2009 Research Days A	Substract Form – Department of Ophthalmology – UNIFESP/EPM
SCIENTIFIC SECTION PREFERENCE (REQUIRED): Review the Scientific Section Descriptions. Select and enter the two-letter Code for the	FIRST (PRESENTING) AUTHOR (REQUIRED): Must be the author listed first in abstract body.
one (1) Section best suited to review your abstract.	() R1 () R2 () R3 () PIBIC () PG0 (X) PG1 () Fellow () Technician
3. PRESENTATION PREFERENCE (REQUIRED) Check one: Paper Poster	Last Name:Renesto First Name:Adimara Middle: da Candelaria
☐ FAST Paper	Service (Sector):Refractive Surgery (RS)
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:1915/07
conducted in compliance with the Declaration of Helsinki and the 'UNIFESP Ethical Committee"	5. ABSTRACT (REQUIRED): Title: EVALUATION OF TOPICAL RIBOFLAVIN EXPOSURE TO UVA RADIATION AND IMPLANTATION OF INTRASTROMAL CORNEAL RING SEGMENTS FOR KERATOCONUS
	Author and Co-authors (maximum 6):Adimara da Candelaria Renesto;Mauro Campos;Marta Sartori.
Scientific Section Descriptions (two-letter code): (BE) OCULAR BIOENGINEERING (CO) CORNEA AND EXTERNAL DISEASE (CA) CATARACT (FF) ELECTROPHYSIOLOGY (EP) EPIDEMIOLOGY (EX) EXPERIMENTAL SURGERY	Purpose:To determine whether corneal collagen cross-linking(CXL) with riboflavin and UVA light augments the effect of intrastromal corneal ring segments. Methods:Prospective, randomized, interventional, clinical study.Forty keratoconic eyes were randomized for corneal collagen cross-linking or
(GL) GLAUCOMA (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) REFRACTION-CONTACT LENSES (ST) STRABISMUS (TR) TRAUMA	no.After three months all patients underwent insertion of intrastroma corneal ring segments.Outcomes measures were uncorrected visual acuity (UCVA), best spectacle-corrected visual acuity (BSCVA), intraocula pressure (IOP) taken by contact (Goldmann Applanation Tonometry-GAT and Dynamic Countour Tonometry-DCT) and noncontact (Cornea Compensated-IOPcc and hysteresis), topography, scanning-slit(SL) scheimpflug images(SI), optical coherence methods, contrast sensitivity ultrasound pachymetry(UP), endothelial cell count and impression cytologic(IC).
(TU) TUMORS AND PATHOLOGY (UV) UVEITIS (US) OCULAR ULTRASOUND	Results:We show some preliminary results, because the study is stil running.Central corneal thickness (CCT) and thinnest corneal thickness (TCT) were statistically different when SL and SI values were included
Deadline: Oct 12, 2009	(P<0.001, repeated-measures analysis of variance) in the crosslinking group, at preoperative, one month and three months after treatment. Related to IOP, GAT values did not change significantly during
	these time points.DCT didn't have the same behavior along the baseline, 1 month and 3 months after CXL (P=0.002).A significant difference (P<0.001; P<0.036 and P<0.011) in IOPcc and corneal hysteresis
FORMAT: Abstract should contain: Title	respectively after CXL was observed. Despite impression cytology, patients in cross-linking group showed a decrease in goblet cell density on the superior conjunctiva after CXL (P=0.008). Patients that did not underwen
Author, Co-authors (maximum 6), Purpose, Methods, Results, Conclusion.	CXL demonstrated improvement in cell-to-cell contact of epithelial cells and reduced keratinization on the temporal conjunctiva (P=0.003 and
Poster guidelines: ARVO Abstract Book (1.10 x 1.70m)	P=0.034, respectively). Conclusion: Cross-linking may disturb the values of pachymetry and intraocular pressure taken by different ways of devices. Despite changes in
16	goblet cell density after CXL in the superior conjunctiva, and ar improvement in the morphology of epithelial cells, comparison of total IC scores showed no difference between groups.
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Keywords: keratoconus; riboflavin; crosslinking;