2009 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.

3. PRESENTATION PREFERENCE (REQUIRED) Check one:
☐ Paper
x Poster
☐ FAST Paper

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"

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Scientific Section Descriptions (two-letter code):

(BE) OCULAR BIOENGINEERING
(CO) CORNEA AND EXTERNAL DISEASE
(CA) CATARACT
(EF) ELECTROPHYSIOLOGY
(EP) EPIDEMIOLOGY
(EX) EXPERIMENTAL SURGERY
x(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) REFRACTION-CONTACT LENSES
(ST) STRABISMUS
(TR) TRAUMA
(TU) TUMORS AND PATHOLOGY
(UV) UVEITIS
(US) OCULAR ULTRASOUND

Deadline: Oct 12, 2009

FORMAT:
Abstract should contain:
Title
Author, Co-authors (maximum 6), Purpose, Methods, Results, Conclusion.

Poster guidelines:
ARVO Abstract Book (1.10 x 1.70m)

108. FIRST (PRESENTING) AUTHOR (REQUIRED):
Must be the author listed first in abstract body.

( ) R1 ( ) R2 (x) R3 ( ) PIBIC
( ) PG0 ( ) PG1 ( ) Fellow ( ) Technician

Last Name: Gonçalves
First Name: Samuel
Middle: Ribeiro

Service (Sector):Glaucoma

CEP Number: 085/98

5. ABSTRACT (REQUIRED):

SELECTIVE LASER TRABECULOPLASTY FOR PRIMARY OPEN-ANGLE GLAUCOMA

Samuel R. Gonçalves, Luiz A. S. Melo Jr., Gisele T. Shinzato, Mirian Skaf, João A. Prata Jr.

Purpose: To analyze the intraocular pressure (IOP) after selective laser trabeculoplasty (SLT) for primary open-angle glaucoma.

Methods: Eighteen eyes of 18 patients with primary open-angle glaucoma were selected. The patients underwent ophthalmologic evaluation at preoperative and 1 hour, 2 hours, 1 day, 1 week and every month after SLT. The SLT were performed using the Q-switched, frequency-doubled Nd:YAG laser – Coherent Selecta 7000. It was defined as success criterion a reduction in IOP equal or greater than 3 mmHg between preoperative and postoperative IOP after the first month of SLT.

Results: There were no statistically significant differences between the IOP in the first two hours after SLT and preoperative level. From the first day after SLT, the IOP reduced in comparison with the preoperative level. In the 6^{th} month, the mean reduction in IOP was 3.5 mmHg (16%) ($P<0.001$). The cumulative proportion surviving in the 12^{nd} month was 0.26. The median survival time was 3 months.

Conclusion: The SLT appears to be a safe method with a fast onset of effect but limited duration for primary open-angle glaucoma.

Keywords: Trabeculoplasty; Glaucoma; Laser; Intraocular pressure