

Blood Day for Primary Care

What should I do to investigate a high ferritin?





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Disclosures

No relevant disclosures





Objectives

- 1. Develop working knowledge of iron homeostasis and storage as it relates to ferritin
- Develop a broad differential diagnosis for an elevated ferritin in an adult patient
- 3. Clarify utility of HFE gene testing in selected individuals
- 4. Clarify the role of phlebotomy in patients with iron overload





Interactive question

- 1. Which of the following is the most common cause of an elevated ferritin in a patient presenting to your practice?
 - a) Hepcidin mutation
 - b) HFE C282Y/C282Y mutation
 - c) Inflammation
 - d) Transfusion support





Dr. HEMATOLOGY ONCOLOGY DEPARTMENT HEALTH SCIENCES CENTRE MS5-820 SHERBROOK STREET WINNIPEG, MB

R3E0Z3

Phone: Fee:

786 0621

Dear Dr.

Thank you for seeing *** a 42 year old male patient. He has been having markedly increased ferritin levels with his last level being 1013. His Iron was 35 and TIBC was 52. He also had a CXR and CT abdomen done that was normal. The patient denies any joint pains and his physical examination was essentially normal. He is also awaiting and allergist review for large unexplained hives/ urticaria that he gets all over his body at times. I will attach copies of his results. Your review of this patient and advise on management is appreciated.

Active Medications: EXPIRED LOSEC 20 MG DELAYED RELEASE CAPSULE EXPIRED 1 CAP QD 1 MO30

DICLOFENAC 4% GEL AND LIDOCAINE 2% GEL 1 APPLN BID PRN 1 MO30 As directed elbow brace- narrow see instructions for tennis elbow right arm

Physiotherapy see instructions For right tennis elbow

EXPIRED BETADERM VALERATE 0.1% TOPICAL CREAM EXPIRED 1 APPLN BID PRN 30 Day EXPIRED NIX CREAM RINSE TOPICAL SOLUTION EXPIRED 1 APPLN QD 1 Day Aply from head to toe and leave on for 8 hours

Atlergies: No Allergies recorded

Medical History: mildly elevated lipids

Family History:

Sincerely,

1

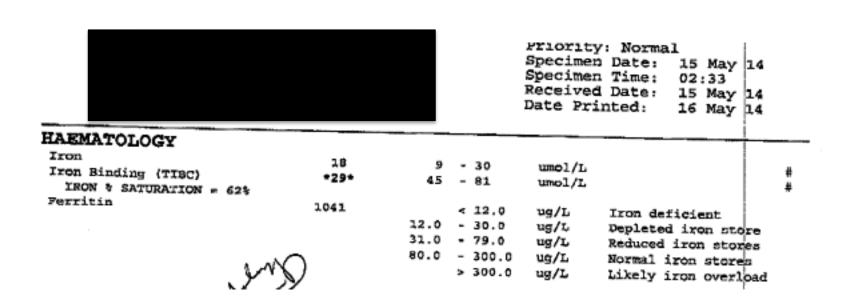
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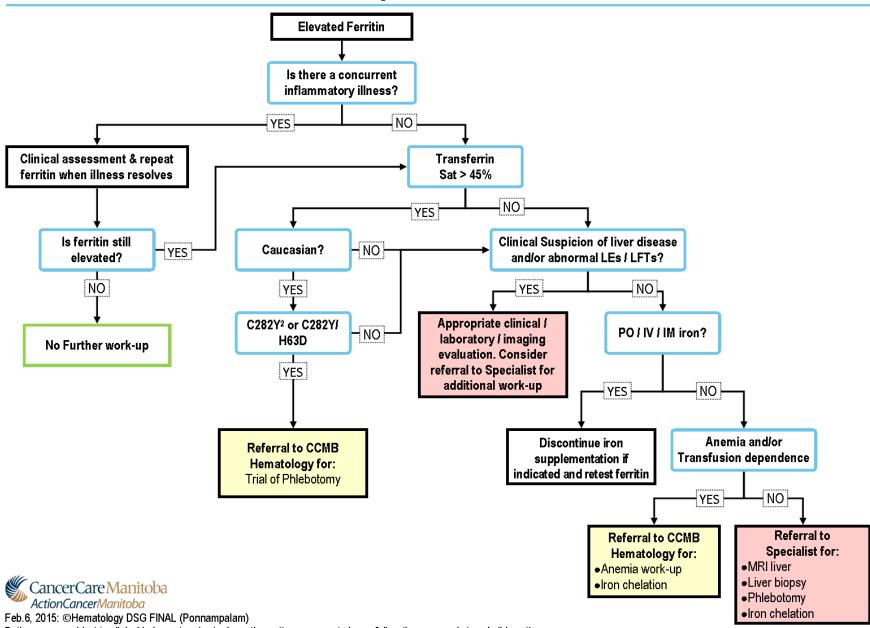


