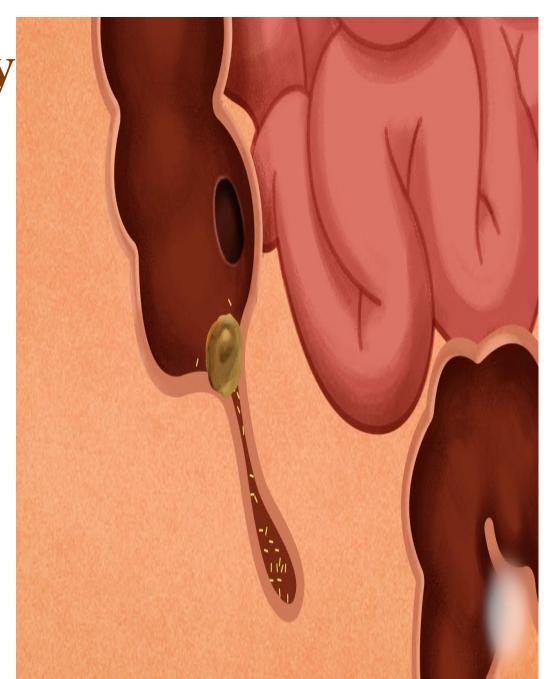
Al-Mustaqbal University

Pathophysiology 3rd stage Lab - 4 -

Liver disorders and appendicitis Dr. Abdulla alkhakani



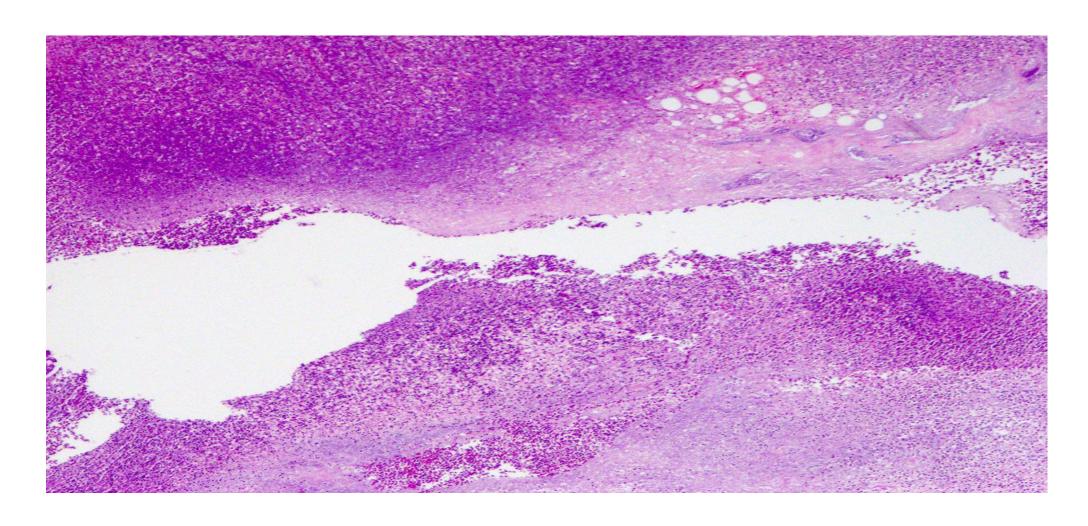
Acute appendicitis

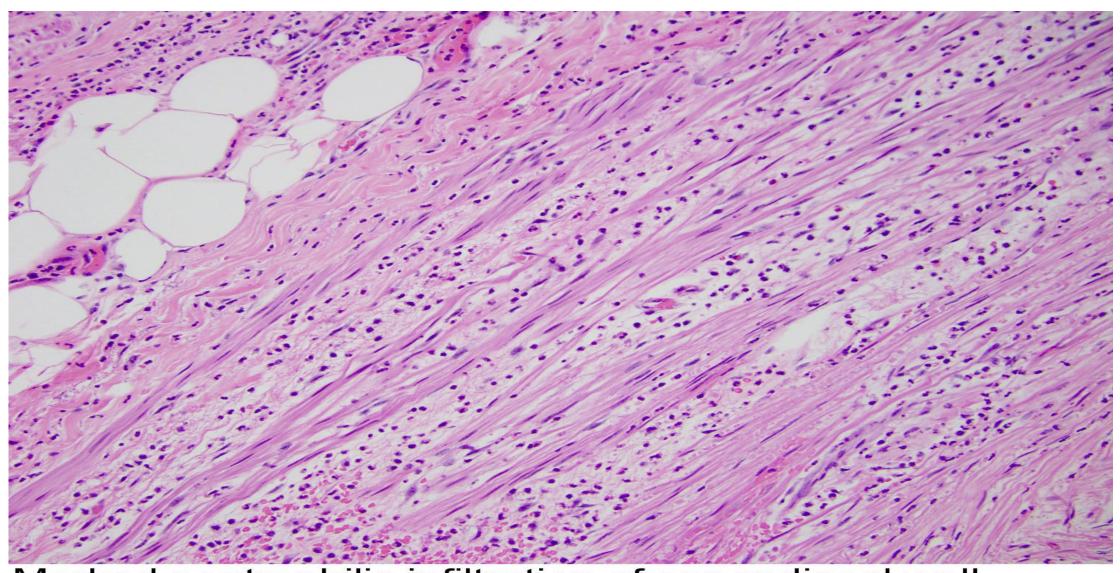
- Acute appendicitis refers to the sudden and severe inflammation of the appendix.
- Acute appendicitis is a medical emergency, and people will need medical care straight to the appendix diside art of the table that taches to the large intestine. It is located in the acute appendix inflammation affecting the appendix can lead to swelling, causing five the perfecting the appendix can appendix until the acute appendix at a person be a little that the inflam tendence and the acute appendix and the acute appendicitis, which can although the acute appendicitis, which can although the acute appendicitis,

Microscopic (histologic) description

- Variable acute inflammation with predominance of neutrophils; involves some or all layers of the appendiceal wall
- Process may be divided into acute focal, acute suppurative, gangrenous and perforative
- ☐ Early lesions display mucosal erosions and scattered crypt abscesses.
- ☐ Later, the inflammation extends into the lamina propria and collections of neutrophils are also seen in the lumen
- ☐ Mural necrosis in gangrenous appendicitis

Early acute appendicitis displays mucosal inflammation, erosions and intraluminal neutrophils

