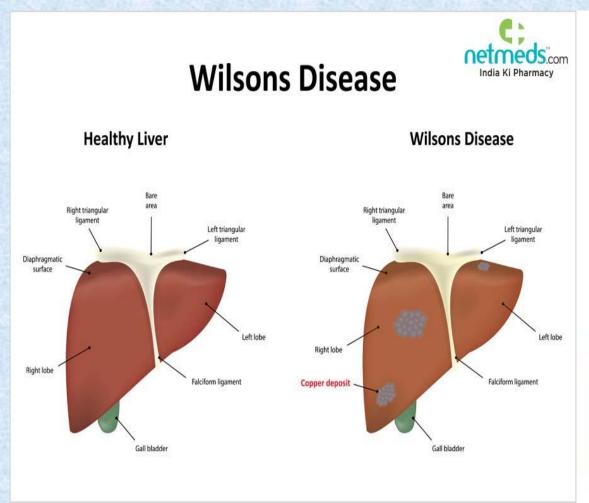
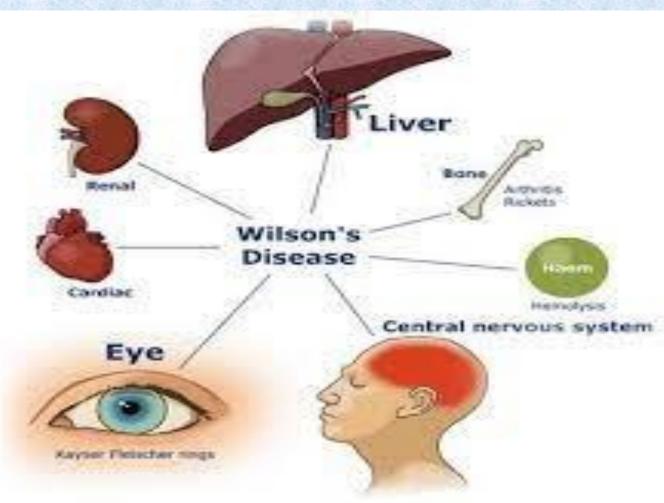


Assistant prof. Dr. heba fadhil hassan

- Synonyms of Wilson Disease
- hepatolenticular degeneration
- lenticular degeneration, progressive

