



Evaluation of Extra Oxygen Intake during Appendicitis Surgery on Postoperative Nausea and Vomiting

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ABSTRACT

Introduction: Postoperative nausea and vomiting, or PONV, is the most common and annoying complication after anesthesia. It is observed in about 20-70% of all surgeries and is one of the important causes of morbidity and cost increase. Studies have shown that oxygen administration at higher concentrations during surgery has reduced PONV. The current study investigated the effect of extra oxygen during appendicitis surgery on nausea and vomiting after surgery.

Search Strategy: This study was conducted experimentally on 60 patients undergoing appendicitis surgery in Pastor Bam Hospital. Patients were randomly divided into groups receiving 100% oxygen (group 100) and those receiving 30% oxygen (group 30). Participants had travel sickness, smoking, reflux, migraine, or taking anti-nausea medication one day before the operation, and obese patients were excluded from the study.

Results: There was no significant difference in nausea and vomiting in the two groups receiving oxygen 100 and 30 in the recovery room ($p > 0.05$). Also, the comparison of the two groups in the surgical department did not show any significant difference ($p > 0.05$).

Conclusion and Discussion: The findings show that using excess oxygen does not improve nausea and vomiting after appendicitis surgery.

Keywords: Anesthesia, Oxygen, Postoperative nausea and vomiting