

**COMPARATIVE STUDY BETWEEN COMBINED GENERAL
ANESTHESIA WITH PERIBULBAR BLOCK VERSUS
TRADITIONAL GENERAL ANAESTHESIA IN PATIENTS
UNDERGOING STRABISMUS SURGERY: *A RANDOMIZED
DOUBLE BLINDED CONTROLLED CLINICAL TRIAL***

BY

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COMPARATIVE STUDY BETWEEN COMBINED GENERAL ANESTHESIA WITH PERIBULBAR BLOCK VERSUS TRADITIONAL GENERAL ANAESTHESIA IN PATIENTS UNDERGOING STRABISMUS SURGERY: A *RANDOMIZED DOUBLE BLINDED CONTROLLED CLINICAL TRIAL*:

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Abstract:

Background and objective:

Oculocardiac reflex is one of the main complications that face anesthesiologists during strabismus surgery. After the usage of peribulbar block to general anesthesia as a prophylaxis in reducing the incidence of oculocardiac reflex, Post-operative nausea and vomiting is questionable. The objective of the current study was to evaluate the efficacy of adding peribulbar block to general anesthesia in reducing the incidence of oculocardiac reflex in patients undergoing unilateral strabismus surgery and to evaluate the effect of peribulbar block with general anesthesia on and postoperative pain.

Methods: This prospective randomized controlled double-blinded study compared adding peribulbar block to general anesthesia in decreasing the incidence of oculocardiac reflex in Patients aged 10 years to 50 years, American society association physical status I, II who will be scheduled for a unilateral strabismus. Patients were followed up for 24 hours postoperative. The primary outcome was incidence of oculocardiac reflex. Secondary outcomes included visual analog scale scores, postoperative complications as nausea and vomiting.

Results: Incidence of oculocardiac reflex was higher in group received general anesthesia than in group received peribulbar block with general anesthesia (25.7% vs. 5.7%) which was a statistically significant, $p=0.022$.

Also, incidence of nausea and vomiting was a statistically significantly higher in group general anesthesia than the other group (42.9% vs. 17.1%), $p=0.019$

Conclusion: peribulbar block combined with general anesthesia decreased the incidence of oculocardiac reflex and provided intra-operative and postoperative analgesia and postoperative nausea and vomiting superior to general anesthesia only.

Keywords: Peribulbar block, Oculocardiac reflex, Strabismus surgery.