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Approach to Liver Disease: Hepatocellular vs Cholestatic Disease

Thursday Feb 2, 2012, 9:10 - 10:00 A.M.

Friday, February 3, 2012, 9:10-10:00 a.m.

Learning Objectives

At the end of these two lectures the student should be able to:

1. Define cholestatic and hepatocellular liver disease, provide examples of both and be able to interpret panels of liver tests.
2. Define the difference between intrahepatic and extrahepatic cholestasis and outline approaches to distinguishing them.
3. Define the pathophysiology of representative cholestatic diseases, including drug-induced cholestasis, primary biliary cirrhosis, primary sclerosing cholangitis and bile duct obstruction.
4. Outline an approach to the evaluation of the jaundiced patient.
5. Define acute and chronic hepatocellular liver disease and provide representative examples.
6. Provide a differential diagnosis for a patient with liver tests indicating hepatocellular disease and discuss an approach to definitive evaluation.
7. Be able to interpret serologic tests for hepatitis A, B, C, D and E.

Key words: Fulminant liver failure, acute hepatitis, hepatitis A, B and C.

Reading Assignment:

Cecil Essentials of Medicine, 8th edition, 2010:
- Relevant sections of chapters 41-44, especially chapter 43
- Chapter 64, pp 651-654 (Wilson’s disease and hemochromatosis)

Purpose of lecture:

I discussed liver function and tests of liver injury/liver function earlier this week. We will use these tests to identify and analyze types of liver disease. It is helpful to think of two broad categories of liver disease: cholestatic and hepatocellular.

There are some uncommon diseases that primarily attack other cells in the liver such as sinusoidal endothelial cells, small veins/arteries or the resident macrophages, the Kupffer cells. We will not deal with these today as the general approach I will review today will allow you to approach and understand most of the liver diseases you will run into in whatever area of medicine you enter.
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