2007 Research Davs A	Abstract Form – Department of Ophthalmology – UNIFESP/EPM
2. SCIENTIFIC SECTION PREFERENCE (RECULIRED): Review the Scientific section Descriptions. Select and retret the vol -atter Code for the one (1) Section best sullied to review your abstract (RS)	1. FIRST (PRESENTING) AUTHOR (REQUIRED) Must be author listed first in body of abstract () R1 () R2 () R3 () PG0 (X) PG1 () Estagiário () Tecnólogo () PIBIC
3. PRESENTATION PREFERENCE (RECURED) Check one (1) Paper	Barreiro Telma Pereira Last Name First Name Middle REFRACTIVE SURGERY 0520/06 Service (sector) 0520/06 Nº CEP (Comité de Ética em Pesquisa da Universidade Pederal de São Paulo-
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	UNIFESP)
in com pliance with the Declaration of Heisinki and the 'UNIFESP Ethical Committee'	5. ABSTRACT (REQUIRED) Wavefront-guided laser in situ keratomileusis with the Alcon CustomCornea and the Zvoptix: Sixmonth results.
Telma Pereira Barreiro Signature of First	Purpose: To evaluate and compare the visual and clinical outco mes of Wavefront- guided laser in situ keratomileusis (Lasik) with the Alcon CustomCornea and Zvoptix systems.
Scientific Section Descriptions (P0) ORBIT (P1) OGULAP PLASTIC SURGERY (R8) RETRAATMON TO SURGERY (R8) RETRAATMON TO SURGERY (R8) RETRAATMON TO ATHOLOGY (R7) TATABISMIC STATE (R5) LACRIMAL SYSTEM (L5) LACRIMAL SYSTEM (L1) LOW YISION EXTERNAL DISEASE (C3) CALAUCOMA (R5) RETRACTIVE SURGERY (C4) CALAUCOMA (R5) RETRACTIVE SURGERY (C5) COLLAR MUTRASOUND (C6) PEIDEMIOLOGY (C5) PEIDEMIOLOGY	Methods: Prospective, randomized, masked and bilateral study is being conducted. Fifty patients with preoperative spherical equivalent (SE) rangin g from -1.00 to - 6.00 D were enrolled for customized ablation in both eyes. All of them were submitted to LASIK CustomCornea treatment in one eye and Zyoptix in the other eye. Uncorrected visual acuity (UCVA), best correct visual acuity (BCVA), manifest refraction, wavefront measurements, contrast sensitivity testing and subjective vision questionnaire were performed preoperatively and postoperatively at 1, 3 and 6 months. Results: Preoperatively, the CustomCornea group had a mean manifest sphere of - $3,07 \pm 1,56$ doipers (D) (range: -0.75 to -6.00), cylinder of -0.42 \pm 0.42 D (range: 0.00 to -1.25 D), and manifest refractive spherical equivalent (MRSE) of -3,29 \pm 1.56 D (range: -0.75 to -6.00), cylinder of -0.44 \pm 0.42 D (range: -1,51 D (range: -0.75 to -6.00), cylinder of -0.42 \pm 0.42 D (range: -0.88 to -6.00). At 6 months, 86 % of CustomCornea eyes and 70 % of Zyoptix eyes had UCVA ? 2020. Twenty + wo percents of CustomCornea group and 88 % of the eyes in the Zyoptix, were within 0.50 D of emmetropia. In both groups, the contrast sensitivity improved. Spherical equivalent and higher order aberration
Deadline: 29/10/2007	increased in both groups, the CustomCornea group showed lower values (p< 0,001). Conclusion: Wavefront-guided Lasik with both systems is safe and effective. The
FORMAT: Abstract should contain: Title, Name of Authors, Name of other authors (maximum 6), Purpose, Methods, Results, Conclusions. Example: ARVO (1.10 x 1.70) Abstract Book	CustomCornea platform showed lower higher order aberration and spherical aberration.