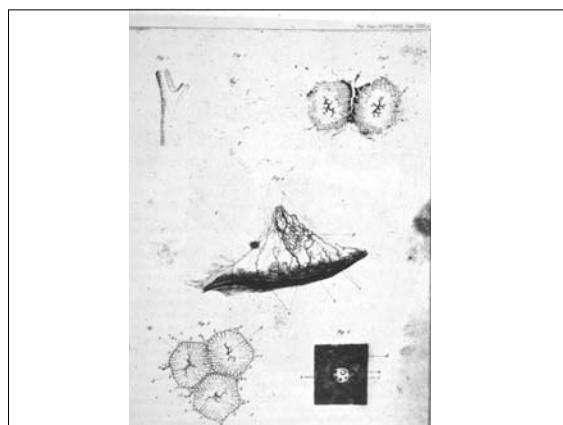
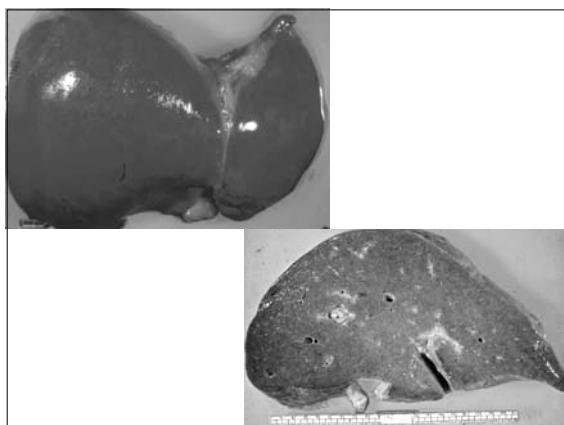
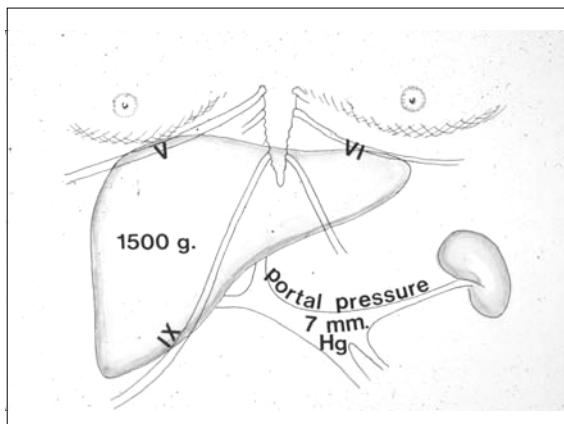


