<ol> <li>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 (RE)</li> </ol>	1. FIRST (PRESENTING) AUTHOR (REQUIRED) Must be author listed first in body of abstract     ( ) R1 ( ) R2 ( ) R3     (X) PG0 ( ) PG1 ( ) Estaqiário ( ) Tecnólogo ( ) PIBIC
3. PRESENTATION PREFERENCE (REQUIRED) Check one (1) (a) Paper (b) Poster	YanaiDouglas Last Name First Middle
	D.:/
	Retina Service (sector) N° CEP
<ol> <li>The signature of the First (Presenting) Author, (REQUIRED) acting as the authorized agent for all authors, hereby certifies</li> </ol>	
That any research reported was conducted in compliance with the Declaration of	
Heisinki and the 'UNIFESP Ethical Committee"	Optical Coherence Tomography in Retinitis Pigmentosa Patients and Microchip
	<b>Epiretinal Prosthesis</b> Douglas Yanai <sup>1,2</sup> , Eduardo Dib <sup>1</sup> , Adriana Berezovsky <sup>1</sup> , Juliana M. F. Sallum <sup>1</sup> ,
	Maurício Maia <sup>1</sup> , Michel E. Farah <sup>1</sup>
	1 - Department of Ophthalmology- UNIFESP/EPM
Signature of First	2 - Doheny Eye Institute- University of Southern California
	Purpose: To correlate retinal nervous fiber layer (RNFL), retinal thickness and visual
	acuity in retinitis pigmentosa (RP) patients with visual acuity better than 20/800. To
Scientific Section Descriptions	compare RNFL and retinal thickness in a group of RP patients with visual acuity
(OR) ORBIT	worse than 20/400 to a patient submitted to a microchip retinal prosthesis insertion.
(PL) OCULAR PLASTIC SURGERY (RE) RETINA AND VITREOUS	Methods: This study was approved by the UNIFESP medical research ethical
(RX) REFRACTION-CONTACT LENSES (NO) NEURO-OPHTHALMOLOGY	committee. The microchip study was granted an FDA and USC -IRB approval. Twenty RP eyes with visual acuity better than 20/800 were included in the first part
(TU) TUMORS AND PATHOLOGY (ST) STRABISMUS	of the study (OCT exams thic kness and visual acuity correlation). The visual acuity
(UV) UVEITIS (LS) LACRIMAL SYSTEM	was converted to LogMar in the analysis. Also eight RP eyes with visual acuity equal
(LV) LOW VISION (CO) CORNEA / EXTERNAL DISEASE	or worse than counting fingers and age between 40 and 60 years old were examined
(GL) GLAUCOMA	and compared to one retinal prosthesis patient (descriptive study). The prosthesis
(RS) REFRACTIVE SURGERY (CA) CATARACT	patient had light perception vision and 55 years old. OCT (Fast RNFL Thickness Scan 3.4mm protocol) scans, complete eve exam and electrophysiological tests (full -
(US) OCULAR ULTRASOUND (TR) TRAUMA	field electroretinogram and dark adaptation threshold test) were performed. The OCT
(LA) LABORATORY (BE) OCULAR BIOENGINEERING	scans were analyzed manually using the caliper under the RNFL thickness single eye
(EP) EPIDEMIOLOGY (EF) ELECTROPHYSIOLOGY	protocol. Statistical analysis was performed with the SPSS version 12.0 software.
(27) 2220 (107111 0102001	Results: The electroretinogram confirmed RP diagnosis in the studied patients. In the
	first group the age ranged from 14 to 75 years old (mean 46.45 +/ $-20.68$ ) and the
	mean visual acuity was 0.61 (+/- 0.34); the mean retinal thickness was 205.23um (+/- 30.87) and the mean RNFL thickness was 87.65um (+/-21.07). When considering the
Deadline: 29/10/2007	data by quadrant, there was a reverse correlation between visual acuity and retinal
	thickness (in the temporal quadrant r=0.755, p<0.001) but no correlation between
	visual acuity and RNFL thickness. The retinal prosthesis patient presented RNFL and
FORMAT:	retinal thickness in the non implanted eye closer to the UNIFESP RP group than in
Abstract should contain:	the implanted (and electrically stimulated) eye (thicker).
Title, Name of Authors, Name of other au thors (maximum 6),	<u>Conclusions</u> RP eyes showed thicker retina proportional to the worsening of the visual acuity (in LogMar). This may reflect apoptosis changes causing cell edema as
Purpose, Methods, Results,	the degeneration progress. This is also a new parameter that might be used to
Conclusions. Example: ARVO (1.10 x 1.70) Abstract Book	determine disease progression in RP patients with good visual acuity. The
	comparison between RP patients and r etinal prosthesis patient showed a possible
	electrical neurotrophic effect in the stimulated eve.