

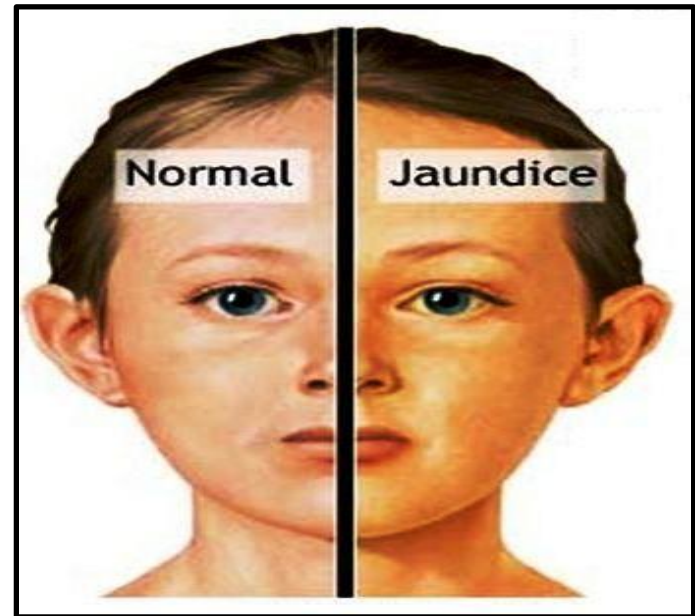
BLOOD : Jaundice

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Jaundice

- refers to yellow discoloration of the body tissue including skin, eyes.
- Large quantities of **bilirubin** in extracellular fluids.
- Normal serum bilirubin conc = 0.2 - 1.0 mg/dl.
- >2mg/dl=clinical jaundice

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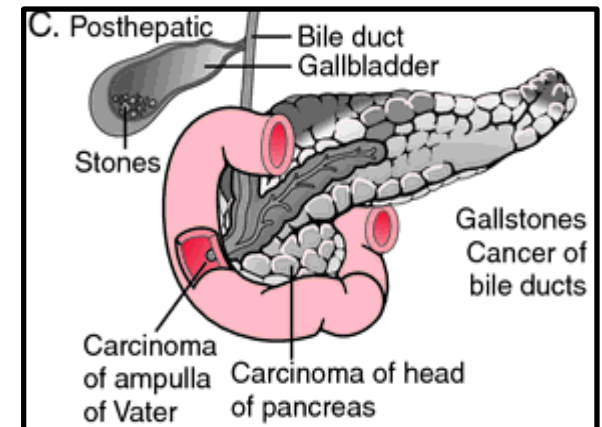
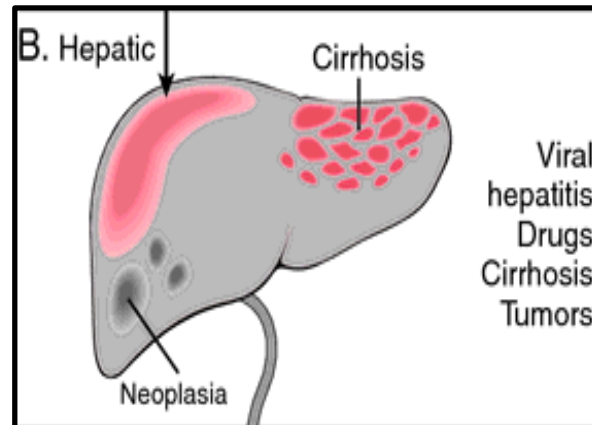
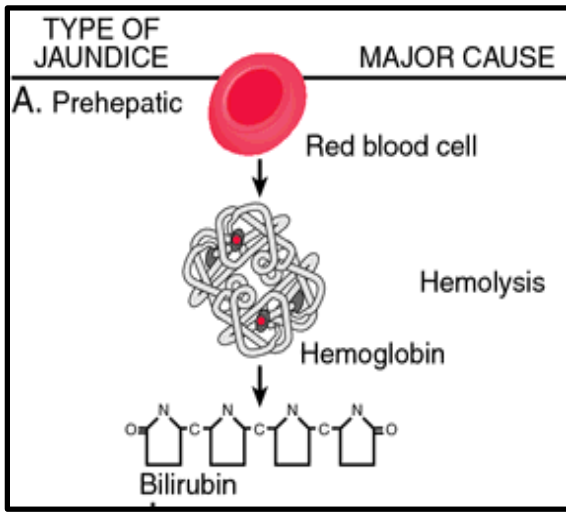


