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

2. SCIENTIFIC SECTION PREFERENCE (REQUIRED):	17. FIRST (PRESENTING) AUTHOR (REQUIRED): Must be the author listed first in abstract body.
Review the Scientific Section Descriptions. Select and enter the two-letter Code for the one (1) Section best suited to review your abstract.	() R1 () R2 () R3 () PIBIC () PG0 (x) PG1 () Fellow () Technician
 3. PRESENTATION PREFERENCE (REQUIRED) Check one: x Paper Poster FAST Paper 	Last Name: Macedo First Name: Jarbas Middle: Pereira Service (Sector): CO cornea and external disease
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: 1108/09
conducted in compliance with the Declaration of Helsinki and the 'UNIFESP Ethical Committee" Jarbas Pereira de macedo	TITLE: COMPARISON BETWEEN MANUAL DEEP ANTERIOR LAMELLAR KERATOPLASTY AND THE AUTOMATED TECHNIQUE WITH FEMTOSECOND LASER ASSOCIATED WITH PHOTOTHERAPEUTIC KERATECTOMY BY EXCIMER LASER IN KERATOCONUS
Scientific Section Descriptions (two-letter code):	Author and Co-authors: JARBAS Pereira de Macedo; LUCIENE Barbosa de Sousa; CAMILE Tonin; VIVIAN Sakai; PEDRO Bertino Moreira.
(BE) OCULAR BIOENGINEERING (CO) CORNEA AND EXTERNAL DISEASE (CA) CATARACT (EF) ELECTROPHYSIOLOGY (EP) EPIDEMIOLOGY (EX) EXPERIMENTAL SURGERY (GL) GLUCOMA (LA) LABORATORY (LS) LACRIMAL SYSTEM (LV) LOW VISION (NO) NEURO-OPHTHALMOLOGY (OR) ORBIT (PL) OCULAR PLASTIC SURGERY (PH) PHARMACOLOGY (RE) RETINA AND VITREOUS (RS) REFRACTIVE SURGERY (RX) REFRACTIVE SURGERY (RX) REFRACTIVE SURGERY (RX) REFRACTIVE SURGERY (RX) REFRACTION-CONTACT LENSES (ST) STRABISMUS (TR) TRAUMA (TU) TUMORS AND PATHOLOGY (UV) UVEITIS (US) OCULAR ULTRASOUND	Purpose: to compare the efficacy of manual deep anterior lamellar keratoplasty with the automated technique with femtosecond laser associated with phototherapeutic keratectomy by excimer laser in patients with keratoconus. Methods: randomized, controlled, prospective study of 48 patients with keratoconus submitted to deep anterior lamellar keratoplasty DALK), divided into 3 groups. Group 1: DALK by femtosecond laser associated with phototherapeutic keratectomy by excimer laser; group 2: DALK by femtosecond laser associated with air dissection technique; group 3: DALK by air dissection technique. In the post operatory, patients will be evaluated by best spectacle corrected visual acuity, confocal microscopy and anterior segment optical coherence tomography (OCT Visante [™]). Results: best spectacle corrected visual acuity in the third postoperative month in group 1 and 2 were 0,85 logMAR and 0,3 logMAR, respectively. Confocal microscopy in both groups showed normal epithelial layer, hiperreflectivity in keratocites and endothelial cells without abnormalities. In group 2, confocal microscopy showed irregularity in the interface.
Deadline: Oct 12, 2009	Residual stromal paquimetry of group 1 and 2 by OCT Visante [™] were, respectively, 218,6 µm (varying from 154,8 to 303,6 µm) and 59,4 µm
FORMAT: Abstract should contain: Title Author, Co-authors (maximum 6), Purpose, Methods, Results, Conclusion. Poster guidelines: ARVO Abstract Book (1.10 x 1.70m)	(varying from 46,7 to 72,5 μm). Conclusion : initial results suggest that DALK by femtosecond laser associated with air dissection technique is more efficient than DALK by femtosecond laser associated with phototherapeutic keratectomy by excimer laser. Key words: lamellar keratoplasty; keratoconus; femtosecond laser; excimer laser; visual acuity.