

MEDICATION GUIDE
Metoclopramide Injection
(MET oh KLOE pra mide)

Renal

Urinary frequency and incontinence.

Hematologic

A few cases of neutropenia, leucopenia, or agranulocytosis, generally without clear-cut relationship to metoclopramide. Methemoglobinemia in adults and especially with overdosage in neonates (see **OVERDOSAGE**).

Sulfhemoglobinemia in adults.

Allergic Reactions

A few cases of rash, urticaria, or bronchospasm, especially in patients with a history of asthma. Rarely, angioneurotic edema, including glossal or laryngeal edema.

Miscellaneous

Visual disturbances, Porphyria.

Transient flushing of the face and upper body, without alterations in vital signs, following high doses intravenously.

OVERDOSAGE

Symptoms of overdosage may include drowsiness, disorientation and extrapyramidal reactions. Anticholinergic or antiparkinson drugs or antihistamines with anticholinergic properties may be helpful in controlling the extrapyramidal reactions. Symptoms are self-limiting and usually disappear within 24 hours.

Hemodialysis removes relatively little metoclopramide, probably because of the small amount of the drug in blood relative to tissues. Similarly, continuous ambulatory peritoneal dialysis does not remove significant amounts of drug. It is unlikely that dosage would need to be adjusted to compensate for losses through dialysis. Dialysis is not likely to be an effective method of drug removal in overdose situations.

Unintentional overdose due to misadministration has been reported in infants and children with the use of Metoclopramide syrup. While there was no consistent pattern to the reports associated with these overdoses, events include seizures, extrapyramidal reactions, and lethargy.

Methemoglobinemia has occurred in premature and full-term neonates who were given overdoses of metoclopramide (1 to 4 mg/kg/day orally, intramuscularly or intravenously for 1 to 3 or more days). Methemoglobinemia can be reversed by the intravenous administration of methylene blue. However, methylene blue may cause hemolytic anemia in patients with G6PD deficiency, which may be fatal (see **PRECAUTIONS, Other Special Populations**).

DOSAGE AND ADMINISTRATION

For the Relief of Symptoms Associated with Diabetic Gastroparesis (Diabetic Gastric Stasis)

If only the earliest manifestations of diabetic gastric stasis are present, oral administration of metoclopramide may be initiated. However, if severe symptoms are present, therapy should begin with Metoclopramide Injection (intramuscular or intravenous). Doses of 10 mg may be administered slowly by the intravenous route over a 1 to 2 minute period.

Administration of Metoclopramide Injection, USP up to 10 days may be required before symptoms subside, at which time oral administration of metoclopramide may be instituted. The physician should make a thorough assessment of the risks and benefits prior to prescribing further Metoclopramide treatment.

For the Prevention of Nausea and Vomiting Associated with Emetogenic Cancer Chemotherapy

Intravenous infusions should be made slowly over a period of not less than 15 minutes, 30 minutes before beginning cancer chemotherapy and repeated every 2 hours for two doses, then every 3 hours for three doses.

The initial two doses should be 2 mg/kg if highly emetogenic drugs such as cisplatin or dacarbazine are used alone or in combination. For less emetogenic regimens, 1 mg/kg per dose may be adequate. For doses in excess of 10 mg, Metoclopramide Injection, USP should be diluted in 50 mL of a parenteral solution.

The preferred parenteral solution is Sodium Chloride Injection (normal saline), which when combined with Metoclopramide Injection, USP can be stored frozen for up to 4 weeks. Metoclopramide Injection, USP is degraded when admixed and frozen with Dextrose-5% in Water. Metoclopramide Injection, USP diluted in Sodium Chloride Injection, Dextrose-5% in Water, Dextrose-5% in 0.45% Sodium Chloride, Ringer's Injection or Lactated Ringer's Injection may be stored up to 48 hours (without freezing) after preparation if protected from light. All dilutions may be stored unprotected from light under normal light conditions up to 24 hours after preparation.

If acute dystonic reactions should occur, inject 50 mg Benadryl® (diphenhydramine hydrochloride) intramuscularly, and the symptoms usually will subside.

For the Prevention of Postoperative Nausea and Vomiting

Metoclopramide Injection, USP should be given intramuscularly near the end of surgery. The usual adult dose is 10 mg; however, doses of 20 mg may be used.

To Facilitate Small Bowel Intubation

If the tube has not passed the pylorus with conventional maneuvers in 10 minutes, a single dose (undiluted) may be administered slowly by the intravenous route over a 1 to 2 minute period.

