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**QUESTION 1**

Which of the following is caused by a Vitamin K deficiency?

- A. Bruising
- B. Optic Nerve degeneration
- C. Anemia
- D. Hemorrhage (infants)

Correct Answer: D

QUESTION 2

A 45-year-old female comes to the physician because of headaches and palpitations. Vitals reveal a blood pressure of 190/140 mm Hg and a heart rate of 105/min. A CT scan of the abdomen is obtained which reveals an adrenal mass. The hormones secreted by the adrenal mass are derived from:

- A. arginine
- B. glutamate
- C. glycine
- D. tryptophan
- E. tyrosine

Correct Answer: E

Explanation:

This patient has an adrenal pheochromocytoma which is the most common adrenal medullary tumor in adults. It usually presents with episodic hypertension, headaches and palpitations. The tumor arises from the sympathetic chromaffin cells in the adrenal gland hence it secretes catecholamines such as epinephrine, norepinephrine and dopamine which are derived from tyrosine.

QUESTION 3

A 3-year-old boy with chronic granulomatous disease is brought to the physician because of a 3-week history of fever and warm, red lumps under both arms. His temperature is 38°C (100.4°F). Physical examination shows enlarged, 3-cm, erythematous axillary lymph nodes bilaterally. On palpation, the nodes are tender, fluctuant, and movable. Examination of a fine-needle aspirate from one of the nodes shows gram-positive cocci in clusters. Cultures of the aspirate grow yellow, β-hemolytic colonies that are catalase and coagulase positive. A polymerase chain reaction test shows mecA-positive organisms. Which of the following is the most appropriate pharmacotherapy for this patient?

- A. Cefazolin



B. Ciprofloxacin

C. Penicillin G

D. Rifampin

E. Vancomycin

Correct Answer: E

QUESTION 4

A 22-year-old woman comes to the office because of a 3-day history of cold symptoms and a 1-week history of progressive fatigue. Six weeks ago, she received a kidney transplant from a living, related donor. Immediately after the operation, she received monoclonal anti-CD3 therapy. Current medications are azathioprine, cyclosporine, and prednisone. Her temperature is 39°C (102.2°F). Physical examination shows a well-healed surgical scar. Serum studies show that her urea nitrogen and creatinine concentrations have tripled. A diagnosis of allograft rejection is suspected. In addition, this patient's clinical presentation is best explained by an infection with which of the following agents?

A. Adenovirus

B. BK virus

C. Epstein-Barr virus

D. Herpes simplex virus

E. Varicella-zoster virus

Correct Answer: B

QUESTION 5

Oligodendrocytes are located in the _____.

A. PNS

B. CNS

Correct Answer: B