TYPES OF JAUNDICE

Pre-hepatic
[Hemolytic
Jaundice]

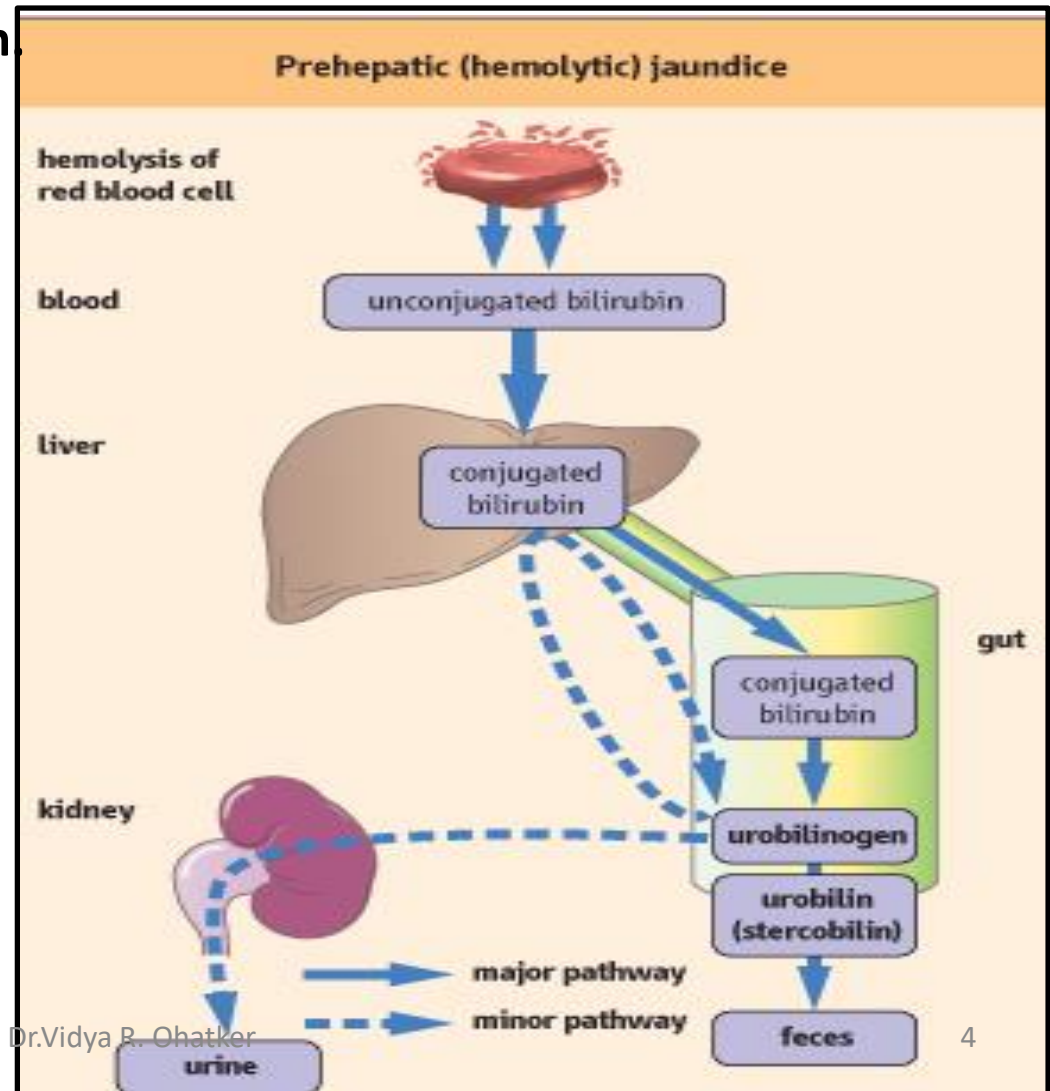
Hepatic
[Hepatocellular
Jaundice]

Post-hepatic
[Obstructive
Jaundice]



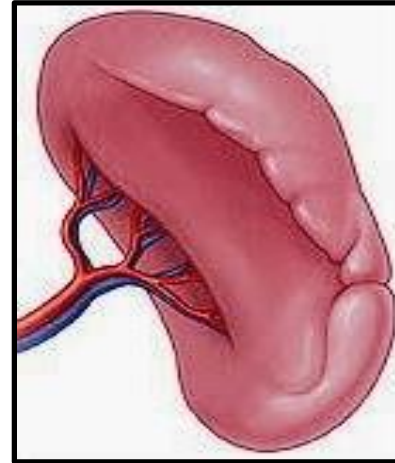
PREHEPATIC [HEMOLYTIC JAUNDICE]

- Hemolysis of erythrocytes.
- conc of unconjugated bilirubin
- Urobilinogen & stercobilinogen.



