

Comparing the Effect of Ondansetron, Dexamethasone and Their Combination in Reducing Nausea and Vomiting Following Laparoscopic Cholecystectomy in patients referred to Semnan Kosar Hospital, 2016.

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Introduction: Nausea and vomiting after surgery is anesthesia complications, which can be an unpleasant feeling of pain associated with surgery, and it is more uncomfortable. Therefore, this study aimed to compare the effect of dexamethasone; ondansetron and combination of both in the prevention of nausea and vomiting after laparoscopic cholecystectomy in patients were admitted to Kowsar hospital in Semnan. **Methods:** In this randomized double blind clinical trial, 90 patients undergoing laparoscopic cholecystectomy in Semnan Kosar hospital operating room in 2016, using Block Stratified Randomization in three groups of 30 (group A: 16 mg of dexamethasone IV, group II: ondansetron 4 mg intravenously and group III: 4 mg, 8 mg ondansetron + dexamethasone intravenously) were divided. Nausea and vomiting and the need for additional medication in the Patients were studied in the recovery room, 6 and 24 hours after surgery. **Results:** 90 patients with mean age of 49.63 and 12.65 year respectively (84.4% female) and body mass index of 26.67 ± 2.94 kg per square meter, systolic blood pressure 153.06 ± 19.97 mm Hg and diastolic 97.10 ± 17.27 mm Hg were studied. Overall, 34 patients (37.8%), nausea and 10 patients (11.1%) have vomiting. In the Dexamethasone + ondansetron groups, dexamethasone and ondansetron, the overall incidence of nausea were 26.7, 40.0 and 46.7 percent respectively. The overall incidence of vomiting was 6.6, 13.3 and 13.3 percent respectively. Nausea and vomiting among various groups, in ondansetron + dexamethasone group, the association was significantly higher than other groups, but between dexamethasone and ondansetron, there was no significant difference in this respect. **Conclusion:** The effectiveness of ondansetron and dexamethasone simultaneous use of two drugs in reducing nausea and vomiting after laparoscopic cholecystectomy surgery is the most of these drugs separately; the difference of the effectiveness of ondansetron and dexamethasone separately is not significant.