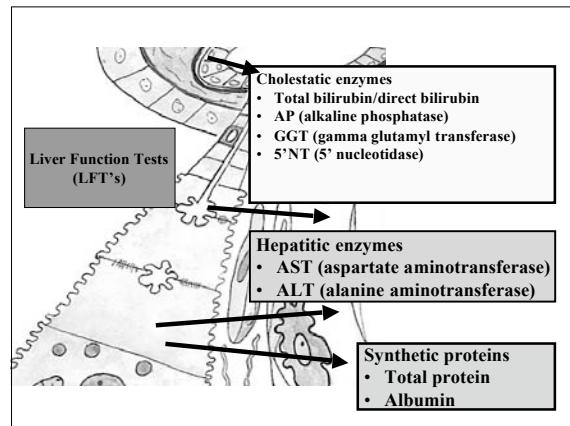
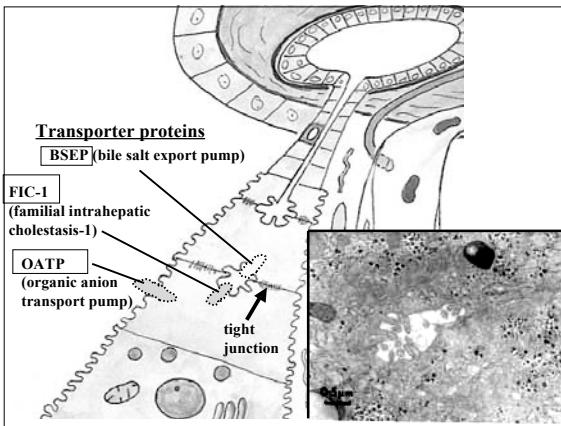
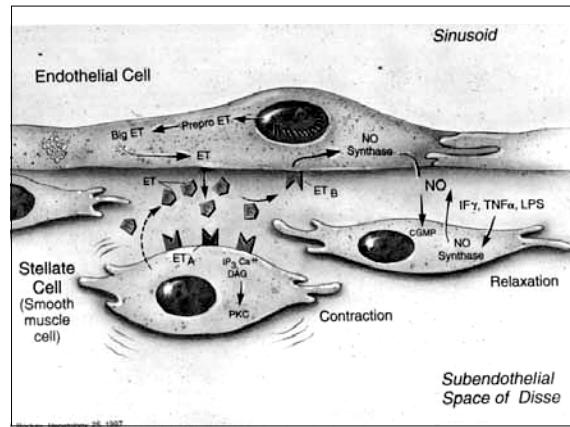
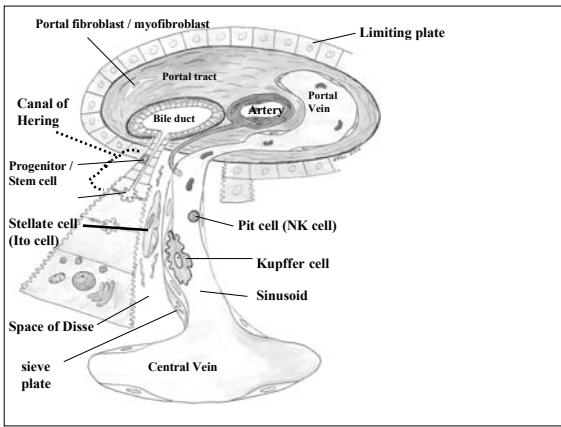
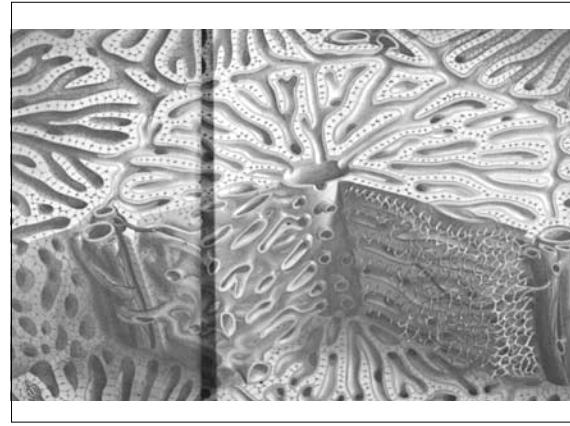
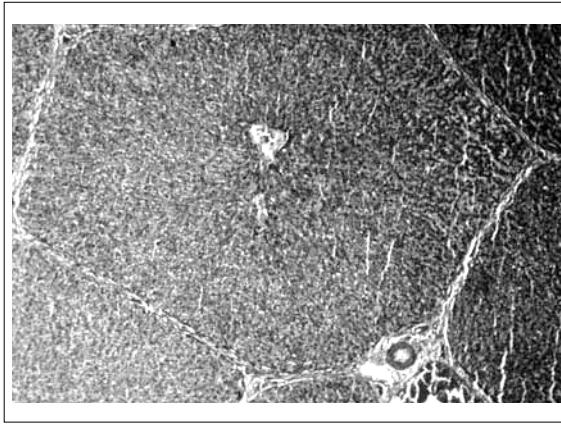
Principles of Liver Pathology

