2. SCIENTIFIC SECTION PREFERENCE (REQUIRED): GL

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

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Scientific Section Descriptions (two-letter code):

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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)

113. FIRST (PRESENTING) AUTHOR (REQUIRED):
Must be the author listed first in abstract body.

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

Last Name: Leonardo
First Name: Fogaça
Middle: de Araújo Jorge

Service (Sector): Glaucoma

CEP Number: 0812/08

5. ABSTRACT (REQUIRED):

Reproducibility of the peripapillary retinal nerve fiber layer thickness measurements with Time-Domain and Fourier-Domain Optical Coherence Tomography

Leonardo Fogaça, Luciano M. Pinto, Paula B. Gross, Bruno Diniz, Luiz Alberto S. Melo Jr., Augusto Paranhos Jr.

Purpose: To evaluate the reproducibility of the peripapillary retinal nerve fiber layer (RNFL) thickness measurements obtained with Time-Domain and Fourier-Domain Optical Coherence Tomography (OCT).

Methods: A prospective study was carried out. Normal and glaucomatous eyes were submitted to RNFL thickness measurements with Spectralis (Heidelberg Engineering, Germany), Stratus (Carl Zeiss Meditec, Dublin, CA, USA) and Cirrus (Carl Zeiss Meditec, Dublin, CA, USA) OCT. Three exams were taken with each device on the same day by the same examiner. Three images of each eye for each OCT device were taken consecutively during the same session. Coefficient of variation (COV) and intraclass correlation coefficient (ICC) were used to evaluate the RNFL measurement reproducibility.

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

Key words: retinal nerve fiber layer, optical coherence tomography, reproducibility

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