

Jaundice



- Yellowish discoloration of the skin, conjunctival membrane over the sclera and other mucous membranes
- Bilirubin should be more than 3 fold of normal value. (Normal- 0.5mg/dl. Jaundice- 1.5mg/dl)



Causes

```
graph LR; A[Causes] --> B[Prehepatic]; A --> C[Hepatic]; A --> D[Post hepatic];
```

Prehepatic

Hepatic

Post hepatic



Causes

Prehepatic



Hemolytic anaemia

Hepatic



- Acute hepatitis
- Hepatotoxicity
- Alcoholic liver disease
- Primary biliary cirrhosis
- Crigler- Najar syndrome
- Gilbert's syndrome
- Neonatal jaundice



Post hepatic

- Common bile duct stone- common cause
- Pancreatic cancer (Head)
- Strictures of common bile duct
- Hilar LN enlargement
- Peri ampulary carcinoma
- Cholangio carcinoma
- Klatskin tumour
- Pancreatitis
- Mirizzi's syndrome



Investigations

Prehepatic

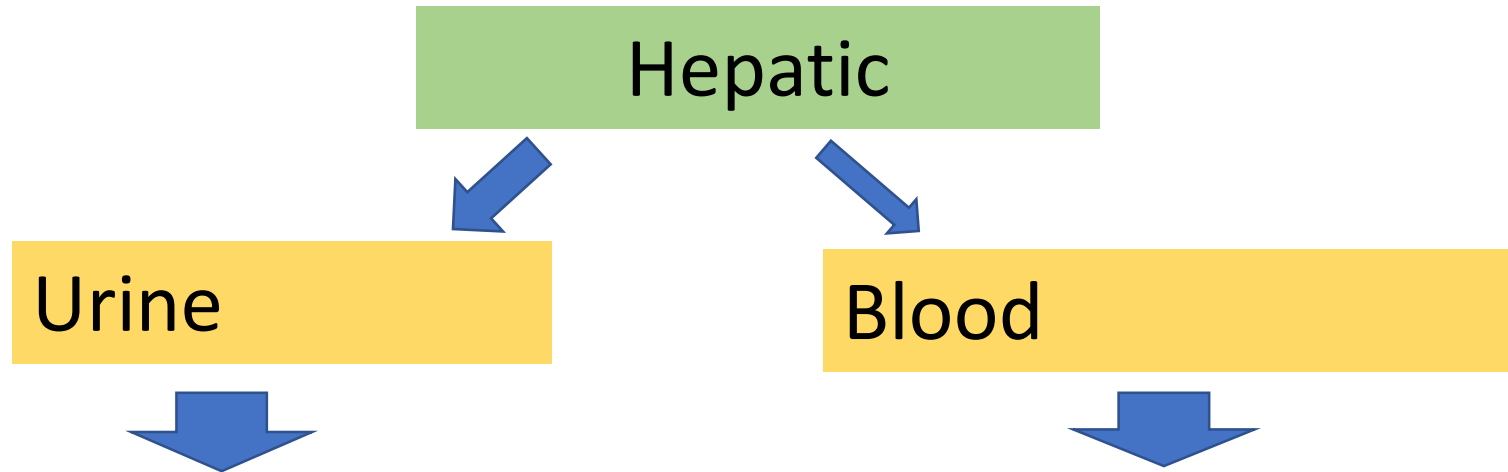
Urine

Blood

No bilirubin
Urobilinogen >2 units

- Increased unconjugated bilirubin
- Alkaline Phosphatase
- SGPT & SGOT- Normal





- Bilirubin present
- Urobilinogen-increased or normal

- Unconjugated bilirubin-Normal or increased
- Alkaline Phosphatase
- SGPT & SGOT-increased



Post hepatic

Urine

- Bilirubin- present
- Urobilinogen- Absent

Blood

- Conjugated bilirubin- increased
- Unconjugated bilirubin- Normal
- Alkaline Phosphatase
- SGPT & SGOT- increased



Investigations of obstructive jaundice

- USS
- CT scan
- HIDA (Hepatobiliary iminodiacetic acid)
- ERCP
- PTC (Percutaneous transhepatic cholangiography)



Complications of obstructive jaundice

- Ascending cholangitis
- Clotting disorders- due to Vitamin K deficiency. Vit K needs to be given parenterally. Immediate correction- FFP
- Hepato- renal syndrome- Due to gram negative endo toxemia from gut. Rx- Preoperative lactulose and hydration.
- Altered drug metabolism- Half lives of some drugs are elevated- E.g.-Morphine
- Impaired wound healing



Pre operative management of obstructive jaundice

- Pre operative biliary decompression
- Broad spectrum antibiotic prophylaxis
- Parenteral Vitamin K
- FFP
- Urinary catheter
- Pre operative fluid expansion
- Mannitol (250ml 10%)- No proven benefit

