REGIONAL PEDIATRIC PARENTERAL DRUG MONOGRAPH

GENERIC NAME

deferoxamine

Effective Date: Dec 2011 **Revised Date:** Dec 2022	CLASSIFICATION **Antidote for Iron Poisoning** **Iron Chelating Agent**	OTHER NAMES **Desferal** **Desferrioxamine**	PAGE 1 of 2

ADMINISTRATION POLICY:

IV Infusion – May be administered by a nurse
IM Injection – May be administered by a nurse
Subcut – May be administered by a nurse
IV Bolus – *Not recommended*

RECONSTITUTION/DILUTION/ADMINISTRATION:

Available as: 500 mg vial, 2 gram vial

Reconstitution 500 mg vial: Add 2 mL sterile water for injection
Final volume: 2.3 mL Final concentration: 213 mg/mL

2 gram vial: Add 8 mL sterile water for injection
Final volume: 9.4 mL Final concentration: 213 mg/mL

IV intermittent:

Dose	**Dilutent Volume**
100 to 499 mg	25 mL
500 to 1000 mg	50 mL

IV Infusion: Pump Library:

Drug Library	**Dose Rate**	**Short Name**	**Care Unit**
Yes	mg/kg/h	def7560	Pediatric
Drug	**Diluent**	**Final Volume (VTBI)**	**Final Concentration**
7560 mg (36 mL of 213 mg/mL)	250 mL of NS	286 mL	26.43 mg/mL
Clinical Advisory:			
Soft Low Dose Limit: 15 mg/kg/h	Soft High Dose Limit: 15 mg/kg/h	Default 15 mg/kg/h	

DOSAGE:

Acute Iron Intoxication:

IV Infusion: 15 mg/kg/hour titrate to response; maximum daily dose: 80 mg/kg/day and not to exceet 6 grams/day

IV Intermittent: Initial: 20 mg/kg (maximum dose: 1,000 mg/dose) administered no faster than 15 mg/kg/hour

followed by 10 mg/kg (maximum dose: 500 mg/dose) over 4-hour intervals for 2 doses; subsequent doses of 10 mg/kg (maximum dose: 500 mg/dose) over 4 to 12 hours may be repeated depending upon the clinical response; maximum daily dose: 6 grams/day

IM: Initially 90 mg/kg/dose x 1 dose then followed by 45 mg/kg/dose every 4 to 12 hours PRN; maximum daily dose: 6 grams/day

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Chronic Iron Overload:

IV Intermittent: 20 to 40 mg/kg/day over 8 to 12 hours 5 to 7 days per week;
usual maximum daily dose: 40 mg/kg/day

Subcut infusion: via a portable controlled device: 20 to 40 mg/kg/day over 8 to 12 hours 3 to 7 days per week;
Maximum daily dose: 2000 mg/day

Maximum rate : 15 mg/kg/hour

STABILITY/COMPATIBILITY:

Stability of reconstituted solution: 24 hours at room temperature
Stability of Final Admixture: 24 hours at room temperature

Compatibility: Compatible with normal saline, D5W, D10W, Lactated Ringer

PRECAUTIONS, POTENTIAL ADVERSE REACTIONS:

- Hypotension, tachycardia, flushing, urticaria (especially if given too rapidly), rash, anaphylaxis
- Abdominal pain, diarrhea, nausea, vomiting
- Prior to and during deferoxamine therapy, ensure that the intravascular volume is not depleted. Volume depletion during deferoxamine therapy has been associated with nephrotoxicity.

ADDITIONAL NOTES AND NURSING CONSIDERATIONS:

- Several vials may be required dependant on availability
- Rusty orange urine discoloration
- Obtain baseline vital signs and monitor at 15 minutes then as clinically indicated
- Monitor intake and output