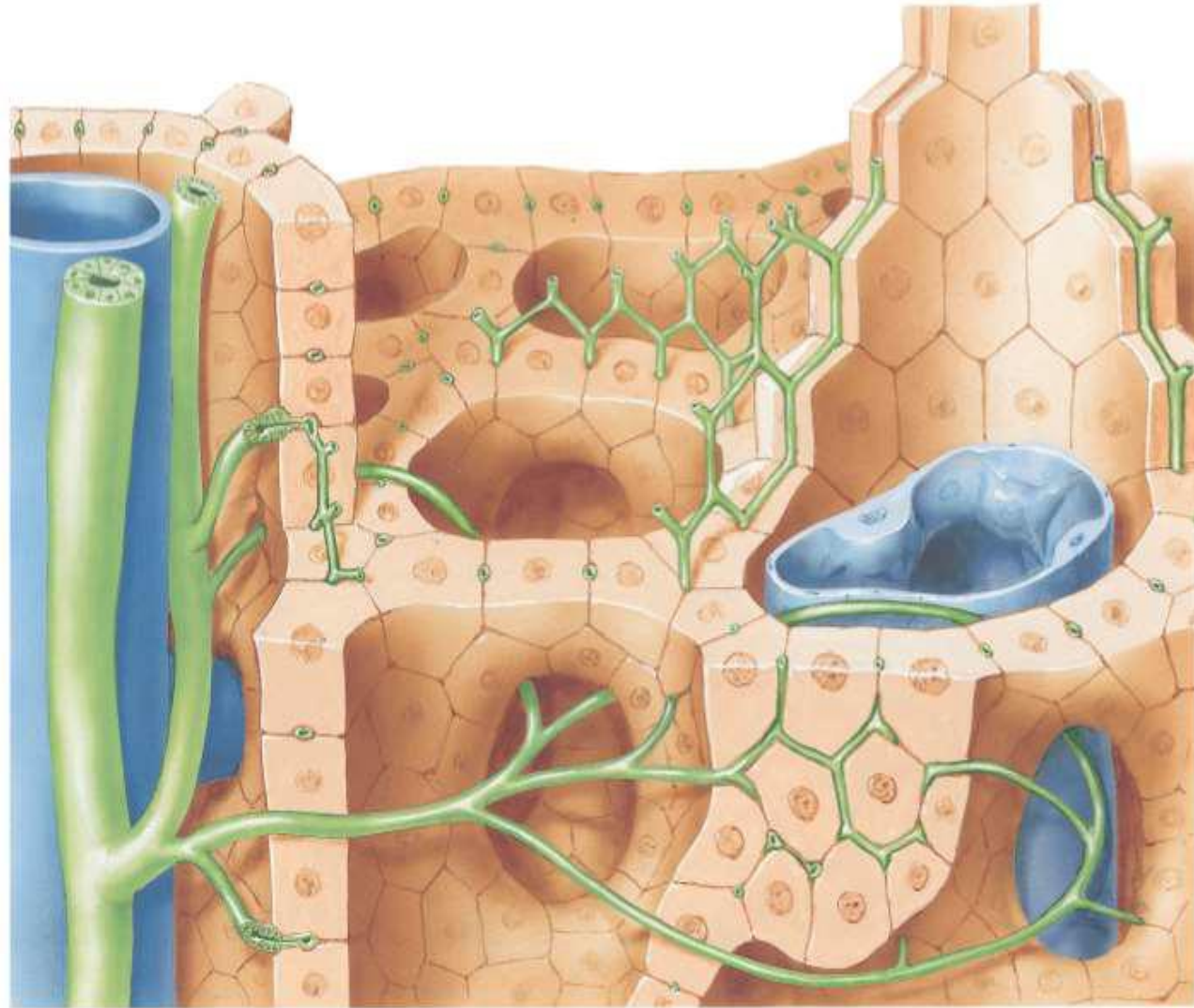


EXTRAHEPATIC BILIARY APPARATUS

INTRAHEPATIC BILIARY SYSTEM

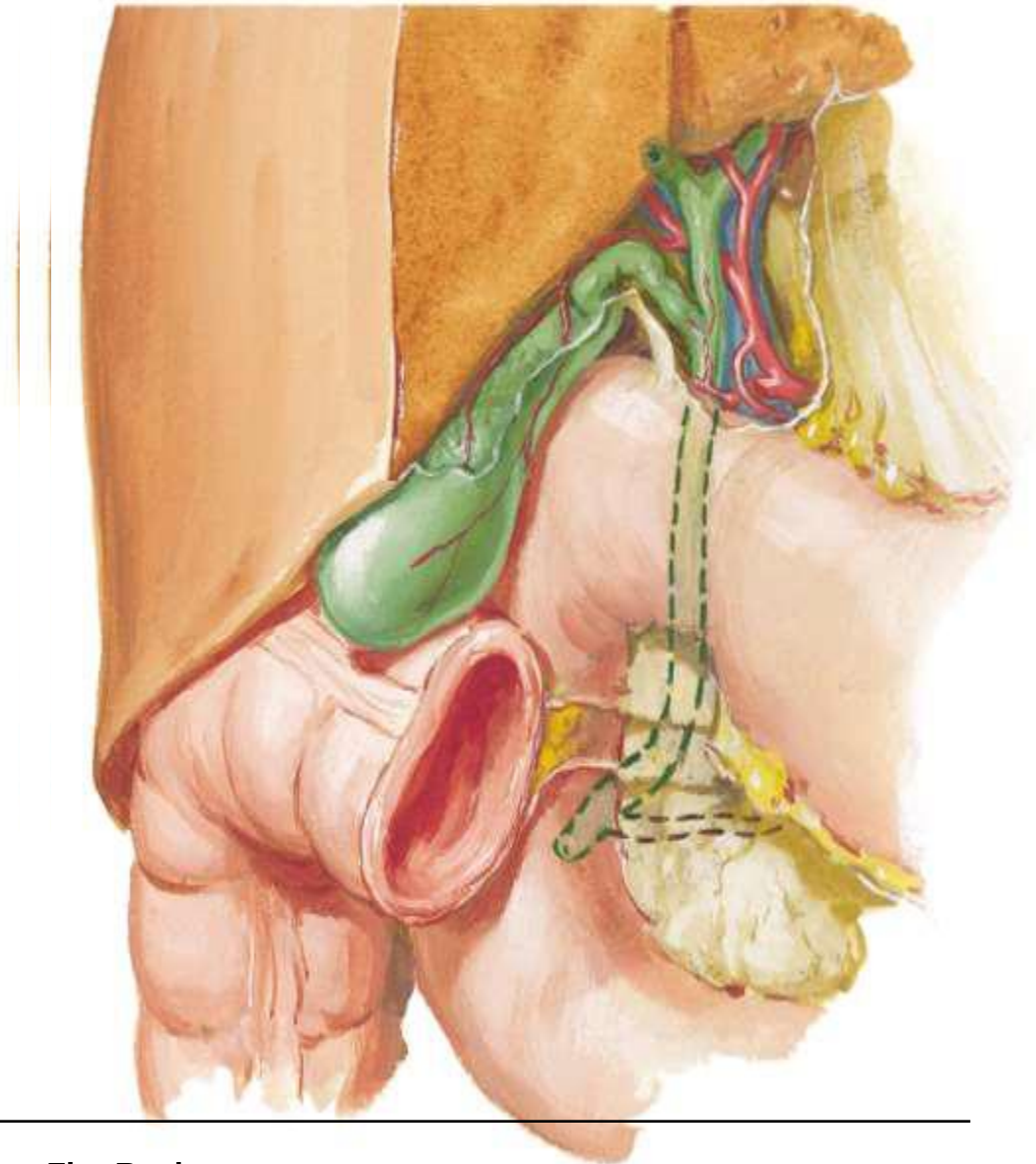
**NOT
OUR BUISNESS**



EXTRAHEPATIC BILIARY APPARATUS

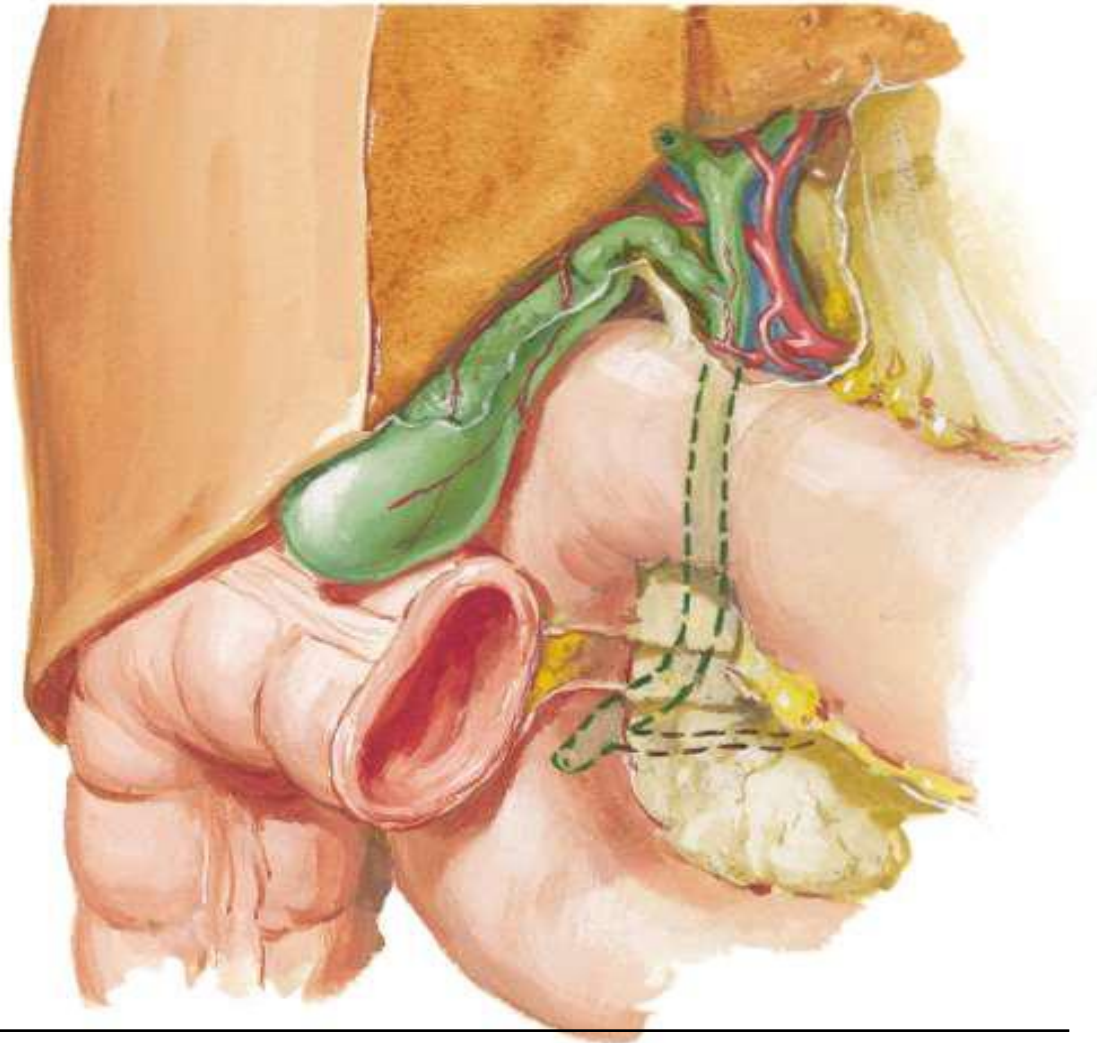
Consists of :

1. Rt. hepatic duct
2. Lt. hepatic duct
