

## A Comparative Study of Granisetron and Palonosetron in Postoperative Nausea and Vomiting Following Laparoscopic Surgery

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**Abstract :** A prospective randomized comparative study for the prevention of postoperative nausea and vomiting in the patients undergoing general anesthesia ,for elective laparoscopic surgeries with respect to efficacy and side effects of granisetron and palonosetron. Sixty adult patients of class ASA 1,2 of either sex in age group between 20-70 yrs,scheduled for elective laparoscopic surgeries were selected for the study.Patients were randomly divided into two groups 30 each. Group G: Granisetron group (n=30), 40µg/kg; Group P: Palonosetron group (n=30), 0.075 mg. at end of surgery before extubation group G patients 40 µg/kg of inj.granisetron and group P patients received 0.075 mg of inj.palonosetron slow iv over 30 sec.In post anesthesia care unit, episodes of nausea and vomiting experienced by each patient was recorded by direct questioning the patient .study medication was assessed in terms of incidence of nausea and vomiting during periods of 0-4 hrs,4-12 hrs,12-24 hrs,24-48hrs.our study demonstrated that complete response for those patients who received granisetron were 86.66%,80% and 66.66% ,while those received palonosetron were 100%,86.6%,90% between 0-4hrs,4-12hrs,12-24 hrs. It shows no statistically significant differences between the baseline values of hemodynamic variables between two groups during study.

Keywords: Granisetron, nausea, palonosetron, vomiting.

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