

ABSTRACT

Purpose : To analyze the effect of intraocular ischemia reperfusion to glutathione plasma level (GSH) on Wistar rats

Methods : An experimental study was conducted. Thirty two Wistar rats were divided into 2 groups, control group and experimental group. Experimental group were induced by transient elevation of intraocular pressure (IOP) 110-130 mmHg for 60 minutes. 32 rats blood sample taken from the heart at day 7 to evaluate plasma level of glutathione (GSH). The data was analyzed with Mann-Whitney test

Result : The mean plasma levels of glutathione in control group was 17.093 $\mu\text{g/mL}$, while in experimental group was 9.137 $\mu\text{g/mL}$. $p=0.101$

Conclusion : There was no difference glutathione plasma level between the two groups, but the trend obtained plasma level of glutathione in ischemia reperfusion group is lower than control group.

Keywords : Ischemia Reperfusion, Glutathione plasma level, Apoptosis RGCs

