Medical Quiz

Medical quiz: Single Best Answer (SBA)

Ahmed JU

**Question No. 01**
A 65-year-old patient presented to the Medicine OPD with a painful right lower leg. On questioning, he tells that the pain has been present for a few months but he has not sought any medical advice for it. He has type 2 diabetes, for which he is on insulin. On examination he appears systemically well. Examination of the right lower limb shows a curvature of the tibia with overlying erythema, and palpation reveals it to be much warmer than the left leg.

Which ONE of the following conditions is the patient suffering from?
A. Osteomyelitis  
B. Paget’s disease  
C. Sarcoma  
D. Skeletal metastasis  
E. Charcot’s joint

**Question No. 02**
A 76-year-old woman presents to the Cardiology OPD with a 2-week history of nausea and vomiting. She also describes feeling generally weak, easily fatigued and seeing a yellow hue around lights. She has a past history of atrial fibrillation, hypertension and congestive cardiac failure. Her full blood count shows a haemoglobin of 10.4 g/dl, an MCV of 99.2 fl, and a normal white cell count and differential. Her creatinine was 261 ìmol/l from a baseline of 150 ìmol/l a few weeks previously, with a sodium of 133 mmol/l and a potassium of 4.2 mmol/l.

Out of the following investigations, which ONE is the most appropriate in patients with the above presentation?
A. Serum Sodium level  
B. Urinary Albumin: creatinine ratio  
C. Serum Potassium levels  
D. Serum Calcium levels  
E. 24-hour holter monitoring

**Question No. 03**
A 30-year-old male came to the GHPD OPD with a 3-month history of malaise, lethargy and weight loss. On further questioning he reports intermittent colicky abdominal pain with diarrhoea, mucus and blood per rectum. On examination he is a tall thin man; cardiovascular, respiratory and abdominal examination are unremarkable and rectal examination reveals a few anal skin tags. Examination of the mouth reveals some aphthous ulcers.

Which ONE of the following findings would not occur in patients with the above disease?
A. Rose-thorn ulceration on sigmoidoscopy  
B. Transmural granulomatous inflammation  
C. Colovesical fistula formation  
D. Toxic dilatation  
E. Osteomalacia

**Question No. 04**
A 47-year-old woman presents to the OPD for consistently elevated blood pressure. Her last reading was 147/93. The female does not report any symptoms but recently lost her job and attributes the elevated reading to stress. Her blood tests are as follows (mmol/L): Serum Sodium 146, Potassium 3.4 Glucose (random) 7.7, Urea 4.0

The most appropriate investigation is:
A. CT scan  
B. 24-hour ambulatory blood pressure  
C. Abdominal ultrasound scan  
D. Aldosterone–renin ratio  
E. Glucose tolerance test

**Question No. 05**
A 42-year-old man presents to the emergency with a 1-day history of headache and fevers. His attendant says he has been becoming increasingly confused and disorientated. On examination, his temperature is 38.5°C. On cranial nerve examination there is a right-sided superior quadrantanopia. An urgent CT scan of the head is organized which shows multiple ring enhancing lesions.

What is the most likely diagnosis?
A. Toxoplasmosis  
B. Meningitis  
C. Cryptosporidiosis  
D. CMV encephalitis  
E. Histoplasmosis

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