3. Com. hepatic duct
4. Cystic duct
5. Com. Bile duct
6. Gallbladder



HEPATIC DUCTS

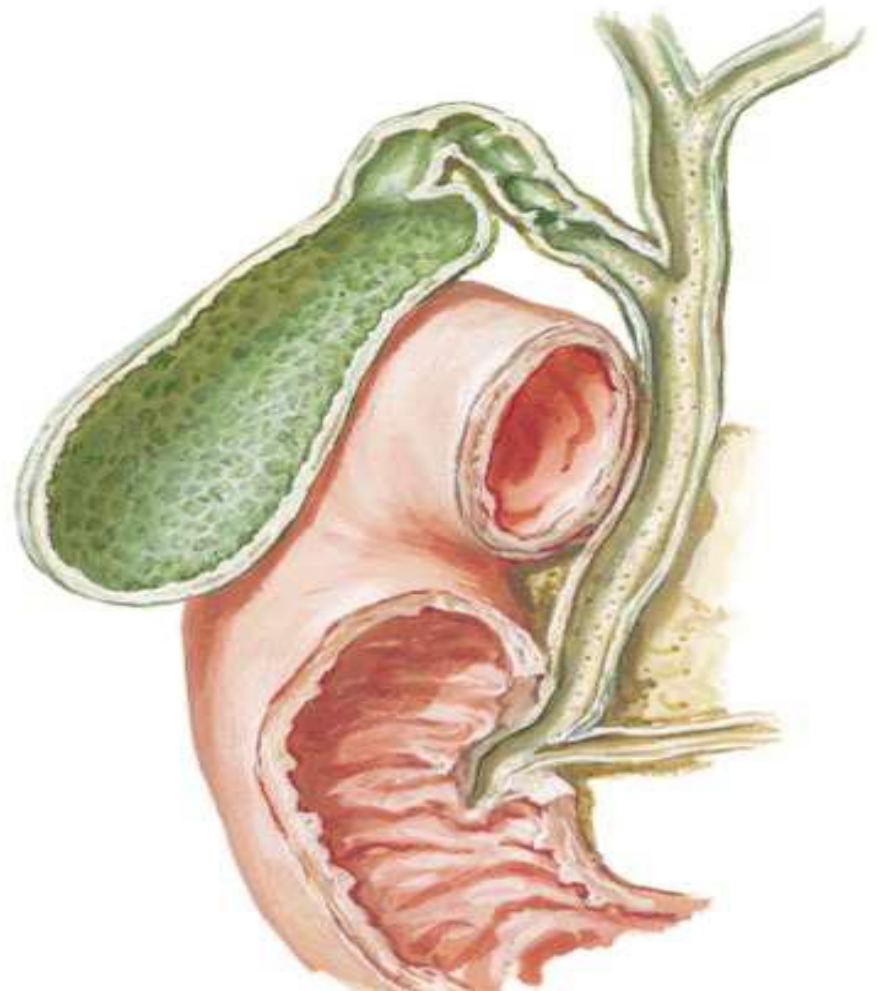
- Emerge from porta hepatis
- Rt. & Lt. HDs unite to form Common Hepatic Duct(CHD)
- CHD =4 cm
- CHD descend in lesser omentum
- Joined by cystic duct to form CBD