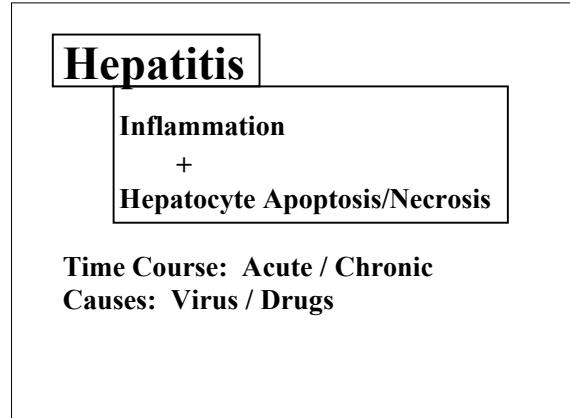
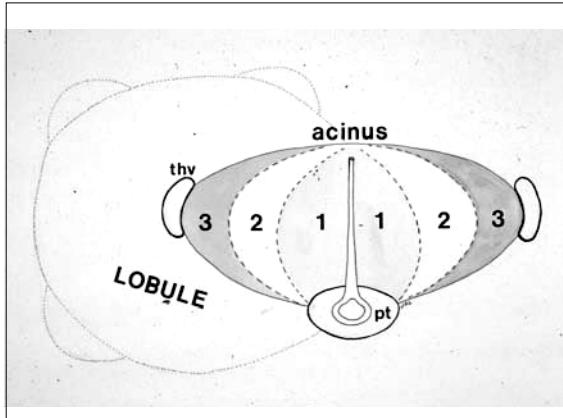
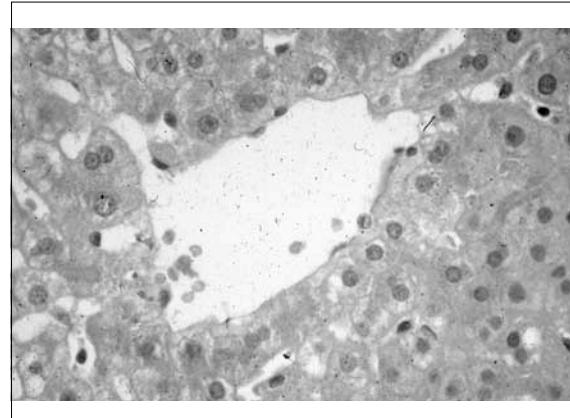
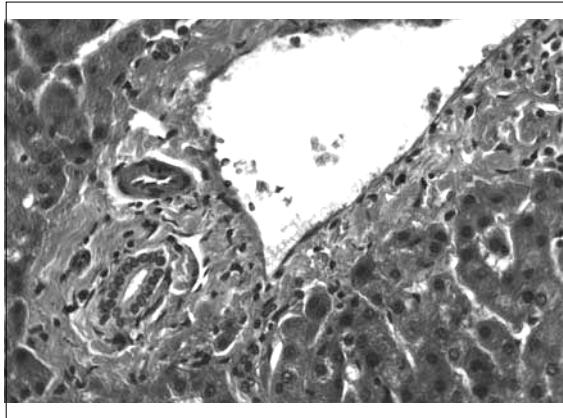
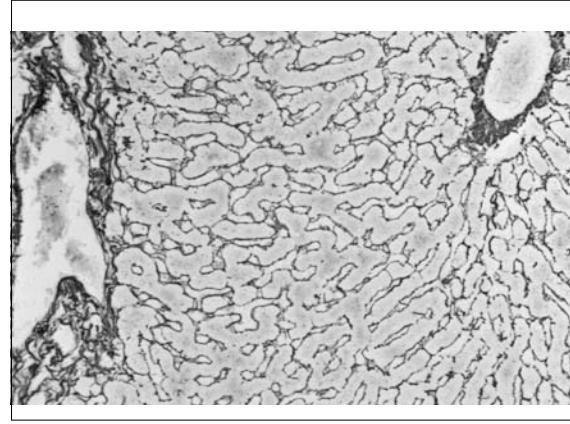
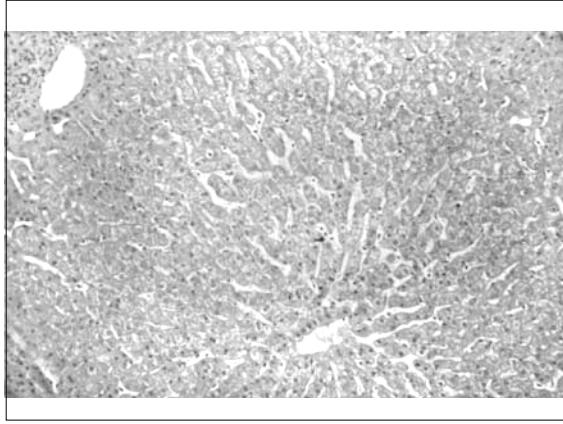
1. Review of normal gross and microscopic anatomy

