

Deferoxamine Mesylate for Injection, USP

Leaflet Dimension: 375 x 180 mm

***Note: Product Name Position & Orientation will be changed based on folding feasibility**



375 mm

Front

At the Injection Site: Localized irritation, pain, burning, swelling, induration, infiltration, pruritus, erythema, wheal formation, eschar, crust, vesicles, local edema. Injection site reactions may be associated with systemic allergic reactions (see Body as a Whole, below).

Hypersensitivity Reactions and Systemic Allergic Reactions:

Generalized rash, urticaria, anaphylactic reaction with or without shock, angioedema.

Body as a Whole: Local injection site reactions may be accompanied by systemic reactions like arthralgia, fever, headache, myalgia, nausea, vomiting, abdominal pain, or asthma.

Infections with *Yersinia* and *Mucormycosis* have been reported in association with deferoxamine mesylate use (see PRECAUTIONS).

Cardiovascular: Tachycardia, hypotension, shock.

Digestive: Abdominal discomfort, diarrhea, nausea, vomiting.

Hematologic: Blood dyscrasia (thrombocytopenia, leucopenia).

Hepatic: Increased transaminases, hepatic dysfunction.

Musculoskeletal: Muscle spasms. Growth retardation and bone changes (e.g., metaphyseal dysplasia) are common in chelated patients given doses above 60 mg/kg, especially those who begin iron chelation in the first three years of life. If doses are kept to 40 mg/kg or below, the risk may be reduced (see WARNINGS, PRECAUTIONS/Pediatric Use).

Nervous System: Neurological disturbances including dizziness, peripheral sensory, motor, or mixed neuropathy, paresthesias, seizures; exacerbation or precipitation of aluminum-related dialysis encephalopathy (see PRECAUTIONS/Information for Patients).

Special Senses: High-frequency sensorineural hearing loss and/or tinnitus are uncommon if dosage guidelines are not exceeded and if dose is reduced when ferritin levels decline. Visual disturbances are rare if dosage guidelines are not exceeded. These may include decreased acuity, blurred vision, loss of vision, dyschromatopsia, night blindness, visual field defects, scotoma, retinopathy (pigmentary degeneration), optic neuritis, and cataracts (see WARNINGS).

Respiratory: Acute respiratory distress syndrome (with dyspnea, cyanosis, and/or interstitial infiltrates) (see WARNINGS).

Skin: Very rare generalized rash.

Urogenital: Dysuria, acute renal failure, increased serum creatinine and renal tubular disorders (see CONTRAINDICATIONS and WARNINGS).

Postmarketing Reports

There are postmarketing reports of deferoxamine-associated renal

dysfunction, including renal failure. Monitor patients for changes in renal function (e.g., increased serum creatinine).

OVERDOSAGE

Acute Toxicity

Intravenous LD₅₀s (mg/kg): mice, 287; rats, 329.

Signs and Symptoms

Inadvertent administration of an overdose or inadvertent intravenous bolus administration/rapid intravenous infusion may be associated with hypotension, tachycardia and gastrointestinal disturbances; acute but transient loss of vision, aphasia, agitation, headache, nausea, pallor, CNS depression including coma, bradycardia and acute renal failure have been reported.

Acute respiratory distress syndrome has been reported following treatment with excessively high intravenous doses of deferoxamine mesylate in patients with acute iron intoxication and in patients with thalassemia.

Treatment

There is no specific antidote. Deferoxamine mesylate should be discontinued and appropriate symptomatic measures undertaken.

Deferoxamine mesylate is readily dialyzable.

DOSAGE AND ADMINISTRATION

Acute Iron Intoxication

Intramuscular Administration

This route is preferred and should be used for ALL PATIENTS NOT IN SHOCK.

A dose of 1000 mg should be administered initially. This may be followed by 500 mg every 4 hours for two doses. Depending upon the clinical response, subsequent doses of 500 mg may be administered every 4-12 hours. The total amount administered should not exceed 6000 mg in 24 hours. For reconstitution instructions for intramuscular administration see Table 1.

Intravenous Administration

THIS ROUTE SHOULD BE USED ONLY FOR PATIENTS IN A STATE OF CARDIOVASCULAR COLLAPSE AND THEN ONLY BY SLOW INFUSION. THE RATE OF INFUSION SHOULD NOT EXCEED 15 MG/KG/HR FOR THE FIRST 1000 MG ADMINISTERED. SUBSEQUENT IV DOSING, IF NEEDED, MUST BE AT A SLOWER RATE, NOT TO EXCEED 125 MG/HR.

For reconstitution instructions for intravenous administration see Table 2. The reconstituted solution is added to physiologic saline, (e.g., 0.9%

sodium chloride, 0.45% sodium chloride), glucose in water, or Ringer's lactate solution.

