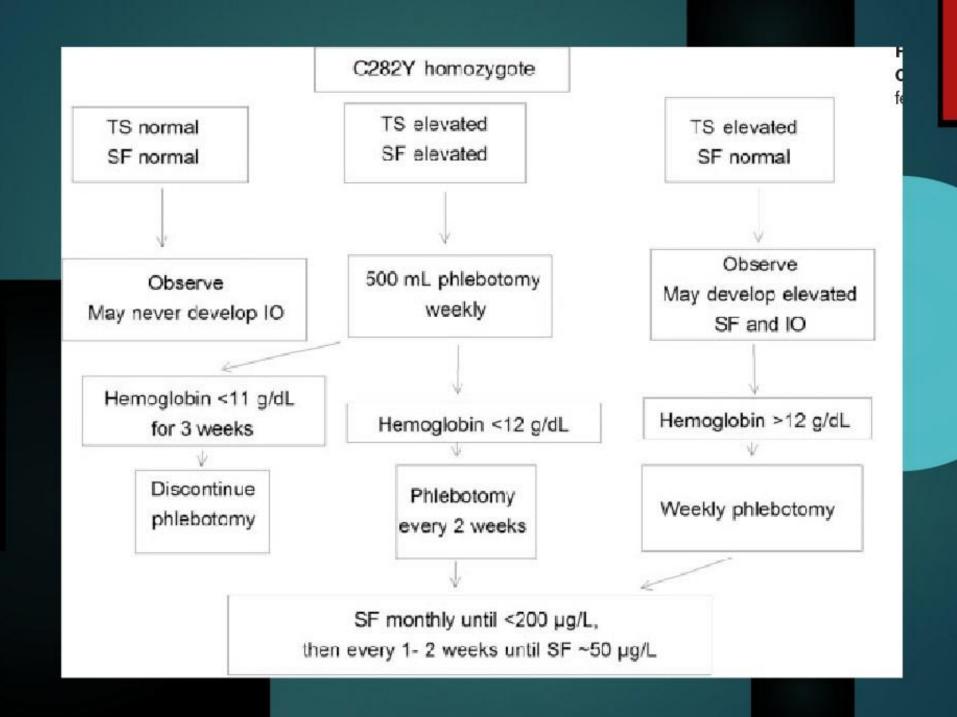
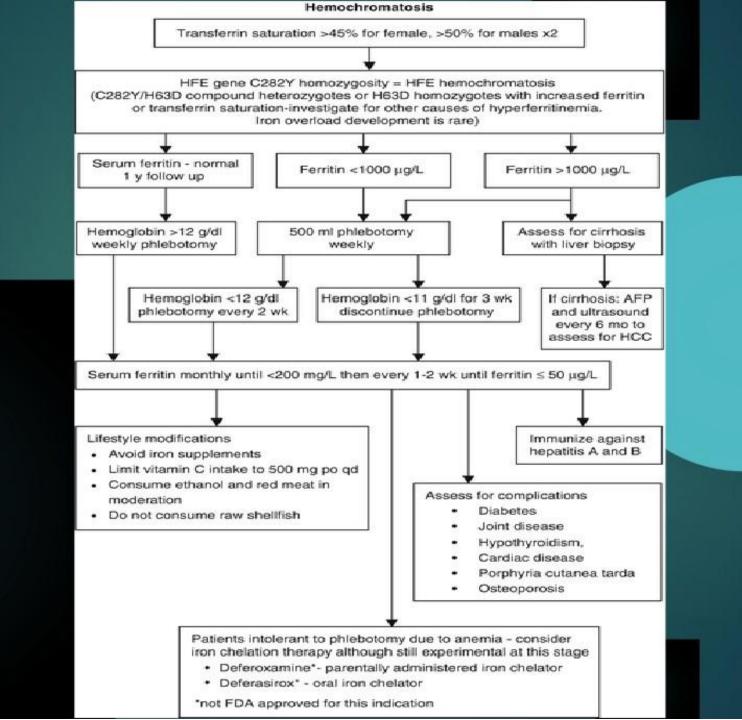
