

QUESTION

1. A patient with a long history of chronic kidney disease (CKD) is being prepared 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
Calcium	8.5 mg/dL
Phosphorus	5.5 mg/dL
Potassium	3.0 mEq/L
Sodium	135 mEq/L

2. The patient is currently on a regimen of dialysis. The dialysis prescription is as follows:

Parameter	Value
Dialyzer	FX800
Flow Rate	350 mL/min
Time	4 hours
Temperature	36°C
Conductivity	140 mS/cm
pH	7.35
Calcium	1.5 mmol/L
Magnesium	0.5 mmol/L
Potassium	2.0 mmol/L
Sodium	135 mmol/L
Bicarbonate	35 mmol/L

3. The patient is also on a regimen of medications. The medication list is as follows:

Medication	Dose	Frequency
Calcium	1000 mg	PO BID
Phosphorus	1000 mg	PO BID
Potassium	40 mEq	PO BID
Sodium	100 mEq	PO BID
Bicarbonate	100 mEq	PO BID

ANSWER

1. The patient's laboratory values indicate severe CKD. The serum creatinine is significantly elevated, and the BUN is also elevated. The calcium, phosphorus, potassium, sodium, and bicarbonate levels are all within normal limits.

2. The dialysis prescription is appropriate for the patient's condition. The dialyzer flow rate is high, and the dialysis time is long. The dialysis temperature is low, and the dialysis conductivity is high. The dialysis pH is low, and the dialysis calcium, magnesium, potassium, sodium, and bicarbonate levels are all within normal limits.

3. The medication list is appropriate for the patient's condition. The patient is on a regimen of calcium, phosphorus, potassium, sodium, and bicarbonate supplements. The doses and frequencies are all appropriate.

4. The patient's current laboratory values and dialysis prescription are appropriate for the patient's condition.

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