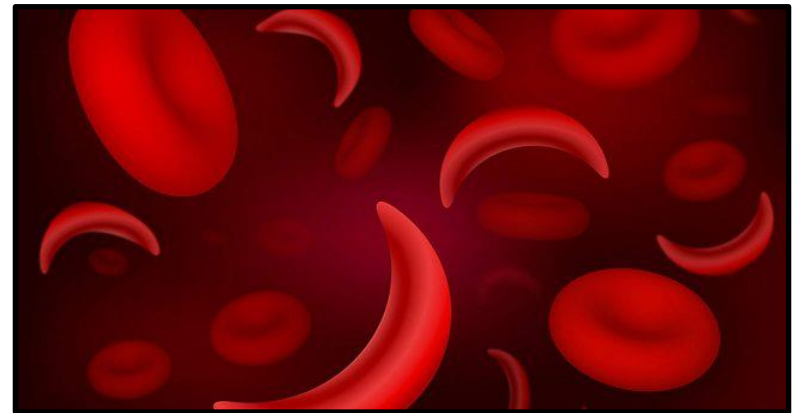
CAUSES:-

- 1) Erythroblastosis fetalis
- 2) Haemoglobin abnormality
- 3) Drug toxicity
- 4) Haemolysis due to mismatched transfusion
- 5) Hypersplenism.