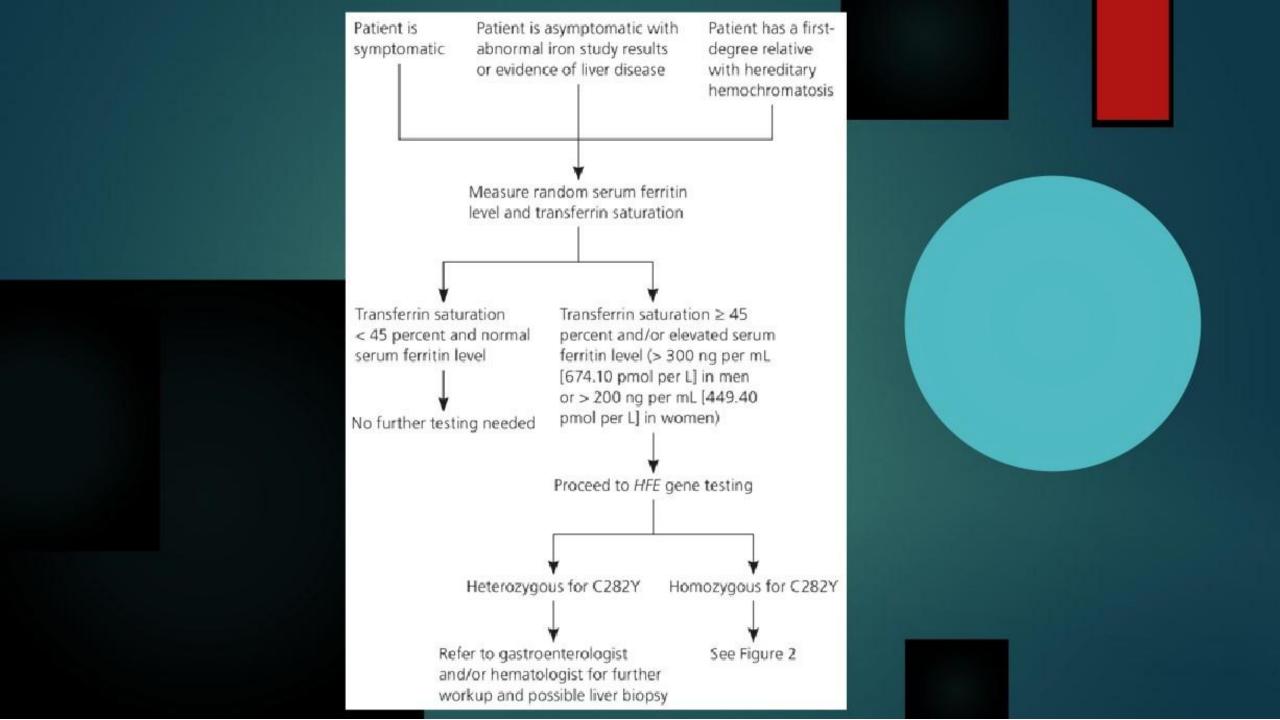
HAEMOCHROMATOSIS - BY HARI SHANKAR PANDEY

