

R1 R2 R3 PG0 PG1 Estagiário Tecnólogo
PIBIC Last Name - Tavares First Name - Ivan Middle - Maynard

Service (sector) Glaucoma N° CEP

Non-contact tonometry: repeated measures variations with and without anesthetic drops.

Ivan Maynard Tavares, Luiz Alberto Soares de Melo Junior, Fabiana Shinzato Higa, Paulo Augusto de Arruda Mello, Augusto Paranhos Junior.

Purposes: to evaluate the influence of the previous instillation of anesthetic eye drops, as well as to verify the intra-ocular pressure (IOP) performance with adaptation to the noncontact tonometry (NCT).

Methods: a randomized double-masked study in which 24 eyes of 24 normal volunteers were studied, allocated in group I (NCT with anesthetics instillation) and in group II (NCT with placebo instillation). IOP was measured in three different visits, with an interval of 1 to 3 days.

Results: IOP measured with GAT was the only predictor variable which was statistically significant ($p < 0.05$) for NCT. There was neither correlation between the visits and the groups ($p = 0.906$), nor difference between the groups ($p = 0.884$) or among the visits ($p = 0.144$). We found a better correlation in group II (placebo) when related to group I (anesthetics) in all visits, but this difference was not statistically significant ($p = 0.4853$).

Conclusions: in this study the previous instillation of anesthetics eye drops and normal individuals' adaptation to the NCT did not demonstrate significant influence on IOP measures with this method.