

Case Study 46

Class/Group

Date

Name

Group Members

INSTRUCTIONS: All questions apply to this case study. Your responses should be brief and to the point. When asked to provide several answers, list them in order of priority or significance. Do not assume information that is not provided. Please print or write clearly. If your response is not legible, it will be marked as 7 and you will need to rewrite it.

Scenario

P.M., a 24-year-old house painter, has been too ill to work for the past 3 days. When he arrives at your outpatient clinic, he seems an alert but acutely ill young man of average build, with a deep tan over exposed areas of skin. He reports headaches, severe myalgia, a low-grade fever, cough, anorexia, and nausea and vomiting (N/V), especially after eating any fatty food. P.M. describes vague abdominal pain that started about the same time as the other problems. His past medical history (PMH) reveals he has no health problems, is a nonsmoker, and drinks a "few" beers each evening to relax. Vital signs (VS) are 128/84, 88, 26, 100.6°F; awake, alert, and oriented (AAO) x3; moves all extremities well (MAEW) except for aching pain in his muscles; very slight scleral jaundice present; heart tones clear and without adventitious sounds; bowel sounds clear throughout abdomen and pelvic; abdomen soft and palpable without distinct masses. You note moderate hepatomegaly measured at the midclavicular line; liver edge is easily palpated and tender to palpation. P.M. mentions that his urine has been getting darker over the past 2 days.

P.M. is manifesting the key signs of hepatitis. Lab work is sent for identification of his precise problem. Results are Na 140 mmol/L, K 3.9 mmol/L, Cl 102 mmol/L, CO₂ 26 mmol/L, BUN 10 mg/dl, creatinine 1.0 mg/dl, platelets 86 thou/cmm, direct bilirubin 1.6 mg/dl, total bilirubin 2.3 mg/dl, albumin 3.8 g/dl, total protein 8.2 g/dl, alanine aminotransferase (ALT) 66 units/L, aspartate aminotransferase (AST) 52 units/L, lactate dehydrogenase (LDH) 205 units/L, alkaline phosphatase 176 units/L, PT 12 sec, INR 1.06, PTT 32 sec. Urine urobilinogen is 1.6 IU/L, albuminuria 160 mg/dl, positive for bilirubinuria, positive for anti-HAV (hepatitis A virus) IgM.

1. Which key diagnostic tests will determine exactly what type of hepatitis is present?

Testing is done for the presence of, or specific ratio of, serologic markers (specific antibodies) for hepatitis A - Anti-hepatitis A virus (Anti-HAV) Immunoglobulin M (IgM) and IgG.
P.M. was tested positive for anti-HAV (hepatitis A virus) IgM.

2. A CBC, BMP, LFT, and PT/PTT were drawn. Which of the lab values listed above specifically indicates liver disease?

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