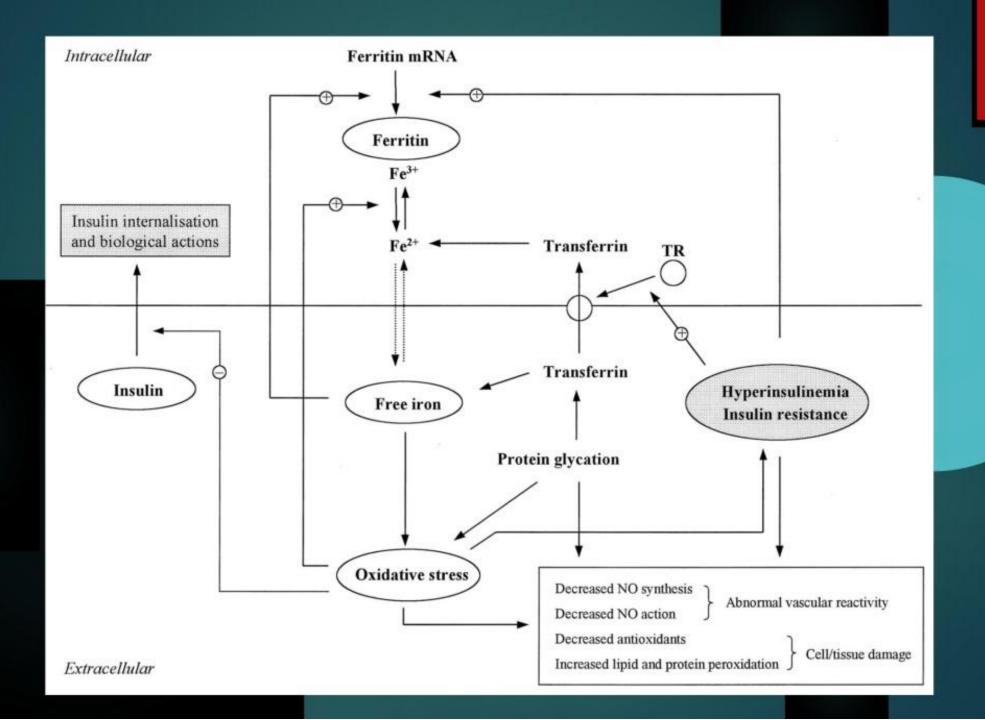






Hemochromatosis Overview

- History
 - Classic triad described in the 1865 by Trousseau
 - Diabetes, bronze skin, cirrhosis
 - Named "Hemochromatosis" in 1889 by Von Recklinghaussen
 - Iron storage and widespread tissue injury
 - Inheritance described in 1935
 - HLA linkage to chromosome 6 identified 1976



Serum ferritin

Over 300 µg/l in men and older women; over 200 µg/l in young women

POSITIVE

Transferrin saturation

Over 50% in men; over 45% in women on two occasions

POSITIVE

HFE gene test

C282Y homozygote; H63D homozygote*; C282Y/H63D compound heterozygote*

POSITIVE

No diagnosis

Secondary iron overload

NEGATIVE

Other genetic link

Ferroportin; haemojuvelin; African iron overload; transferrin receptor 2; hepcidin

