Iron Deficiency/Nutritional Deficiency Algorithms

Pregnant	 Is your patient? Pregnant (2nd or 3rd trimester) hemoglobin Have a history of multiple pregnancies. Breastfeeding or recently breast fed. 	
Diet	 Does your patient have or follow? A vegetarian or vegan diet Malnutrition 	If your patient has any of these causes, please complete the
Gl Absorption Problem	 Does your patient have a history of? Gastrectomy, duodenal bypass or Bariatric Surgery Gluten-induded allergy Autoimmune Gastritis <i>H. pylori</i> infection Chronic use of PPIs or H2 blockers 	following laboratory studies: CBC with diff Iron Panel Ferritin TSH if not completed within the last 12
Chronic Blood Loss	 Does your patient have a history of? GI malignancy or benign lesions Heavy menses, hematuria Frequent blood donations Use of any of the following medications: Salicylates, corticosteroids, NSAIDS, anticoagulants, antiplatelets Von Willibrand's diagnosis 	the last 12 months.

Inflammation	 Does your patient have any of the following? Chronic infections in malnutrition Chronic Kidney Disease Chronic Heart Failure Inflammatory Bowel Disease 	If your patient has any of these causes, please complete the following laboratory studies:
Post- operative	 Is your patient post-operative? Abdominal surgery Back Surgery Joint Replacement 	 CBC with diff Iron Panel Ferritin TSH if not completed within the last 12 months.

<u>Cause</u>	Abnormal Lab Value	Recommendations
Pregnancy	Iron Saturation < 10% Ferritin Level < 20	Referral to local entity's Infusion Room for IV iron, see attached Standard Work.
Diet	Iron Saturation < 10% Ferritin < 20 Hemoglobin < 13g/dL in Males Hemoglobin < 12g/dL in Females	Administer Ferrous Sulfate 325mg BID with Reassess labs again in 90 days. If labs remain low or patient experiences GI distress, consider workup to assess for sources of blood loss.
GI Absorption	Iron Saturation < 10% Ferritin < 20 Hemoglobin < 13g/dL in Males Hemoglobin < 12g/dL in Females	Referral to local entity's Infusion Room for IV iron, see attached Standard Work. Draw B12 level as part of workup.
Chronic Blood Loss	Iron Saturation < 10% Ferritin < 20 Hemoglobin < 13g/dL in Males Hemoglobin < 12g/dL in Females	If premenopausal, trial oral iron first – Administer Ferrous Sulfate 325mg BID with If patient fails oral iron trial, refer to local entity's Infusion Room for IV iron, see attached Standard Work.
Inflammation	Iron Saturation < 10% Ferritin < 20 Hemoglobin < 13g/dL in Males Hemoglobin < 12g/dL in Females	Referral to local entity's Infusion Room for IV iron, see attached Standard Work. Draw ESR or CRP as part of workup.
Post-Operative	Iron Saturation < 10% Ferritin < 20 Hemoglobin < 13g/dL in Males Hemoglobin < 12g/dL in Females	Administer Ferrous Sulfate 325mg BID with Reassess labs again in 90 days. If labs remain low or patient experiences GI distress, consider workup to assess for sources of blood loss.

If you continue to feel that Hematology input is required, we would be happy to see your patient following a Provider-to-Provider discussion; please contact your local Hematology Provider directly via Epic Secure Chat or by calling the office.

Oral iron administered every other day has been recommended for better absorption and tolerance. <u>https://pubmed.ncbi.nlm.nih.gov/31413088/</u>