Definitions

- Oliguria: Decreased urine output values
- Uraemia: Raised level of urea in the blood
- Azotaemia: Raised level of nitrogenous compounds in the blood
- NSAIDs: Non-steroidal anti-inflammatory drugs
- Intrinsic: Originating due to factors caused within the body
- Benign: No harmful effects
- Malignant: Dangerous/harmful effects
- Hypoperfusion: Sudden reduction to blood flow to the kidneys
- **GFR:** Glomerular Filtration Rate
- Eosinophiluria: Eosinophils in the urine
- Haematuria: Blood in the urine

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Creatinine clearance

U = Urine orgalini le conc. umol/l V = Urine flow rate mL/min**

P = Plasma creatinine conc. umol/L

** urine collection is the main source of error in calculating creatinine concentration/remember to calculate flow rate per minute - usually expressed in 24 hrs (aka 1440 minutes) (V/1440 = V mL/min)

Estimated GFR (eGFR aka Cockcroft-Gault equation): ((140 – AGE in years) x WEIGHT in kg)/plasma creatinine umol/L = X mL/min

eGFR is invalid for people who are pregnant, >18yo, or extremes in body mass (anorexia/obesity)

Underweight BMI = <18.5 Normal BMI = 18.5 - 24.9Overweight BMI = >25

Diagnosis example

This patient is suffering from acute kidney injury (AKI). The aetiology of AKI is prerenal/intrinsic/post-renal. Despite rapid loss of renal function AKI is potentially reversible and normal renal function can be regained if patient survives initial acute illness.