

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

2. SCIENTIFIC SECTION PREFERENCE (REQUIRED):

Review the Scientific Section Descriptions. Select and enter the two-letter Code for the one (1) Section best suited to review your abstract.

3. PRESENTATION PREFERENCE (REQUIRED) Check one:

- Paper
- Poster
- FAST Paper

4. The signature of the First (Presenting) Author (REQUIRED) acting as the authorized agent for all authors, hereby certifies that any research reported was conducted in compliance with the Declaration of Helsinki and the 'UNIFESP Ethical Committee'

Scientific Section Descriptions (two-letter code):

- (BE) OCULAR BIOENGINEERING
- (CO) CORNEA AND EXTERNAL DISEASE
- (CA) CATARACT
- (EF) ELECTROPHYSIOLOGY
- (EP) EPIDEMIOLOGY
- (EX) EXPERIMENTAL SURGERY
- (GL) GLAUCOMA**
- (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) REFRACTION-CONTACT LENSES
- (ST) STRABISMUS
- (TR) TRAUMA
- (TU) TUMORS AND PATHOLOGY
- (UV) UVEITIS
- (US) OCULAR ULTRASOUND

Deadline: Oct 12, 2009

FORMAT:
Abstract should contain:

- Title**
- Author, Co-authors (maximum 6),**
- Purpose, Methods, Results,**
- Conclusion.**

Poster guidelines:
ARVO Abstract Book (1.10 x 1.70m)

22. FIRST (PRESENTING) AUTHOR (REQUIRED):

Must be the author listed first in abstract body.

- () R1 () R2 () R3 () PIBIC
- () PG0 (X) PG1 () Fellow () Technician

Last Name: Pinto
First Name: Luciano
Middle: Moreira

Service (Sector): Glaucoma

CEP Number: 1556/07

EVALUATION OF MACULAR STRUCTURE AND FUNCTION IN GLAUCOMA

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Purpose: To investigate and correlate the structural and functional changes of the macula in glaucoma patients using Time-Domain (TD-OCT), Fourier-Domain Optical Coherence Tomography (FD-OCT), Standard Automated Perimetry (SAP), and Frequency-Doubling Technology Perimetry (FDT Matrix).

Methods: Healthy and primary open-angle glaucoma individuals were enrolled in this observational, cross-sectional study. Macular structure was assessed with the Stratus OCT Fast Macular Thickness Scan, Cirrus OCT Macular Cube 512x128 and Spectralis OCT Macular Volume 20° x 20°. Macular function was assessed with the 10-2 Humphrey SAP and the 10.2 FDT Matrix. Receiver operating characteristic curves were used to evaluate sensitivity and specificity of structural and functional assessments. Correlation between mean OCT and visual field measurements were examined by regression analysis.

Results and Conclusion: Data are being collected and results are under analysis.

Keywords: Macula Lutea, Open-Angle Glaucoma, Optical Coherence Tomography, Perimetry