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**Incidence of Postoperative Nausea and Vomiting in Patients Undergoing Anterior Cervical Fusion**

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Postoperative nausea and vomiting (PONV) is one of the most unpleasant side effects encountered in the post anesthetic period, with an overall incidence of up to 35% for all surgical procedures. Severe PONV is not only distressing to the patients, but it also can cause increased intracranial pressure and wound dehiscence. In this study, patients undergoing anterior cervical fusion were followed. In this subgroup of patients, PONV can also result in bleeding and hematoma formation at the operative site, airway obstruction, aspiration pneumonitis, and displacement of the cervical bone graft with possible deleterious neurological consequences. Additionally, protracted PONV can increase post anesthesia care unit (PACU) time and length of hospital stay with a resultant increase in medical costs. The objectives of this study are to evaluate the efficacy and safety of different antiemetic regimens in this subgroup of neurosurgical patients. The main outcome measures are emetic episodes and safety assessment during two follow-up periods: 0–2 hours in the PACU and 2–24 hours in the ward after receiving anesthesia.