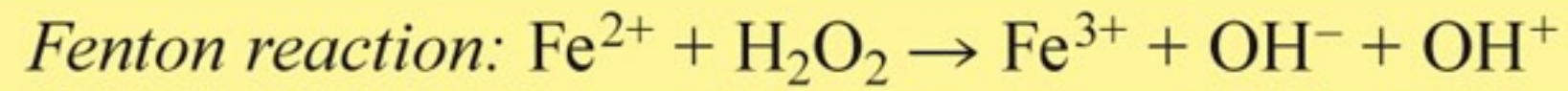


Homozygosity (C 282 Y)  
Compound heterozygosity (C 282 Y + H 63 D)



- extreme iron uptake
- alcohol abuse
- virus hepatitis  
etc.

- metabolic diseases
- haemolysis
- portocaval shunt  
etc.

*Lipid peroxidation* ↑

cell death

collagen  
synthesis ↑

damage to DNA

fibrosis ↑

**cirrhosis** ↑

**HCC**