

R1  R2  R3  PG0  PG1  Estagiário  Tecnólogo   
PIBIC Last Name - Blumer First Name - Marcel Middle - Eduardo

Service (sector) Glaucoma N° CEP

**EXPERIMENTAL DRUG ADMINISTRATION IN THE ANTERIOR CHAMBER OF RATS Blumer, M.E.; Campos, R.R.; Paranhos, A.**

The aim of this study was to test an alternative way of injecting drugs in the anterior chamber (AC) of rats (*in vivo*). The effects of Tempol, an antioxidative substance, in the intraocular pressure (IOP) was also studied. **Method:** Two groups (6 animals each) of Wistar male rats were used: the former had only IOP invasively measured and the second group had IOP measured during Tempol injection in the AC. Animals were previously anesthetized with urethane 40% intra-peritoneal. The measurements of IOP were achieved through a sensor (BP 100-iWorx, CB Sciences) attached to a 27G needle placed in AC. Tempol was injected through a glass micropipette (tip of 20 mm approximately) also placed in the AC. All the experiment was held in a stereotaxic device (KOPF) and IOP was registered online (sensor linked to a PC-PowerLab, ADInstruments). **Results:** The mean IOP was 13,5mmHg ( $\pm 3,3$ mmHg). The injection up to 180 nL of Tempol (0,1nmol/nL) did not produce any kind of alteration in IOP. **Conclusions:** The presented method is a precise and easy way of experimental drug administration in the AC. Furthermore, the intracameral injection of Tempol is not able to lower IOP in non glaucomatous rats.