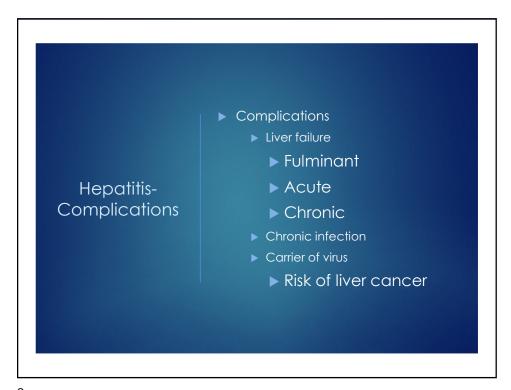
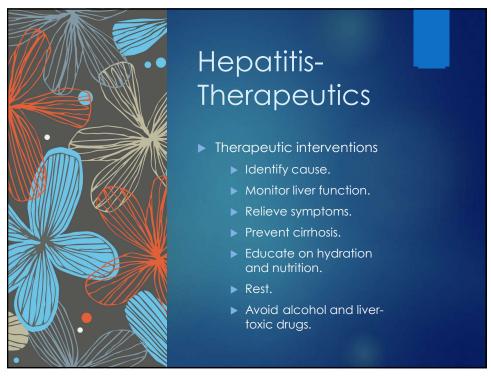
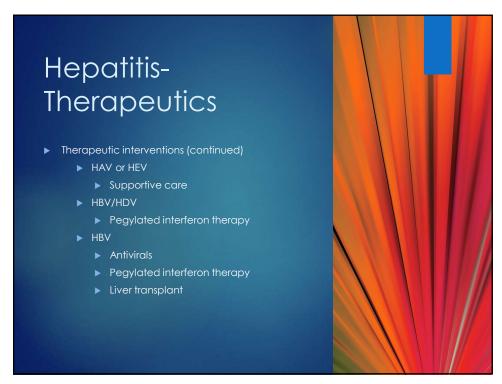


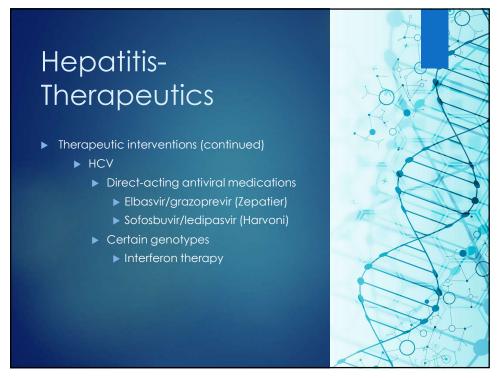
▶ Signs and symptoms
 ▶ Can be asymptomatic
 ▶ Prodromal stage
 ▶ Flu-like symptoms, right upper quadrant (RUQ) pain
 ▶ Icteric stage
 ▶ Jaundice, worsening symptoms
 ▶ Convalescent
 ▶ Return to normal liver function

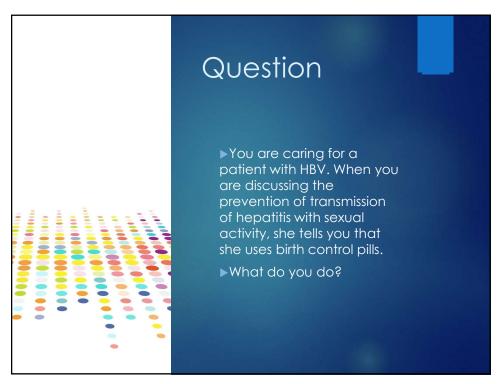


















Therapeutic interventions Possible dialysis for overdose Supportive care Decrease stimulation and provide rest. Eliminate all drugs. High-calorie, low-sodium, and protein diet Decrease ammonia level: Lactulose Liver transplant