The recommended single dose is: Pediatric patients above 14 years of age and adults – 10 mg metoclopramide base. Pediatric patients (6 to 14 years of age) – 2.5 to 5 mg metoclopramide base; (under 6 years of age) – 0.1 mg/kg metoclopramide base.

To Aid in Radiological Examinations

In patients where delayed gastric emptying interferes with radiological examination of the stomach and/or small intestine, a single dose may be administered slowly by intravenous route over a 1 to 2 minute period.

For dosage, see intubation above.

Use in Patients with Renal or Hepatic Impairment

Since metoclopramide is excreted principally through the kidneys, in those patients whose creatinine clearance is below 40 mL/min, therapy should be initiated at approximately one-half the recommended dosage. Depending upon clinical efficacy and safety considerations, the dosage may be increased or decreased as appropriate.

See **OVERDOSAGE** section for information regarding dialysis.

Metoclopramide undergoes minimal hepatic metabolism, except for simple conjugation. Its safe use has been described in patients with advanced liver disease whose renal function was normal.

NOTE: Parenteral drug products should be inspected visually for particulate matter and discoloration prior to administration, whenever solution and container permit.

ADMIXTURES COMPATIBILITIES

Metoclopramide Injection, USP is compatible for mixing and injection with the following dosage forms to the extent indicated below:

Physically and Chemically Compatible up to 48 Hours

Cimetidine Hydrochloride (SK&F), Mannitol, USP (Abbott), Potassium Acetate, USP (Invenex),

Potassium Phosphate, USP (Invenex).

Physically Compatible up to 48 Hours

Ascorbic Acid, USP (Abbott), Benztropine Mesylate, USP (MS&D), Cytarabine, USP (Upjohn), Dexamethasone Sodium Phosphate, USP (ESI, MS&D), Diphenhydramine Hydrochloride, USP (Parke-Davis), Doxorubicin Hydrochloride, USP (Adria), Heparin Sodium, USP (ESI), Hydrocortisone Sodium Phosphate (MS&D), Lidocaine Hydrochloride, USP (ESI), Multi-Vitamin Injection (must be refrigerated - USV), Vitamin B Complex with Ascorbic Acid (Roche).

Physically Compatible up to 24 Hours (Do not use if precipitation occurs)

Clindamycin Phosphate, USP (Upjohn), Cyclophosphamide, USP (Mead-Johnson), Insulin, USP (Lilly).

Conditionally Compatible (Use within one hour after mixing or may be infused directly into the same running IV line)

Ampicillin Sodium, USP (Bristol), Cisplatin (Bristol), Erythromycin Lactobionate, USP (Abbott), Methotrexate Sodium, USP (Lederle), Penicillin G Potassium, USP (Squibb), Tetracycline Hydrochloride, USP (Lederle).

Incompatible (Do Not Mix)

Cephalothin Sodium, USP (Lilly), Chloramphenicol Sodium, USP (Parke-Davis), Sodium Bicarbonate, USP (Abbott)

HOW SUPPLIED

Metoclopramide Injection, USP, 5 mg/mL metoclopramide base (as the monohydrochloride monohydrate) is available as:

Product Code	Unit of Sale	Strength	Each
737210	NDC 76045-101-20 Unit of 24	10 mg/2 mL (5 mg/mL)	NDC 76045-101-00 2 mL pre-filled disposable single-use syringe.
RF737210	NDC 76045-213-20 Unit of 24	10 mg/2 mL (5 mg/mL)	NDC 76045-213-00 2 mL pre-filled disposable single-use syringe. This product contains an RFID.

Store at 20° to 25°C (68° to 77°F) [See USP Controlled Room Temperature.]

Protect from light.

This product is light sensitive. It should be inspected before use and discarded if either color or particulate is observed.

Dilutions may be stored unprotected from light under normal light conditions up to 24 hours after preparation. Discard unused portion.

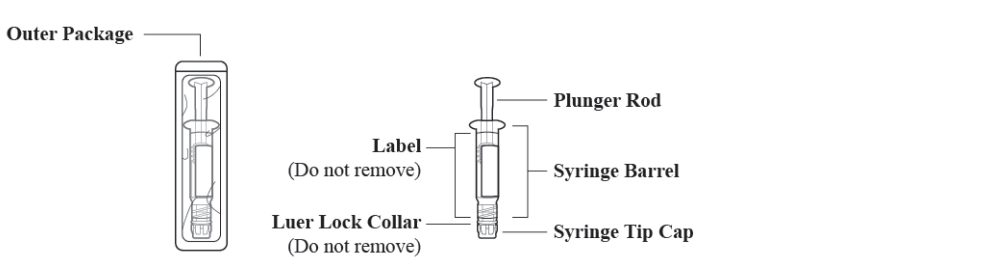
Benadryl® is a registered trademark of McNeil Consumer.