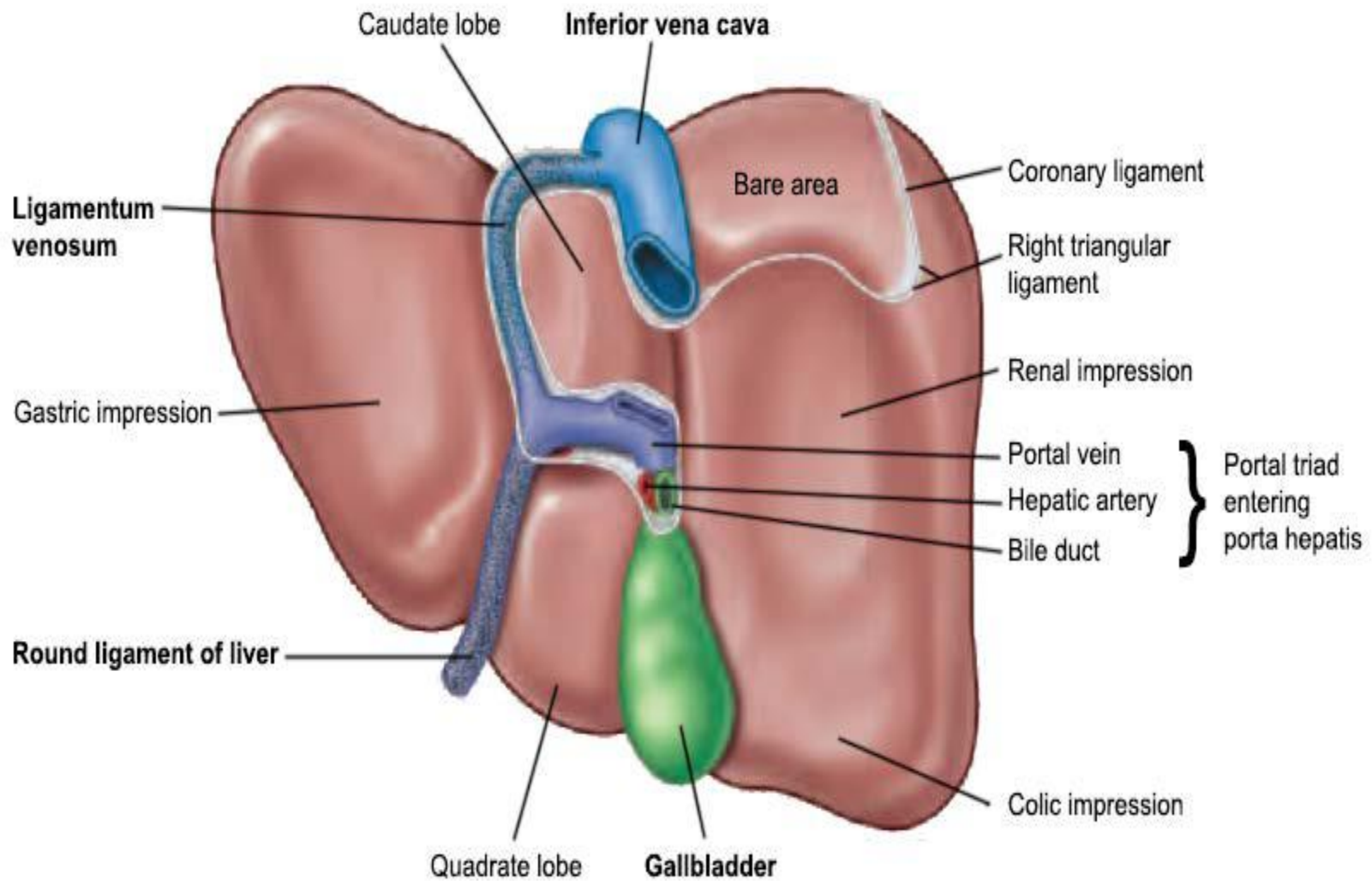


GALL BLADDER

Pear shape

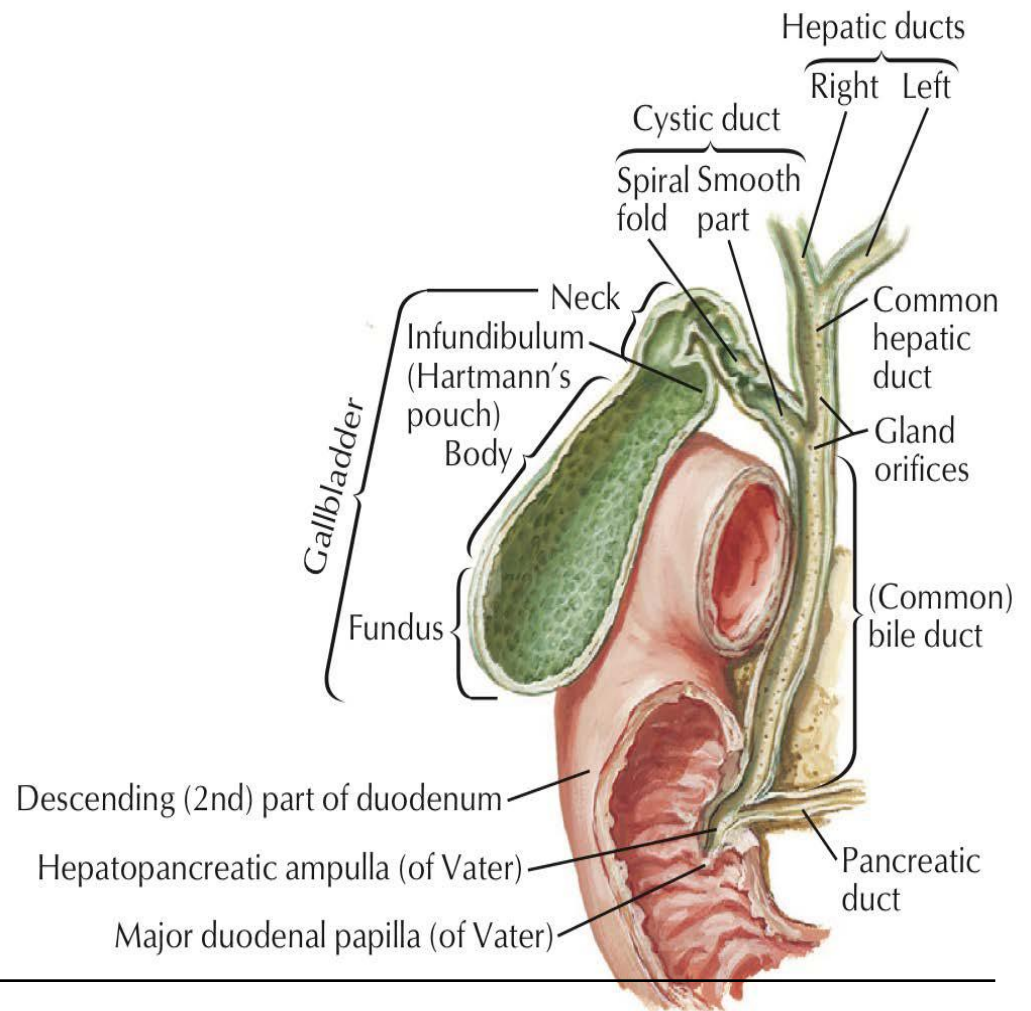
- 7-10 cm in length
- Up to 50 ML
- In the gallbladder fossa on the visceral surface of the liver