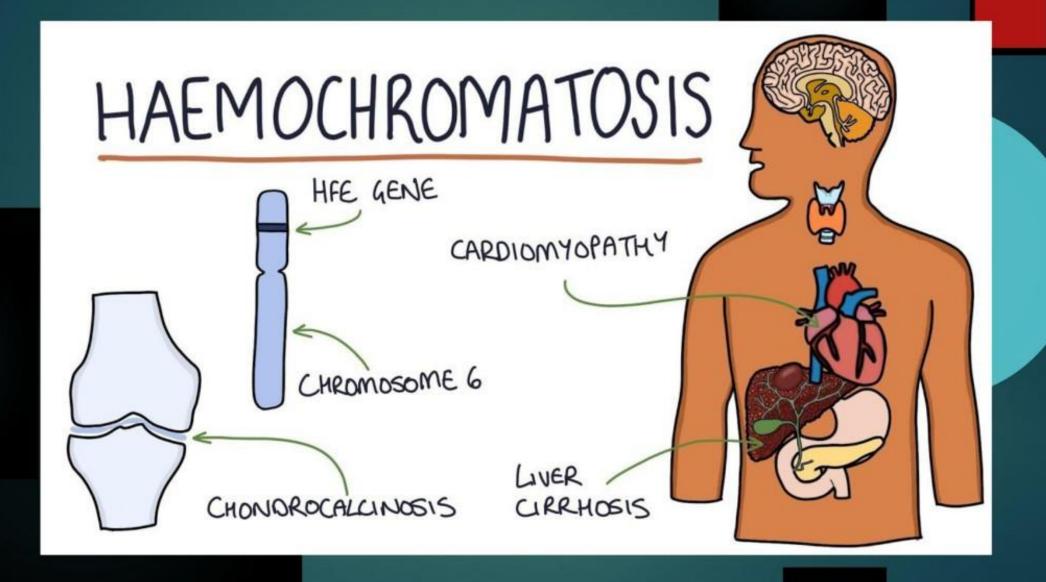
POSITIVE

Genetic haemochromatosis

NECATIVE

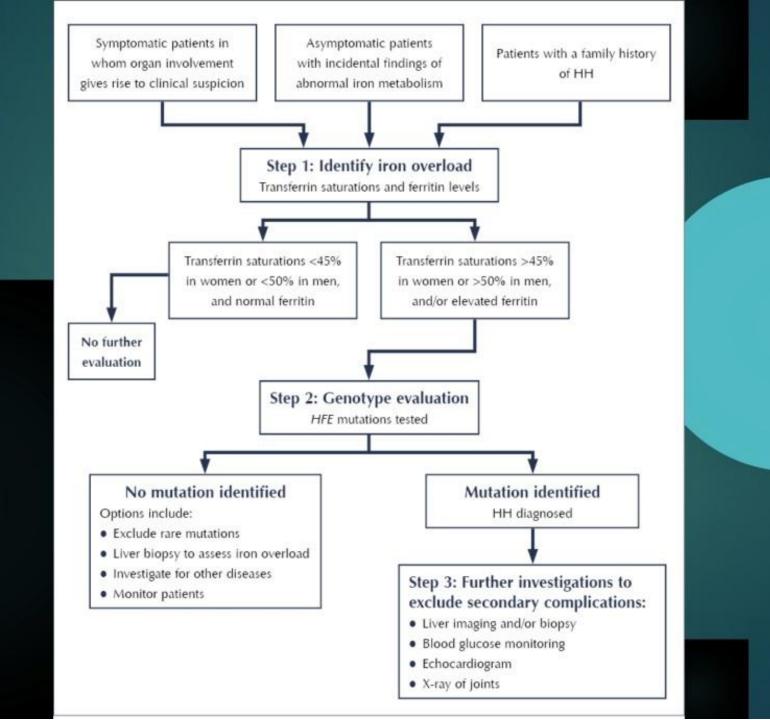
CATIVE

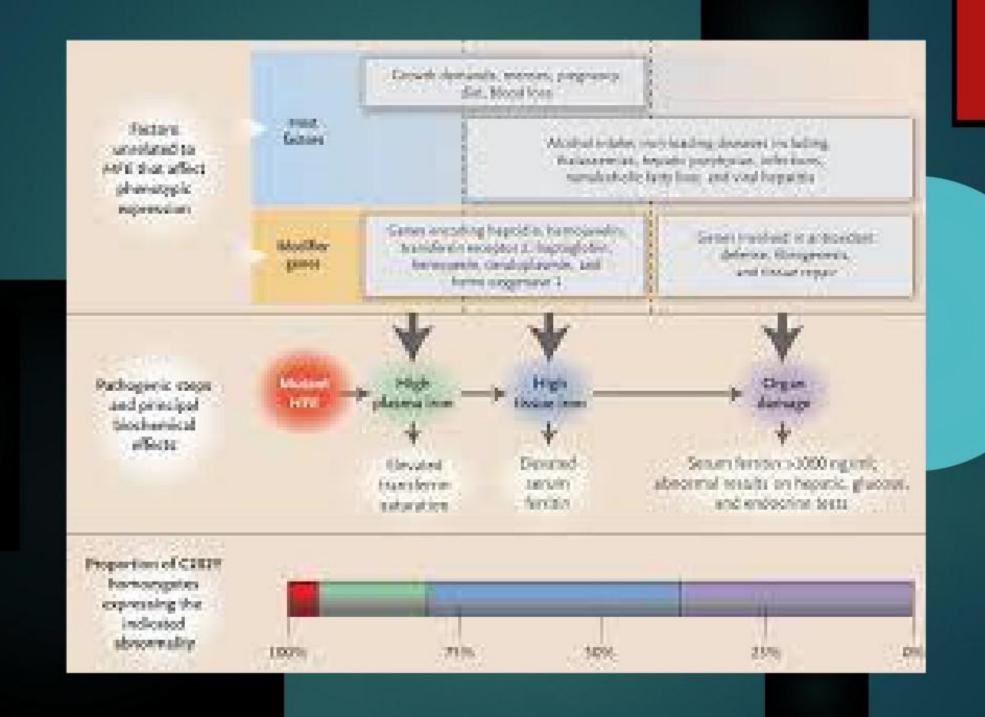
*Rule out causes of secondary iron overload before confirming the cause as H63D homozygosity or C282Y/H63D compound heterozygosity