Cogentin® is a registered trademark of MS&D.

Do not place syringe on a sterile field.

INSTRUCTIONS FOR USE

Figure 1: Outer Packaging and Prefilled Syringe



NOTES:

- Do not introduce any other fluid into the syringe at any time.
- Do not dilute for IV push.
- Do not re-sterilize the syringe.
- Do not use this product on a sterile field.
- This product is for single dose only.

1. Inspect the outer packaging (blister pack) to confirm the integrity of the packaging. Do not use if the blister pack or the prefilled syringe has been damaged.

2. Remove the syringe from the outer packaging. (See Figure 2)

Figure 2



3. Visually inspect the syringe. Parenteral drug products should be inspected visually for particulate matter and discoloration prior to administration, whenever solution and container permit.

4. Twist off the syringe tip cap. Do not remove the label around the luer lock collar. (See Figure 3)

Figure 3



5. Expel air bubble(s). Adjust the dose (if applicable).

6. Administer the dose ensuring that pressure is maintained on the plunger rod during the entire administration.

7. Discard the used syringe into an appropriate receptacle.

For more information concerning this drug, please call Fresenius Kabi USA, LLC at 1-800-551-7176.

To report SUSPECTED ADVERSE REACTIONS, contact Fresenius Kabi USA, LLC at 1-800-551-7176 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

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U.S. Patents 9,731,082 and 10,661,018



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What should I avoid while receiving Metoclopramide Injection?

- Do not drink alcohol while receiving Metoclopramide Injection. Alcohol may make some side effects of Metoclopramide worse, such as feeling sleepy.
- Do not drive, work with machines, or do dangerous tasks until you know how Metoclopramide affects you. Metoclopramide may cause sleepiness.

What are the possible side effects of Metoclopramide Injection?

Metoclopramide can cause serious side effects, including:

- **Abnormal muscle movements.** See the section “What is the most important information I should know about Metoclopramide Injection?”
- **Uncontrolled spasms of your face and neck muscles, or muscles of your body, arms, and legs (dystonia).** These muscle spasms can cause abnormal movements and body positions. These spasms usually start within the first 2 days of treatment. These spasms happen more often in children and adults under age 30.
- **Depression, thoughts about suicide, and suicide.** Some people who take Metoclopramide become depressed. You may have thoughts about hurting or killing yourself. Some people who take Metoclopramide have ended their own lives (suicide).
- **Neuroleptic Malignant Syndrome (NMS).** NMS is a very rare but very serious condition that can happen with Metoclopramide. NMS can cause death and must be treated in a hospital. Symptoms of NMS include: high fever, stiff muscles, problems thinking, very fast or uneven heartbeat, and increased sweating.
- **Parkinsonism.** Symptoms include slight shaking, body stiffness, trouble moving or keeping your balance. If you already have Parkinson’s disease, your symptoms may become worse while you are receiving Metoclopramide Injection.

Call your doctor and get medical help right away if you:

- feel depressed or have thoughts about hurting or killing yourself
- have high fever, stiff muscles, problems thinking, very fast or uneven heartbeat, and increased sweating
- have muscle movements you can not stop or control
- have muscle movements that are new or unusual

Common side effects of Metoclopramide Injection include:

- feeling restless, sleepy, tired, dizzy, or exhausted
- headache
- confusion
- trouble sleeping

Infusion related side effects can happen if Metoclopramide Injection is given too fast. You may feel very anxious and restless for a short time, and then become sleepy while you are receiving a dose of Metoclopramide Injection. Tell your doctor or nurse right away if this happens.

You may have more side effects the longer you take Metoclopramide Injection and the more Metoclopramide you take.

Tell your doctor about any side effects that bother you or do not go away. These are not all the possible side effects of Metoclopramide Injection.

Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.

General information about Metoclopramide Injection

Medicines are sometimes prescribed for purposes other than those listed in a Medication Guide.

This Medication Guide summarizes the most important information about Metoclopramide Injection. If you would like more information about Metoclopramide Injection, talk with your doctor. You can ask your doctor or pharmacist for information about Metoclopramide Injection that is written for healthcare professionals. For more information concerning this drug product or to report an adverse event, call Fresenius Kabi USA, LLC at 1-800-551-7176.

What are the ingredients in Metoclopramide Injection?

Active ingredient: metoclopramide

Inactive ingredients: sodium chloride, water, hydrochloric acid or sodium hydroxide



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This Medication Guide has been approved by the U.S. Food and Drug Administration.