To Compare Efficacy and Cost Effectiveness of Different 5\textsuperscript{th} 3 Blockers in Acute and Delayed Nausea and Vomiting: A Randomized Study

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AIM: To compare efficacy and cost effectiveness of three different 5-HT3 blockers in controlling early and delayed nausea and vomiting following chemotherapy.

Materials and method: 30 patients in each group of advanced head and neck malignancy were given cisplatin based induction chemotherapy. All received anti emetics before and during chemo(group 1: condensation iv 16mg prechemotherapy and 8mg iv tds during infusion, group 2: granisetron 3mg iv prechemo and 3mg iv during chemo infusion, group 3: palonosetron 0.25mg iv prechemo). Nausea & vomiting were assessed according to common toxicity criteria for a period of 3 days baseline was matched for age group, stage and histology of tumor.

Result: Among the 78 patients who completed the study, group 2 had 2 & 4 cases respectively of acute and delayed emesis that was significantly lower than the other 2 groups (6 and 11 for group 1 and 2 & 10 for group 3), also overall cost in controlling delayed nausea & vomiting was much lower in group 2.

Conclusion: the study reflects that granisetron group was the best 5HT3 blocker in terms of efficacy and cost effectiveness to control acute and delayed nausea and vomiting taking into account the Indian patient with respect to economic and health status.

Keywords: 5HT-3 blockers, chemotherapy, delayed nausea and vomiting.

Biography

Piyush Shukla has completed his MD in Radiation Oncology at the age of 28 from Barkatullah University Bhopal M.P. He is presently working as a Senior Resident in the department of Radiotherapy at All India Institute Of Medical Sciences N.Delhi. One of his papers has been selected in TRICITY H\&N CANCER meet 2011 at Singapore.