2. Major pathologic pathways in liver disease

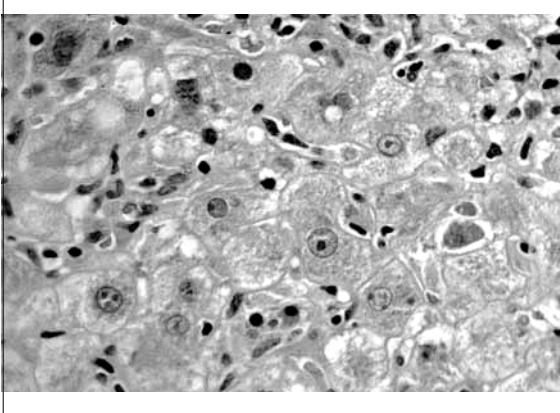
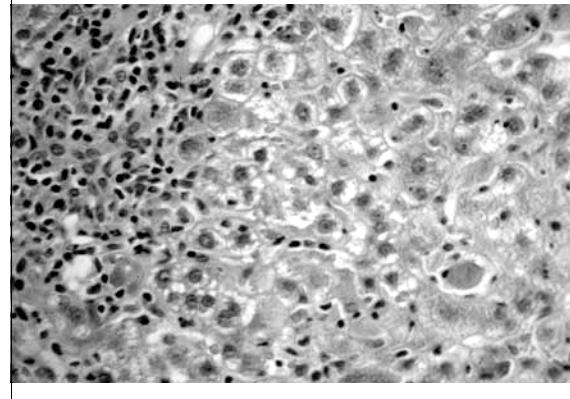
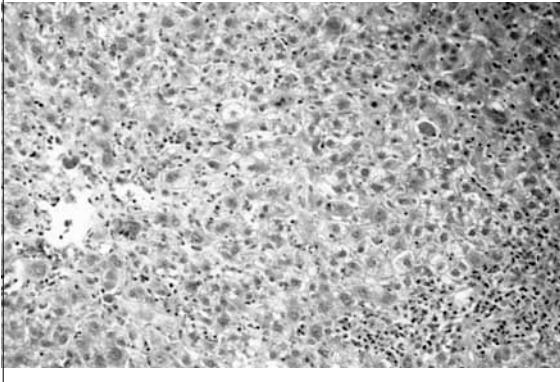
- Acute hepatitis
- Chronic hepatitis
- Fatty liver
- Cholestasis
- Cirrhosis







Acute Hepatitis

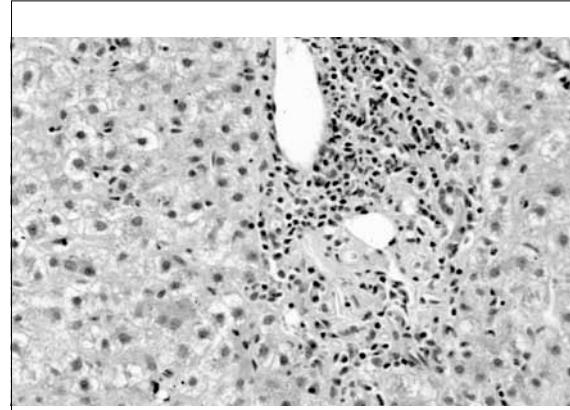


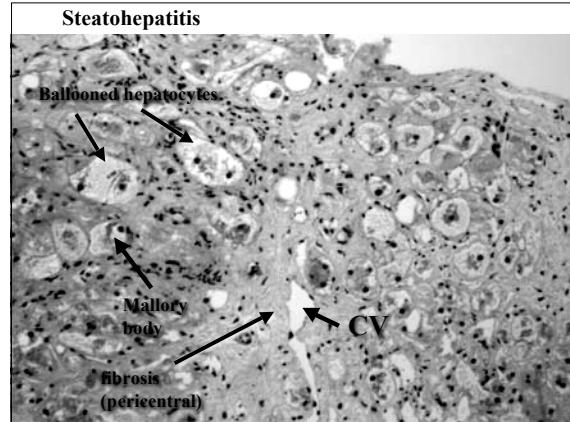
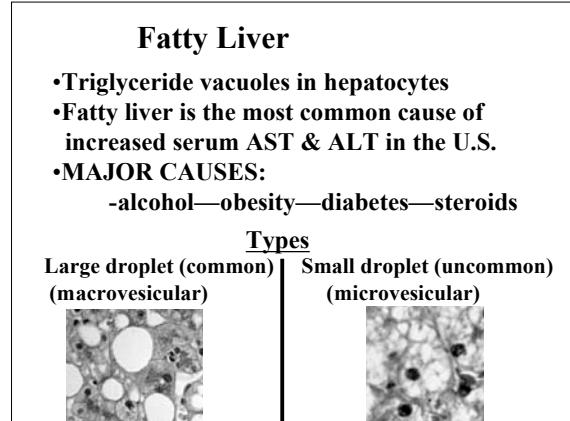
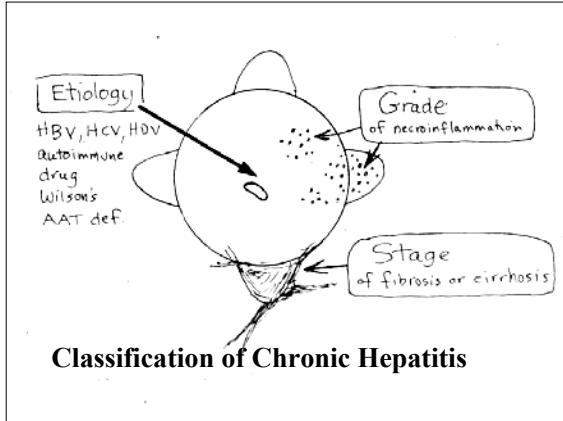
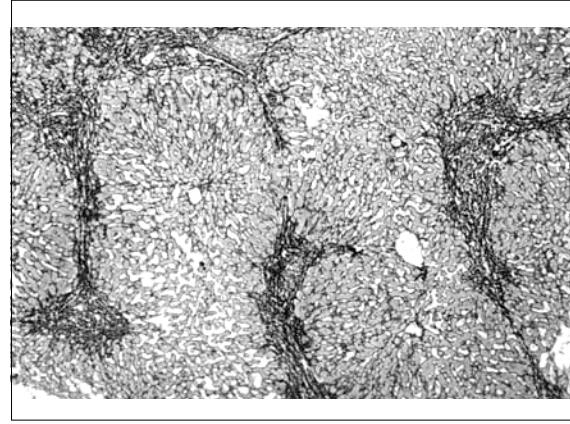
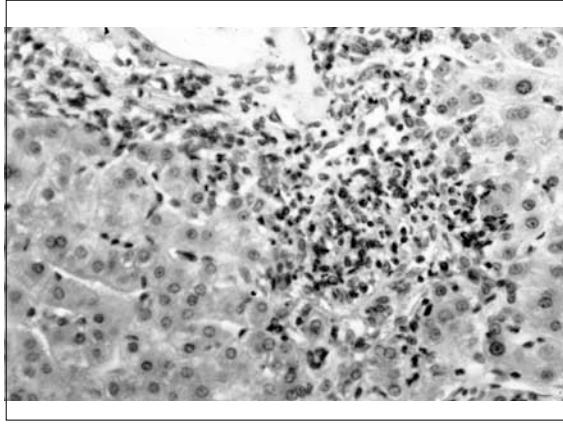
Chronic Hepatitis

