

Creatinine clearance (CrCl)

The eGFR can be used as a quick estimate for calculating initial doses.
A more accurate estimate can be obtained using the Cockcroft-Gault equation
(N=1.23 males, 1.04 females)

$$\text{CrCl (ml/min)} = \frac{N \times [140 - \text{age (years)}] \times \text{Wt}^\#(\text{kg})}{\text{Serum creatinine (micromol/L)}}$$

#Ideal Body Weight (IBW)

Use IBW if actual weight > 120 % IBW

$$\text{IBW (kg)} = 50 \text{ kg (male) or } 45 \text{ kg (female)} + 1 \text{ kg per cm over } 152 \text{ cm}$$

Dose Determining Weight (DDW)

Use DDW for Gentamicin and Amikacin prescriptions if actual body weight > 120% IBW

$$\text{DDW (kg)} = \text{IBW} + 0.4 (\text{Actual weight} - \text{IBW})$$