

**2007 Research Days Abstract Form – Department of Ophthalmology – UNIFESP/EPM**

2. SCIENTIFIC SECTION PREFERENCE (REQUIRED): Review the Scientific section Descriptions. Select and enter the two -letter Code for the one (1) Section best suited to review your abstract  
**GL**

3. PRESENTATION PREFERENCE (REQUIRED) Check one (1)  
 (a) Paper  
**(b) Poster**

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 in compliance with the Declaration of Helsinki and the UNIFESP Ethical Committee"

\_\_\_\_\_  
 Signature of First

Scientific Section Descriptions  
 (OR) ORBIT  
 (PL) OCULAR PLASTIC SURGERY  
 (RE) RETINA / VITREOUS  
 (RX) REFRACTION-CONTACT LENSES  
 (NO) NEURO-OPHTHALMOLOGY  
 (TU) TUMORS AND PATHOLOGY  
 (ST) STRABISMUS  
 (UV) UVEITIS  
 (LS) LACRIMAL SYSTEM  
 (LV) LOW VISION  
 (CO) CORNEA / EXTERNAL DISEASE  
**(GL) GLAUCOMA**  
 (RS) REFRACTIVE SURGERY  
 (CA) CATARACT  
 (US) OCULAR ULTRASOUND  
 (TR) TRAUMA  
 (LA) LABORATORY  
 (BE) OCULAR BIOENGINEERING  
 (EP) EPIDEMIOLOGY  
 (EF) ELECTROPHYSIOLOGY

Deadline: 29/10/2007

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

1. FIRST (PRESENTING) AUTHOR (REQUIRED)  
 Must be author listed first in body of abstract  
**( X ) R1** ( ) R2 ( ) R3  
 ( ) PG0 ( ) PG1 ( ) Estagiário ( ) Tecnólogo ( ) PIBIC  
 Magalhães, Fernanda Pedreira  
 Last Name First Middle  
 Glaucoma 1537/07  
 Service (sector) Nº CEP

5. ABSTRACT (REQUIRED)  
 Effects of prostaglandin analogue and prostamide on corneal biomechanics  
 Fernanda P. Magalhães, Luis Biteli, Tiago S. Prata, Luiz Alberto S. Melo Jr.  
 Purpose: To evaluate the influence of prostaglandin analogues and prostamide on central corneal thickness and corneal hysteresis.  
 Methods: A cross-sectional study was performed including glaucoma patients with no previous intraocular surgery. Two groups were formed: Prostaglandin group - patients using prostaglandin analogues (latanoprost or travoprost) or prostamide (bimatoprost); Control group - patients not using antiglaucoma medication. Data on intraocular pressure (Goldmann applanation tonometry), central corneal thickness (ultrasound pachymetry), corneal hysteresis, and corneal resistance factor were analyzed.  
 Results: Results: A total of 8 patients (12 eyes) in the prostaglandin group and 11 patients (14 eyes) in the control group were included. The mean (standard deviation [SD]) intraocular pressure in the prostaglandin group was 17.5 (6.3) mmHg and in the control group was 27.7 (6.0) mmHg (P < 0.001). The mean (SD) central corneal thickness in the prostaglandin group was 520.0 (30.9) µm and in the control group was 538.9 (38.4) µm (P = 0.25). The mean (SD) corneal hysteresis in the prostaglandin group was 8.68 (2.00) mmHg and in the control group was 7.82 (1.23) mmHg (P = 0.24).  
 Conclusion: Prostaglandin analogues and prostamide do not seem to alter the central corneal thickness and corneal hysteresis. Larger studies are needed to confirm these findings.