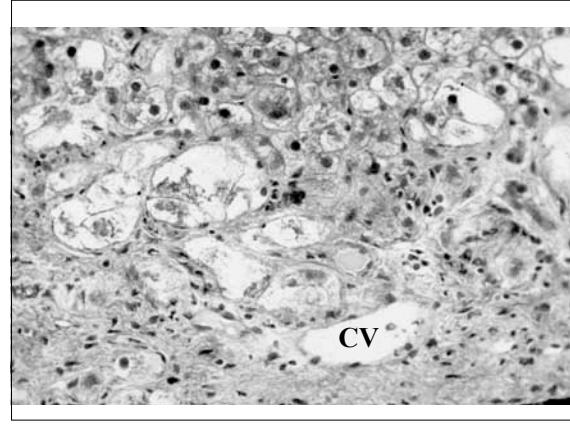
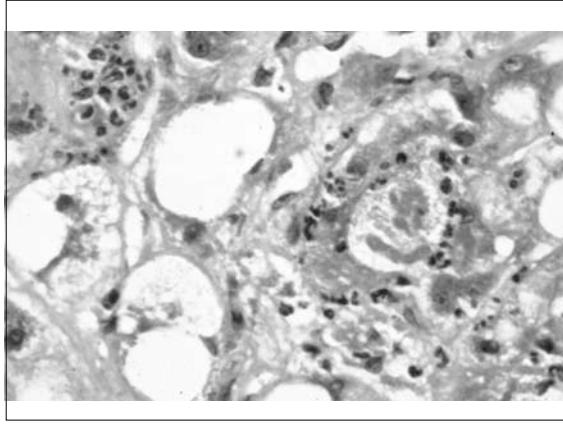
Def.: *Inflammation of the liver continuing without improvement for 6 mos. or longer*

Causes of Chronic Hepatitis

- 1. Hepatitis viruses: HBV, HCV**
- 2. Autoimmune hepatitis**
- 3. Drugs**
- 4. Metabolic diseases:**
 - AAT deficiency
 - Wilson's disease
- 5. Cryptogenic**

