

Prochlorperazine Mesylate Injectable

Sandoz Canada Inc., the sole Canadian supplier of parenteral prochlorperazine has discontinued this product.¹

Indications for injectable prochlorperazine^{2,3}

- Symptomatic management of psychotic disorders when oral route not available
- Prevention and treatment of nausea and vomiting when oral route is not feasible

Alternate formulations of prochlorperazine

- Oral products (prochlorperazine maleate) are available:
 - Prochlorazine® 5 mg, 10 mg (AA Pharma)⁴
- Rectal suppository
 - Prochlorperazine 10 mg suppository (Sandoz)⁴

Therapeutic alternatives for prochlorperazine injectable

1. Short-acting injections for symptomatic management of psychotic disorders^{3,5}

Drug (chemical class)	Strength	Dose	Time to peak plasma level	Elimination Half-life
Methotrimeprazine (first generation, low potency, aliphatic phenothiazine)	25 mg/ml ampoule	25 mg IM daily up to 4 times daily (deep IM injections) Can be given IV but IM preferred route	30 – 90 minutes	16 – 78 hrs
Haloperidol (first generation, butyrophenone)	5 mg/ml ampoule	2 – 5 mg IM (0.5 – 1 mg in elderly) every 4 – 8 hours; may repeat every 1 hour if required (maximum 20 mg/day, elderly 5 mg/day)	10 – 20 minutes	12 – 26 hrs
Loxapine (first generation, dibenzoxazepine)	50mg/ml ampoule	12.5-50 mg IM every 4 to 6 hrs prn	2 – 5 hrs	8 – 30 hrs
Olanzapine (second generation, thienobenzodiazepine)	5 mg/ml in 10 mg vial	10 mg IM to start, (2.5 – 5 mg in elderly); 2 nd dose of 5 – 10 mg 2 hrs after first if needed; if 3 rd dose needed, give 4 or more hours after 2 nd dose (maximum 30 mg/day)	15 – 45 min	21 – 54 hrs

2. Injectable drugs for prevention and treatment of nausea and vomiting (list not inclusive)^{3,6,7}:

Drug	Strength	Recommended dose
Dopamine antagonists		
Haloperidol	5 mg/ml; 1 ml ampoules	2 – 5 mg IM q2h PRN (adult)
Methotrimeprazine	25 mg/ml; 1 ml ampoules	Adult: 6.25-25mg IV; 10-25mg IM q8h PRN; 12.5 – 50 mg SC q4 – 6h PRN
		Ped: 0.0625 – 0.125 mg/kg/day IM in one or divided doses
Metoclopramide	5 mg/ml; 2ml, 10 ml, 30 ml vials	10 – 20 mg IV/IM up to QID (adult)
Antihistamines		
Dimenhydrinate	10 mg/ml IV; 5 ml vials 50 mg/ml IM; 1ml ampoules	Adult: 50 – 100 mg IV/IM q4-6h PRN (max: 400 mg/24h)
		Ped: 5 mg/kg/day or 150 mg/m ² /day in 4 divided doses (max: 300 mg/24h)
		PONV: 50 mg pre-operatively, repeat post-operatively PRN to max 400 mg/24h
Diphenhydramine	50 mg/ml; 1 ml ampoules	Adult: 25 – 50 mg IV/IM q4h (max: 400 mg/24h)
		Ped: 5 mg/kg/day or 150 mg/m ² /day in 4 divided doses (max: 300 mg/24h)
Serotonin antagonists		
Ondansetron	2 mg/ml; 2ml, 4 ml ampoules	PONV Adult: 4 mg IV immediately before anesthesia or post-operatively
		PONV Ped: 0.1 mg/kg IV; max: 4 mg/kg
PONV – post-operative nausea and vomiting		

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