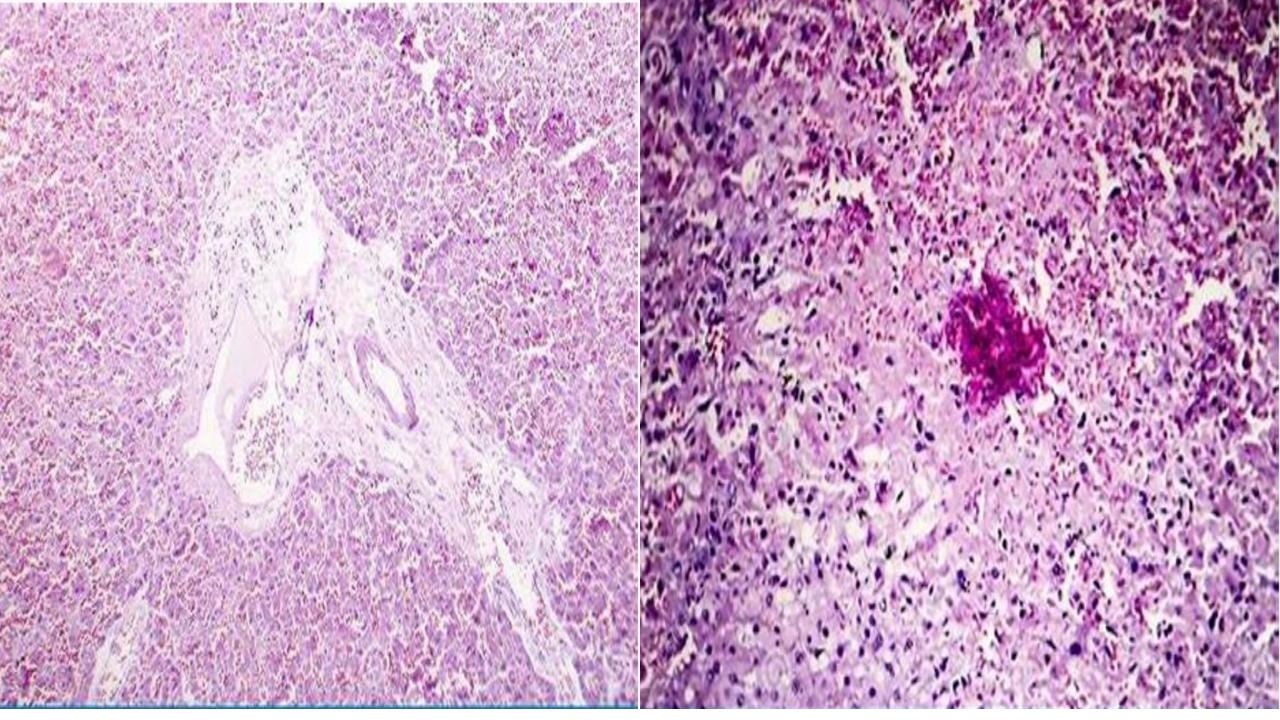




Marked neutrophilic infiltration of appendiceal wall

Acute hepatic congestion

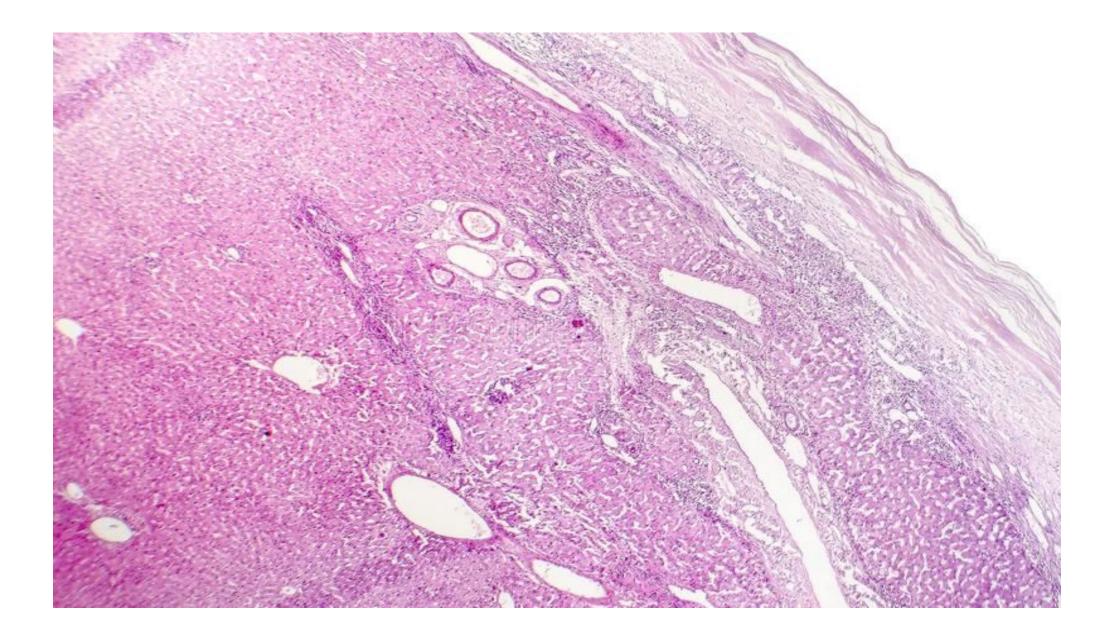
- •Congestive hepatopathy, is <u>liver</u> dysfunction due to venous congestion, usually due to <u>congestive heart failure</u>.
- •The <u>gross pathological</u> appearance of a liver affected by chronic passive congestion is "speckled" like a grated <u>nutmeg</u> kernel; the dark <u>spots</u> represent the dilated and congested hepatic venules and small hepatic veins. The paler areas are unaffected surrounding liver tissue.



