Ondansetron is a selective serotonin 5-HT3 receptor antagonist or blocker. It may be act both centrally (brain) and peripherally (vagus nerve) to relieve nausea.

Indications:

1. Severe nausea.
2. To prevent nausea.
3. To control vomiting.

Administration:

1. **Adult:**
   a. 4-8 mg IV or IO over 1-2 minutes. For additional doses, medical control must be consulted.
   b. 4-8 mg IM. For additional doses, medical control must be consulted.
   c. 4-8 mg ODT (carefully remove from wrapper and immediately place on or under tongue). For additional doses, medical control must be consulted.
2. **Pediatric** (under 40 kg and > 4 years)**:**
   a. 0.1 mg/kg IV or IO over 1-2 minutes, max 4mg.
   b. 4 mg ODT (ODT doses cannot be divided, expect some sedation).

Notes:

1. The safety of Zofran in pregnancy has not been established, therefore consult with medical control before giving to women who are pregnant or suspected to be pregnant.
2. May cause headache and dizziness.
3. May not stop severe vomiting. Phenergan may be tried when Zofran has failed, but be cautious of the sedating effects of Phenergan.
4. Patients on certain medications, such as apomorphine may develop hypertension when given Zofran.