SYMPTOMS:-

- Yellowish colour
- Dark urine
- Fatigue
- Splenomegaly

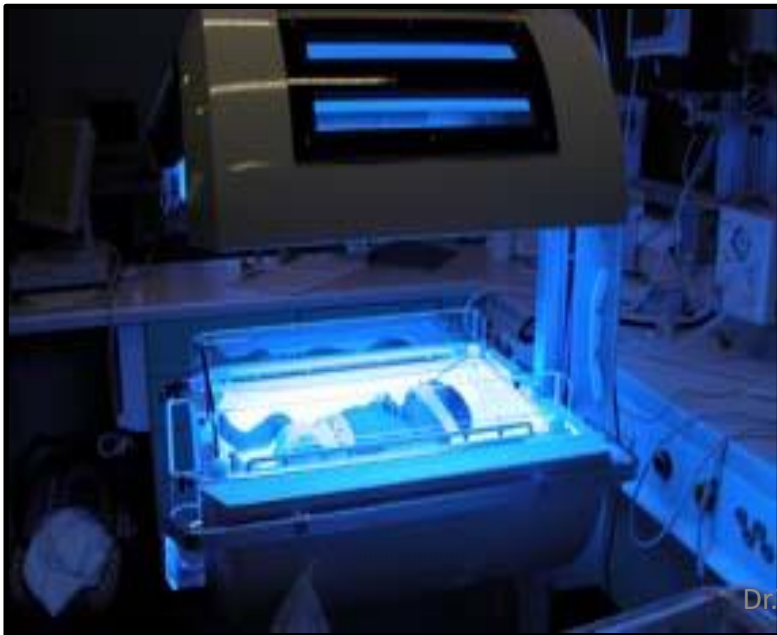


TREATMENT

➤ Phototherapy

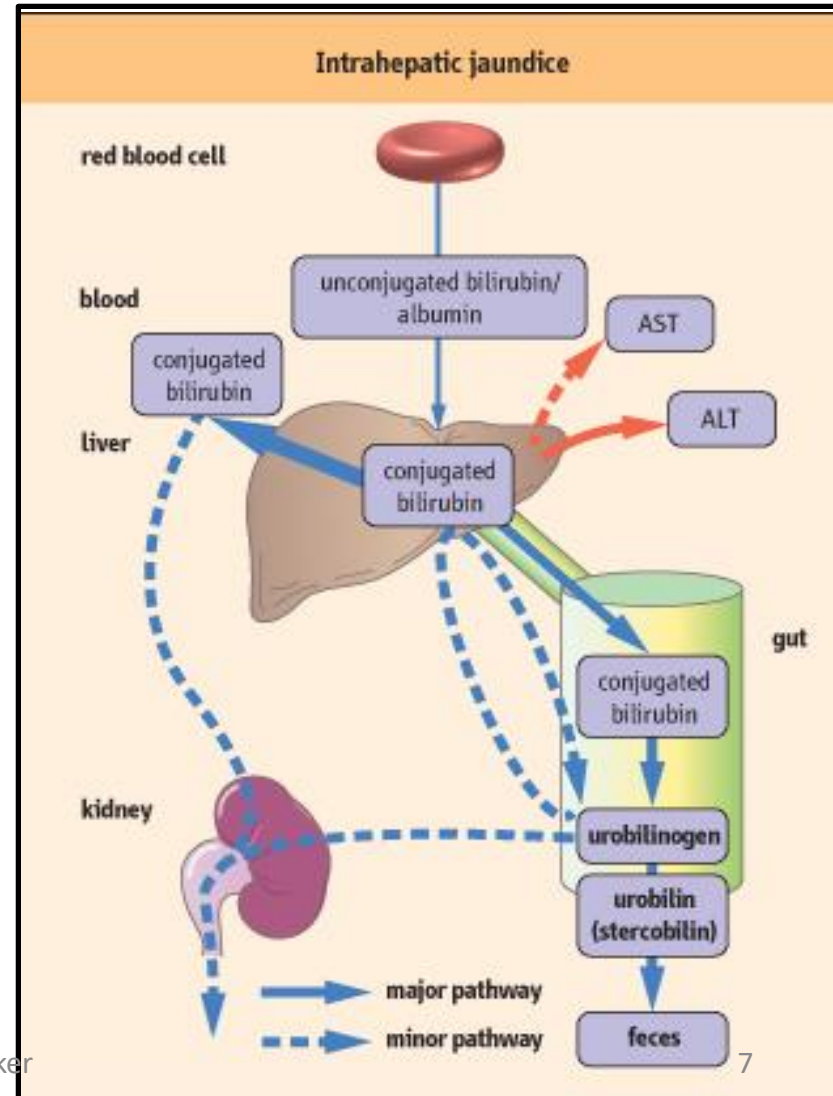
photo-oxidation of bilirubin \longrightarrow soluble in H₂O \longrightarrow easily excreted.

➤ Blood transfusion in case of anemia



2) HEPATIC [HEPATOCELLULAR JAUNDICE]

- Dysfunction in liver due to damage to parenchymal cells
- conjugated & unconjugated bilirubin.



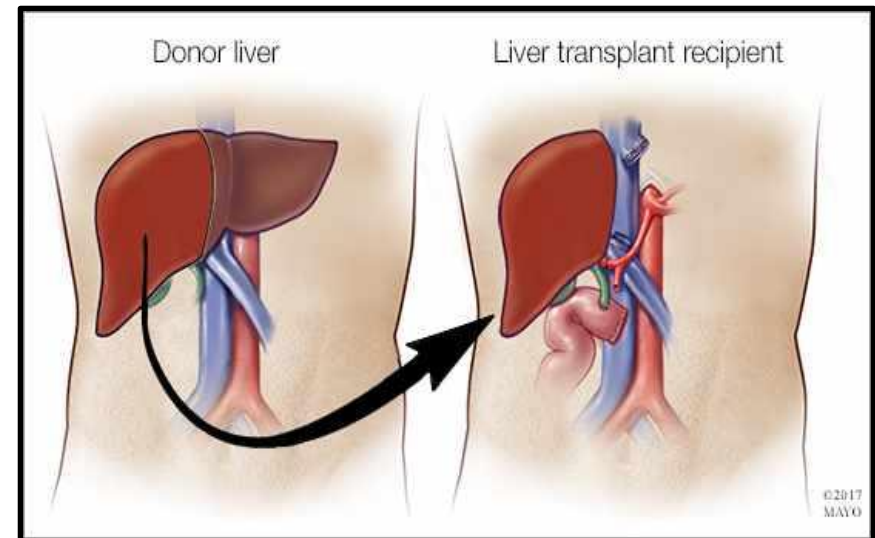
CAUSES

- Acute inflammation of liver
- Liver Cirrhosis
- Hepatitis.
- Carcinoma of liver



TREATMENT:-

- Liver transplantation
- Use of corticosteroids.



RARE GENETIC CAUSES

➤ **Gilbert's syndrome:-**

- 1) Defect in uptake of bilirubin by hepatocytes.
- 2) Impairment in conjugation, activity of UDP-glucuronyltransferase.

