

## INDICATION

Provides an estimation of kidney function to allow stratification (CKD). Less reliable at extremes of weight but remains widely used.

## ADDITIONAL INFORMATION

CrCl may over-estimate glomerular filtration rate (GFR) by 10-20%.

Cockcroft-Gault equation is based on actual body weight but has been shown to less accurate in weight extremes. Depending on BMI, a CrCl range can be calculated using both actual and ideal/adjusted body weights.

BMI	Body weight use
< 18.5	ABW (no range)
18.5 - 24.9	CrCl Range: IBW - BW
≥ 25	CrCl Range: AdBW - BW

*BW = (actual) Body weight*

*IBW = Ideal body weight*

*AdBW = Adjusted body weight*

## INTERPRETATION

**Normal MALE CrCl = 110 - 150mL/min**

**Normal FEMALE CrCl = 110 - 150mL/min**

## CALCULATION

### Cockcroft-Gault equation

$$\text{MALE CrCl}_{\text{mL/min}} = ((140 - \text{Age}_{\text{years}}) \times \text{Weight}_{\text{kg}}) / (0.814 \times \text{Creatinine}_{\mu\text{mol/L}})$$

$$\text{FEMALE CrCl}_{\text{mL/min}} = ((140 - \text{Age}_{\text{years}}) \times \text{Weight}_{\text{kg}} \times 0.85) / (0.814 \times \text{Creatinine}_{\mu\text{mol/L}})$$