**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 sullied 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 aut hors, hereby certifies.
That any research reported was conducted in compliance with the Declaration of Heisinki and the 'UNIFESP Ethical Committee"

Sidarta Keizo Hossaka
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

( ) R1 **( X ) R2** ( ) R3
( ) PG0 ( ) PG1 ( ) Estagiário ( ) Tecnólogo ( ) PIBIC

| Hossaka | Sidarta | Keizo |
|---|---|---|
| Last Name | First | Middle |

Glaucoma 1556/07

Service (sector) Nº CEP

**PORCINE PERICARDIUM AS GLAUCOMA IMPLANT TUBE COVERAGE – AN EXPERIMENTAL STUDY**

S.K. Hossaka, L.M. Pinto, C.S. Regatieri, I.M. Tavares and M.P. Rigueiro

***Purpose:*** To evaluate the inflammatory response associated with the use of porcine processed pericardium and glycerin -preserved homologous sclera as tube shunt coverage in rabbit experimental model.

***Material and Methods:*** Eight eyes of eight New Zealand white rabbits were assigned to receive either same -sized glycerin -preserved homologous scleral patches or double-layered porcine processed pericardium that were sutured to bare sclera covering a silicone tube. Conjuntival hyperemia was graded in a masked way on t he immediate postoperative period and then at the first, third, and seventh postoperative weeks, and after the seventh week the enucleated eyes were histopathologically examined. They were also evaluated for signs of patch graft melting, tube erosion and chemosis.

***Results:*** There was no occurrence of graft melting or tube exposure although porcine pericardium was associated with more inflammation on clinical observation. Light microscopy revealed marked inflammatory reaction surrounding the porcine pericardium with foreign body granuloma formation. On the other hand, in the sclera group, inflammatory reaction was milder with foreign body granulomas only around the sutures.

***Conclusion***: Porcine pericardium is associated with significant inflammation when used as tube coverage in a rabbit model at both histopathologic and clinical level, comparing with glycerin-preserved homologous sclera.