

Ondansetron

Indications: Moderate to severe nausea, vomiting

Contraindications: Known allergy, do not use Zofran concurrently with Procainamide, Haldol, or Amiodarone due to QT prolongation.

Concentration: 2 mg/mL or 1 tablet = 4 mg

ADULT DOSING

Indication	Dose	Rate & Route	Note
Moderate to severe nausea - or - Vomiting	4 mg 2 mL	IV/IM/PO	Repeat x1 q 15 minutes

ADULT DOSING

PEDIATRIC DOSING

Indication	Dose	Rate & Route	Note
Moderate to severe nausea - or - Vomiting	0.1 mg/kg	IV/IM	Only if weight > 6 kg
	2 mg = ½ tab	PO	For 12 – 23 kg patients
	4 mg = 1 tab	PO	For 24 – 36 kg patients

PEDIATRIC DOSING

Pediatric Dosing Ondansetron

3 kgs	4kgs	5 kgs	6-7 kgs	8-9 kgs	10-11 kgs	12-14 kgs	15-18 kgs	19-23 kgs	24-29 kgs	30-36 kgs
6.6 lbs	8.8 lbs	11 lbs	13-15 lbs	17-20 lbs	22-24 lbs	26-30 lbs	33-40 lbs	42-50 lbs	53-64 lbs	66-80 lbs
in18.25-20.25	in20.25-21.5	in21.5-23.25	in23.25-26.25	in26.25-29.25	in29.25-33	in33-37.5	in37.5-42.5	in42.5-47.75	in47.75-51.25	in51.25-56.25

Ondansetron IV/IM

Concentration: 2 mg/ml

None	None	None	0.3 ml	0.4 mL	0.5 mL	0.7 mL	0.8 mL	1 mL	1.5 mL	1.5 mL
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Ondansetron PO

Concentration: 4 mg/tab

None	None	None	None	None	None	½ tab	½ tab	½ tab	1 tab	1 tab
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Adverse/Side Effects

Arrhythmias (including ventricular and supraventricular tachycardia, premature ventricular contractions, and atrial fibrillation), bradycardia, electrocardiographic alterations (including second-degree heart block, QT/QTc interval prolongation, and ST segment depression), palpitations, and syncope.

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. Safely tolerated at high dose ranges.

Onset of Action

< 30 minutes

Peak Effect

30 – 120 minutes

Duration of Action

Varies