Hereditary Hemochromatosis Algorithm

Clinical suspicion of hereditary hemochromatosis (HH)

Fasting morning transferrin saturation >45% (FEC / Iron and Total Iron-Binding Capacity, Serum)

YES

Fasting morning transferrin saturation >45% (FEC / Iron and Total Iron-Binding Capacity, Serum)

NO

STOP

Repeat transferrin saturation (FEC) and ferritin >normal (FERR / Ferritin, Serum)

YES

NO

Recheck in 1 year

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
2. Normal aspartate aminotransferase (AST)

Phlebotomy

NO

Liver biopsy histology and hepatic iron concentration (FET / Iron, Liver Tissue) consistent with HH?

YES

Phlebotomy

NO

Follow patient