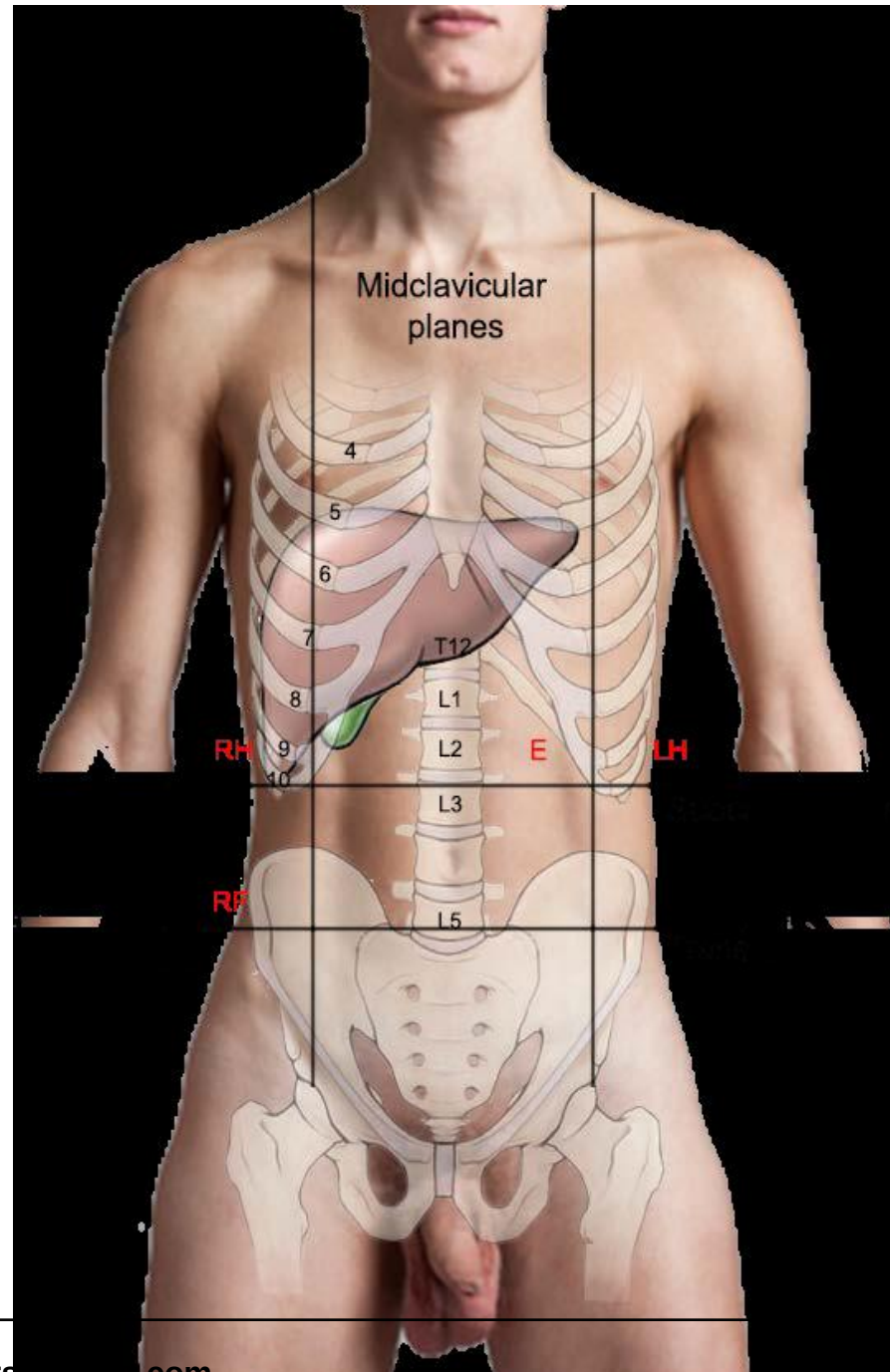


Gall Bladder(Parts)

- Fundus
- Body
- Neck
- Infundibulum (Hartmann's pouch)



Surface projection of
fundus: Right linear
semilunaris// right costal
margin = **Murphy's point**



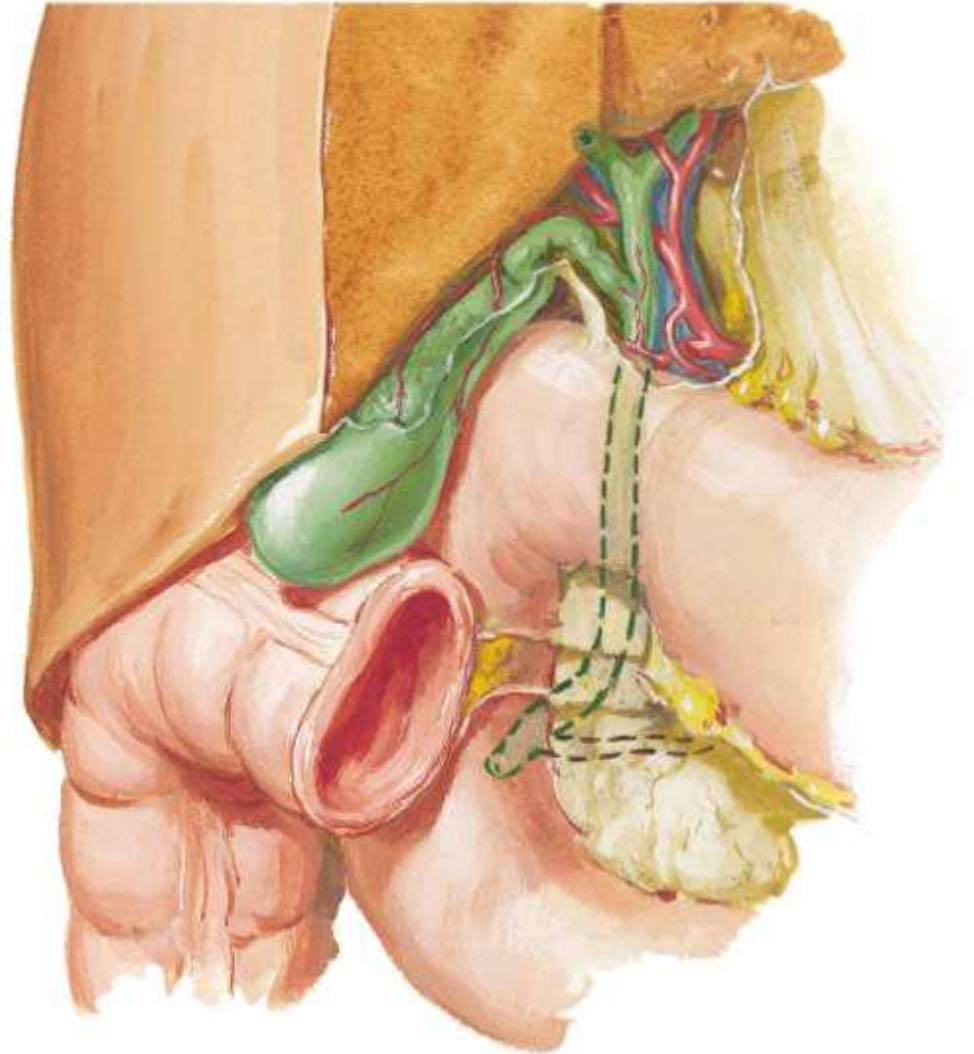
RELATIONS OF GALLBLADDER:

ANTERIORLY:

- Ant. Abdominal wall
- Inferior surface of liver

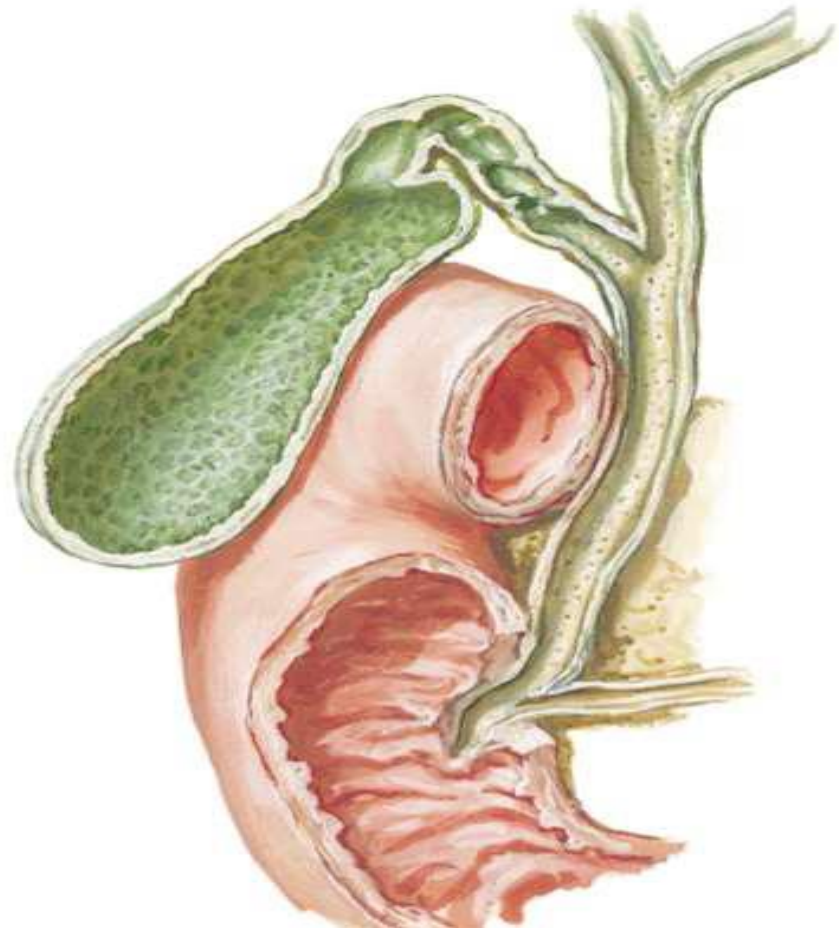
POSTERIORLY:

- Transverse colon
- 1st & 2nd duodenum

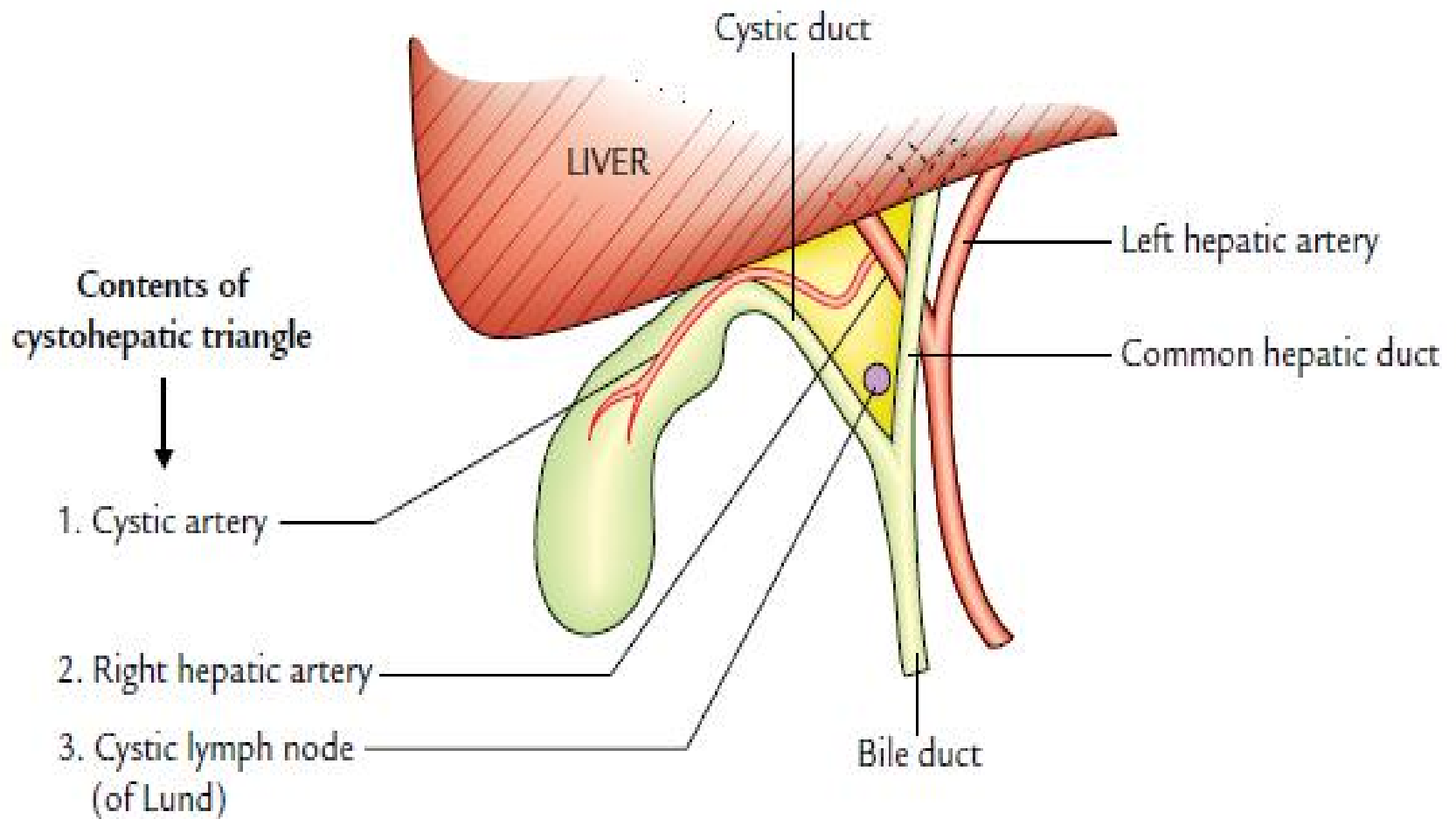


CYSTIC DUCT

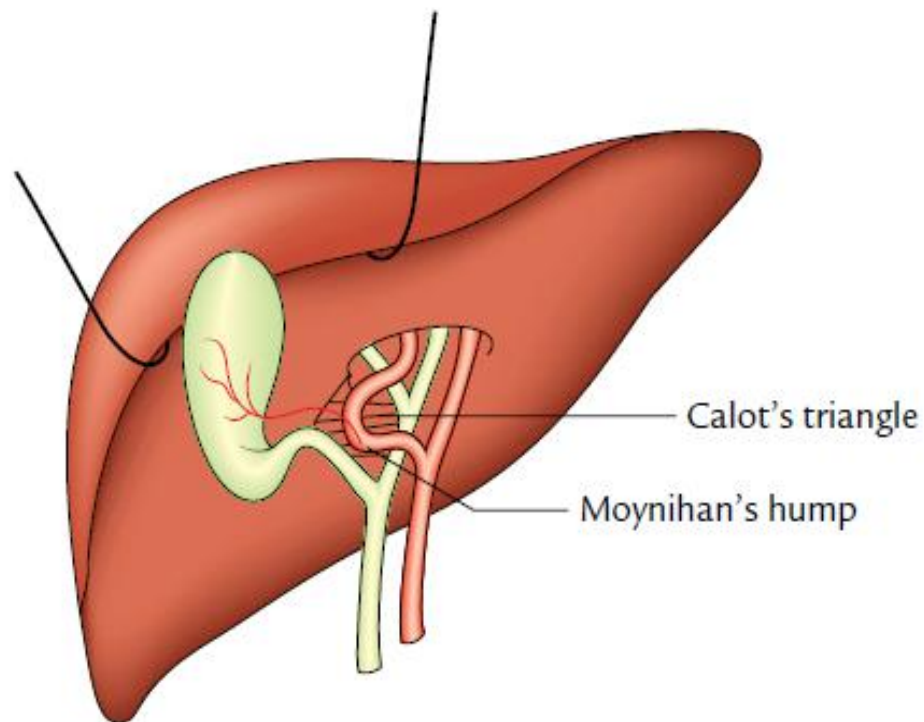
- 3.8 cm
- Somewhat S shaped
- Its mucous membrane is forming a spiral fold (the spiral valve)



CALOT'S TRIANGLE



Moynihan's hump



BLOOD SUPPLY:

