

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'

Scientific Section Descriptions (two-letter code):

- (BE) OCULAR BIOENGINEERING
- (CO) CORNEA AND EXTERNAL DISEASE
- (CA) CATARACT
- (EF) ELECTROPHYSIOLOGY
- (EP) EPIDEMIOLOGY
- 1- (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
- 2- (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)

54. FIRST (PRESENTING) AUTHOR (REQUIRED):

Must be the author listed first in abstract body.

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

Last Name: Kirsch

First Name: David

Middle:

Service (Sector): Strabismus

CEP Number: CEP 0446/09

5. ABSTRACT (REQUIRED):

Title: Preliminary results of the study: "The Use of amniotic Membrane in reducing Adhesions after strabismus surgery: Experimental study in rabbits."

Author and Co-authors (maximum 6)

David Kirsch, Marcia Lowen, Monica Fialho Cronemberger, Elcio Hideo Sato.

Purpose: to assess the efficacy of amniotic membrane in reducing inflammatory response and the formation of adhesions after strabismus surgery in rabbits.

Methods: A prospective double-blind, two phase trial was done. In the first phase, 20 rabbits suffered a bilateral recession of the superior rectus. In one eye, a human amniotic membrane was placed stromal side up on the exposed sclera under the recessed muscle and then it was folded to wrap the muscle, without sutures just behind the muscle inserction. In the contralateral eye the same procedure was done, but without using the amniotic membrane. Fifteen days latter, the animals were exenterated, and the material of the site of muscle reinsertion was submitted to qualitative and quantitative analyses. On the second phase, the same procedure was done in more 10 rabbits, but the animals were exenterated thirty days latter.

Results: Until this moment, we have only the first phase results. After fifteen days, the eyes within amniotic membrane had more inflammatory response, but less fibrosis, than the eyes without amniotic membrane.

Conclusion: The amniotic membrane in strabismus surgery increases the inflammatory response, fifteen days after strabismus surgery. Although, we are waiting for the second phase results to have a better conclusion.

Keywords Strabismus, adhesions, amniotic membrane, cicatrix.