

# Gallbladder and Biliary System

## Chapter 7

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### New Terminology

Combining Form	Meaning	Example	Meaning of New Term
Bil/i	Bile	Biliary	Pertaining to bile
Chol/e	Bile/gall	Cholecystitis	Inflammation of the gallbladder
Cholangi/o	Bile duct	Cholangiography	Process of recording a bile duct
Cholecyst/o	Gallbladder	Cholecystectomy	Excision or surgical removal of the gallbladder

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### New Terminology

Combining Form	Meaning	Example	Meaning of New Term
Choledoch/o	Common Bile Duct	Choledocholith	Stone of the common bile duct
Pancreat/o	Pancreas	Pancreatitis	Inflammation of the pancreas
Pept/o	Digestion	Peptic	Pertaining to digestion

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# Biliary System

- **Composed of:**
  - **GB**
  - **Bile ducts**
    - **Intrahepatic**
    - **Extrahepatic**
- **Drains liver of bile**
- **Stores bile to later aid in digestion**

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# Gallbladder

- **Located in GB fossa**
  - **Anteroinferior portion of RLL**
  - **Assoc. with Main Lobar Fissure (MLF)**
- **Warehouse**
  - **Stores and concentrates bile**
- **3 Sections**
  - **Neck**
  - **Body**
  - **Fundus**

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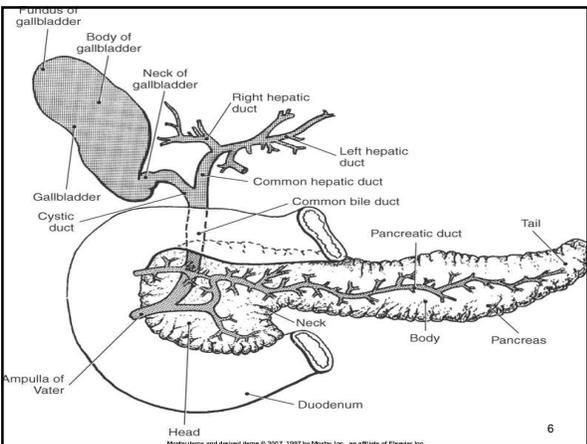
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# Cystic Duct

- The continuation of the neck
- Neck contains
  - Circular muscles (creates spiral folds within mucosa)
  - Spiral valves of Heister
    - Prominent at bend of neck/cystic duct
    - Common area of impaction

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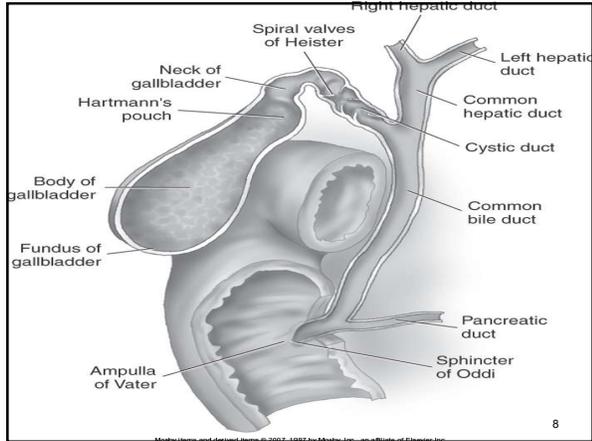
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# GB

- Muscular wall that contracts
  - Forces bile through extrahepatic ducts
  - Bile travels to duodenum
    - Aids in digestion
- Liver produces bile
  - Intrahepatic ducts take bile to GB

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# Intrahepatic Ducts

- Run along side
  - Hepatic arteries
  - Portal veins
- Right & Left hepatic ducts
  - Are formed by Small ducts from the periphery
  - Unite at porta hepatis to form CHD
    - Start of extrahepatic biliary system

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# Porta Hepatis

- Central area of liver where the following enter/exit:
  - Portal Vein (PV)
  - Common Bile Duct (CBD)
  - Hepatic Artery (HA)

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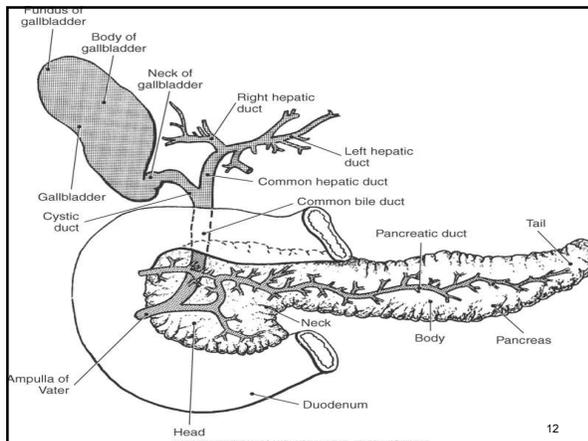
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## CHD

- **Anterior to Portal Vein**
- **Lateral to Hepatic Artery**
- **Joins with the Cystic Duct**
  - **Now becomes the CBD**