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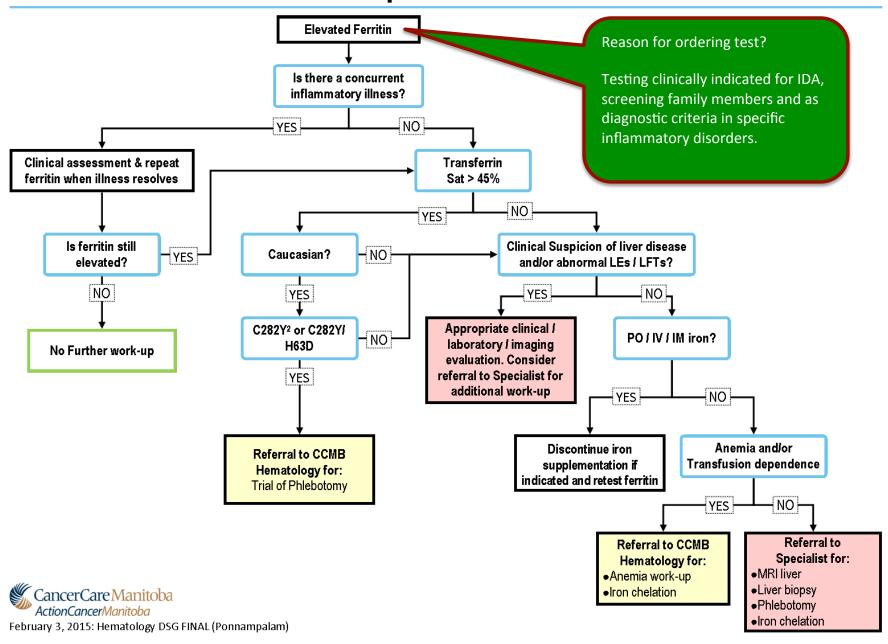
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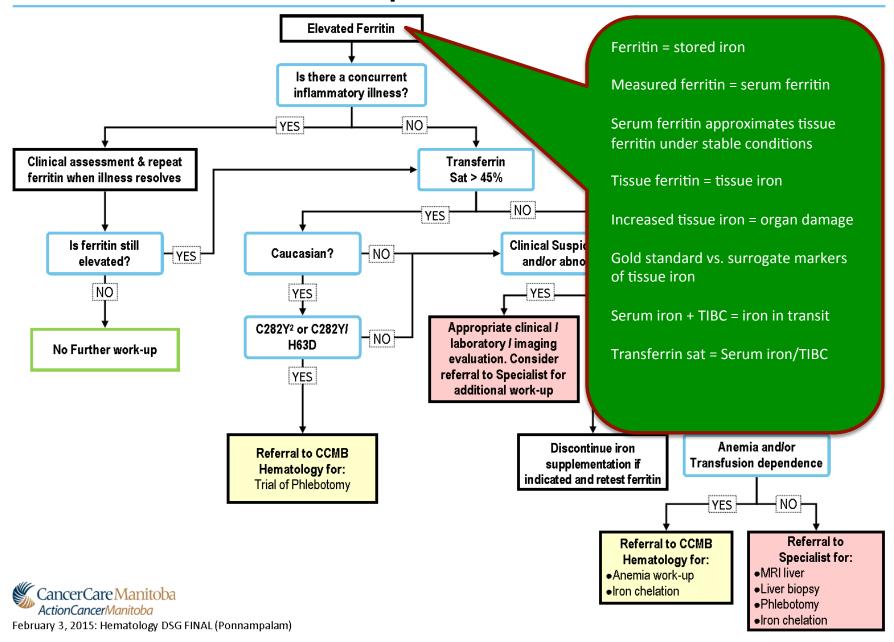