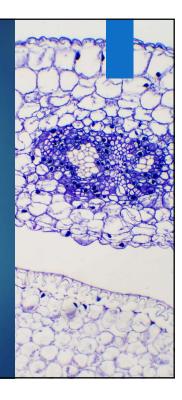
Cirrhosis/Chronic Liver Disease

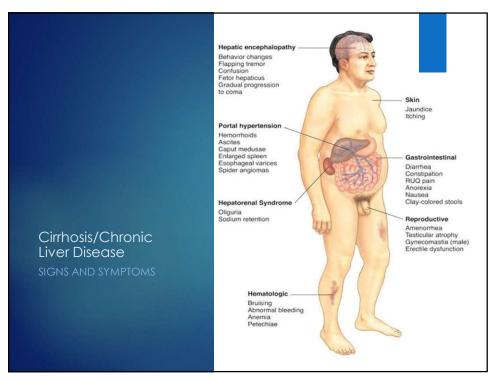
- ▶ 4.5 million had chronic liver disease and cirrhosis in 2018
- Progressive, irreversible replacement of healthy liver tissue with scar tissue
- ▶ Often irreversible unless early treatment
 - Etiology
 - ▶ Chronic alcohol use: Most common
 - ► Chronic HBV or HCV
 - Nonalcoholic steatohepatitis or fatty liver disease

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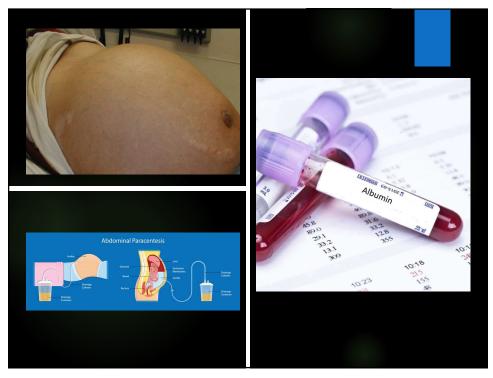
Cirrhosis/Chronic Liver Disease

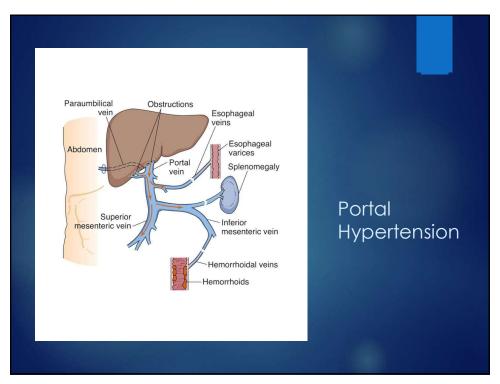
- Pathophysiology
 - ▶ Inflammation of liver cells
 - Infiltration with fat and white blood cells (WBCs)
 - ► Fibrotic scar tissue replaces liver tissue
 - ▶ Abnormal regeneration
 - Impaired liver blood flow
 - ▶ Impaired liver function

