

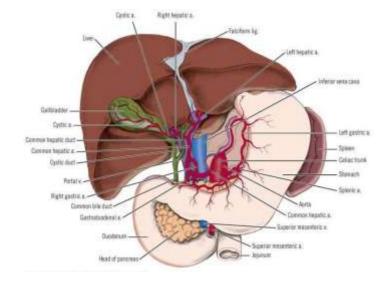


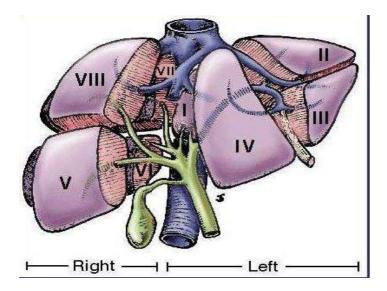


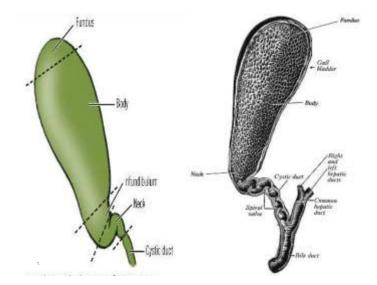
- Surgical anatomy
- Surgical physiology
- Imaging investigations
- Congenital anomalies
- Gall stones
- Acute cholecystitis
- Common bile duct stones
- Strictures of the bile ducts
- Carcinoma & the gall bladder
- Jaundice
- Cholecystectorny

Wednesday, September 19, 2018

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Extrahepatic biliary tract Common hepatic duct (CBD)

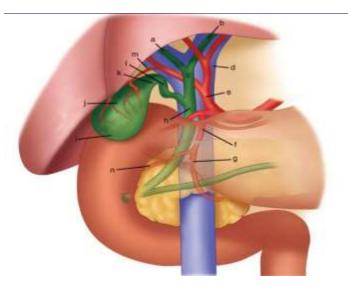
The common hepatic duct is formed by the union of the right and left hepatic ducts in the porta hepatis.

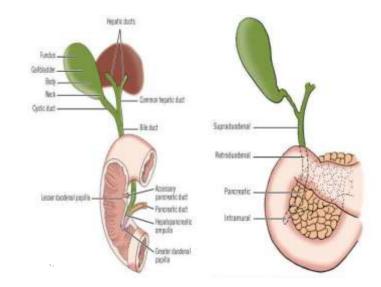
The cystic duct is 2-3 cm long and 2-3 mm in diameter. Its mucosa is thrown into crescent-like folds called spiral valve of Heister.

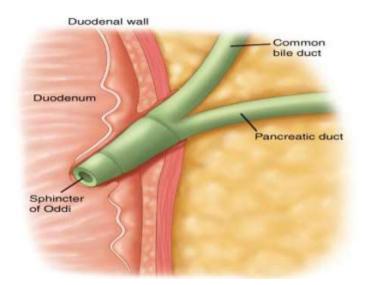
Common bile duct

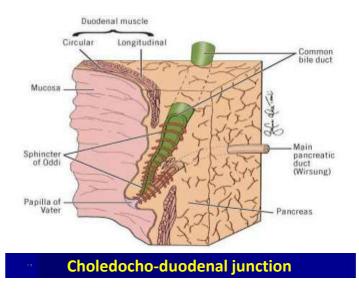
The common bile duct begins at the union of the cystic duct and common hepatic duct and ends at the ampulla of Vater in the second part of the duodenum. It varies in length from 8 to 10 cm and the average diameter is about 6 mm. The common bile duct can be divided into four parts; supraduodenal, retroduodenal, intrapancreatic and intraduodenal.

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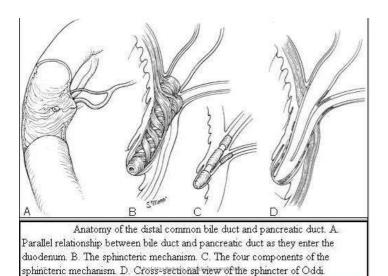


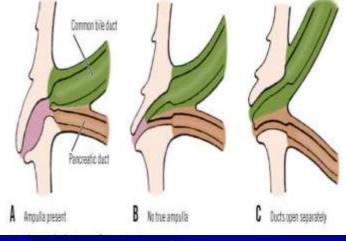




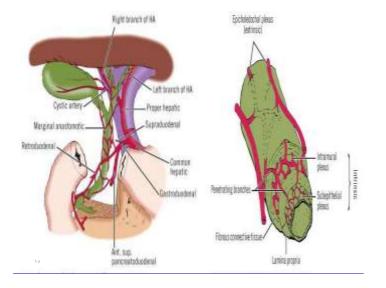


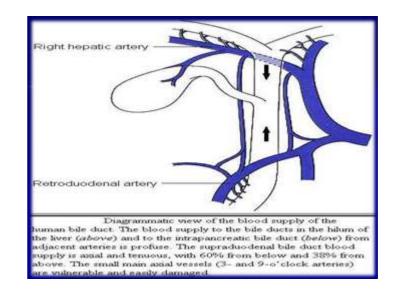
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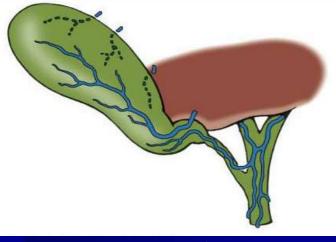




