

**2009 Research Days Abstract Form – Department of Ophthalmology – UNIFESP/EPM
 Centro de Estudos Prof. Flavio W. Rodrigues-Osasco-Brazil
 Cerpo oftalmologia-São Paulo-Brazil**

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
- 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'

Scientific Section Descriptions (two-letter code):

- (BE) OCULAR BIOENGINEERING
- (CO) CORNEA AND EXTERNAL DISEASE
- (CA) CATARACT
- (EF) ELECTROPHYSIOLOGY
- (EP) EPIDEMIOLOGY
- (EX) EXPERIMENTAL SURGERY
- (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)

104. FIRST (PRESENTING) AUTHOR (REQUIRED):

Must be the author listed first in abstract body.

- () R1 () R2 () R3 () PIBIC
- () PG0 () PG1 (X) Fellow () Technician

Last Name: Júnior
 First Name: Eglailson
 Middle: Dantas Almeida

Service (Sector): Glaucoma(GL)

CEP Number:00120389000-08

5. ABSTRACT:

Selective laser trabeculoplasty vs argon laser trabeculoplasty: effects on intraocular pressure after 3 months

Eglailson D Almeida Júnior; Tiago S Prata;Rodrigo A B Fernandes; André S Camargo

Purpose: To compare the short-term results (3 months follow-up) of argon laser trabeculoplasty (ALT) and selective laser trabeculoplasty (SLT) in patients with open-angle glaucoma (OAG).

Methods: Comparative, interventional, non-randomized case series in which OAG patients with clinically uncontrolled intraocular pressure (IOP) underwent ALT or SLT using standardized parameters. Preoperative and postoperative IOP, number of antiglaucoma medications, best-corrected visual acuity, procedure complications and any subsequent related events were recorded.

Results: A total of 14 patients (7 ALT and 7 SLT) were enrolled. Mean age was similar between ALT (70.5±9.7 years) and SLT (65.2±12.3 years) groups (p=0,39). There was no significant difference regarding number of antiglaucoma medications and percentage of patients with pigmentary or pseudoexfoliative glaucoma between groups (p>0.31). Mean IOP was reduced from 20mmHg to 13.7mmHg(±2,51mmHg) at last visit after SLT (p<0.01). After ALT, mean IOP was reduced from 20.4mmHg to 15.6mmHg(±1,67mmHg) at last visit (p<0.01). No significant difference was found regarding magnitude of IOP reduction between groups (p=0.85). No patient developed procedure related complications during follow-up.

Conclusion: These preliminary results suggest that both procedures are effective and safe alternatives for glaucoma management. A greater number of patients and longer follow-up are necessary to confirm these findings and evaluate procedure related complications.

Keywords: glaucoma, argon laser trabeculoplasty, selective laser trabeculoplasty