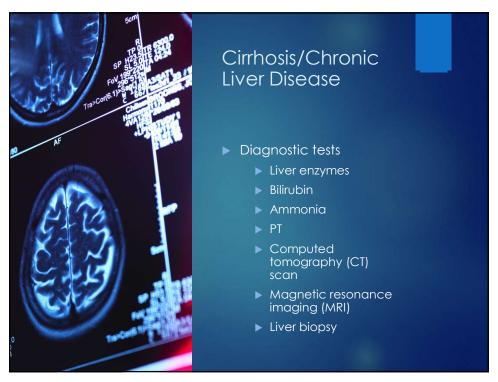


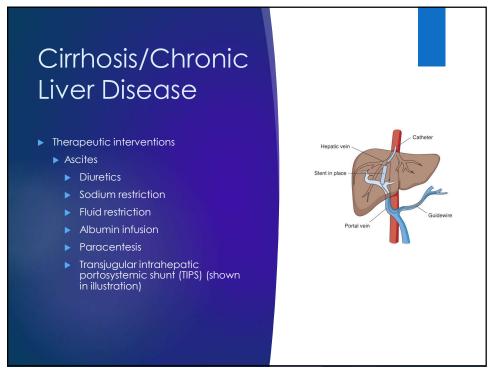


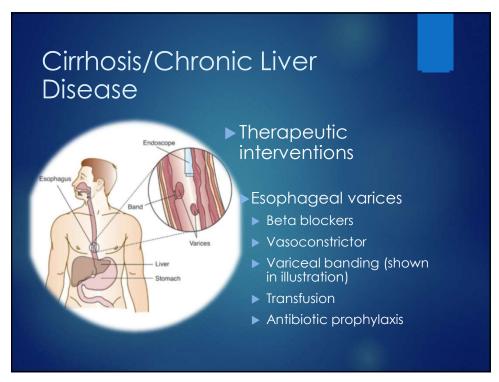


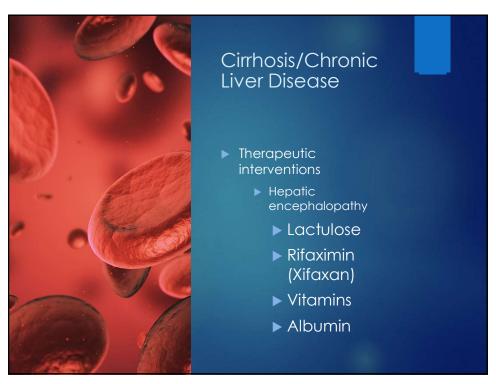


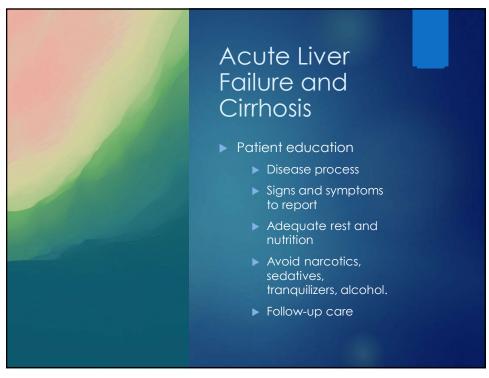










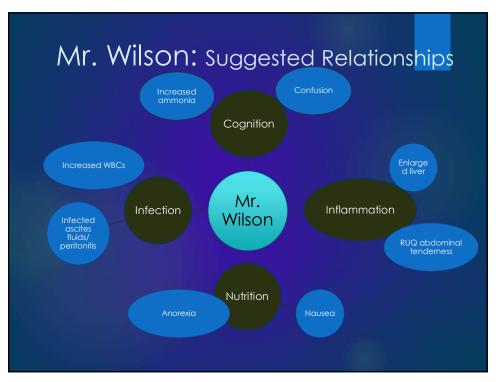


Case Study

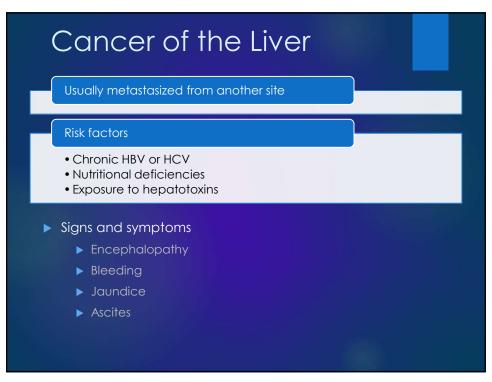
Mr. Wilson is a 56-year-old patient who has had cirrhosis for 10 years. He was brought to the emergency room (ER) by his wife with confusion, anorexia, nausea, jaundice, and abdominal girth of 50 cm.

Following a paracentesis 4 days ago, his abdomen is progressively painful, reddened, and distended.

Lab values: Albumin 2.8 g/dL, bilirubin 2.9 mg/dL, ammonia 150 mcg/dL, AST 42 units/L, ALT 36 units/L, WBCs 13,000 103/microL











You are monitoring your patient with suspected liver cancer who had a liver biopsy 20 minutes ago. You gather data and notice that the dressing over the site is saturated with bright red drainage.

What do you do?

- ▶ Apply pressure to the site (gloved hands).
- Obtain a set of vital signs.
- ▶ Notify the registered nurse (RN) and/or HCP.
- ► Keep the patient in bed.

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