



Appendix B: Parenteral Iron Formulations and Adult Doses

Iron Product	Formulation (elemental iron)	Usual Adult Dose	Adverse Reactions	Therapeutic Considerations	Cost per 1000 mg Fe and PharmaCare Coverage**
iron sucrose <i>Venofer, G</i>	Injection (IV): 20 mg Fe/mL	100 to 300 mg IV intermittent per session Total cumulative dose: up to 1000 mg over 14 days	CNS: headache, fever CVS: hypotension GI: metallic taste, nausea, vomiting MSK: muscular pain, cramps	<ul style="list-style-type: none"> Refer to the product monograph for dilution and administration information Hypotension may occur with higher doses and more rapid administration. Monitor for 30 minutes following each administration Hypersensitivity reactions are rare, monitor for 30 minutes following each administration Maximum hemoglobin response to IV iron usually occurs within 2 to 3 weeks of the last dose 	\$300/1000 mg (Limited Coverage)
iron isomaltoside <i>Monoferric</i>	Injection (IV): 100 mg Fe/mL	500 mg bolus or up to 1500 mg (20 mg/kg) IV drip per session, separated by 7 days Total cumulative dose: up to 1000-2000 mg	CNS: headache CVS: hypotension GI: nausea, vomiting, constipation		\$490/1000 mg (Limited Coverage)
ferric gluconate complex <i>Ferlecit</i>	Injection (IV): 12.5 mg Fe/mL	125 mg IV per session Total cumulative dose: up to 1000 mg over 8 sessions	CNS: generalized seizures CVS: hypotension, hypertension, vasodilation GI: diarrhea, nausea		\$470/1000 mg (Non-benefit)

Abbreviations: BID twice daily; CKD chronic kidney disease; CNS central nervous system; CVS cardiovascular system; Fe elemental iron; GI gastrointestinal; IV intravenous; IM intramuscular; max maximum; mg milligrams; mL milliliters; MSK musculoskeletal.

Reference: Vancouver Coastal Health Pharmaceutical Sciences Clinical Services Unit. Iron Dextran and Iron Sucrose. Vancouver Coastal Health Parenteral Drug Manual. Vancouver British Columbia. Vancouver Coastal Health – 2008.

Iron Dextran dose: total dose (mg) required to restore hemoglobin (Hgb in g/L) to normal: $50 \times (0.00442 [\text{desired Hgb} - \text{observed Hgb}] \times \text{LBW} + [0.26 \times \text{LBW}])$

LBW in kg (male) = $50 \text{ kg} + (2.3 \times \text{inches over 5 feet})$

LBW in kg (female) = $45.5 \text{ kg} + (2.3 \times \text{inches over 5 feet})$

** Prices are estimates as of February 2022. All prices are subject to change.