

### Medical Quiz: Single Best Answer (SBA)

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#### Question No. 01

A 23-year-old man presents to the emergency with a 1-day history of severe headache, discomfort when looking at the lights and neck stiffness. There is a non-blanching rash observed on his trunk. He has recently recovered from chicken pox. On examination he is pyrexial at 39°C. The most likely causative organism is:

- A. Streptococcus pneumoniae
- B. Listeria monocytogenes
- C. Neisseria gonorrhoeae
- D. Varicella Zoster
- E. Neisseria meningitidis

#### Question No. 02

A 29-year-old man presents with a 4-week history of polyuria and extreme thirst. The patient denies difficulty in voiding, hesitancy or hematuria, although the urine is very dilute. The patient does not believe he has lost any weight and maintains a good diet. No findings are found on urine dipstick. The most appropriate investigation is:

- A. Serum osmolality
- B. Fasting plasma glucose
- C. Urinary electrolytes
- D. Magnetic resonance imaging (MRI) scan of the head
- E. Water deprivation test

#### Question No. 03

A 32-year-old man presents to the emergency complaining of back pain. This had started suddenly that morning after he had lifted a heavy box at home. He mentions that the pain has been shooting down his left leg and he cannot walk without the support of his friend. He has not passed urine since the onset of pain. On neurological examination of the lower limbs, tone and power cannot be assessed due to pain but there are decreased ankle reflexes and a sacral anesthesia. What is the most appropriate next step?

- A. Give NSAID analgesia and complete neurological examination
- B. Send the patient home with NSAID analgesia and bed rest advice
- C. Arrange urgent MRI of spine
- D. Give NSAID analgesia and catheterize the patient
- E. Send the patient home with NSAID analgesia and advice to avoid heavy lifting

#### Question No. 04

A 47-year-old woman presents complaining of dark stools and painful fingers on both hands. She appears plethoric and complains of severe itching, often when she is washing. She has hepatosplenomegaly. You have done red cell mass and erythropoietin levels among other tests. Which of the following is likely to be most accurate in this patient?

- A. Low erythropoietin and low red cell mass
- B. Normal erythropoietin and normal red cell mass
- C. Raised erythropoietin and low red cell mass
- D. Raised erythropoietin and raised red cell mass
- E. Low erythropoietin and raised red cell mass

#### Question No. 05

A 56-year-old man presents to you with a three-month history of weight loss despite no change in his appetite. The patient has no past medical history and no known drug allergies. On examination, you notice an area of hyperpigmented skin in his left axilla. On palpation, the texture of the area of hyperpigmentation feels velvety. Which one of the following malignancies is most commonly associated with this dermatological presentation?

- A. Lung carcinoma
- B. Testicular carcinoma
- C. Breast carcinoma
- D. Gastrointestinal carcinoma
- E. Prostate carcinoma

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