

**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
- 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
- (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 13, 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)

**37. FIRST (PRESENTING) AUTHOR (REQUIRED):**

Must be the author listed first in abstract body.

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

Last Name: Lake  
First Name: Jonathan  
Middle: Clive

Service (Sector): CA

CEP Number: 009/04

**5. ABSTRACT (REQUIRED):**

Title

**FUNCTIONAL ASSESSMENT OF A SYSTEM OF STEREOSCOPIC PROJECTION OF CRYSTALLINE LENS SURGERIES IN EXPERIENCED SURGEONS**

Author and Co-authors (maximum 6)  
Jonathan C. Lake Lincoln L. Freitas; Rubens Belfort Jr.

Purpose: To analyze the outcome of the spatial perception of stereoscopic and non-stereoscopic projections of cataract surgeries in 10 surgeons with a previous experience of 500 to 7000 cataract surgeries.

Methods: Data was obtained from a questionnaire that used binomial variables and visual analog scales for evaluation of differences between randomly distributed stereoscopic and non-stereoscopic projections of cataract surgeries. Answers of 10 surgeons with high levels of experience (over 500 surgeries) were grouped in order to establish a profile of behavior of variation of answers during perception of surgical situations with or without stereo projection. Variations were computed and compared with a previously established gold standard.

Results: Variation was high within this group of surgeons. The rate of correct identification of stereopsis in this group was similar to rates identified in previous studies with different levels of experience. Mean scores on the visual analog scales and binomial variables followed the same trend.

Conclusion: Higher surgical experience did not decrease variation of answers of stereo and non-stereo projections of cataract surgeries.

Keywords: Steroscopic projection, video, cataract