- **ARTERIAL :**

Cystic artery

- **VENOUS :**

Cystic vein

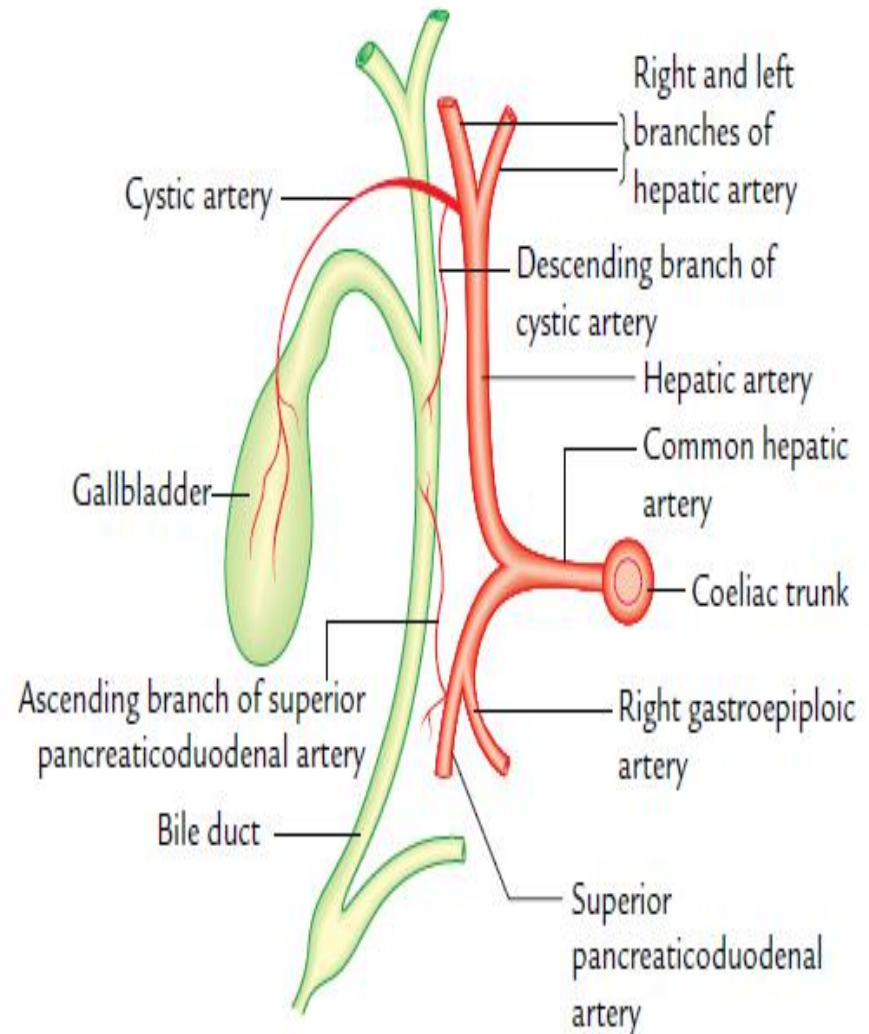
- **LYMPHATICS :**

A cystic LN at the neck of GB

- **NERVES :**

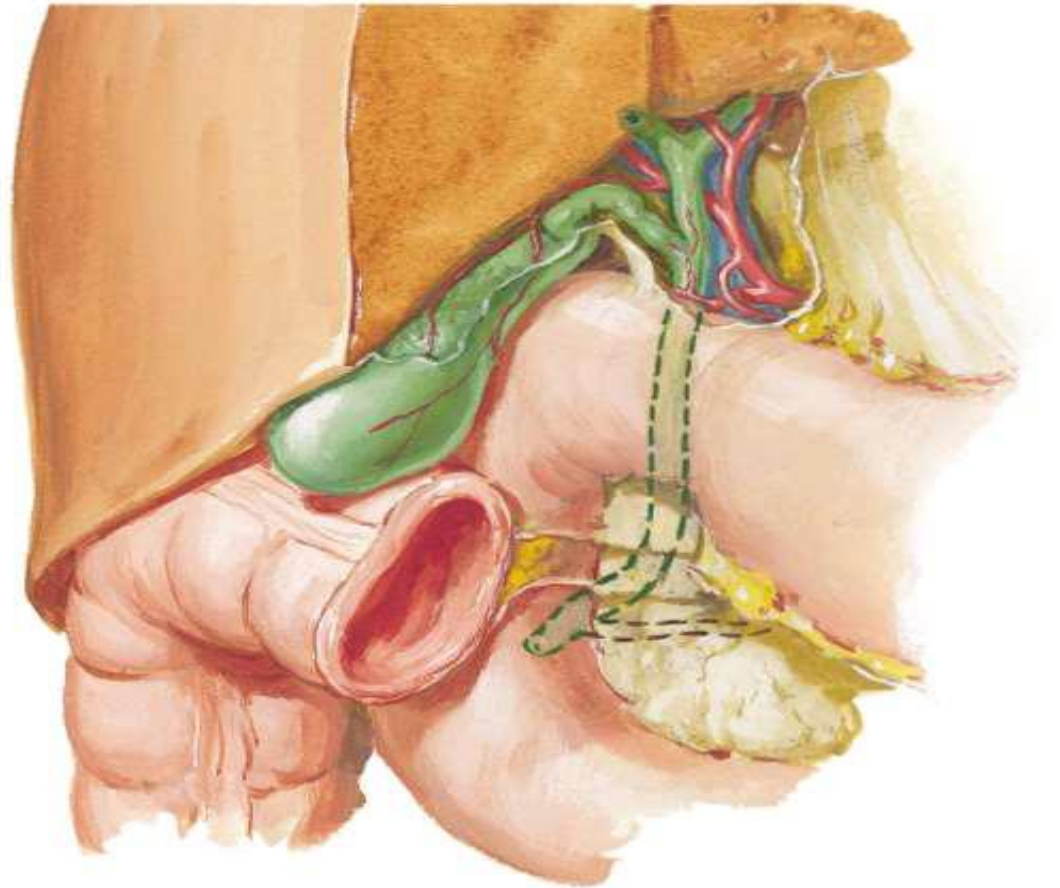
Autonomic from coeliac plexus