An initial dose of 1000 mg should be administered at a rate NOT TO EXCEED 15 mg/kg/hr. This may be followed by 500 mg over 4 hours for two doses. Depending upon the clinical response, subsequent doses of 500 mg may be administered over 4-12 hours. The total amount administered should not exceed 6000 mg in 24 hours.

As soon as the clinical condition of the patient permits, intravenous administration should be discontinued and the drug should be administered intramuscularly.

CHRONIC IRON OVERLOAD

Subcutaneous Administration

A daily dose of 1000-2000 mg (20-40 mg/kg/day) should be administered over 8-24 hours, utilizing a small portable pump capable of providing continuous mini-infusion. The duration of infusion must be individualized. In some patients, as much iron will be excreted after a short infusion of 8-12 hours as with the same dose given over 24 hours. For reconstitution instructions for subcutaneous administration see Table 3.

Intravenous Administration

The standard recommended method of deferoxamine mesylate administration is via slow subcutaneous infusion over 8 – 12 hours. In patients with intravenous access, the daily dose of deferoxamine mesylate can be administered intravenously. The standard dose is 20 – 40 mg/kg/day for children and 40 – 50 mg/kg/day over 8 – 12 hours in adults for 5 – 7 days per week. In children, average doses should not exceed 40 mg/kg/day until growth has ceased. In adults, average doses should not exceed 60 mg/kg/day. The intravenous infusion rate should not exceed 15 mg/kg/hour. For reconstitution instructions for intravenous administration see Table 2.

In patients who are poorly compliant, deferoxamine mesylate may be administered prior to or following same day blood transfusion (for example 1 gram over 4 hours on the day of transfusion); however, the contribution of this mode of administration to iron balance is limited. Deferoxamine mesylate should not be administered concurrently with the blood transfusion as this can lead to errors in interpreting side effects such as rash, anaphylaxis and hypotension.

Intramuscular Administration

A daily dose of 500-1000 mg may be administered intramuscularly. The total daily dose should not exceed 1000 mg. For reconstitution instructions for intramuscular administration see Table 1.

Reconstitution and Preparation

Table 1: Preparation for Intramuscular Administration

RECONSTITUTE DEFEROXAMINE MESYLATE WITH STERILE WATER FOR INJECTION			
Vial Size	Amount of Sterile Water for Injection Required for Reconstitution	Total Drug Content after Reconstitution	Final Concentration per mL after Reconstitution
500 mg	2 mL	500 mg/2.35 mL	213 mg/mL
2 grams	8 mL	2 grams/9.4 mL	213 mg/mL

Table 2: Preparation for Intravenous Administrations

RECONSTITUTE DEFEROXAMINE MESYLATE WITH STERILE WATER FOR INJECTION			
Vial Size	Amount of Sterile Water for Injection Required for Reconstitution	Total Drug Content after Reconstitution	Final Concentration per mL after Reconstitution
500 mg	5 mL	500 mg/5.3 mL	95 mg/mL
2 grams	20 mL	2 grams/21.1 mL	95 mg/mL

Table 3: Preparation for Subcutaneous Administration

RECONSTITUTE DEFEROXAMINE MESYLATE WITH STERILE WATER FOR INJECTION			
Vial Size	Amount of Sterile Water for Injection Required for Reconstitution	Total Drug Content after Reconstitution	Final Concentration per mL after Reconstitution
500 mg	5 mL	500 mg/5.3 mL	95 mg/mL
2 grams	20 mL	2 grams/21.1 mL	95 mg/mL

The reconstituted deferoxamine mesylate solution is an isotonic, clear and colorless to slightly- yellowish solution. The drug should be completely dissolved before the solution is withdrawn. Deferoxamine mesylate for injection reconstituted with Sterile Water for Injection IS FOR SINGLE DOSE ONLY. Discard unused portion.

The product should be used immediately after reconstitution (commencement of treatment within 3 hours) for microbiological safety. When reconstitution is carried out under validated aseptic conditions (in a sterile laminar flow hood using aseptic technique), the product may be stored at room temperature for a maximum period of 24 hours before use. Do not refrigerate reconstituted solution. Reconstituting deferoxamine mesylate for injection in solvents or under conditions other than indicated may result in precipitation. Turbid solutions should not be used.

HOW SUPPLIED

Vials-each containing 500 mg of sterile, lyophilized deferoxamine mesylate
Cartons of 4 vials.....NDC 60505-6236-6

Vials - each containing 2 g of sterile, lyophilized deferoxamine mesylate
Cartons of 4 vials.....NDC 60505-6237-6

Each vial is for single dose only.
Discard unused portion.

Store at 20° to 25°C (68° to 77°F) [see USP controlled room temperature].

Manufactured by:
GLAND PHARMA LIMITED,
Hyderabad - 500043, INDIA.

Manufactured for:
Apotex Corp. Weston,
FL USA 33326

September 2021

PSLEA-020559-00

180 mm

375 mm

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