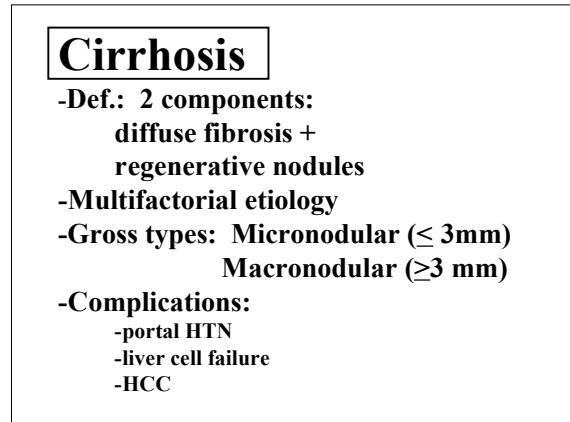
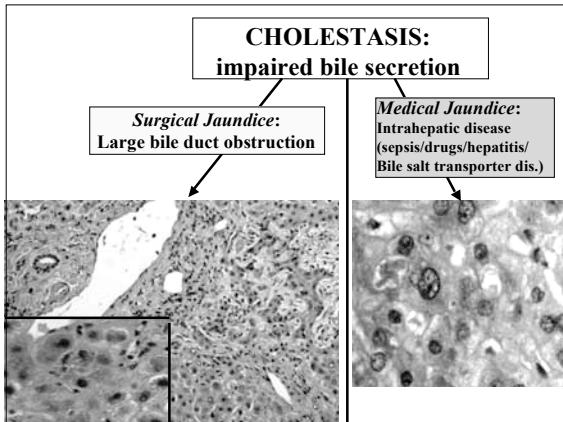
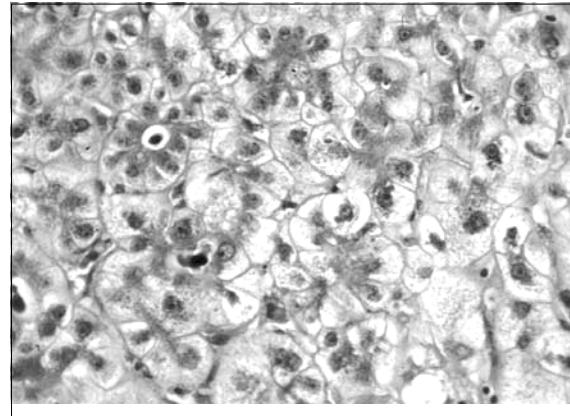


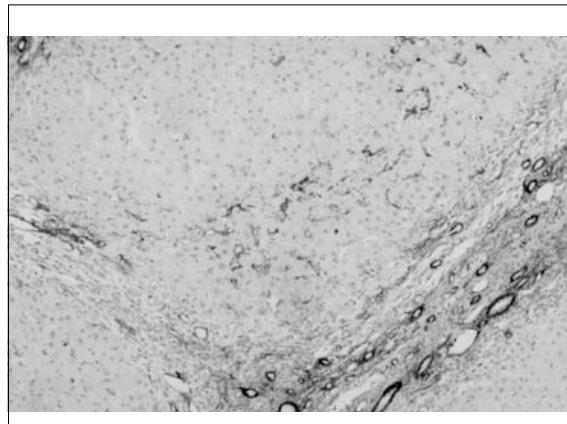
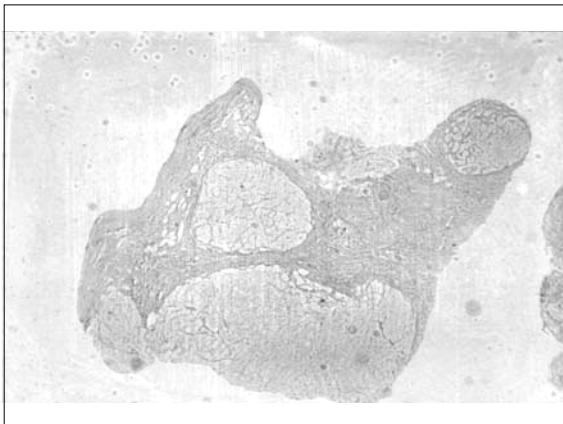
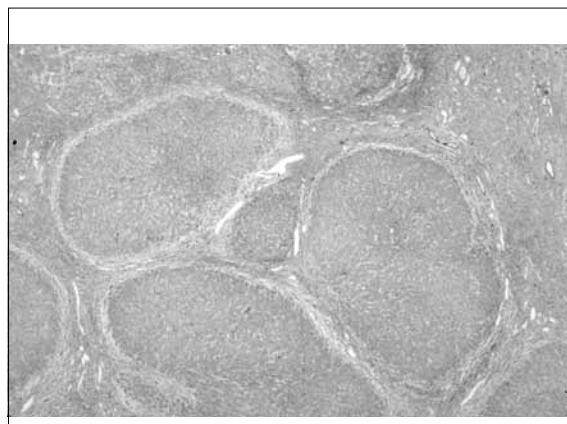
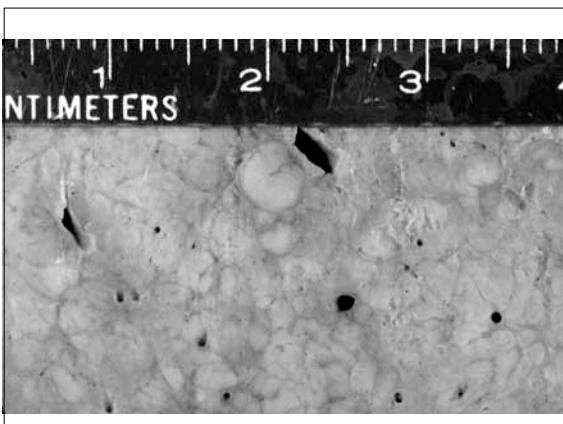
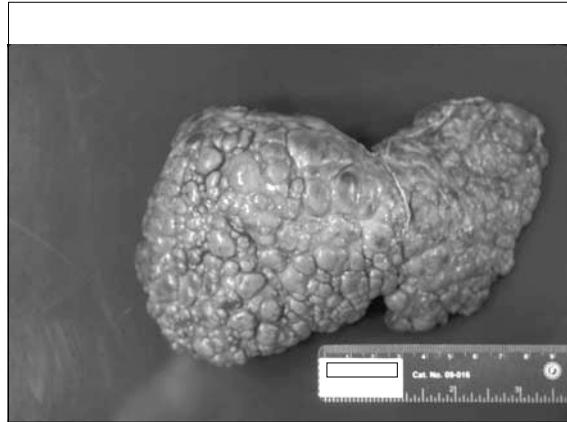
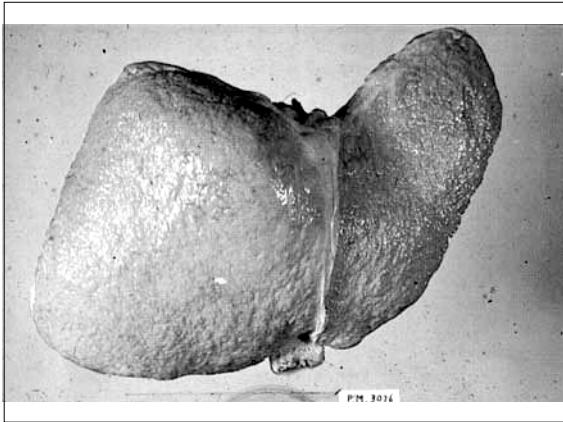