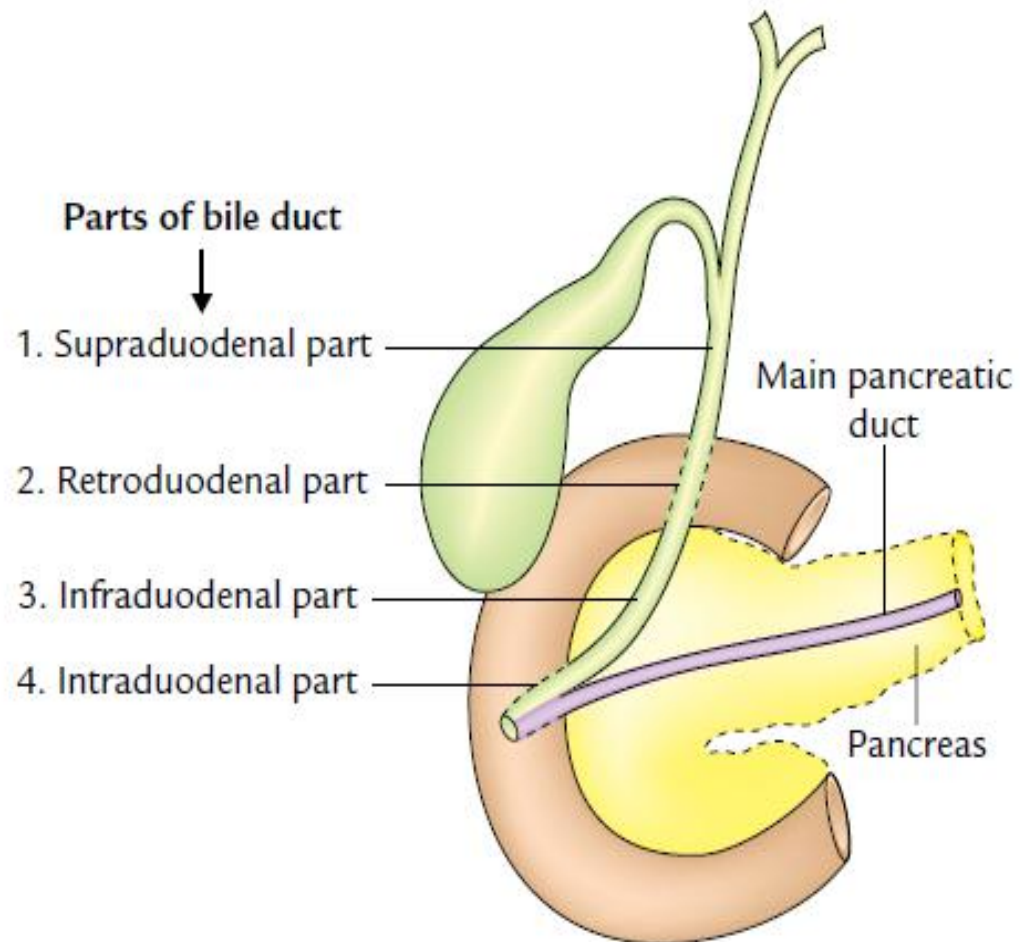
Cholecystokinin



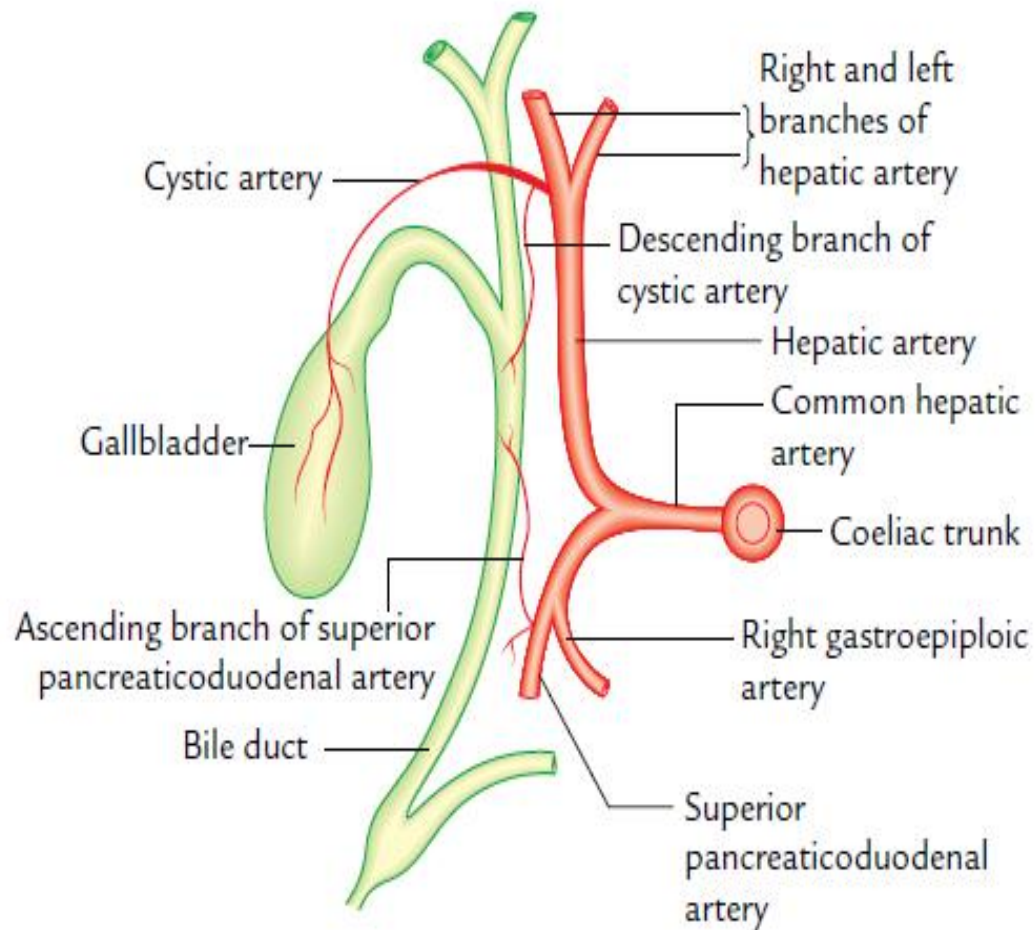
BILE DUCT/COMMON BILE DUCT

- 8cm(3 inch) long & about 6mm in dia.
- 1st course (Lesser Omentum)
- 2nd course (behind 2nd Duo.)
- 3rd course (post. To head of pancreas)

