Paulo, São Paulo, Brazil CEP Number:27258060
certifies that any research reported was conducted in compliance with the Declaration of Helsinki and the 'UNIFESP Ethical Committee"	5. ABSTRACT (REQUIRED):
	Title: FACTORS ASSOCIATED WITH OPTIC NERVE HEAD TOPOGRAPHY IN NEWLY DIAGNOSED PRIMARY OPEN-ANGLE GLAUCOMA PATIENTS
	Author and Co-authors Thiago P Magalhães, MD; Tiago S Prata, MD; Verônica Castro Lima, MD
	Lia M Guedes; Fernanda P Magalhães, MD; Luis Biteli, MD; Sergio H Teixeira, MD; Augusto
Scientific Section Descriptions (two-letter code):	Paranhos Jr, MD,PhD.
(BE) OCULAR BIOENGINEERING (CO) CORNEA AND EXTERNAL DISEASE (CA) CATARACT (EF) ELECTROPHYSIOLOGY (EP) EPIDEMIOLOGY (EX) EXPERIMENTAL SURGERY (GL) GLAUCOMA (LA) LABORATORY (LA) LABORATORY (LS) LACRIMAL SYSTEM (LV) LOW VISION (NO) NEURO-OPHTHALMOLOGY (OR) ORBIT (PL) OCULAR PLASTIC SURGERY (PH) PHARMACOLOGY (RE) RETINA AND VITREOUS (RS) REFRACTIVE SURGERY (RX) REFRACTIVE SURGERY (RX) REFRACTIVE SURGERY (RX) REFRACTIVE SURGERY (TR) TRAUMA (TU) TUMORS AND PATHOLOGY (UV) UVEITIS (US) OCULAR ULTRASOUND	Purpose: To investigate factors associated with optic nerve head (ONH) topography in newly diagnosed primary open-angle glaucoma (POAG) patients. Methods : We prospectively enrolled consecutive patients with newly diagnosed POAG without glaucoma treatment [intraocular pressure (IOP) >21 mmHg]. After a complete ophthalmological examination, those with any ocular disease other than glaucoma were excluded. Data collected included age, race, gender, IOP and central corneal thickness (CCT). All patients underwent CH measurement using the Ocular Response Analyzer and confocal scanning laser ophthalmoscopy for ONH topography evaluation. The mean of three measurements was considered for analysis. Multiple regression analysis (controlling for baseline IOP and disc area) was used to investigate factors associated with the following ONH topographic parameters: cup-to-disc ratio (CDR) and mean cup depth (MCD) Results : Forty-two patients (42 eyes) were included (mean age, 66.7 ± 11.8 years; mean IOP, 27.9 ± 8.1). The only factor significantly associated with both CDR (r=-0.41, p=0.02) and MCD (r=-0.34, p=0.03) was CH. Central corneal thickness was significantly associated with MCD (r=-0.06, p=0.72). No significant associations were found for gender and race (p ≥0.54). When comparing eyes of patients with bilateral POAG (n=20), those with higher CH had smaller CDR in 78% of the cases.
Deadline: Oct 13, 2009	(independently of IOP values and disc area size). This association was significant for both
	corneal parameters only when cup depth (but not cup-to-disc ratio) was considered. Whether
FORMAT: Abstract should contain: Title Author, Co-authors (maximum 6), Purpose, Methods, Results, Conclusion. Poster guidelines: ARVO Abstract Book (1.10 x 1.70m)	these observations have implications in the understanding of glaucoma pathophysiology requires further investigation. Keywords Please keep the format using font VERDANA, 10
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