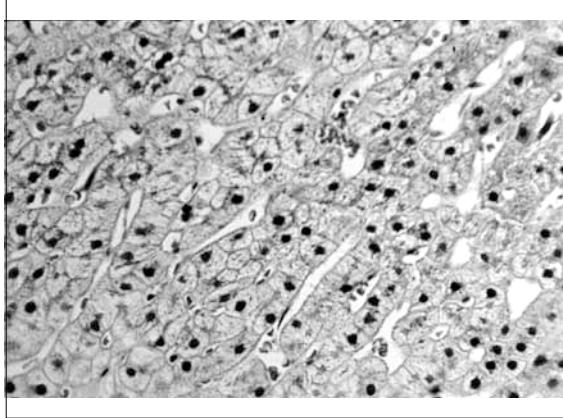


Cholestasis

***Impaired bile secretion
(stagnation of bile flow in the liver)**





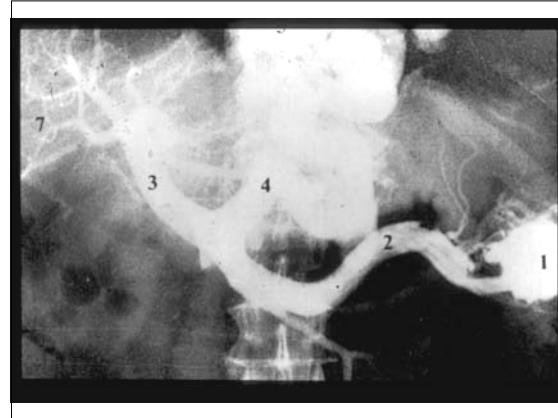
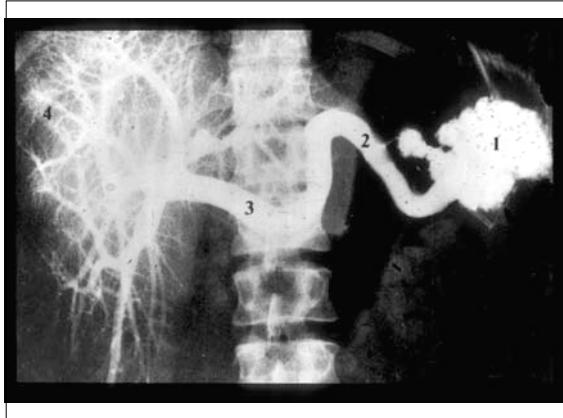
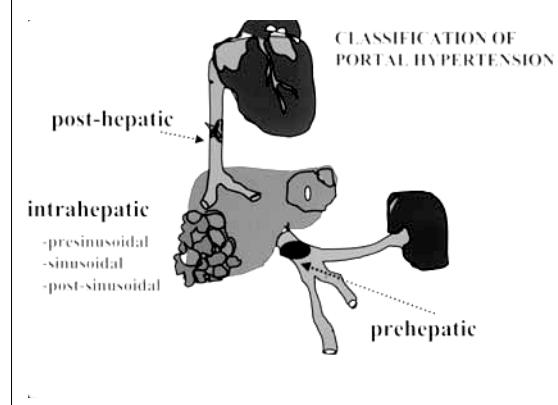


