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

2. SCIENTIFIC SECTION PREFERENCE 11. FIRST (PRESENTIN (REQUIRED): Must be the author listed fir	NG) AUTHOR (REQUIRED): st 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 () PG0 (x) PG1	() R3 () PIBIC () Fellow () Technician	
3. PRESENTATION PREFERENCE (REQUIRED) Check one: PREFERENCE X Paper Poster FAST Paper Service (Sector): CO		
4. The signature of the First (Presenting) Author (REQUIRED) acting as the		
Author (REGORED) adding as the authorized agent for all authors, hereby certifies that any research reported was conducted in compliance with the Declaration of Helsinki and the 'UNIFESP Ethical Committee'	DF VISUAL OUTCOMES BETWEEN PENETRATING INTRALASE [®] ENABLED KERATOPLASTY	
Elissandro M. S. Lindoso Author and Co-authors (maximum 6): Elissandro M S Lindoso; Leon Grupenmacher; Mariana Avila ; Melvin Sarayba; Luciene B Sousa.		
Purpose: To compare the visual acuity and postoperative recovery between two groups of patients with keratoconus. One group underwent a traditional,		
Scientific Section Descriptions (two-letter code): mechanical vacuum trephine femtosecond laser enabled p	procedure while the second group had a 60 kHz enetrating keratoplasty with a mushroom shaped	
(BE) OCULAR BIOENGINEERING (CO) CORNEA AND EXTERNAL DISEASE (CA) CATARACTgraft.(EG) ELECTROPHYSIOLOGY (EF) ELECTROPHYSIOLOGY (EP) EPIDEMIOLOGY (EP) EPIDEMIOLOGY (EX) EXPERIMENTAL SURGERY (LA) LABORATORY (LS) LACRIMAL SYSTEM (LV) LOW VISION (NO) NEURO-OPHTHALMOLOGY (NO) NEURO-OPHTHALMOLOGY (NO) NEURO-OPHTHALMOLOGY (NO) NEURO-OPHTHALMOLOGY (RR) REFINA AND VITREOUS (RS) REFRACTIVE SURGERY (RX) REFRACTIVE SURGERY (RY) REFRACTIVE SURGERY (RY) TRAUMA (TU) TUMORS AND PATHOLOGY (UV) UVEITIS (US) OCULAR ULTRASOUNDgraft. Methods: This is a prospectiv keratoconus. The patients we penetrating keratoplasty with Enabled Keratoplasty [IEK]) vacuum trephine [Manual] (n pathology that would limit po measures included best spect refraction, biomicroscopy exa cell density (ECD). Results: There were 30 manu of postoperative follow-up. T corrected visual acuity (BSCN average BSCVA of 0.27(Log I m/mm2 (range, 1512 to 283 cells m/mm2 (range, 1698 to Mean pachymetry was 546 (n 486 to 604) in the Manual gr differences between the two (p = 0.215), cylindrical nega 0.320).	OCULAR BIOENGINEERING CORNEA AND EXTERNAL DISEASE CATARACTgrart.Methods: This is a prospective, randomized trial of 60 patients (60 eyes) with keratoconus. The patients were randomized into two treatment groups: Group 1 - penetrating keratoplasty with femtosecond laser shaped incisions (IntraLase Enabled Keratoplasty [IEK]) (n=30); Group 2 - penetrating keratoplasty with vacuum trephine [Manual] (n=30). Exclusion criteria included associated ocular pathology that would limit potential visual acuity to less than 20/40. Outcome measures included best spectacle corrected visual acuity (BSCVA), manifest refraction, biomicroscopy exam, intraocular pressure, pachymetry and endothelial cell density (ECD).RETINA AND VITREOUS REFRACTIVE SURGERY PHARMACOLOGY UVEITISResults: There were 30 manual and 30 IEK eyes available for review at 12 months of postoperative follow-up. The IEK group had an average best spectacle corrected visual acuity (BSCVA) of 0.14(Log Mar). The manual group had an average BSCVA of 0.27(Log Mar) (p< 0,001). Mean ECD was 2037 +- 293 cells m/mm2 (range, 1512 to 2832 cells m/mm2) in the IEK group and 1987 +- 260 cells m/mm2 (range, 1698 to 2896 cells m/mm2) in the IEK group and 5151 (range, 486 to 604) in the Manual group (p=0.510). There were no statistically significant differences between the two groups in refraction components: Spherical refraction (p = 0.215), cylindrical negative refraction (p = 0.645) or the axis of cylindric (p = 0.320).	
Two patients from the manual topical backar (Timele)	al group had intra-ocular hypertension and used	
FORMAT: Abstract should contain: Title Author, Co-authors (maximum 6), Purpose, Methods, Results, Conclusion.Conclusion: These prelimina penetrating keratoplasty (PK keratoconus patients with be Keywords: corneal transpl Vacuum trephine.Poster guidelines: ARVO Abstract Book (1.10 x 1.70m)Keywords: Conclusion:	and one patient (3%) from IEK group had endothelial .353). ry results show that femtosecond laser enabled) with mushroom pattern is another possibility for tter 12-month BSCVA than the standard PK. ant; keratoconus; Intralase; Femtosecond laser;	