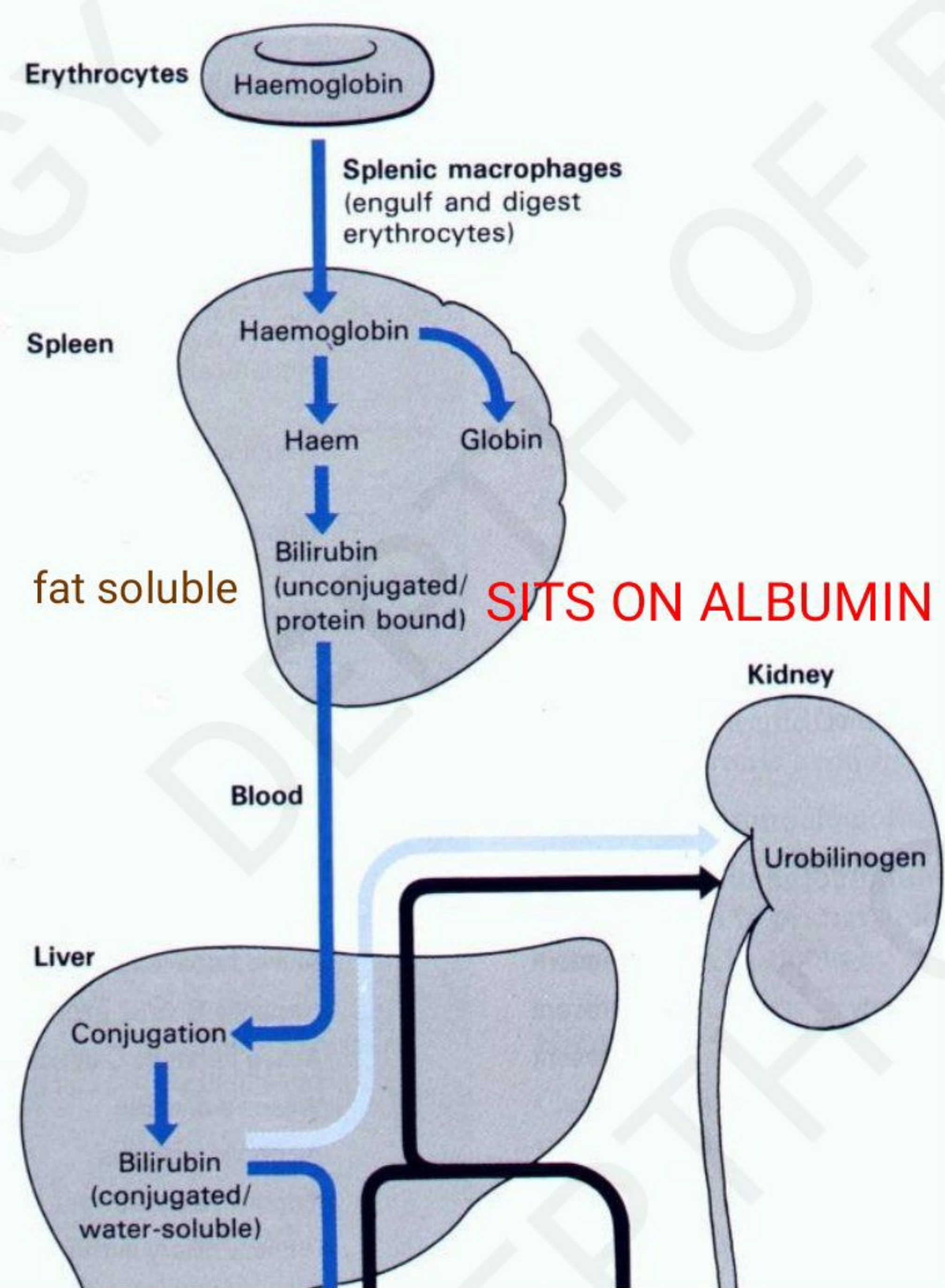


JAUNDICE

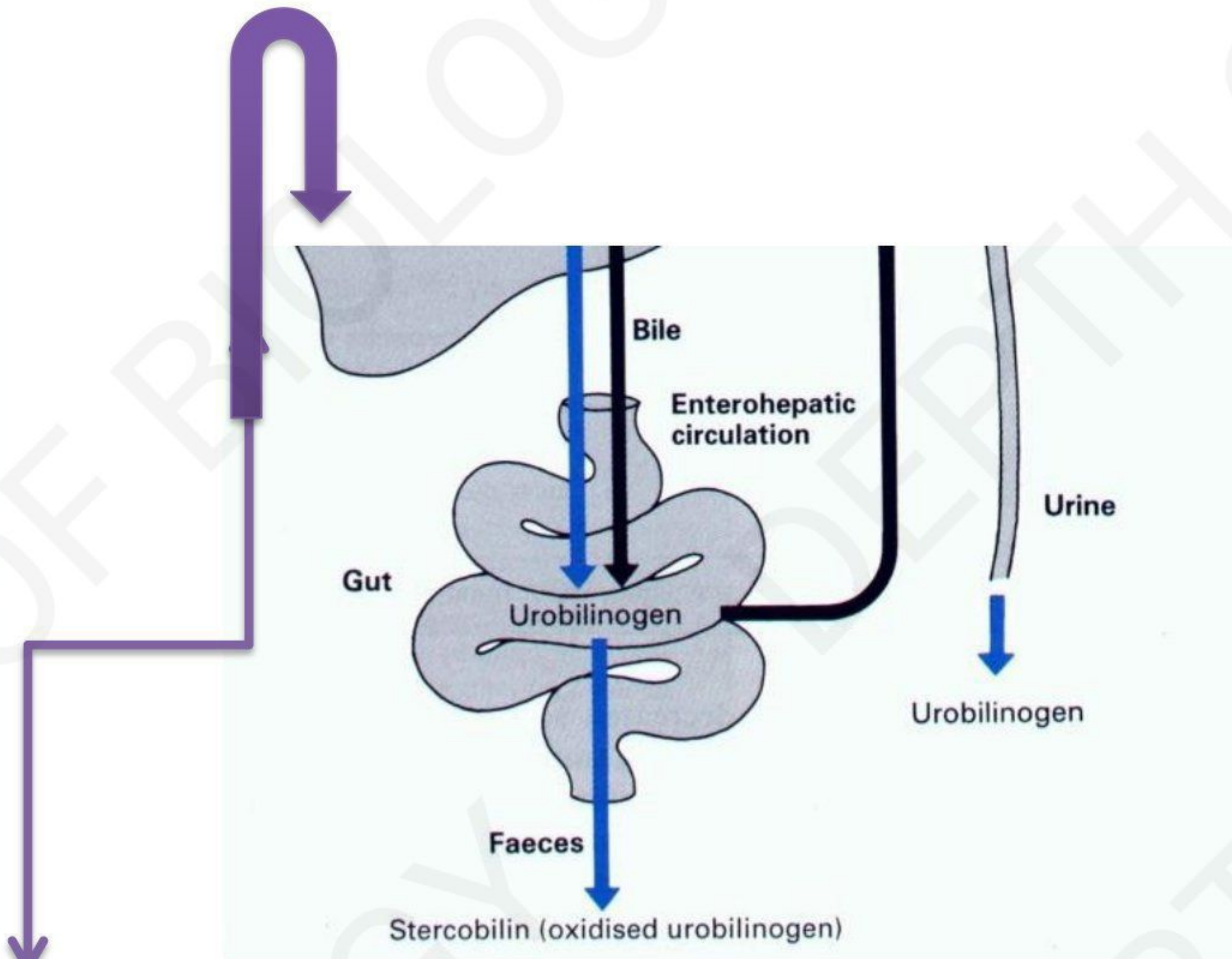
[DEPTH OF BIOLOGY]

- A yellowing either at the skin or at the sclera.
- This complication arises due to increase in the level of bilirubin
- BILIRUBIN- by product of haem
- In jaundice approximately 2.5 mg of bilirubin per 100 ml of blood

[DEPTH OF BIOLOGY]



[DEPTH OF BIOLOGY]



[DEPTH OF BIOLOGY]

DEPTH OF BIOLOGY

- Bilirubin in the liver becomes conjugated (water soluble) with addition of glucuronic acid
- Now this conjugated bilirubin is processed into the gall bladder or the cystic duct. [DEPTH OF BIOLOGY]
- This system is going to take down bile to the duodenum
- Now role of bacteria in gut

Conjugated bilirubin $\xrightarrow[\text{oxidised}]{[O]}$ unconjugated bilirubin

10% will put back in blood

85% will continue to the intestine

5% go back in liver & repeat the same cycle

5% from the blood will enter the kidneys

[DEPTH OF BIOLOGY]

- From the kidneys it is excreted through urine (urobilin)- that's why urine is yellow in colour.
