

Pediatric Iron Deficiency Anemia Algorithm



Diagnose Iron Deficiency Anemia (IDA):

Anemia + microcytosis + low ferritin (if available)

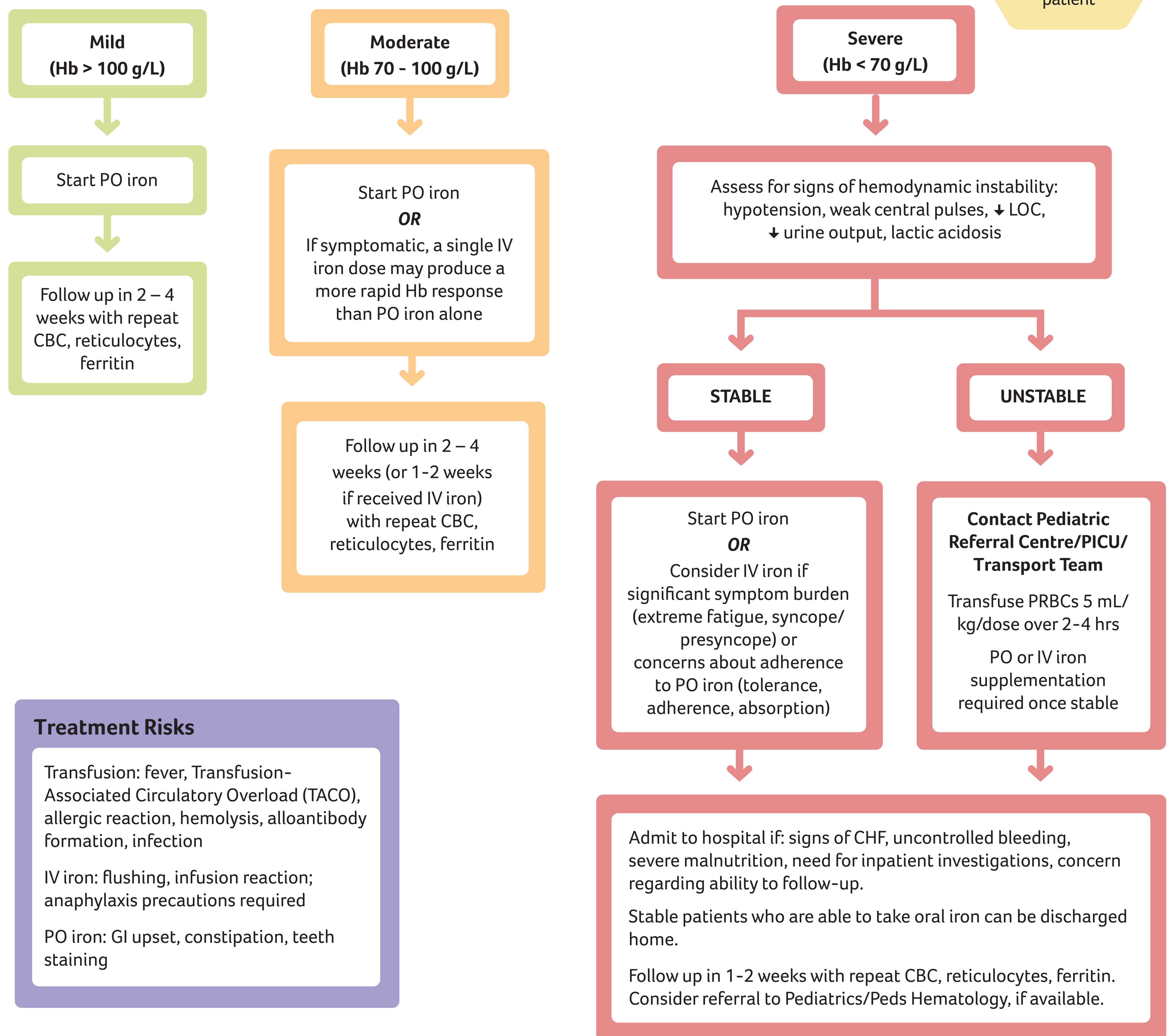
Age	Hb (g/L)*	MCV (fL)*	Ferritin (µg/L) No inflammation	Ferritin (µg/L) Infection or inflammation
6 months – 4 years	< 110	< 70	< 12	< 30
5 – 11 years	< 115	< 75	< 15	< 70
12 – 14 years	< 120	< 75	< 15	< 70
15 – 18 years (female)	< 120	< 75	< 15	< 70
15 – 18 years (male)	< 130	< 75	< 15	< 70

*Use local age-adjusted reference ranges when available

CLASSIFY IDA: MILD, MODERATE OR SEVERE

CAUTION!

There is no hemoglobin threshold below which a transfusion is required in an asymptomatic patient



Treatment Risks

Transfusion: fever, Transfusion-Associated Circulatory Overload (TACO), allergic reaction, hemolysis, alloantibody formation, infection

IV iron: flushing, infusion reaction; anaphylaxis precautions required

PO iron: GI upset, constipation, teeth staining



Scan or click the QR code to learn more, to see a list of key references, and development team members.

Disclaimer: The purpose of this document is to provide emergency healthcare professionals an approach to the assessment and management of Pediatric Iron Deficiency Anemia. The TREKK Network is not liable for any damages, claims, liabilities, costs or obligations arising from the use of this document, including loss or damages arising from any claims made by a third party.

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