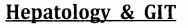
Tanta University Faculty of Medicine

Department of Tropical Medicine & Infectious diseases

October 5, 2013

Master & Diploma Examination Number of Questions: 3 Time Allowed: 3 Hours Total: 50 Marks



All questions must be answered

I. Case scenario:

(10 marks)

A 33-year-old man who has undergone renal transplantation is on maintenance immunosuppression with cyclosporine, azathioprine, and prednisone. He frequently travels to Africa and is interested in receiving hepatitis A vaccination. His physical examination is otherwise normal. Results of laboratory studies are as follows: alanine aminotransferase (ALT), 15 U/L; bilirubin, 1.0 mg/dL; albumin, 3.5 g/dL; international normalized ratio (INR), 0.9; hepatitis B surface antigen (HBsAg), negative; antibody to hepatitis B core antigen (anti-HBc), negative; and antibody to hepatitis C virus (anti-HCV), positive.

Which of the following is true regarding the use of hepatitis A vaccine in this patient? Why?

- 1. He should be vaccinated because it is safe and he may mount a protective antibody response.
- 2. He should not be vaccinated because he has chronic hepatitis C and vaccination could precipitate liver failure.
- 3. He should not be vaccinated because the vaccine is ineffective in immuno-suppressed patients.
- 4. He does not need to be vaccinated because he is not likely to be exposed to hepatitis A.

II. MCQs:

- (15 marks)
- 1. In chronic HCV infection, higher viral load levels are associated with:
 - a. Higher indication for antiviral therapy
 - b. Higher grade & stage of liver disease
 - c. Higher progression of the liver disease
 - d. None of the above
- 2. HCC is not associated with:
 - a. Liver cirrhosis
 - b. α1 antitrypsin deficiency
 - c. HAV infection
 - d. Haemochromatosis
 - e. Androgen and estrogen ingestion
- 3. In cases with constipation alternating with diarrhea, what do you do first?
 - a. Refer for surgical inspection.
 - b. Digital rectal exam.
 - c. Colonoscopy.
 - d. Barium enema.

- 4. What is MELD score?
 - a. Choose the method of interventional treatment of HCC.
 - b. Define priority for liver transplantation.
 - c. For preoperative evaluation.
 - d. Prognostic score.
- 5. Small HCC with portal vein thrombosis, jaundice, and ascites can be treated with:
 - a. Radio Frequency ablation.
 - b. Best supportive care.
 - c. TACE.
 - d. Microwave ablation.
- 6. Chronic pancreatitis may be reliably diagnosed in a patient presenting with:
 - a. Calcification in the pancreas detected on a flat plate x-ray of the abdomen
 - b. Abdominal pain
 - c. Diarrhea
 - d. Nausea and vomiting
 - e. Jaundice
- 7. Which clinical or laboratory finding is most consistently seen in malabsorption syndromes:
 - a. Hypercalcemia
 - b. Iron overload
 - c. Elevated zinc levels in serum
 - d. Normal small bowel biopsy
 - e. Steatorrhea
- Which of the following is seen most commonly in association with primary biliary cirrhosis (PBC):
 - a. Positive antinuclear antibody (ANA)
 - b. Increased ceruloplasmin
 - c. Increased ferritin
 - d. Positive hepatitis B surface antigen
 - e. Positive antimitochondrial antibody
- 9. A 58-year-old white man presents to your office with a history of losing 15 Kg in the last 3 months. In the past month, he has had substernal chest pain and dysphagia for solid foods. For 35 years, he has had heartburn at least 3 times per week. He used to take bicarbonate for relief of his heartburn. What is the most likely diagnosis in this patient?
 - a. Erosive esophagitis
 - b. Esophageal ulcer
 - c. Pill esophagitis
 - d. Esophageal adenocarcinoma
 - e. Benign esophageal stricture
- 10. The treatment of choice of spontaneous bacterial empyema in cirrhotic patient is:
 - a. Chest tube and third generation cephalosporins.
 - b. Ampicillin plus aminoglycosides.
 - c. Third generation cephalosporins.

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- d. No empirical antibiotic treatment until pleural fluid culture positivity.
- e. Chest tube and ampicillin plus aminoglycosides.

- 11. Which of the following clinical symptoms compose the clinical triad in patients with Budd-Chiari Syndrome?
 - a. Abdominal pain, jaundice, hepatomegaly.
 - b. Abdominal pain, ascites, hepatomegaly.
 - c. Abdominal pain, anorexia, Ascites.
 - d. Ascites, jaundice, hepatomegaly.
 - e. All of the above.
- 12. In chronic HCV infection, AST & ALT levels are important determinants of:
 - a. Indication for antiviral therapy
 - b. Underlying pathology
 - c. Response to antiviral viral therapy
 - d. None of the above
- 13. The following precipitates hepatic encephalopathy except :
 - a. Laparoscopic cholecystecomy
 - b. Urinary tract infection
 - c. Acetaminophen 2gm per day for back pain
 - d. Variceal bleeding
- 14. Which of the following is considered the most accepted mechanism of action of lactulose in patients with hepatic encephalopathy?
 - a. Elimination of bacteria
 - b. Acidification of the colon
 - c. Promotion of lactobacillus
 - d. Inhibition of bacterial amino acid metabolism
- 15. The commonest isolated organism in cases of SBP is:
 - a. Staphylococcus aureus
 - b. Streptococcus milleri

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- c. E. coli
- d. Bacteroides fragilis
- e. Salmonella typhi

III. Answer the following questions: (25 marks)

- Discuss in short: Causes of esophageal dysphagia.
- 2. Write short notes about: Management of refractory ascites. (5 marks)

(5 marks)

- 3. Mention: Causes, clinical picture, diagnosis & treatment of acute pancreatitis. (5 marks)
- 4. Write short essay about: HEELP syndrome. (5 marks)
- 5. Enumerate: Causes of high and causes of low serum alkaline phosphatase. (5 marks)



Tanta University Faculty of Medicine

Department of Tropical Medicine & Infectious diseases

October 9, 2013

Master & Diploma Examination Number of Questions:3 Time Allowed: 3 Hours

Total: 50 Marks

Infectious & Endemic Diseases

All questions must be answered

I. Case scenario:

(10 marks)

A 62-year-old woman presents to the emergency department with a high fever, weakness, and malaise. She denies vomiting, dysuria, cough, or diarrhea. She has been receiving a six week course of antibiotics at home for osteomyelitis of her left foot. Her semi-permanent intravenous line in her arm has not been replaced for the past three weeks.