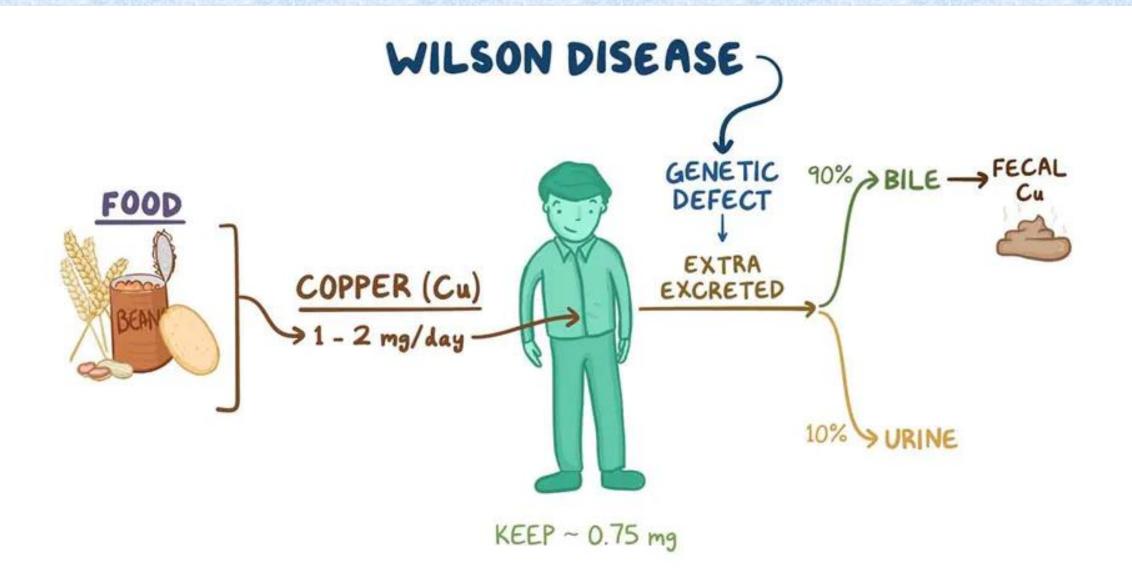




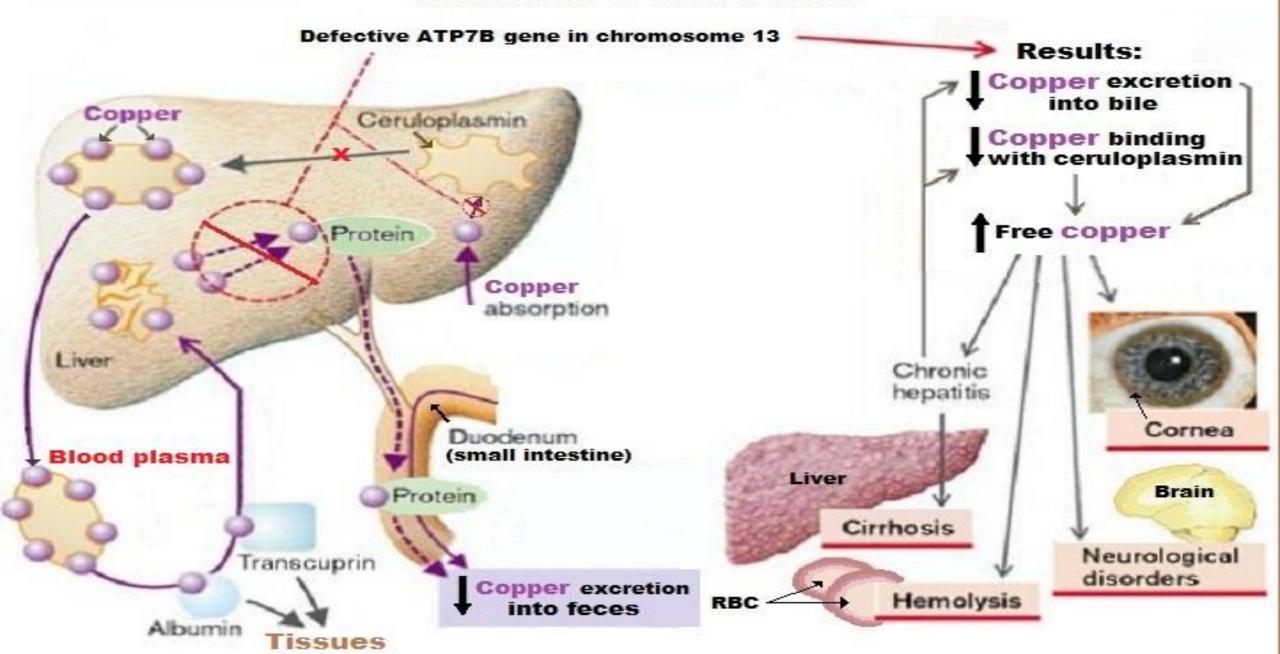
- •Wilson disease is a rare genetic disorder characterized by excess copper stored in various body tissues, particularly the liver, brain, and corneas of the eyes.
- •The disease is progressive and, if left untreated, it may cause liver (hepatic) disease, central nervous system dysfunction, and death.

- Wilson's disease is detected in its early stages in the patient, in people between the ages of 5 and 35.
- Wilson disease is a rare disorder that affects males and females in equal numbers. The disease is found in all races and ethnic groups.
- Wilson's disease occurs in approximately one in 30,000 to 40,000 people worldwide. Approximately one in 90 people may be carriers of the disease gene.
- •only about 2,000-3,000 cases have been diagnosed in the United States, other affected individuals may be misdiagnosed with other neurological, liver disorders.

