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. GL 3. PRESENTATION PREFERENCE (REQUIRED) Check one: Paper Poster x FAST Paper	 29. FIRST (PRESENTING) AUTHOR (REQUIRED): Must be the author listed first in abstract body. () R1 () R2 () R3 () PIBIC (X) PG0 () PG1 () Fellow () Technician Last Name: BRASIL First Name: MARIA VITORIA Middle: OLIVEIRA MOURA
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	CEP Number:
Declaration of Helsinki and the 'UNIFESP Ethical Committee'	5. ABSTRACT (REQUIRED):
	COMPARISON OF SPECTRAL DOMAIN AND TIME DOMAIN OCT IN MEASURING RETINAL NERVE FIBER LAYER THICKNESS
	Brasil MV, Brasil OF, Smith SD, Mello PA
Scientific Section Descriptions (two-letter code): (BE) OCULAR BIOENGINEERING (CO) CORNEA AND EXTERNAL DISEASE (CA) CATARACT (EF) ELECTROPHYSIOLOGY (EF) EPIDEMIOLOGY (EF) EXPERIMENTAL SURGERY (GL) GLAUCOMA (LA) LABORATORY (LS) LACRIMAL SYSTEM (LV) LOW VISION (NO) NEURO-OPHTHALMOLOGY (OR) ORBIT (PL) OCULAR PLASTIC SURGERY (PH) PHARMACOLOGY (RE) RETRINA AND VITREOUS (RS) REFRACTION-CONTACT LENSES (ST) STRABISMUS (TR) TRAUMA (TU) TUMORS AND PATHOLOGY (UV) UVEITIS	Purpose: To evaluate the agreement between spectral-domain (Cirrus) and time-domain (Stratus) optical coherence tomography (OCT) retinal nerve fiber layer (RNFL) measurements. Methods: Participants were imaged by a single trained operator using Stratus OCT and Cirrus HD-OCT at the same visit. Only scans scored better than 6 were included in the study. The RNFL thickness was measured by the Stratus OCT with the fast RNFL scan mode and by Cirrus HD-OCT using the optic disc cube mode. Data was analyzed using paired t test. Agreement between the OCTs was calculated using Bland-Altman method. Results: Eighty-nine eyes of 49 patients were examined. Average RNFL thickness was not significantly different between the 2 machines (Stratus, 89.70 \pm 14.48 µm; Cirrus, 88.41 \pm 12.14 µm; p=0.12). Quadrant measurements and clock hour measurements were more variable. There
UUS) OCULAR ULTRASOUND	was statistically significant difference for the superior quadrant measurements (Stratus 114.25 μ m; Cirrus 105.51 μ m; p=0.002). Bland-Altman plots showed good agreement between instruments, with better agreement for average RNFL thickness.
FORMAT: Abstract should contain:	Conclusion: Agreement between the 2 OCT instruments is good. Nevertheless, Stratus OCT provides thicker RNFL measurements than Cirrus HD-OCT. Measurements with these instruments should not be considered interchangeable.
Title Author, Co-authors (maximum 6), Purpose, Methods, Results, Conclusion.	Keywords: Optical Coherence Tomography (OCT), Glaucoma.
Poster guidelines: ARVO Abstract Book (1.10 x 1.70m)	