Her temperature is 38 C, blood pressure is 150/80 mm Hg, pulse is 96/minute, and respirations are 16/minute. She has a pansystolic murmur heard best over the left fifth intercostal space, in the midclavicular line. Her lungs are clear and her abdominal examination is normal. Her fingernails show small longitudinal splinter-type lesions. The skin at the intravenous site looks normal. A chest x-ray film showed no effusion.

Laboratory studies show: Hemoglobin= 12.2g/dL, Hematocrit= 35.3 %, White blood cell count (WBC)= 16,100/mm3.Platelets= 283,000/mm3.

Urine is negative for blood, protein, nitrites, and leukocyte esterase.

What is the most likely diagnosis? Confirm your diagnosis?

II. MCQs:

- 1. Which of the following is true about Koplik's spots?
 - a. Are diagnostic of Measles
 - b. Located opposite the incisor teeth
 - c. Only appear when fever is over 39°C
 - d. They appear as red papules on the plamar surface of the hands
 - e. Typically appear two days after the rash
- Clinical features of toxoplasmosis include the following except:
 - a. Microcephaly
 - b. Choroidoretinitis
 - c. Cervical lymphadenopathy
 - d. Mouth ulcers
 - e. Generalised lymphadenopathy
- 3. As regard Falciparum malaria the only false statement is:
 - a. Acute infection is not associated with splenomegaly
 - b. Is associated with periodic fever in a minority of cases
 - c. Has an incubation period of 8-15 days
 - d. May present as a gastroenteritis
 - e. May be treated with quinine

(15 marks)



- 4. The following are not characteristic features of acute hepatitis B except:
 - a. Most patients present with splenomegaly.
 - b. It confers immunity to hepatitis A.
 - c. There is increased infectivity in the presence of the E antigen.
 - d. Pruritis is an important early symptom.
- 5. Subcutaneous nodules are a typical finding in except:
 - a. Neurofibromatosis
 - b. Cysticercosis
 - c. Onchocerciasis
 - d. Trichinosis
- 6. The followings may present with fever and diarrhea except:
 - a. Malaria
 - b. Entamoeba coli
 - c. Dengue
 - d. Campylobacter enteritis
 - e. Brucellosis
- 7. As regard Hepatitis A, the following are true except:
 - a. The virus has a single stranded RNA
 - b. The incubation period is 2-6 weeks
 - c. Is usually acquired by consumption of faecally contaminated food or water
 - d. Is maximally infectious at the peak of jaundice
 - e. Can be prevented by active immunisation
- 8. What is the most common cause of vitamin B12 malabsorption?
 - a. Pancreatic insufficiency
 - b. Bacterial overgrowth syndrome
 - c. Crohn's disease involving the terminal ileum
 - d. Pernicious anaemia
 - e. Ileal resection
- 9. Treatment of pseudomembranous colitis includes all the following except:
 - a) Oral metronidazole
 - b) Intravenous vancomycin
 - c) Oral vancomycin
 - d) Probiotics
- 10. The correct Nomenclature of the following fatty acid is:

Methyl	
-CH,	

- a. 18:3 ω-6
- b. 18:2 ω-6
- c. 18:2 ω-9
- d. $18:4 \ \omega-6$

11. Which nematode does not have pulmonary infiltrate with eosinophelia in the acute stage?

- a. Hookworms
- b. Ascaris
- c. Enterobius
- d. Strongyloides

12. Microcytic hypochromic anemias include the following except:

- a. Iron deficiency anemia
- b. Anemia of chronic disorders
- c. Spherocytosis
- d. Sidroblastic anemia
- e. Thalassaemia
- 13. All hemolytic anemias cause splenomegaly and can be improved with splenectomy except :
 - a. Sickle cell anemia
 - b. G6PD deficiency
 - c. Thalassaemia
 - d. Spherocytosis

14. As regard Hookworm, the following statements are wrong except:

- a. Is usually spread by the faeco-oral route
- b. Is usually diagnosed by microscopy of adhesive tape prints taken from the perianal area
- c. May block the pancreatic duct causing pancreatitis
- d. The eggs of Necator americanus and Ancylostoma duodenale are indistinguishable on light microscopy.
- e. Commonly causes diarrhoea in non-immunes

15. Enteric fever is characterized by the followings except:

- a. Bone marrow culture increases diagnostic yield in those previously given antibiotics.
- b. Is zoonotic
- c. Leucocytosis would be against a diagnosis of typhoid
- d. The incubation period is usually 7-21 days.
- e. Rose spots occur in typhoid but not paratyphoid fever

III. A	Answer the following questions: (25 mark	s)
1.	Discuss in short: Travelers' diarrhea.	(5 marks)
2.	Enumerate: Common causes of aseptic meningitis.	(5 marks)
3.	Write short notes on: Resistant typhoid.	(5 marks)
4.	Mention: Management of Toxoplasmosis in pregnancy.	(5 marks)
5.	Write short essay about: Nutritional anemias.	(5 marks)