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## CBD

- **Courses posterior and medial**
  - **To the first part of duodenum**
    - **Behind Pancreatic Head**
- **Posterior**
- **Follows a groove on the posterior surface of pancreatic head**

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## CBD

- **Pierces medial wall to the second part of duodenum**
  - **Along with Main Pancreatic Duct**
    - **Also known as Duct of Wirsung**
  - **Through the ampulla of Vater**
- **Sphincter of Oddi**
  - **Circular muscle fibers that guard the ampulla of Vater**

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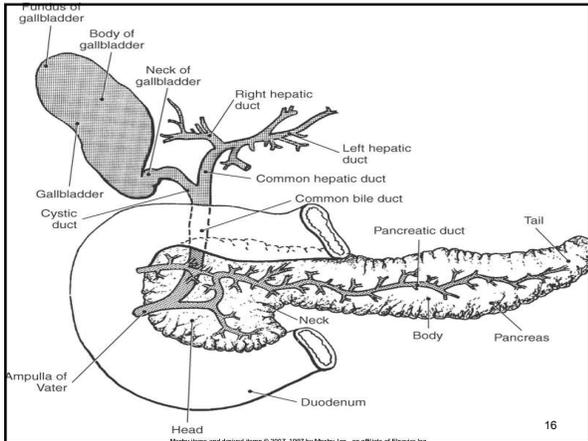
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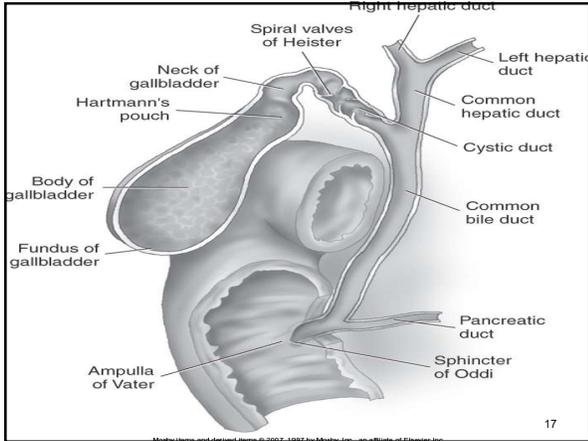
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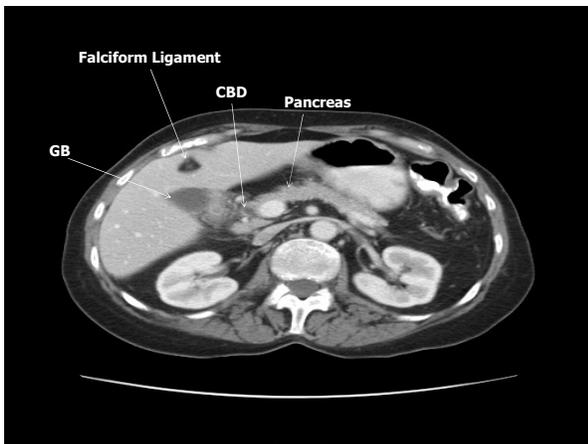
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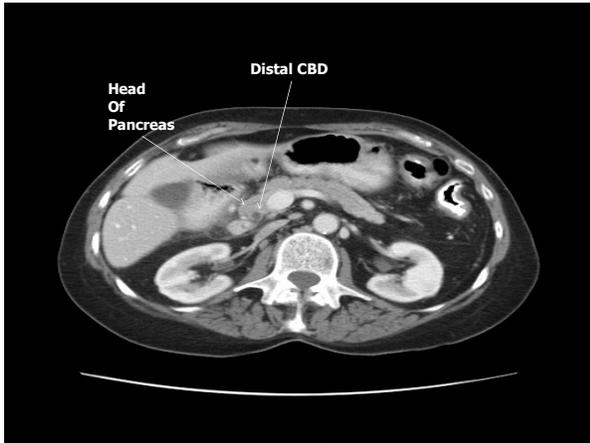
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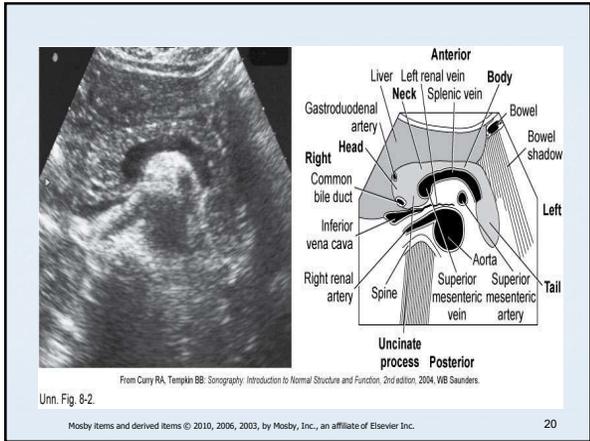
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Unn. Fig. 8-2.

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