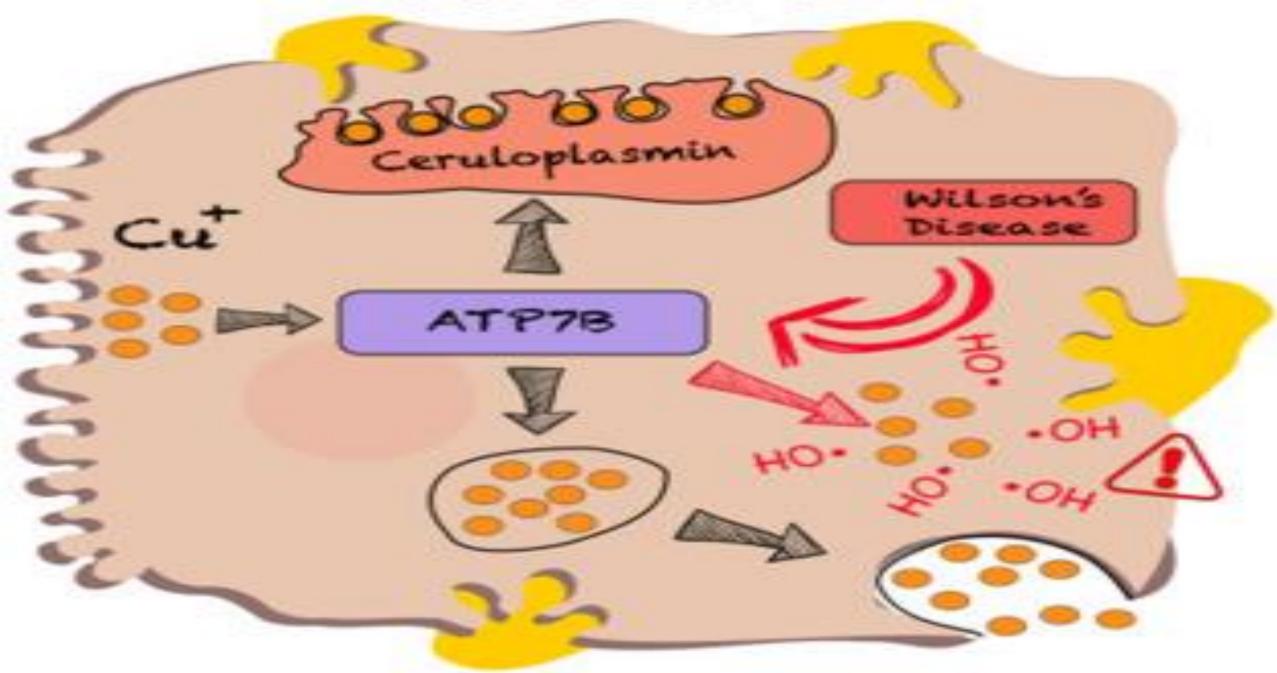
- Wilson disease is **caused by** mutations of the **ATP7B** gene on chromosome **13**, which plays an important role in the movement of excess copper from the liver to the bile to be excreted from the body through the intestines.
- More than 300 different mutations of the ATP7B gene have been identified.



