

This document is for **reference only**. Please refer to SWO's for specific indications, dosages, and applications



**DRUG NAME:** Ondansetron HCL

**TRADE NAME:** Zofran, Zofran ODT  
**REVISED:** December 01, 2022

**Class:**

Anti-emetic, Selective Serotonin (5HT3) Receptor Antagonist

**Mechanism of Action:**

Ondansetron reduces the activity of the vagus nerve, which activates the vomiting center in the medulla oblongata, and also blocks serotonin receptors in the chemoreceptor trigger zone. It has little effect on vomiting caused by motion sickness,

**Indications:**

Moderate to severe Nausea, Vomiting

**Contraindications:**

- Hypersensitivity to the drug.
- Prolonged QT syndrome
- Concurrent use of Apomorphine (Apokyn), an anti-Parkinson drug.

**Precautions:**

- Not well studied in children less than 2 years of age
- Use with caution with patients concurrently using drugs which effect QT interval (i.e., Procainamide, Amiodarone, TCA's, Haldol)
- Use with caution with hepatic impairment (consider prolonging dosage intervals or decreasing dose)

**Dosage:**

**Adults:**

- **IV/IO/IM/ODT:**
  - 4 mg, repeated once in 10 minutes PRN

**Pediatrics: (>2 years of age)**

- **ODT:** 4 mg
  - Hold for children < 2 years of age or < 20 kg
  - Repeat one time in 10 minutes, if needed, or consider IM/IV/IO Zofran (ALS only)
- IV/IO/IM- 0.15 mg/kg IV/IO, MAX of 4 mg/Dose.
  - Repeat one time in 10 minutes, if needed

**Duration:**

- 2-4 hours

**Side Effects:**

- Sedation
- Hypotension
- Tachycardia
- Angina
- EPS (Rare)
- Torsades de Pointes (rare)
- Constipation

**DRUG: ONDANSETRON HCL**

RX

This document is for **reference only**. Please refer to SWO's for specific indications, dosages, and applications

**Interactions:**

**Additive effects with medications that prolong Q-T interval.**  
Additive CNS depressant effects

**PEARLS:**

**Do not use Zofran concurrently with Procainamide, Haldol, or Amiodarone due to QT prolongation.**

- **Pregnancy Class B** - Usually safe but benefits must outweigh the risks. Ondansetron showed no benefit over the antiemetic Promethazine (Phenergan) (Pregnancy Class C) for Hyperemesis Gravidia (HEG) in a double blinded randomized study. It may be used for cases refractory to other treatments/drugs.
- The rate of IV administration should not be less than 30 seconds and preferably over 2-5 minutes.
- Avoid use with Apomorphine (Apokyn, Uprima). Apokyn is used to treat Parkinson's disorders, and Uprima is used to treat erectile dysfunction. This is important to note because both of these compositions may promote nausea in some patients.

**DRUG: ONDANSETRON HCL**

**REFERENCE ONLY**