

Anti-Emetics

Drugs	MOA	Uses	Side effect
1) H1-receptor antagonists Promethazine Cyclizine Meclozine	Centrally acting. Diphenhydramine: For Long Journey (Motion sickness).	Prophylaxis of motion sickness. Vestibular disorders → Meniere's disease . Severe morning sickness of pregnancy (If absolutely essential → Promethazine In late pregnancy).	Sedation. Some has anti- cholinergic side effect.
2) Anticholinergics Hyosine	For short Journey of motion sickness.	Motion sickness (drug of choice).	Anti-cholinergic effect.
3) D2-receptor antagonists Metoclopramide Phenothiazines Domperidone	a. Phenothiazines (thiethylperazine): b. Metoclopramide (Plasil[®]): Act on dop & 5HT R. → better. c. Domperidone (Motilium[®]): Neuroleptics: chlorpromazine (CPZ) orally, parentally, suppository.	Uses: Vomiting caused by uraemia, radiation, viral gastroenteritis, severe morning sickness of pregnancy (if absolutely essential). Uses: Orally- half life 4 -5 hr. Vomiting caused by post operative & toxins, uremia, radiation (central action on CTZ). Reflux esophagitis (peripheral action). Gastrointestinal disorders, cytotoxic drugs . Used for vomiting due to chemotherapy - induced emesis.	Side effect Extrapyramidal symptoms (Parkinson like symptoms) . Doesn't reach the brain → no extra-pyramidal effect . Side effects: Hypotension, sedation, restlessness, extrapyramidal symptoms . General side effect: dystonic reactions, galactorrhea, menstruation disorders, sedation → metoclopramide .
4) 5-HT3 receptor antagonists (new) Ondansetron Granisetron Tropisetron	Ondansetron Orally, long duration of action.	They mainly used for nausea & vomiting caused by cytotoxic anticancer drugs (cisplatin) (drugs of choice) . Postoperative vomiting: radiation-induced vomiting.	Side Effects: Constipation
5) Cannabinoids Nabilone Dronabinol		Vomiting caused by cytotoxic anticancer drugs .	Side effect: Sedation, hallucination & dysphoria
6) Glucocorticoids Dexamethasone methylprednisolone	MOA: Unknown.	Uses: Acute emesis alone or combined with CPZ or ondansetron , Vomiting by cytotoxic anticancer drugs .	Side Effects: Hyperglycemia , Hypokalemia, HTN, Alkalosis, Insomnia. 7) Vitamin B6: Pyridoxine Used in vomiting with pregnancy (morning sickness)