Iron Overload or Hemochromatosis treatment

 The most common way to treat iron overload is to reduce the amount of iron in the body. This can be done through diet by eating foods low in iron or through the withdrawal of blood. The preferred treatment for reducing iron levels in hemochromatosis patients is called therapeutic phlebotomy (repeated venesection).





HFE hemochromatosis

- Caucasian, male, 40–50 years old
- Fatigue, dark skin, arthralgia and/or hepatomegaly
- Elevated TS and SF

TfR2 hemochromatosis

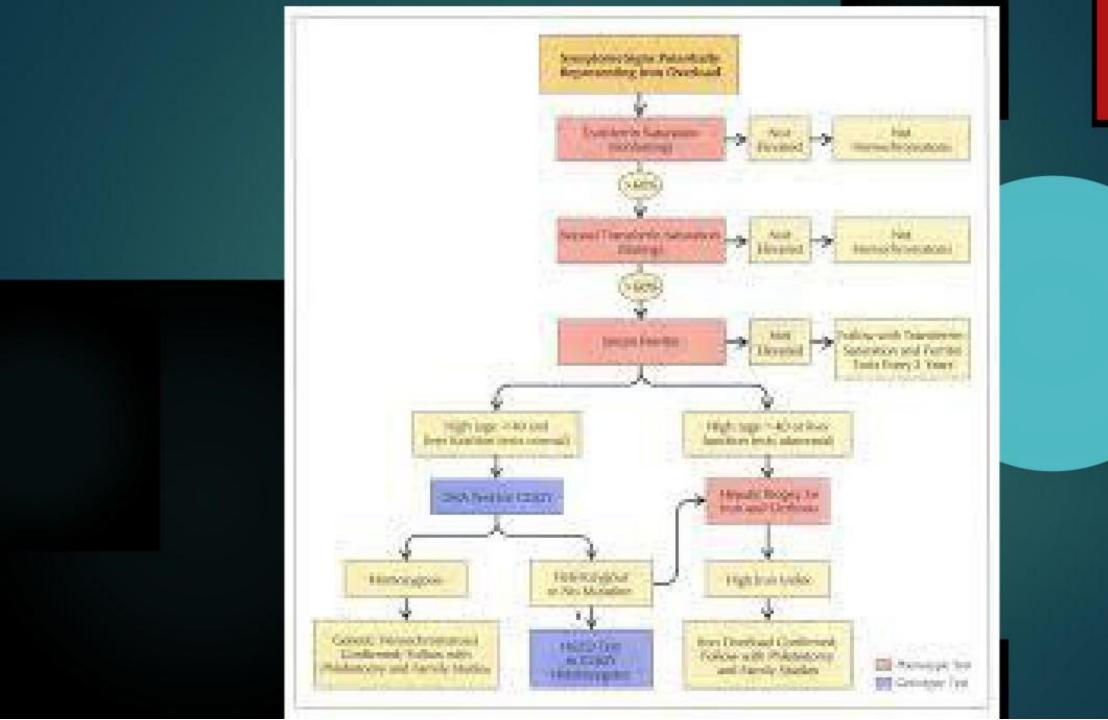
- · Caucasian or non-Caucasian, male or female, 30-40 years old
- Cardiomyopathy, endocrinopathy, liver disease
- Elevated TS and SF