➤ **Crigler-Najjar syndrome:-**

Unconjugated hyperbilirubinemia

➤ **Dubin-Johnson syndrome:-**

Autosomal rare genetic disorder,
conjugated bilirubin

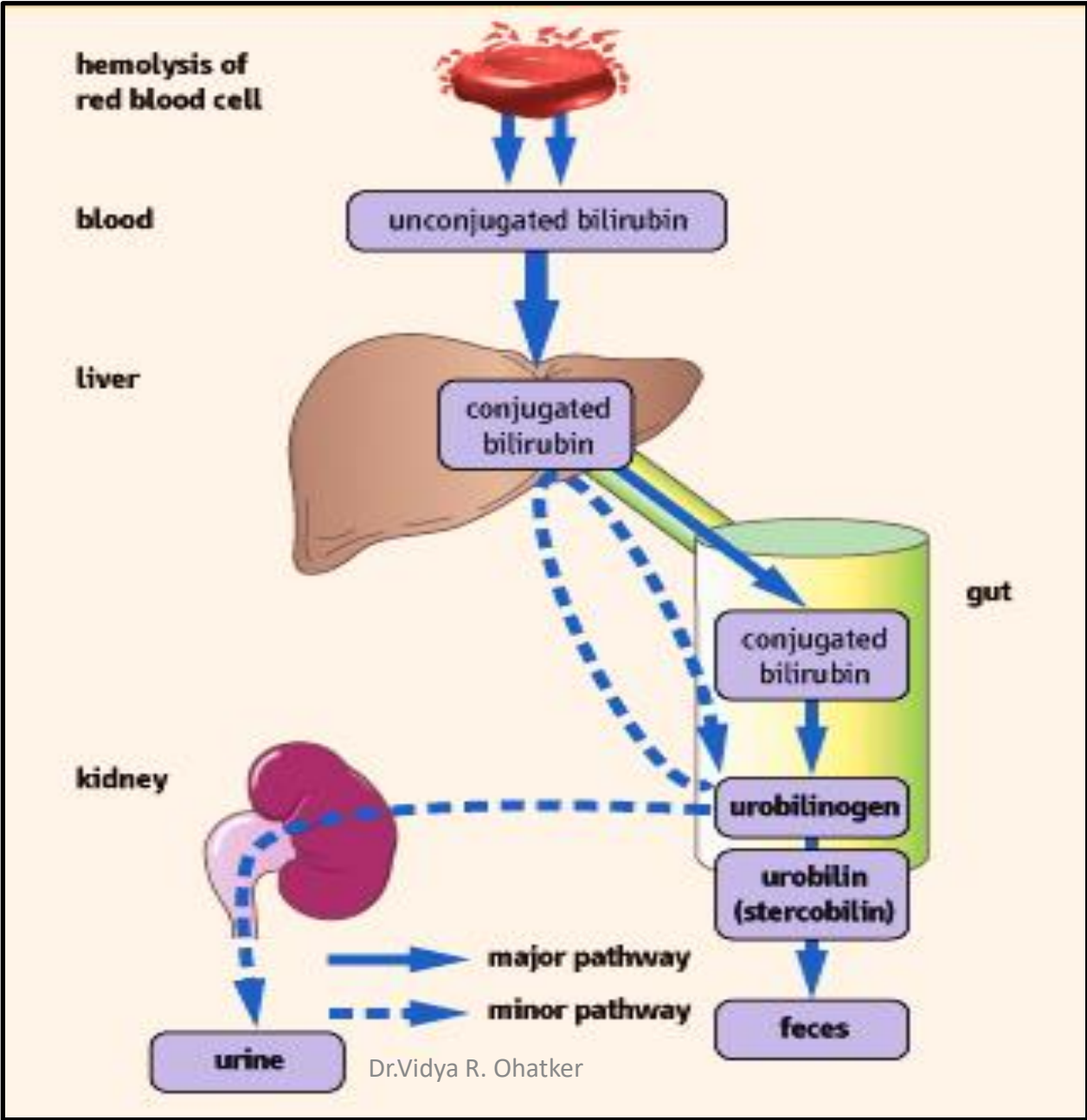
TESTS

Serum bilirubin

- **Van den Bergh test [conjugated]**
- **Urine urobilinogen**
- **Serum Alanine transaminase**
- **Serum Alkaline phosphatase**
- **Serum Aspartate transaminase**
- **Serum Gamma-glutamyl transpeptidase**
- **Coagulation test**

- **Prothrombin time.**

SUMMARY



PSEUDOJAUNDICE

- Resembles jaundice = yellowing of skin
- Hypercarotenemia - Beta-carotene level.
- **Source:-** Oranges, carrots, pumpkins.
- **Difference:-** No yellowing of sclera,
Normal serum bilirubin level,
Serum beta-carotene level.



Thank you !!