



Medication: Metoclopramide	PDN:	Last Updated:	PMD:	PDC:	Page 1 of 2	l
	6996.03	August 9 2023	Andrew Travers*	Tanya Fraser*		

METOCLOPRAMIDE

1.0 Classification

Antiemetic

2.0 Mechanism of Action

- Metoclopramide has dopamine and 5HT3 serotonin receptor antagonist properties acting centrally on the chemoreceptor trigger zone in the brainstem.
- Peripherally it works via other dopamine and serotonin receptors to promote gastric and small bowel motility.

3.0 Indications

- Nausea and vomiting due to any cause including but not limited to:
 - Gastroenteritis
 - Gastroesophageal reflux
 - Diabetic gastroparesis
 - Cannabinoid hyperemesis syndrome
 - Cyclic vomiting syndrome
 - Infection
 - Biliary tract disease
 - Pregnancy or hyperemesis gravidarum
 - Medication side effects (chemotherapy, opioids, SSRIs)
- Suspected migraine with or without nausea and vomiting.

4.0 Contraindications

- Known hypersensitivity
- When stimulus of gastrointestinal motility might be dangerous (e.g., bowel obstruction or perforation).
- Pheochromocytoma
- Seizure disorder
- Patients receiving medications that put them at risk for extrapyramidal reactions such as haloperidol or other antipsychotic medications.

5.0 Precautions

- Recommended dose should not be exceeded as increased dosage will not improve clinical outcome.
- Use with caution if patient taking CNS depressants.
- Use with caution in patients who have history of clinical depression.

6.0 Route

- May be given IV, IM or Subcut
- Subcut is preferred in the palliative setting.

7.0 Dosage

Adult

• 10 mg IV, IM or Subcut; if choosing to administer via IV: 10 mg mixed in 100 mL normal saline run over 10 minutes.

Pediatric

Not recommended for use in patients under the age of 18 unless specifically identified to be used
in a written palliative care plan or special patient protocol.

8.0 Supplied

10 mg in a 2 mL vial

9.0 May Be Given By

PCP/ICP/ACP/CCP

10.0 Adverse Effects

- Drowsiness and fatigue
- Insomnia, headache and dizziness
- Extrapyramidal symptoms such as dystonia, muscle rigidity, akathisia, etc.
 - If signs of extrapyramidal reaction appear consider administering 25 mg IV, IM or Subcut diphenhydramine (subcut is preferred route in the palliative population).

11.0 Special Notes

- Adverse effects tend to abate when medication is discontinued.
- Dimenhydrinate is the antiemetic of choice for nausea and vomiting associated with vertigo or motion sickness, it is more effective than metoclopramide given its mechanism of action.
- Pregnancy category B [if there is a clinical need for it, Category B drugs are considered safe to use]

12.0 References

- Palliative Care Clinical Practice Guideline
- Abdominal Emergencies Clinical Practice Guideline
- Compendium of Pharmaceuticals and Specialties (CPS)

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