Hereditary Hemochromatosis Algorithm

Clinical suspicion of hereditary hemochromatosis (HH)

- YES
  - Fasting morning transferrin saturation >45% (FEC / Iron and Total Iron-Binding Capacity, Serum)
    - NO → STOP
    - YES
      - Repeat transferrin saturation (FEC) and ferritin >normal (FERR / Ferritin, Serum)
        - NO → Recheck in 1 year
        - YES
          - Secondary iron overload?
            - YES → Treat underlying cause
            - NO
              - HFE gene testing: C282Y homozygote? (HFE / Hemochromatosis HFE Gene Analysis, Blood)
                - YES
                  - 1. Ferritin <1,000 mcg/L
                    - NO
                      - Liver biopsy histology and hepatic iron concentration (FET / Iron, Liver Tissue) consistent with HH?
                        - NO → Follow patient
                        - YES → Phlebotomy
                - NO → Phlebotomy