

QUESTION

1. A patient with a long history of chronic kidney disease (CKD) is admitted to the hospital with acute kidney injury (AKI). The patient's serum creatinine has risen from 2.5 mg/dL to 4.5 mg/dL over the last 48 hours. The patient is on dialysis three times a week. The patient's blood pressure is 180/100 mmHg. The patient's electrolytes are sodium 135 mEq/L, potassium 5.5 mEq/L, calcium 8.5 mg/dL, and phosphate 6.5 mg/dL. The patient's urine output is 200 mL over the last 24 hours. The patient's physical examination is unremarkable. The patient's chest X-ray is normal. The patient's electrocardiogram (ECG) shows sinus tachycardia. The patient's renal ultrasound shows bilateral hydronephrosis. The patient's renal biopsy shows glomerular disease. The patient's renal biopsy shows glomerular disease.

Parameter	Normal Range	Patient Value
Serum Creatinine	0.7-1.3 mg/dL	4.5 mg/dL
Serum Sodium	136-145 mEq/L	135 mEq/L
Serum Potassium	3.5-5.0 mEq/L	5.5 mEq/L
Serum Calcium	8.8-10.0 mg/dL	8.5 mg/dL
Serum Phosphate	2.5-4.5 mg/dL	6.5 mg/dL
Urine Output	>30 mL/hr	200 mL/24hr

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ANSWER



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