

## Peribulbar adjuvant to general anesthesia versus general anesthesia alone in strabismus surgery: Randomized clinical trial

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**Background:** To evaluate the effect of adding Peri Bulbar Block (PBB) to General Anesthesia (GA) on Oculocardiac Reflex (OCR), Blood Pressure (BP), volume concentration of isoflurane consumed during surgery, postoperative pain, nausea and vomiting in strabismus surgery

**Methods:** 210 patients undergoing unilateral squint operations were divided into 2 groups of 105 patients each. Group 1 (Control group) received GA alone. Group 2 received GA with peribulbar block (PBB group). The primary outcomes were the incidence OCR, blood pressure; systolic (SBP) & diastolic (DBP). The secondary outcomes were intraoperative volume concentration of isoflurane, number of cases that needed atropine, opioids, ondansetron and ephedrine, postoperative pain scores, Post-Operative Nausea and Vomiting (PONV).

**Results:** The incidence of OCR and PONV was significantly higher in group 1 than in group 2 (36.2% vs. 7.6% and 41.9% vs. 16.2%, respectively,  $p < 0.0001$ , both), HR, systolic BP and diastolic BP were significantly lower in group 1 than group 2 at minute 15 and 20 ( $P \leq 0.001$ ). Postoperative pain scores were significantly lower in group 2 than group 1 ( $P \leq 0.04$ ). Volume concentration of isoflurane was significantly higher in group 1 than group 2,  $p < 0.0001$ . There was significant difference between study groups regarding intake of atropine ( $P < 0.001$ ), morphine ( $p = 0.0002$ ), ondansetron ( $P < 0.001$ ).

**Conclusions:** In strabismus surgery, PBB with GA reduced the incidence of OCR intraoperative volume concentration of isoflurane and atropine, postoperative pain, PONV analgesics and antiemetics.

### Biography

Khaled G Abu Eleinen is a renowned Ophthalmology Professor. Khaled G Abu Eleinen is working in Department of Ophthalmology, Faculty of Medicine, Cairo University, Egypt and Department of Ophthalmology, Fayoum eye hospital, Egypt. He has published many articles in reputed journals.