2007 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 sullied to review your abstract
(GL)

3. PRESENTATION PREFERENCE (REQUIRED) Check one (1)
(a) Paper
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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 Heisinki and the 'UNIFESP Ethical Committee"

Signature of First

Scientific Section Descriptions

(OR) ORBIT
(PL) OCULAR PLASTIC SURGERY
(RE) RETINA AND VITREOUS
(RX) REFRACTION-CONTACT LENSES
(NO) NEURO-OPHTHALMOLOGY
(TU) TUMORS AND PATHOLOGY
(ST) STRABISMUS
(UV) UVEITIS
(LS) LACRIMAL SYSTEM
(LV) LOW VISION
(CO) CORNEA AND EXTERNAL DISEASE
(GL) GLAUCOMA
(RS) REFRACTIVE SURGERY
(CA) CATARACT
(US) OCULAR ULTRASOUND
(TR) TRAUMA
(LA) LABORATORY
(BE) OCULAR BIOENGINEERING
(EP) EPIDEMIOLOGY
(EF) ELECTROPHYSIOLOGY

Deadline: 29/10/2007

FORMAT:
Abstract should contain:
Title, Name of Authors, Name of other authors (maximum 6), Purpose, Methods, Results, Conclusions.
Example: ARVO (1.10 x 1.70)
Abstract Book

1. FIRST (PRESENTING) AUTHOR (REQUIRED)
Must be author listed first in body of abstract

(X) R1 ( ) R2 ( ) R3
( ) PG0 ( ) PG1 ( ) Estagiário ( ) Tecnólogo ( ) PIBIC

Konno	Bruno	
Last Name	First Name	Middle

Glaucoma
Service (sector)

1720/07
Nº CEP
(Comitê de Ética em Pesquisa da Universidade Federal de São Paulo– UNIFESP)

5. ABSTRACT (REQUIRED)

The Agreement Betwee n HRT And OCT On Optic Disk Area Measurements

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Purpose: To evaluate the agreement between HRT and OCT on optic disk area measurements.

Methods: 87 glaucomatous eyes were selected by HRT II me asurements with different optic disk areas. 87 images of OCT Stratus and HRT measurements of optic disk area(ODA), rim area, cup area and cup to disk area ratio were taken.. The difference between the mean of optic disk measurements by the two devices was evaluated by Student t -test. The Bland & Altman plot and Lin concordance correlation coefficient were used to assess agreement between the two devices.

Results: There was a significant but not clinically relevant difference between the mean of ODA measure d by HRT (2,22 ± 0,62 mm^2) and OCT (2,49 ± 0,51mm^2); p<0,0001. No statistic difference was found in rim area analysis measured by HRT (1,39 ± 0,41mm^2) and OCT (1,29 ± 0,47mm^2); p=0,097. The cup area analysis showed a significant higher values on OCT (1,23 ± 0,72mm^2) than HRT (0,82 ± 0,54mm^2); p<0,00001. Cup to disk area analysis showed a significant difference between the mean of HRT (0,36 ± 0,23) and OCT (0,47±0,22); p<0,00001. In addition, a good coefficient of agreement (Lin coefficient r= 0,7874, 95% Confidence interval (0.6459 to 0.8765) and Bland &Altman plot of agreement for the disk area was present.

Conclusion: Although optic nerve area measured by OCT depends on the automatic definition of the retinal pigment epithelium ends, and this is not the case on HRT, the two devices had similar values concerning optic disk parameters with slightly values higher on OCT.