Acute Renal Failure

Definition:

- Abrupt decline in renal function: >50% in hours/days
- May or may not have decreased urine output
- Detected by increased serum creatinine and BUN and decline in GFR

Etiology:

- Pre-Renal: dehydration, hypotension, NSAID, ACE-I, ARB
- Renal: Acute Tubular Necrosis (ischemia, drugs), Acute Interstitial Nephritis (drugs, UTI, SLE), Glomerulonephritis, intratubular obstruction (multiple myeloma etc.)
- Post-Renal: Nephrolithiasis, BPH, pregnancy, malignancy, blood clots, neurogenic bladder, fecal impaction

Treatment:

Depends upon etiology and acuity:

- Identification of a low GFR does not mandate ED referral
- Identification of sudden decrease in renal function (>50% in hours/days), or identification of a condition anticipated to cause sudden decrease in renal function, **refer to the ED**

If renal failure is:

Acute (onset within hours/days)	 Refer to the ED for work-up and consideration of Internal Medicine hospital admission Most common cause of early death is hyperkalemia and pulmonary edema
Subacute or chronic	 Initiate workup with labs, renal US Stop possible offending medications (NSAID, ACE-I, ARB, diuretic etc.) Initiate outpatient Internal Medicine/Nephrology referral
	Resources



Have feedback? Scan here:



