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QUESTION 1

A 59-year-old man is brought to the emergency department because of a 4-day history of nausea, vomiting, and diarrhea. He also has been confused and agitated during this period. He has a history of mild hypertension. His current medication is a diuretic. His temperature is 37°C (98.6°F), pulse is 108/min, respirations are 26/min, and blood pressure is 70/47 mmHg. Physical examination shows delayed capillary refill of the lips and nail beds and cool extremities. His oxyhemoglobin saturation in a central vein is 60% (N = 70 - 75). These findings are most consistent with which of the following types of shock?

- A. Cardiogenic
- B. Distributive
- C. Hypovolemic
- D. Obstructive
- E. Septic

Correct Answer: C

QUESTION 2

Which of the following is not true about Type II DM?

- A. Considered adult onset diabetes
- B. Cause unknown may be due to genetics
- C. Require insulin 80% of cases
- D. May take a drug that sensitize cells or increase insulin release

Correct Answer: C

QUESTION 3

Which of the following is paired correctly?

- A. A-G
- B. C-G
- C. A-U
- D. G-T



Correct Answer: B

QUESTION 4

The tip of the sperm is called the _____.

- A. Head
- B. Acrosome
- C. Tail
- D. Nucleus

Correct Answer: B

QUESTION 5

A 17-year-old female is brought to the emergency department by her parents due to right foot pain. She denies recent trauma and has no history of major illnesses. She is physically active and walks for at least one hour daily. She says that she is doing well in high school and gets along well with her parents except that they keep telling her to eat more especially since her boyfriend broke up with her a year ago. Vitals reveal a weight 47.6 kg (105 lbs) and BMI of 16 kg/m². The most likely diagnosis is

- A. conversion disorder
- B. depressive disorder
- C. gonococcal arthritis
- D. injured medial ankle tendon
- E. metatarsal fracture

Correct Answer: E

Explanation: This patient's low BMI and a year long history of poor eating habits are consistent with anorexia nervosa. Anorexic patients have an unreasonable fear of gaining weight and "feel fat" even when overweight and engage in prolonged physical activity in order to lose weight. This patient most likely started eating poorly after her breakup with her boyfriend. Metatarsal stress fractures are a complication of rigorous physical activity in patients with anorexia due to chronic malnourishment which results in low bone density. Other findings include amenorrhea, electrolyte disturbances, lanugo, anemia and coexisting depression. Psychotherapy and nutritional rehabilitation are first line treatments.