### Wilson's Disease

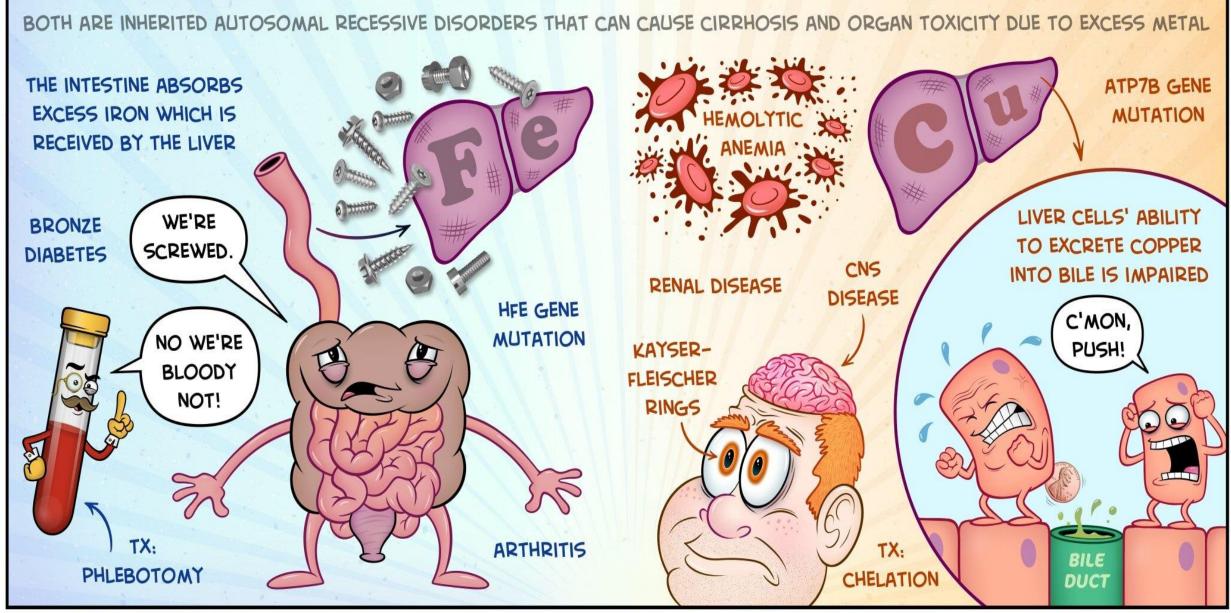


## HEPATOCYTE



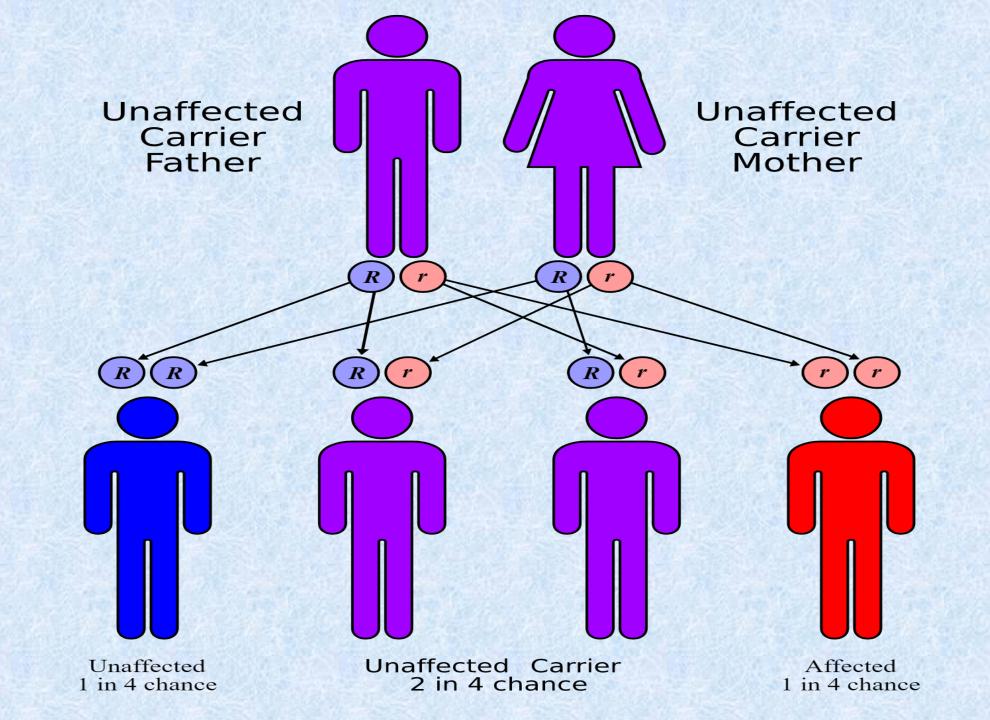
#### HEREDITARY HEMOCHROMATOSIS

#### WILSON DISEASE

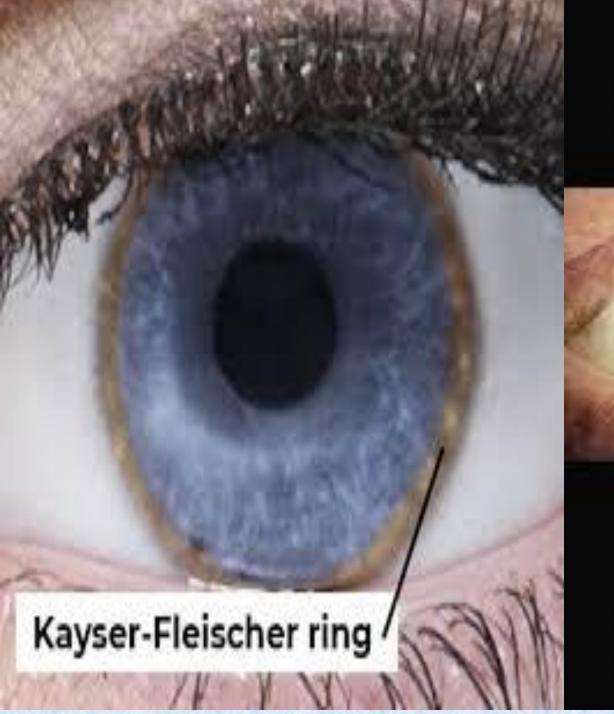


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- Common signs of associated liver disease include a yellow discoloration (jaundice) of the skin, mucous membranes and the membranes (sclera) that line the eye.
- swelling (edema) of the legs and abdomen (ascites) due to abnormal retention of fluid and fatigue.
- symptoms of liver disease often associated with anemia due to breakdown of red blood cells (hemolysis) and mental confusion.
- In young patients, the characteristic rusty-brown deposits in the corneas of the eyes (Kayser-Fleischer rings).



# Signs of Wilson's Disease



20,000 cases per year inhertited disorder causes too much copper to accumulate in organs

