CORNERSTONE CLINICAL TOOL

Closing Chasms and Optimizing Care in Hereditary Hemorrhagic Telangiectasia: Expert Perspectives on the Role of Intravenous Iron in the Management of HHT-Associated IDA



Second International HHT Guidelines At-A-Glance Summary of Anemia Recommendations

Adapted from: Faughnan M, et al. Ann Intern Med. 2020.





IV Iron Products and Use in HHT

IV iron formulations that allow for total dose infusions (TDI) – that is, full dose iron repletion in a single infusion – are preferred in HHT, as they mitigate the already immense infusion burden for these patients who typically require repeated infusions.

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Iron Product	TDI on Label	TDI in Clinic	Infusion Time	Patients	Common Adverse Events	Warnings & Precautions
FCM AVOID	Yes	Yes	≥15 minutes	Adults, Peds (≥1y)	Nausea, hypertension, hypophosphatemia , flushing	Hypersensitivity reactions, symptomatic hypophosphatemia , hypertension
FDI	Yes	Yes	≥20 minutes	Adults	Nausea, injection site reactions, rash, hypotension	Hypersensitivity reactions, iron overload
FMX	No	Yes	≥15 minutes	Adults	Dizziness, hypotension, constipation, nausea	Black box: fatal and serious hypersensitivity reactions, including anaphylaxis
Iron Sucrose	No	No	≥15 minutes	Adults, Peds (≥2y)	Diarrhea, nausea, vomiting, headache, hypotension, pruritus	Hypersensitivity reactions, hypotension, iron overload
Low-Molecular- Weight Iron Dextran	No	Yes	1 hour (not to exceed 50 mg/min)	Adults, Peds (≥4 months)	Pruritis, abdominal pain, nausea, vomiting, diarrhea	Black box: risk for anaphylactic-type reactions, including fatalities
Sodium Ferric Gluconate	No	No	1 hour	Adults, Peds (≥6y)	Chest pain, leg cramps, dizziness, dyspnea, nausea, vomiting, diarrhea	Hypersensitivity reactions, hypotension, iron overload, benzyl alcohol toxicity
FCM: ferric carboxymaltose, FDI: ferric derisomaltose, FMX: ferumoxytol, Peds: pediatric patients						

Mechanism of FCM-Induced Hypophosphatemia

Adapted from: Schaefer B, et al. Bone. 2022 Jan:154:116202.





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Key Trial Evidence of FCM-Induced Hypophosphatemia







Wolf et al. JAMA. 2020;323(5):432-443

Conclusion: IIM/FDI resulted in lower incidence of hypophosphatemia vs FCM.

Incidence of **hypophosphatemia** <2 mg/dL: **IIM/FDI:** 8.0% vs **FCM:** 74.4%, p<0.001

Incidence of **severe hypophosphatemia** ≤1.0 mg/dL: **IIM/FDI**: 0.0% vs **FCM**: 11.3%, p<0.001





Key Trial Evidence of FCM-Induced Hypophosphatemia



