

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 - 150_{mL/min}

Normal FEMALE CrCl = 110 - 150_{mL/min}

CALCULATION

Cockcroft-Gault equation

MALE CrCl_{mL/min} = ((140 - Age_{years}) x Weight_{kg}) / (0.814 x Creatinine_{μmol/L})

FEMALE CrCl_{mL/min} = ((140 - Age_{years}) x Weight_{kg} x 0.85) / (0.814 x Creatinine_{μmol/L})