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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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"

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Scientific Section Descriptions (two-letter code):

(BE) OCULAR BIOENGINEERING
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(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)

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

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

Last Name: Barbosa
First Name: Carolina
Middle: Pelegrini

Service (Sector):   Glaucoma

CEP Number: 1453/04

5. ABSTRACT (REQUIRED):

Title: **SIMULATED CUP DISK RATIO – TOOL FOR PHYSICIAN EVALUATION.**

Author and Co-authors (maximum 6): Carolina Pelegrini Barbosa, Pedro Felipe Angelini, Paulo Schor, Augusto Paranhos Jr.

Purpose: Evaluate and compare the observers' ability on measuring simulations of cup disk ratios (CDR) as concentric and non-concentric circles.

Methods: 43 images representing the CDR spectrum from 0.1 to 0.9, for vertical and horizontal CDR proportions was developed and presented on a computer screen in a prospective random masked setting.

Results: 171 individuals were tested and showed a satisfactory agreement in kappa coefficient (0.755 and 0.730 for horizontal and vertical cup disc ratio, respectively) and Lin's concordance correlation (R= 0,88 for horizontal and R = 0.86 for vertical measurement). However we found a very poor agreement in intermediated values of CDR (the cutoff point of 0.7, the sensitivities were 27% and 27.6% for horizontal vertical CDR respectively). The worst agreement was between 0.4 to 0.6 CDR for both horizontal and vertical CDR values.

Conclusion: Despite a good general agreement with the gold standard and the participants, the absolute agreement for intermediated values of CDR of cup ratio disk was very poor for both horizontal and vertical CDR values

Keywords: Cup disc ratio, diagnose, measure, internet.

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