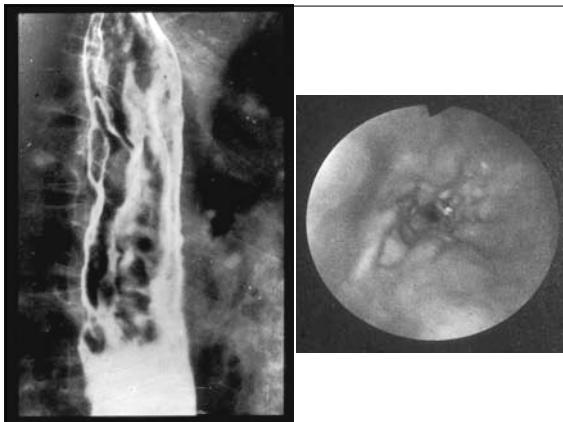
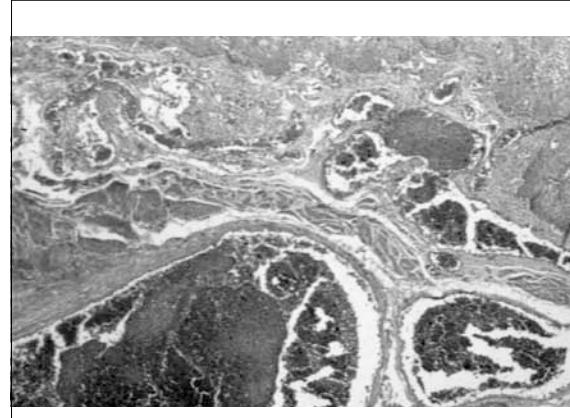
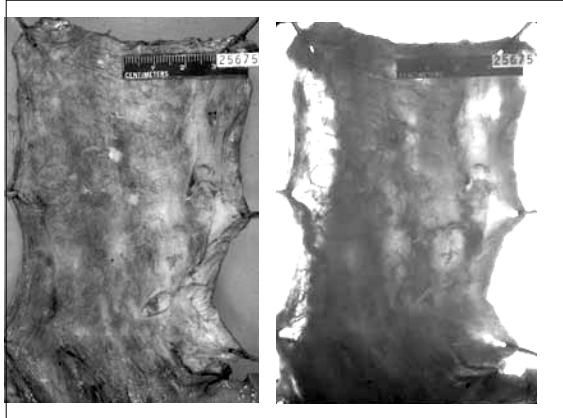
Causes of Cirrhosis

Alcoholic liver disease, 60-70%
Viral hepatitis, 10%
Biliary diseases, 5-10%
Hereditary hemochromatosis, 5%
Wilson's disease, rare
Alpha-1-antitrypsin def., rare
Cryptogenic cirrhosis, 10-15%

Portal Hypertension

Develops when there is obstruction to the portal blood flow anywhere along its course, with
--increase in portal pressure >7 mm Hg
--development of collateral circulation (varices)





RECAP

1. Liver gross + lobule /acinus
2. Micro: space of Disse / Stellate cells / periportal limiting plate /progenitor cells in canal of Hering
3. Acute hepatitis: Hepatitis virus A-E, drugs
4. Chronic hepatitis: def. /causes / grading + staging
5. Fatty liver (large/small droplet), steatohepatitis
6. Cholestasis: bile duct obstruct. / intrahepatic—including transporter proteins
7. Cirrhosis: gross types, causes, complications
8. Portal hypertension: pre-hepatic / INTRAHEPATIC / post-hepatic