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

2. SCIENTIFIC SECTION PREFERENCE (REQUIRED):	118. FIRST (PRESENTING) AUTHOR (REQUIRED): Must be the author listed first in abstract body.
(GL)	
	(X) R1 () R2 () R3 () PIBIC
	() PGU () PGI () Fellow () Fellow
<ul> <li>3. PRESENTATION PREFERENCE (REQUIRED) Check one:</li> <li>Paper</li> <li>X Poster</li> <li>FAST Paper</li> </ul>	Last Name: Lucatto First Name: Luiz Filipe Middle: Adami Service (Sector): Glaucoma
4. The signature of the First (Presenting) Author (REQUIRED) acting as the authorized agent for all authors, hereby certifies that any research reported was	CEP Number: 1438/05
conducted in compliance with the Declaration of Helsinki and the 'UNIFESP Ethical Committee"	5. ABSTRACT (REQUIRED):
	AGREEMENT OF RETINAL NERVE FIBER LAYER THICKNESS
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 (LV) LOW VISION (NO) NEURO-OPHTHALMOLOGY (OR) ORBIT (PL) OCULAR PLASTIC SURGERY (PH) PHARMACOLOGY (RE) REFINA AND VITREOUS (RS) REFRACTIVE SURGERY (RX) RUS (TR) TRABISMUS (TR) TRABISMUS	<b>MEASUREMENTS BETWEEN SPECTRAL-DOMAIN AND TIME-DOMAIN</b> <b>OPTICAL COHERENCE TOMOGRAPHY.</b> Author and Co-authors (maximum 6): LFA Lucatto, AC Kara-José, MT Leite, LA Melo Jr., LM Pinto, IM Tavares Purpose: To evaluate the agreement between Spectral Domain Optical Coherence Tomography (SD-OCT) and Time-Domain (TD) OCT retinal nerve fiber layer (RNFL) thickness measurements in glaucomatous and healthy patients. Methods: Twenty-one eyes with primary open-angle glaucoma and 18 healthy eyes were included in this cross- sectional study. Inclusion criteria consisted of age higher or equal to 50 years, best-corrected visual acuity of 20/40 or better, spherical refraction within $\pm$ 5.0D and cylinder correction within $\pm$ 3.0D, reliable SAP results and no prior intraocular surgery except for uncomplicated cataract extraction and filtering surgery for more than 3 months. Eyes with previous blunt ocular trauma and with ocular disease other than glaucoma and cataract were excluded. All participants underwent complete ophthalmological examination, standard automated perimetry, optic disc photography and RNFL measurements using TD-OCT (Stratus; software version 4.0, Carl Zeiss Meditec, California, USA) and SD-OCT (Spectralis; software version 4.0, Heidelberg Engineering Dossenbeim Germain) TD-OCT and ED-OCT
Deadline: Oct 12, 2009	imaging of the RNFL was performed consecutively at the same session and through dilated pupils. 95% limits of agreement between TD-OCT and
FORMAT: Abstract should contain:	SD-OCT was calculated. Results: The mean difference (95% limits of agreement) between Spectralis and Stratus OCT RNFL thickness in the superior, inferior, nasal, temporal and global area was 8.3 $\mu$ m (-22.4 to 39.0), 1.5 $\mu$ m (-23.5 to 26.4), 6.3 $\mu$ m (-20.3 to 32.9), 6.8 $\mu$ m (-12.0 to 25.6), and 5.6 $\mu$ m (-13.9
Title Author, Co-authors (maximum 6), Purpose, Methods, Results, Conclusion.	to 25.2), respectively. Conclusion: Poor agreement was found between Spectralis and Stratus RNFL thickness measurements.
Poster guidelines: ARVO Abstract Book (1.10 x 1.70m)	Keywords:Glaucoma, Retinal Nerve Fiber Layer Thickness, Spectral- Domain, Time-Domain, Optical Coherence Tomography