

Medical Quiz

Medical quiz: Single Best Answer (SBA)

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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 $\mu\text{mol/l}$ from a baseline of 150 $\mu\text{mol/l}$ 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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