Liver cyst

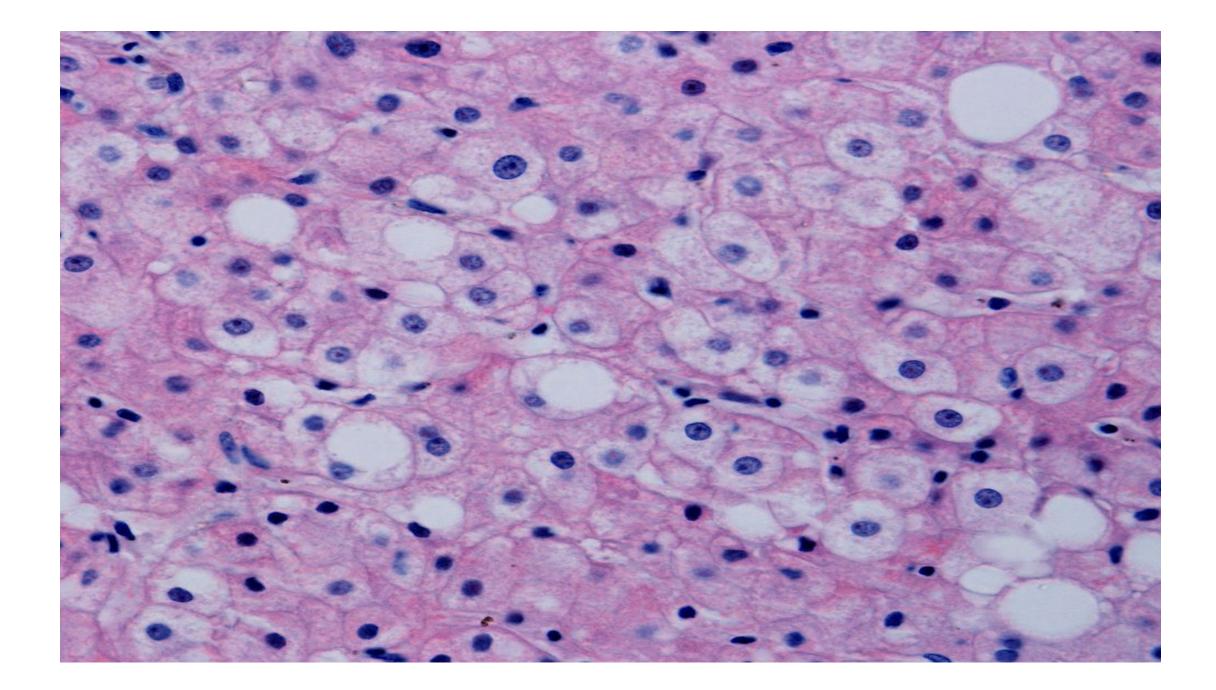
☐ Microscopic (histologic) description

- ☐ Lined by biliary type epithelium (cuboidal to columnar cells)
- Epithelium might be attenuated or denuded
- Epithelial cells contain small amount of mucin or there can be focal mucinous epithelium due to metaplasia
- Cysts lack ovarian type stroma
- Cyst wall is usually fibrotic and can be hyalinized
- Cyst wall may contain islands of hepatocytes, bile ducts, hemorrhage and mild inflammation



Liver steatosis

- is a condition characterized by the accumulation of fat in the liver cells.
- •The microscopic appearance of liver steatosis is characterized by macrovesicular steatosis. This means that the hepatocytes (liver cells) contain one large vacuole that is similar to mature adipose tissue, and the nucleus is eccentric.
- •Microvesicular steatosis, which is characterized by multiple small cytoplasmic vacuoles similar to brown fat, is rare and potentially life-threatening.



Hydropic degeneration of liver

- •Hydropic degeneration of liver is a pathological condition characterized by the swelling of hepatocytes due to an increase in liver cell moisture.
- •This results in the cytoplasm becoming loose and net-like, a condition known as cytoplasmic osteoporosis.
- The condition is one of the most common pathological features of liver diseases.
- It is also known as hepatocellular watery degeneration.

