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QUESTION 1

Which of the following are not treated with Methotrexate?

- A. Sarcomas
- B. Leukemia
- C. Ectopic pregnancy
- D. Rheumatic fever

Correct Answer: D

QUESTION 2

Which of the following supplies the muscles of the perineum?

- A. Pudendal nerve
- B. Sciatic nerve
- C. Femoral nerve
- D. Tibial nerve

Correct Answer: A

QUESTION 3

A 27-year-old man is admitted to the hospital 45 minutes after being involved in a motor vehicle collision. Physical examination shows a sluggish response to stimuli. Neurologic examination shows no other abnormalities. A skull x-ray shows a linear, nondepressed basal skull fracture. Two weeks later, the patient develops polyuria and polydipsia. Laboratory studies show a serum glucose concentration within the reference range, increased serum osmolality, and decreased urine osmolality. Following the administration of desmopressin, urine osmolality increases. The beneficial effect of this drug is most likely due to activation of which of the following?

- A. Adenylyl cyclase
- B. Ca²⁺ channels
- C. Janus kinase
- D. Serine kinase
- E. Tyrosine kinase

Correct Answer: A



QUESTION 4

A 29-year-old woman is prescribed carbamazepine for trigeminal neuralgia. She has a strong family history of osteoporosis. As a result, the physician also advises her to increase her intake of vitamin D. The most likely reason for this recommendation is that carbamazepine may affect which of the following pharmacokinetic processes?

- A. Absorption
- B. Distribution
- C. Excretion
- D. Metabolism
- E. Protein binding

Correct Answer: D

QUESTION 5

Which of the following drugs is a histamine blocker and reduces levels of gastric acid?

- A. Omeprazole (Prilosec)
- B. Metoclopramide (Reglan)
- C. Cimetidine (Tagamet)
- D. Magnesium Hydroxide (Maalox)

Correct Answer: C