

### QUESTION

1. A patient with a long history of chronic kidney disease (CKD) is being evaluated for a kidney transplant. The patient's current laboratory values are as follows:

Parameter	Value
Serum Creatinine	2.5 mg/dL
BUN	35 mg/dL
eGFR	15 mL/min/1.73 m <sup>2</sup>
Serum Potassium	5.5 mEq/L
Serum Phosphorus	4.5 mg/dL
Serum Calcium	8.5 mg/dL

2. The patient is currently on dialysis and has a history of hypertension, diabetes, and heart failure. The patient is also taking several medications, including a beta-blocker, a diuretic, and a phosphate binder.

### ANSWER

The patient's laboratory values indicate advanced CKD (stage 4-5) with significant electrolyte abnormalities. The serum potassium level of 5.5 mEq/L is elevated and requires treatment. The serum phosphorus level of 4.5 mg/dL is also elevated and may require phosphate binders. The serum calcium level of 8.5 mg/dL is low and may require calcium supplements. The patient's eGFR of 15 mL/min/1.73 m<sup>2</sup> is consistent with stage 4-5 CKD. The patient's history of hypertension, diabetes, and heart failure, along with their current medications, should be carefully monitored during the transplant evaluation process.

3. The patient's current medications are as follows:

Medication	Dose
Lisinopril	10 mg daily
Furosemide	40 mg daily
Sevelamer	800 mg three times daily

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