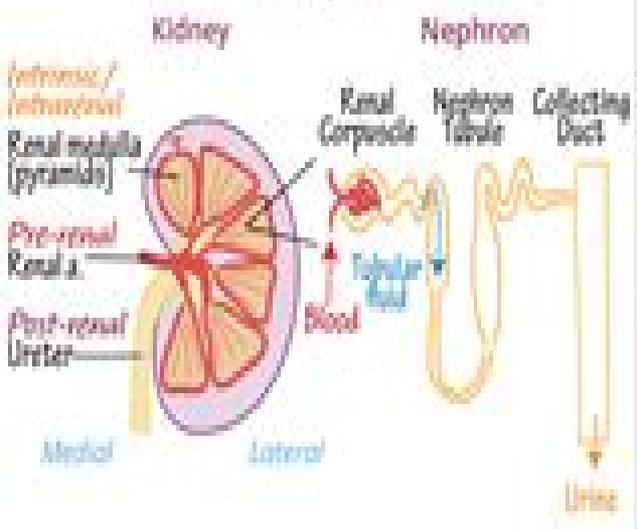




RENAL PATHOLOGY OVERVIEW

ANATOMY



RENAL FAILURE

Excess retention of nitrogenous waste products & electrolyte disturbances

- Metabolic Acidosis
- Dyslipidemia
- Hyperkalemia
- Uremia
- $\text{Na}^+/\text{H}_2\text{O}$ retention (w/ HF, pulm. edema, HTN)
- Growth retardation/ dev. delay
- Erythropoietin deficiency (anemia)
- Renal osteodystrophy

ACUTE KIDNEY INJURY: ↑ Creatinine ↓ Urine volume.

Pre-renal (hemodynamics):

- Intravascular volume depletion
- Bilateral renal stenosis
- Heart failure
- ACE inhibitors, ARBs
- Hypotension

Intrinsic/Intra-renal

- Vascular: vasculitis, malignant hypertension, TTP-HUS
- Glomerular:
 - Nephrotic syndrome: focal segmental glomerulosclerosis, membranous nephropathy, minimal change disease
 - Nephritic syndrome: Infection-associated, IgA nephropathy, Anti-GBM, etc.
- Tubular: Acute tubular necrosis
- Interstitial: Acute interstitial nephritis
- Urine $\text{Na}^+ > 40 \text{ mEq/L}$, $\text{FeNa} > 2\%$

Post-renal (obstructive)

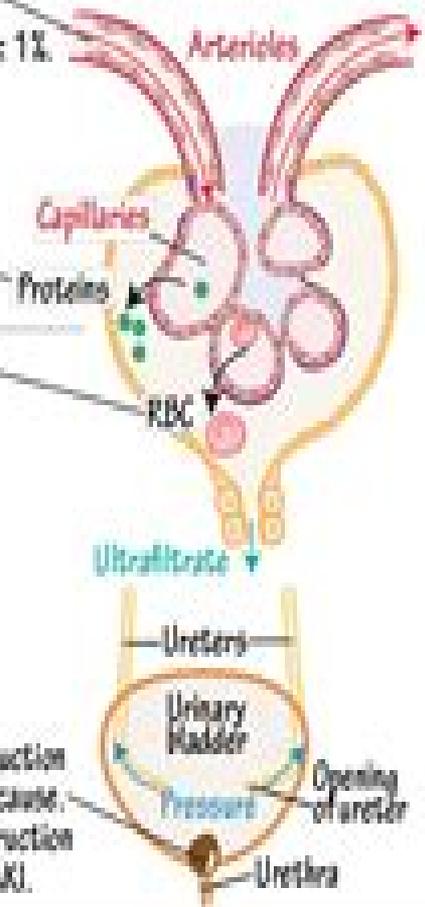
- Congenital: renal dysplasia
- Tumors (prostate, etc. cause compression)
- Stones: calcium, ammonium magnesium phosphate, uric acid, cystine.
- Infection

CHRONIC KIDNEY INJURY

- Diabetes
- 1° Glom. nephritis
- Hypertension (2° Glom. nephritis)
- AD polycystic kidney disease

Azotemia = Inc Blood Urea Nitrogen (BUN), creatinine, other waste products in the blood.

- ↓ Renal Blood Flow = ↓ GFR
- Urine $\text{Na}^+ < 20 \text{ mEq/L}$, $\text{FeNa} < 1\%$
- SCr drops with fluid admin.



- Bladder outlet obstruction is the most common cause.
- Unilateral renal obstruction less often assoc. w/ AKI.

Uremia = Azotemia that leads to cluster of signs/symptoms in various body systems. Usually in CK, can be AKI

End-Stage Renal Disease = GFR is < 5% normal. Terminal stage of uremia.



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