3

Water and Electrolytes

Abeed H Chowdhury and Dileep N Lobo

Multiple choice questions

1. What percentage of total body weight (TBW) is formed by the extracellular fluid (ECF)?
   (a) 5%.
   (b) 15%.
   (c) 20%.
   (d) 40%.

2. In healthy individuals, leakage of albumin from the intravascular space occurs at what rate?
   (a) 1%/hour.
   (b) 2%/hour.
   (c) 4%/hour.
   (d) 5%/hour.

3. A patient has suffered severe dehydration due to poor fluid intake. Blood tests reveal a serum sodium concentration of 143 mmol/l. What will happen to renin secretion?
   (a) Increases.
   (b) Decreases.
   (c) Remains the same.
4. In severe starvation, ECF volume is
(a) Increased.
(b) Decreased.
(c) The same.

5. A patient has developed a postoperative wound infection and is vomiting. Features of sepsis, including fever, tachycardia, and a fall in blood pressure, are noted on the observation charts. Blood tests reveal a serum chloride concentration in the normal range. Intravenous fluid therapy should be initiated with
(a) 5% dextrose.
(b) 0.18% saline/4% dextrose.
(c) 0.9% saline.
(d) Hartmann’s solution.