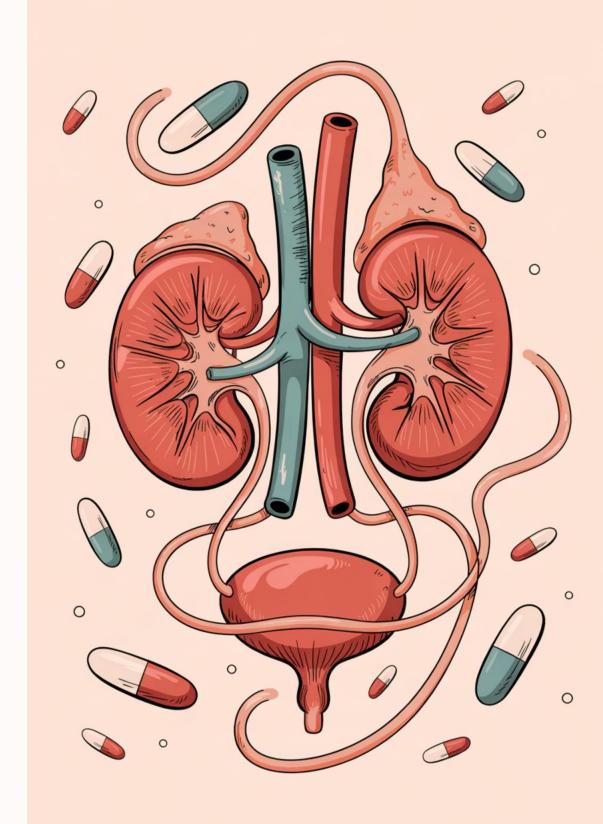
Renal/Genitourinary System Medications

Key medications for treating renal and genitourinary conditions, their mechanisms, nursing considerations, and patient education points.

G by Miranda Ekenjock





Loop Diuretics



Furosemide

Inhibits sodium/chloride reabsorption in loop of Henle



Uses

Edema, hypertension, heart failure, renal disease



Nursing Care

Monitor electrolytes, BP, hydration status



Caution

Risk of hypokalemia with digoxin, corticosteroids

Thiazide Diuretics

GD

Mechanism

Inhibits reabsorption in distal tubules



Indication

Hypertension, edema



Timing

Take in morning to prevent nighttime urination



Monitor

Electrolytes, especially sodium and potassium



Potassium-Sparing Diuretics



ACE Inhibitors

Mechanism Inhibits angiotensin-converting enzyme Protection Beneficial in diabetic nephropathy Side Effect Report persistent dry cough

Angiotensin II Receptor Blockers

Mechanism

Blocks angiotensin II receptors

Indications

Hypertension, heart failure, diabetic nephropathy

Nursing Care

Monitor BP, renal function, potassium levels

Patient Teaching

Avoid potassium supplements; report dizziness

Angiotensin II receptor blockers

-sartan

- ARBs
 - Antagonize angiotensin II receptor → block action of angiotensin II
 - Don't work well w/ blacks
 - Not for 2 or 3 trimester
 - SE
 - · Dizziness, HA, fatigue
 - Drugs:
 - Losartan [Cozaar]
 - · Valsartan [Diovan]
 - Irbesartan [Avapro]
 - Candesartan [Atacand]

Phosphate Binders



Binding

Binds phosphate in intestines

2

Indication

Hyperphosphatemia in chronic kidney disease



Administration

Take with meals

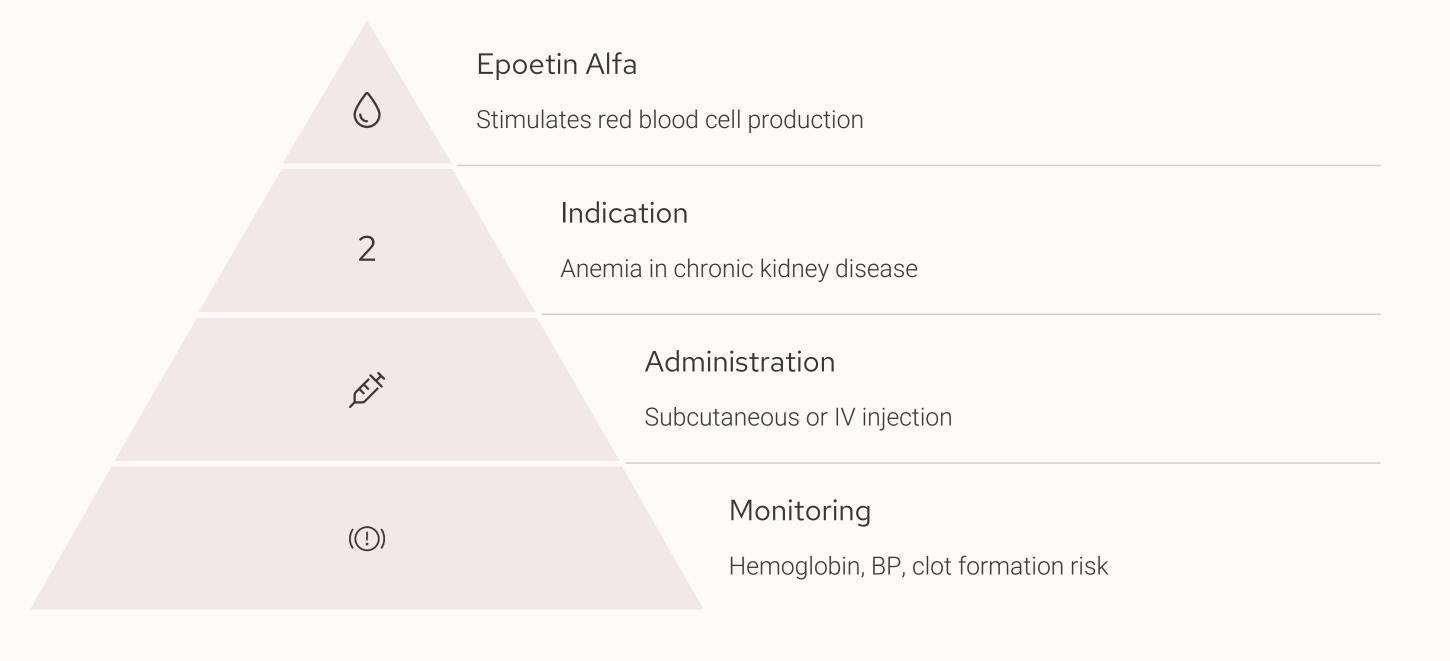


Monitoring

Check phosphate and calcium levels



Erythropoiesis-Stimulating Agents





Anticholinergics for Bladder Control



Mechanism

Relaxes bladder smooth muscle



Indication

Overactive bladder, urinary incontinence



Patient Teaching

Drink plenty of water; watch for dry mouth



Caution

May cause drowsiness; avoid driving

Medications for Benign Prostatic Hyperplasia



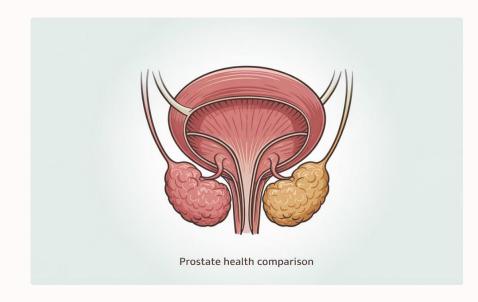
Alpha-Blockers

Relaxes smooth muscle in prostate; improves urine flow



5-Alpha Reductase Inhibitors

Inhibits DHT formation; shrinks prostate



Treatment Goals

Improve symptoms; prevent complications