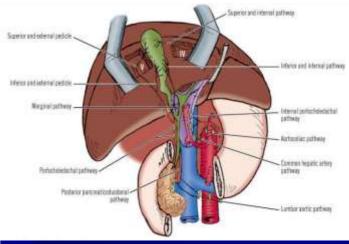
Anatomical variation of the ampullary opening



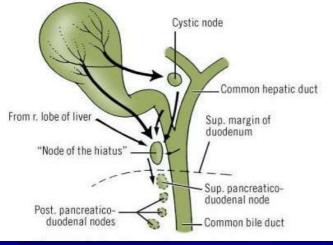




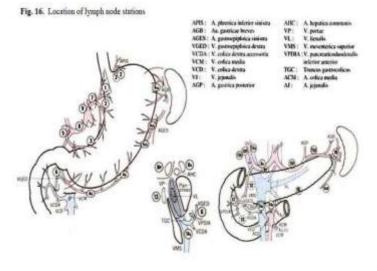
Venous drainage of the GB

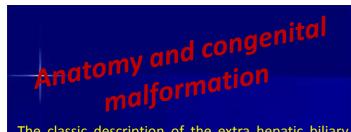


Lymphatic drainage of the GB



Lymph nodes draining the GB and biliary channels



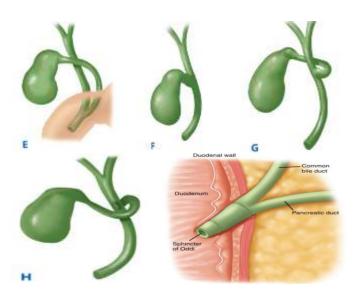


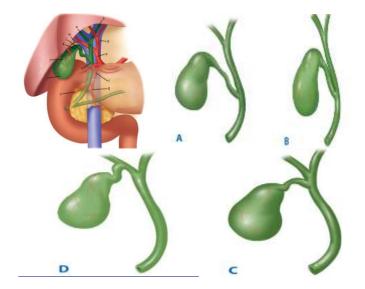
The classic description of the extra hepatic biliary tree and its arteries applies only in about one third of patients.

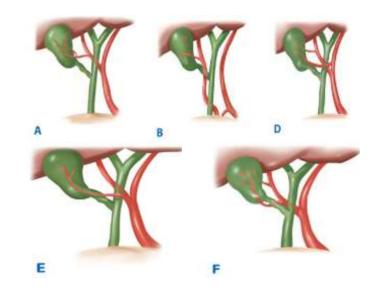
Molmenti EP, Pinto PA, Klein J, et al: Normal and variant arterial supply of the liver and gallbladder. *Pediatr Transplant* 7:80, 2003. [PubMed: 12581334] Chen TH, Shyu JF, Chen CH, et al: Variations of the cystic artery in Chinese adults. *Surg*

Laparosc Endosc Percutan Tech 10:154, 2000. [PubMed: 10872977]

(Schwartz's Principles of Surgery, Ninth edition)

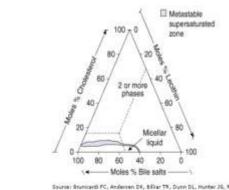






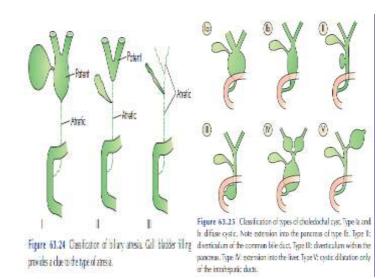
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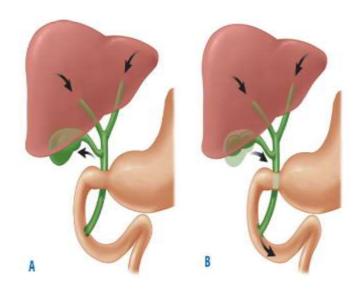
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Source: Brunsard PC, Andersen DF, Billier TR, Dunn DL, Hunter JB, Matthews JB, RoBack RE: Schwartz's Principles of Surgery. 9th Edition: http://www.accessmedicme.com Cepsinght @ The Histowy-HB Companies. Inc. AB rights reserved.

The three major components of bie plotted on triangular coordinates. A given point represents the relative molar ratios of bie saits, lecthin, and cholesterol. The area labeled 'modelar liquid' shows the range of concentrations found consistent with a clear miceliar solution (single phase), where cholesterol is hily solutilized. The shaded area directly above this region corresponds to a metastable zone, supersaturated with cholesterol. Bie with a composition that fails above the shaded area inceded the solutilization capacity of cholesterol and precipitation of cholesterol crystals occurs.





Gall bladder function

- The gall bladder stores and concentrates bile. Sodium, chloride, and water are selectively absorbed, resulting in 10-fold increase in concentration of bile salts, bile pigments and cholesterol.
- Mucus secretion protects the mucosa from the lytic action of bile and facilitates passage of bile through the cystic duct.
- 3. Gall bladder contracts and empties its content when bile is needed for digestion. Its emptying is mediated by both humoral and nervous stimulation. Cholecystokinin is released from intestinal mucosa in response to food and is responsible for contraction of the gall bladder and relaxation of the sphincter of Oddi. It leads to evacuation of 70% of the gall bladder contents within 30 minutes. Vagal innervation stimulates contraction, whereas sympathetic stimulation inhibits motor activity.

Fig. 32.3 Plan X-ray showing ultiple opsique quil stores.

