

### QUESTION

1. A patient with a long history of chronic kidney disease (CKD) is being treated with a diuretic. The patient's serum electrolyte levels are as follows:

Electrolyte	Level
Sodium (Na <sup>+</sup> )	135 mEq/L
Potassium (K <sup>+</sup> )	3.0 mEq/L
Calcium (Ca <sup>2+</sup> )	8.5 mg/dL
Magnesium (Mg <sup>2+</sup> )	0.8 mg/dL

2. The patient is also receiving a calcium supplement. The patient's serum calcium level is as follows:

Electrolyte	Level
Calcium (Ca <sup>2+</sup> )	10.0 mg/dL

### ANSWER

The patient's serum electrolyte levels are within normal ranges. The patient's serum sodium level is 135 mEq/L, which is within the normal range of 135-145 mEq/L. The patient's serum potassium level is 3.0 mEq/L, which is within the normal range of 3.5-5.0 mEq/L. The patient's serum calcium level is 8.5 mg/dL, which is within the normal range of 8.5-10.5 mg/dL. The patient's serum magnesium level is 0.8 mg/dL, which is within the normal range of 0.7-1.3 mg/dL.

3. The patient's serum calcium level is 10.0 mg/dL, which is within the normal range of 8.5-10.5 mg/dL.

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