

5HT₃ - receptor antagonists. [Antiemetics].

Ondansetron — prototype drug.

antiemetic effect — due to blockade of 5HT₃ receptor on vagal afferents in the gut.

Also blocks 5HT₃ receptors in CTZ
solitary tract nucleus.
[central action].

Pk: well absorbed by oral administration

Also IV.

Granisetron — more potent; longer acting > ondansetron

— transdermal patch.
for cancer chemotherapy
induced vomiting.

Palonosetron — longest duration of action.
~~duration~~

Ramosetron — orally & intravenously.

Uses.

- against nausea & vomiting.
- combination with dexamethasone/diazepam/
aprepitant enhances antiemetic efficacy.
- Ineffective against motion sickness.
- Palonosetron — effective in preventing delayed emesis.
- Hyperemesis of pregnancy, postoperative,
postanaesthetic & drug induced vomiting
- Ramosetron — Irritable bowel syndrome with diarrhoea