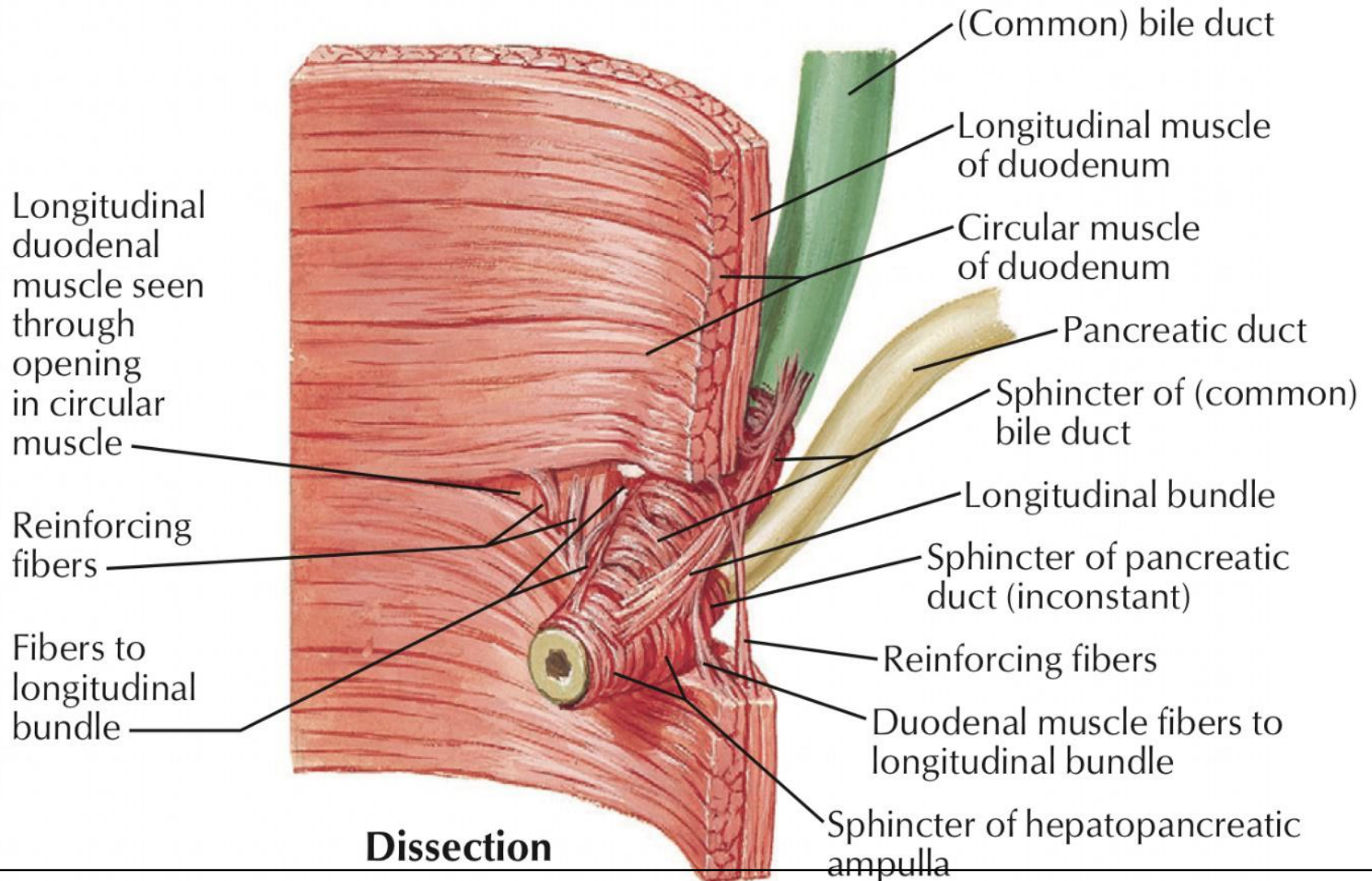




Blood supply of Bile Duct



SPHINCTERS

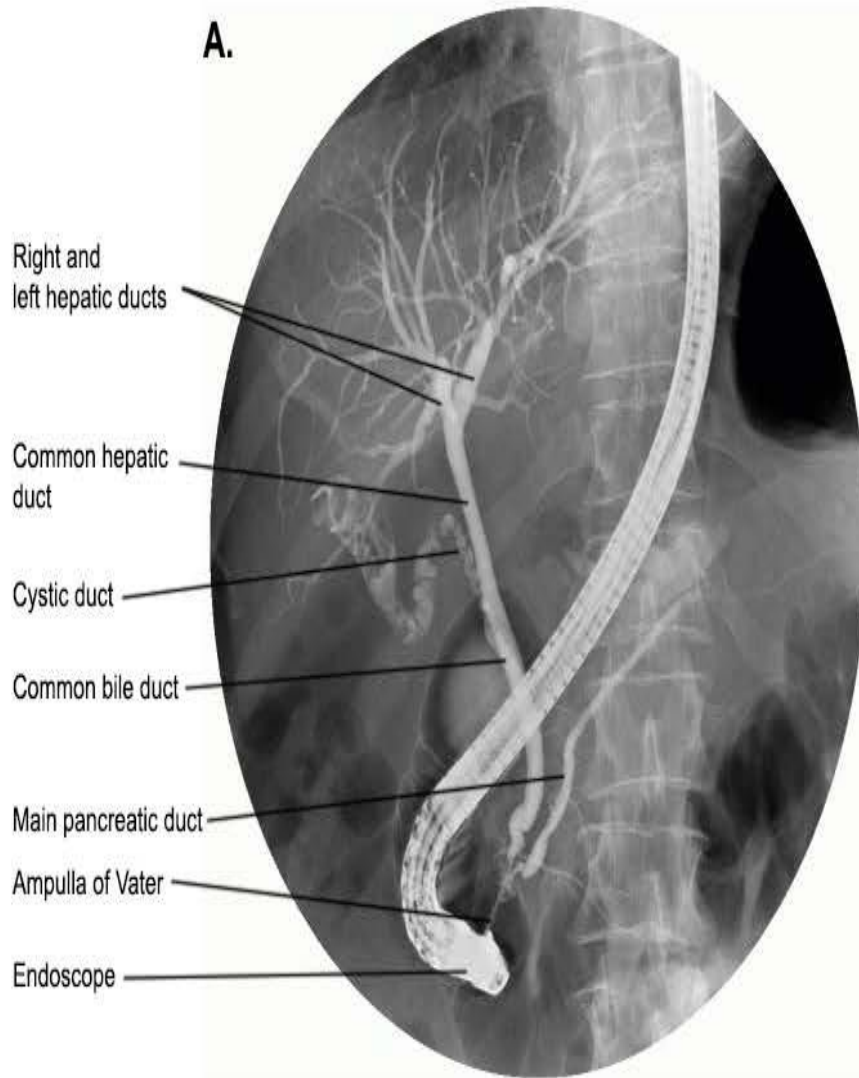


Clinical points:

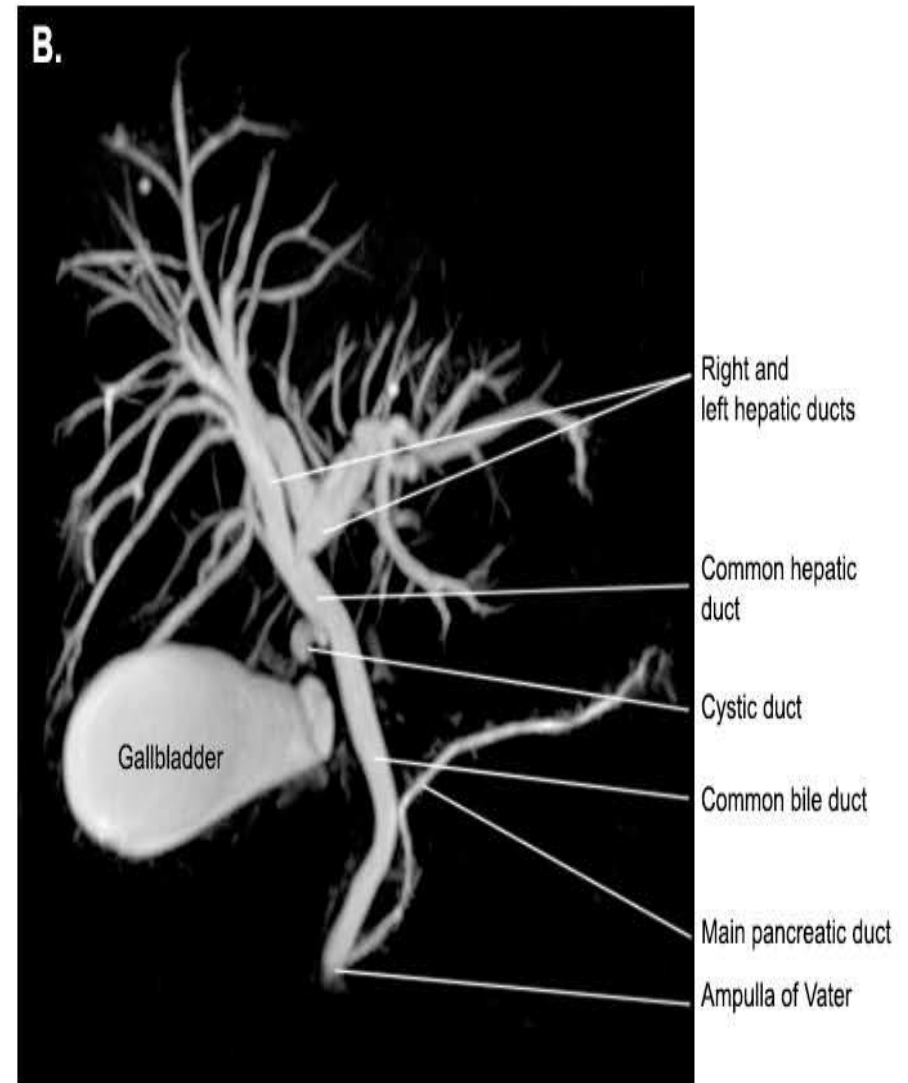
- Gallstones
- Biliary colic (epigastric pain, jaundice & pancreatitis)
- Acute cholecystitis & referred pain to shoulder
- Cholecystectomy (variations)
- Gangrenous (single arterial supply)
- Biliary atresia

Imaging of the Biliary Tract

1. Cholecystography
2. Ultrasound
3. Endoscopic Retrograde
Cholangiopancreatography(ERCP)
4. Magnetic Resonance
Cholangiopancreatography(MRCP)



**Endoscopic retrograde
cholangiopancreatography(ERCP)**



**Magnetic resonance
cholangiopancreatography(MRCP)**