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PIBIC Last Name - Unchalo First Name - Gabriela Middle - Eckert

Service (sector) Strabismus N° CEP

### **Animal Model of Strabismus Surgery**

Gabriela Unchalo Eckert Ana Paula Guimarães Donato Marcelo Gianelli  
Lobato Lincoln de Freitas Márcia Keiko Tabuse

**Abstract Purpose:** To develop an animal model in order to improve surgeon's abilities in strabismus surgery. **Methods:** A half pig head cut in a sagittal plane was used, taking care to preserve orbital content. Strabismus surgical instrumental was used for the dissection of the anatomical structure (strabismus hook, Westcott scissors, forceps, wire speculum, needle holder and 6-0 vycril suture). **Results:** An animal model was created to practice extraocular muscles surgeries. Pigs were chosen because of its similarity with the human's eye anatomy. In this model we performed different types of strabismus surgery as recession, resection, faden operation and z-myectomy . **Conclusion:** This was the first strabismus animal model reported. In our opinion, it will be useful to develop beginner surgeon's abilities. Nowadays, strabismus surgery under topical anesthesia is a very common procedure and the training in an animal model will be of great importance, in order to avoid surgical complications.