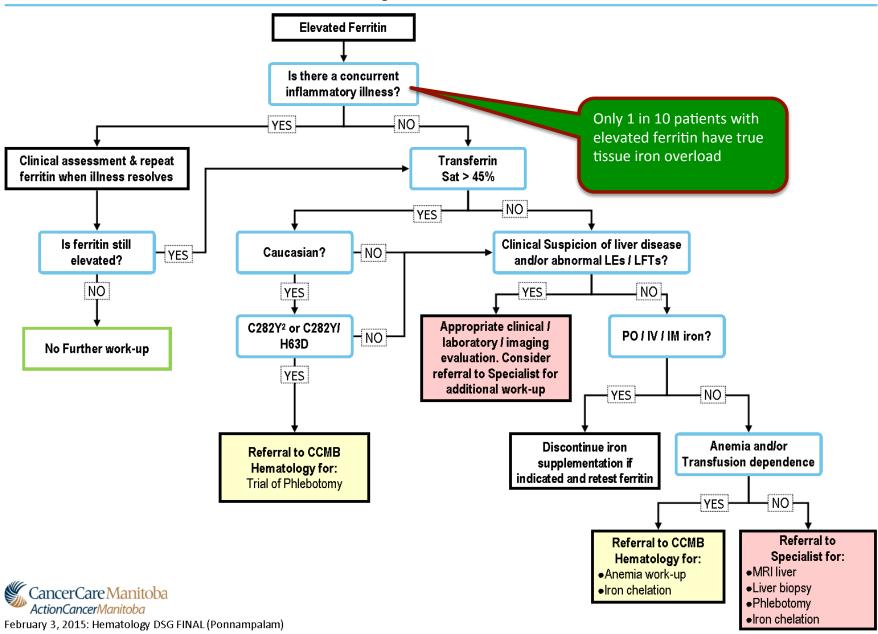


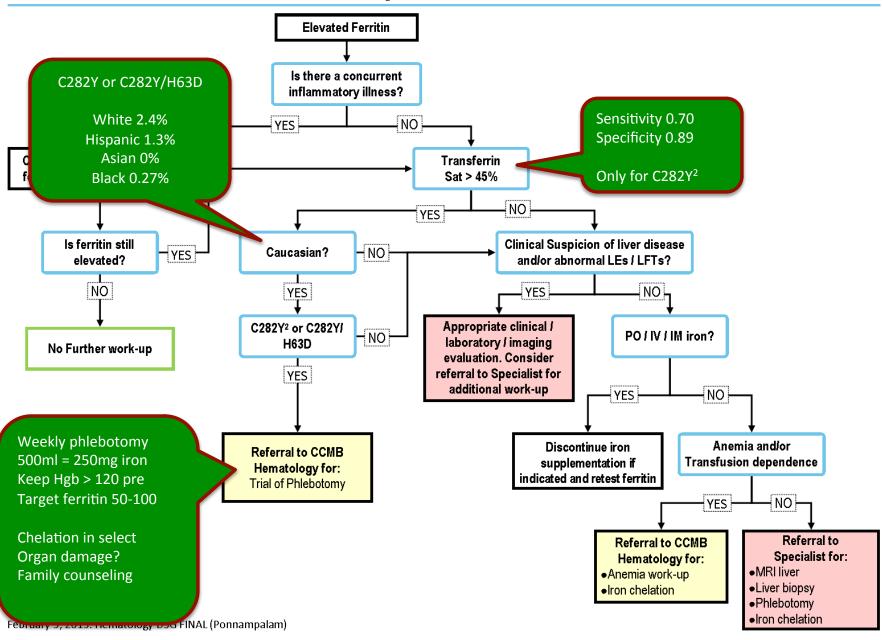


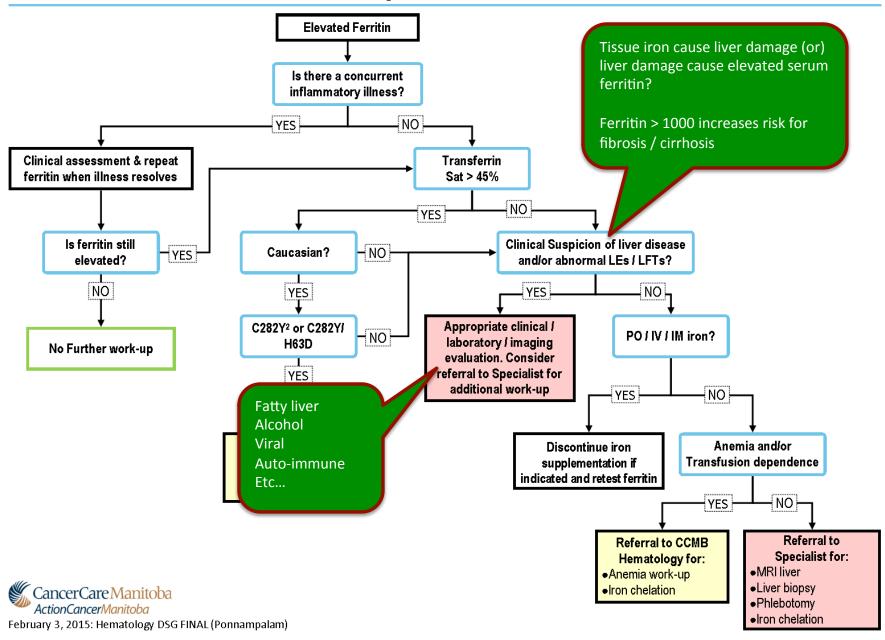
Pathways are subject to clinical judgment and actual practice patterns may not always follow the proposed steps in this pathway.

