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# Nephrology Clinical Reference Guide
### Chronic Kidney Disease (CKD)
- **Stages**: G1 (Normal) to G5 (ESRD).
- **Management**:
- BP target <130/80 mmHg (ACE inhibitors preferred).
- Avoid NSAIDs, contrast dyes, nephrotoxins.
 - Dietary: Low sodium (2g/day), protein restriction if G4+.
### Acute Kidney Injury (AKI)
- **Causes**: Hypovolemia, sepsis, obstruction.
- **Treatment**:
- IV fluids (normal saline if hypovolemic).
- Discontinue nephrotoxic drugs (e.g., vancomycin).
 - Monitor urine output, electrolytes.
### Hyperkalemia (K+ >5.0 mEq/L)
- **Emergency**: K+ >6.0 \rightarrow ECG changes (peaked T waves).
- **Treatment**:
- Calcium gluconate (cardioprotection).
 - Insulin + glucose, Kayexalate, dialysis if severe.
### Fluid Overload (CKD/ESRD)
- **Symptoms**: Edema, hypertension, crackles on lung exam.
- **Action**:
- Restrict fluids to 1-1.5L/day.
 - Diuretics (Furosemide 40mg IV/oral).
### Nephrotic Syndrome
- **Diagnosis**: Proteinuria >3.5g/day, hypoalbuminemia.
- **Treatment**:
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- Prednisone 1mg/kg/day for 4-12 weeks.

- ACE inhibitors for proteinuria.

## ### Dialysis Indications

- \*\*Absolute\*\*: K+ >6.5, uremic encephalopathy, refractory fluid overload.
- \*\*ESRD\*\*: eGFR <15 mL/min.

## ### Common Nephrology Medications

- \*\*ACE Inhibitors\*\*: Lisinopril (CKD, hypertension).
- \*\*Diuretics\*\*: Furosemide (fluid overload).
- \*\*ESRD\*\*: Epoetin alfa (anemia), phosphate binders.