ONDANSETRON

Trade Name	Periset [®] Ipca	Periset [®] Ipca Pharma, Dr Reddys Ondansetron [®] .			
Class	Ondansetron is a selective 5HT3 receptor antagonist				
Mechanism of Action	Ondansetron blocks serotonin activity on peripheral vagal nerve terminals and in the chemoreceptor trigger zone of the central nervous system.				
Indications	Prevention and treatment of nausea and vomiting following exposure to highly emetic stimuli (surgery or chemotherapy) or for palliative care				
Contraindications	 Hypersensitivity to 5HT3 receptor antagonists Long Q-T syndrome Ondansetron wafers contain aspartame, use with caution in patients with phenylketonuria. A dose reduction may be required in patients with liver impairment. Warning: Ondansetron injection contains large amounts of benzyl alcohol which has been associated with neonatal "gasping syndrome". At the current time ondansetron injection is not recommended for use in the neonatal unit at CWH. 				
Supplied As	IV: no dilution requiredOral: Dispersible wafers or tablets 4mg(8mg wafers and tablets are also available)				
Dilution	IV: no dilution required Oral: disperse ONE 4mg wafer or tablet in 5 mL of water.				
	Drug	Water Added	Final Volume	Final Concentration	
	4 mg	5 mL	5 mL	0.8 mg/mL	
Dosage	IV: 100 mcg/kg Oral: 100-200 mcg/kg Or dosing as per Consultant				
Interval	 Chemotherapy: Usually given as a single dose 30 - 60 minutes prior to chemotherapy. Dose may be repeated every 6 hours for TWO further doses if needed. Palliative Care/Longer Term Use: 8-12 hourly 				
Administration	IV: Slow push over at least 30 seconds Oral: via mouth or ng tube				

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Compatible With	Solution: sodium chloride 0.9%, glucose 5%, mannitol
	Y-site: adrenaline, amikacin, amiodarone, ascorbic acid, atropine, azithromycin, benzyl penicillin, calcium chloride, calcium gluconate, cefazolin, cefotaxime, cefoxitin, cefuroxime, ciprofloxacin, clindamycin, ciclosporin, dexamethasone, dexmedetomidine, digoxin, dobutamine, dopamine, ephedrine, epoetin, erythromycin, famotidine, fentanyl, filgrastim, fluconazole, gentamicin, heparin, hydrocortisone, imipenem/cilastatin, lidocaine, lipid, magnesium sulfate, metronidazole, midazolam, morphine, noradrenaline, octreotide, paracetamol, phenylephrine, piperacillin /tazobactam, potassium chloride, propranolol, protamine sulphate, pyridoxine, ranitidine, tobramycin, vancomycin, vasopressin, voriconazole, zidovudine.
Incompatible With	Acyclovir, amphotericin, ceftazidime*, ceftriaxone*, chloramphenicol, diazoxide, furosemide, ganciclovir, indometacin, insulin*, meropenem* methylprednisolone*, milrinone, phenobarbital, phenytoin, sodium bicarbonate, sulfamethoxazole/trimethoprim.
	*Variable reports exist for the compatibility of these medicines with ondansetron use a separate line if possible.
Monitoring	Watch for constipation and prescribe laxatives if needed
	Electrolytes, LFTs. Dose reduce if abnormal liver function
	Monitor ECG when used in combination with other medicines that prolong QTc interval or in the presence of electrolyte disturbances especially potassium and magnesium.
Stability	Oral: tablets: manufacturer's expiry Use a new tablet to freshly prepare each oral liquid dose and discard any remaining solution immediately after use. IV: manufacturer's expiry.
Storage	Ondansetron tablets and injection should be stored at room temperature prior to use.
	Protect from moisture and light
Adverse Reactions	Constipation, diarrhoea, headache, hypotension, hypoglycaemia, hypokalaemia, flushing, bradyarrhythmias, QTc prolongation, drowsiness, dry mouth, hiccups, tremor, ataxia, bronchospasm, dry mouth, transient rise in liver enzymes.
Metabolism	Ondansetron undergoes extensive first pass metabolism
	Metabolised in the liver by CYP 1A2, 2D6 and 3A4
	Bioavailability of oral preparation is 50 – 70% Half life in infants 1 -4 months old is approximately 6 – 7 hours Half life in children 5 months – 12 years is approximately 3 hours
Interactions	Effects of ondansetron may be decreased by phenobarbitone and other CYP3A4/5 inducers.
	Effects of ondansetron increased by p-glycoprotein inhibitors eg cyclosporin, grapefruit juice, itraconazole
Comments	N/A
Ondansetron	Printed copies are <u>not</u> controlled and may not be the current version in use

References	 BNF for children 2009 Paediatric Dosage Handbook Taketomo et al 16th Ed 2009. Drug Doses Frank Shann RCH Melbourne Australia14th Edition 2008. <u>www.medsafe.govt.nz</u> www.nzf.org.nz
Updated By	A Lynn and B Robertshawe Dec 2010 A Lynn, B Robertshawe Dec 2012 (re-order profile) A Lynn, B Robertshawe March 2022 (routine review, interactions update) B Robertshawe January 2024 (general review & update of oral formula) A Lynn, B Robertshawe Dec 2024 (indication for palliative care)

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