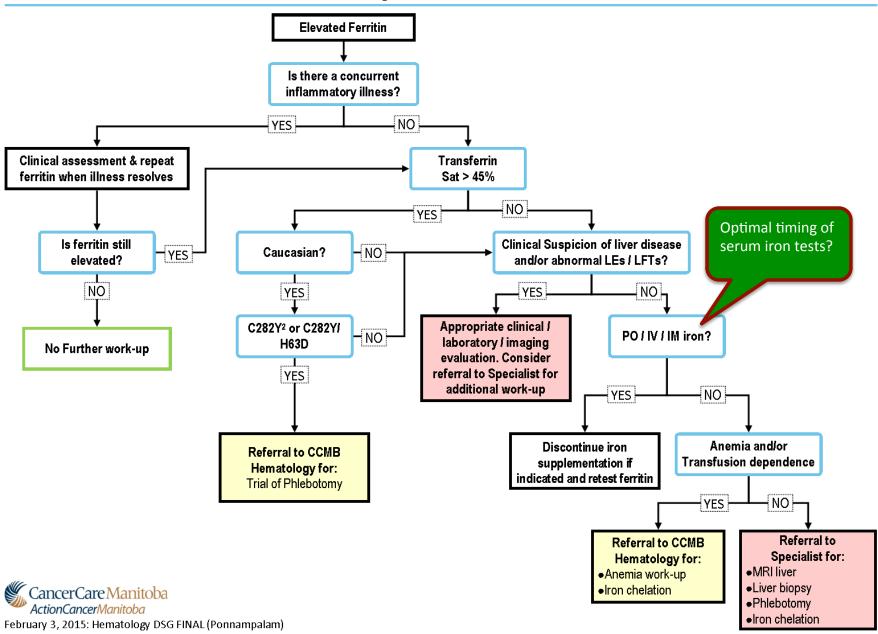


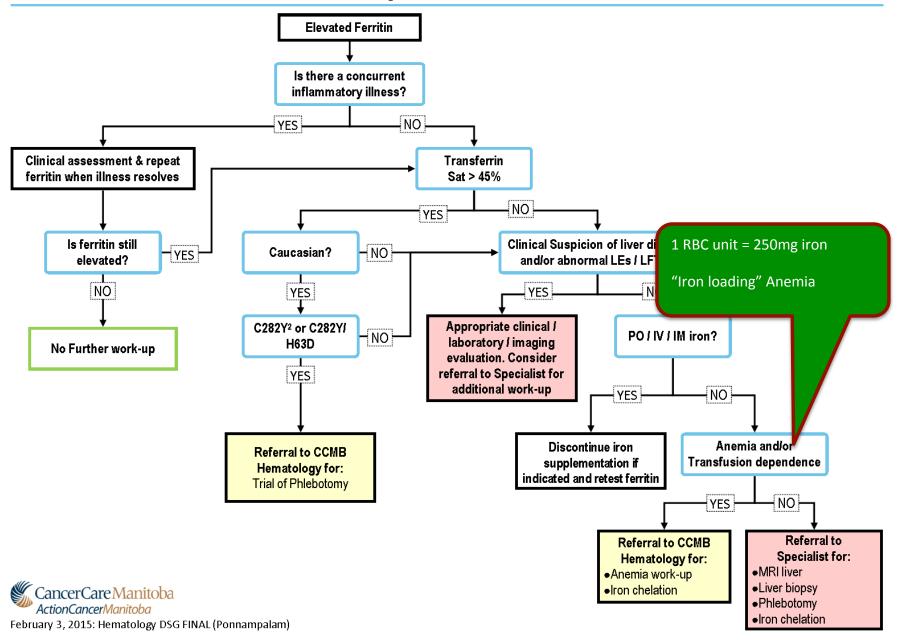


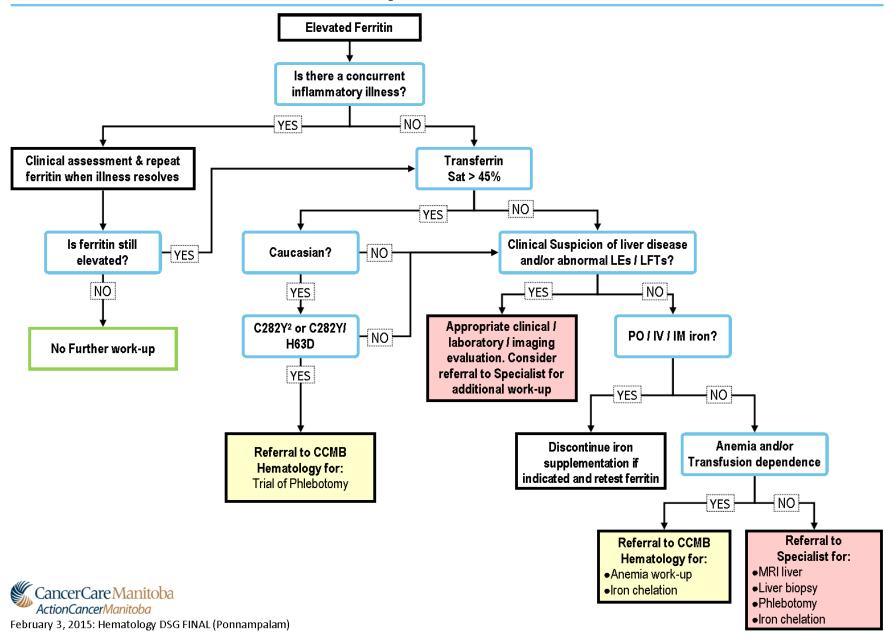














Take Home Messages

- 1 in 10 patients with elevated ferritin have tissue iron overload
- Common causes of elevated ferritin are inflammatory disorders and liver diseases
- Phlebotomy is the mainstay of treatment for patients with tissue iron overload





Questions?

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