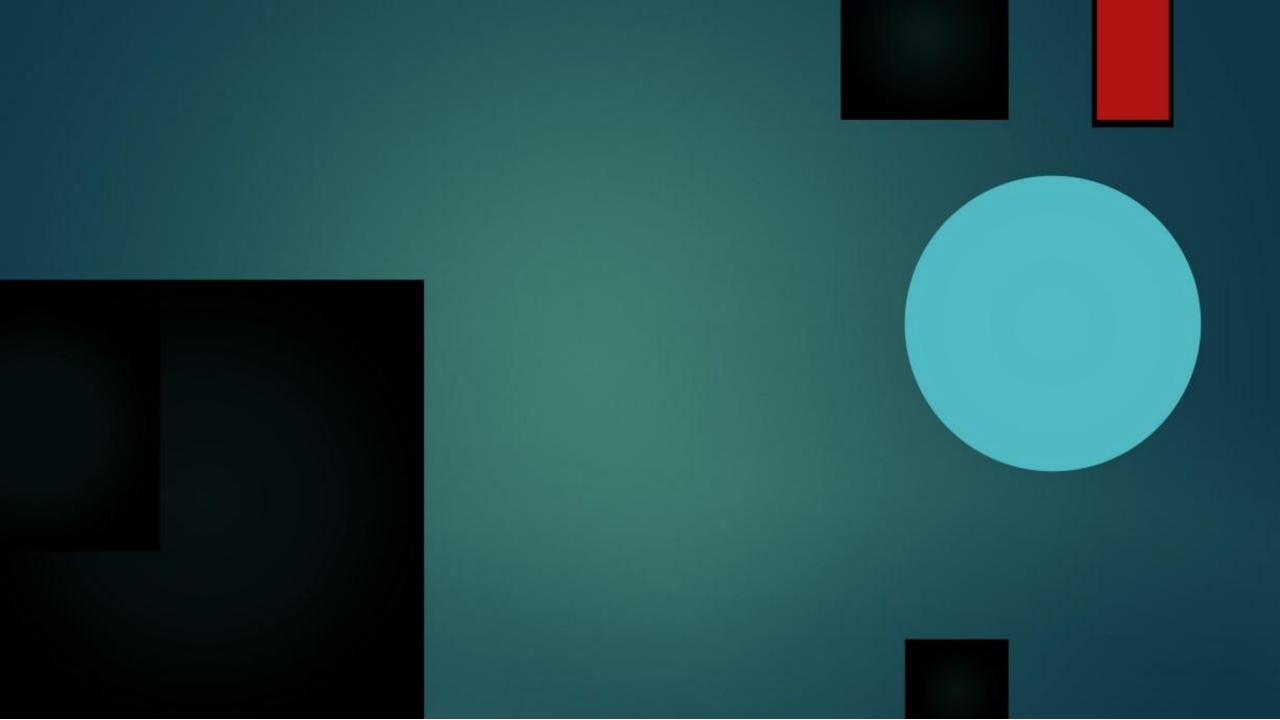
HJV or HAMP hemochromatosis

- Caucasian or non-Caucasian, male or female, 15–20 years old
- Impotence/amenorrhea and/or cardiomyopathy
- · High TS and SF

Ferroportin disease

- · Caucasian or non-Caucasian, male or female, 10-80 years old
- One parent with unexplained hyperferritinemia
- Unexplained elevation of SF and normal TS





HOW WAS HEMOCHROMATOSIS

DISCOVERED? HOW DOES HEMOCHROMATOSIS AFFECT DAILY LIFE? HOW MANY TYPE OF HEMOCHROMATOSIS ARE THERE? CAN HEMOCHROMATOSIS CAUSE MENTAL PROBLEM