- Bacteria further oxidise 85 % of unconjugated bilirubin into stercobilin--- responsible for darkening/ browning of faeces

[DEPTH OF BIOLOGY]

DEPTH OF BIOLOGY

PROCESS	PRE-HEPATIC	INTRA-HEPATIC	POST-HEPATIC
RBC [haemolysis]	EXCESSIVE [Sca]	NORMAL	NORMAL
↓ Haem			
↓ Unconjugated bilirubin		[DEPTH OF BIOLOGY]	
↓ albumin			
↓ Unconjugated bilirubin	INCREASE IN UNCONJ. BILIRUBIN	INCR. IN UNCONJUGATED BILRUBIN	NORMAL
↓ hepatocytes	NORMAL	DAMAGED & DYSFUNCTIONAL	NORMAL
↓ Conjugated form		INCREASE IN CONJUGATED BIL.	INCR. CONJU.
↓ Bile			×
↓ faeces	[DEPTH OF BIOLOGY]		Light clr. faeces

DEPTH OF BIOLOGY

DIAGNOSIS OF JAUNDICE

- MRI scan [DEPTH OF BIOLOGY]
- Liver biopsy
- Abdominal CT scan/ultrasound
- Eye & skin color turns yellow [DEPTH OF BIOLOGY]
- Hepatitis virus panel to look for infection of the liver

PREVENTION

[DEPTH OF BIOLOGY]

- **There are 4 main precaution**
 1. Ensuring that you stick to the recommended daily amount [RDA] for OH consumption
 2. Maintaining a healthy weight
 3. Avoid hepatitis infection.

[DEPTH OF BIOLOGY]