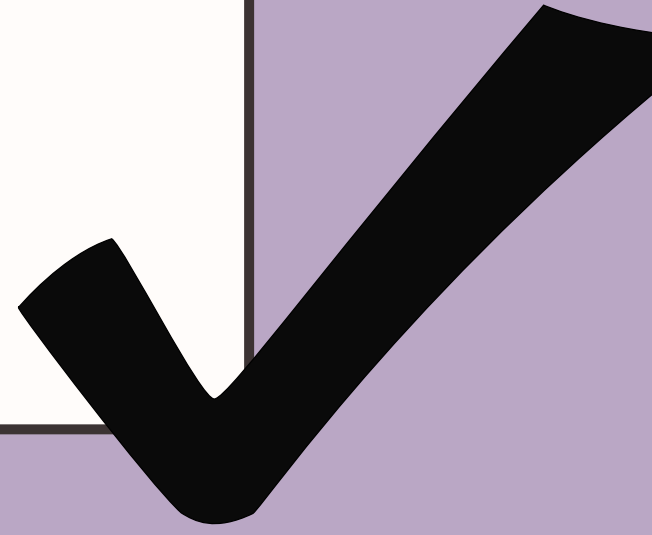




GET YOUR FIRST DOSE RIGHT



A correct first dose of gentamicin or vancomycin will facilitate more rapid attainment of therapeutic target range

Failure to calculate the correct first dose could lead to toxicity or under-dosing

GENTAMICIN

Empiric gentamicin dosing recommendations for ADULTS

Use ideal body weight (IBW) or actual body weight (ABW), whichever is less. For obese patients (BMI 30-34.9 kg/m²) use adjusted body weight (AdjBW) up to 100 kg:
 $AdjBW = IBW + [0.4 \times (ABW - IBW)]$
 For BMI ≥ 35 kg/m², seek expert advice.
 ^Round dose to the nearest multiple of 40mg.

Creatinine clearance (CrCl)	Dose [^]	
	Non-critically ill (max dose 500mg)	Critically ill (max dose 700mg)
>60 ml/min	4-5 mg/kg	7 mg/kg
40-60 ml/min	4-5 mg/kg	5 mg/kg
<40 ml/min	4 mg/kg	4 mg/kg

To view the **Aminoglycosides: Recommendations for Use, Dosing and Monitoring Clinical Guideline** for advice on subsequent dosing and monitoring, scan the QR code or go to www.sahealth.sa.gov.au/antimicrobials.

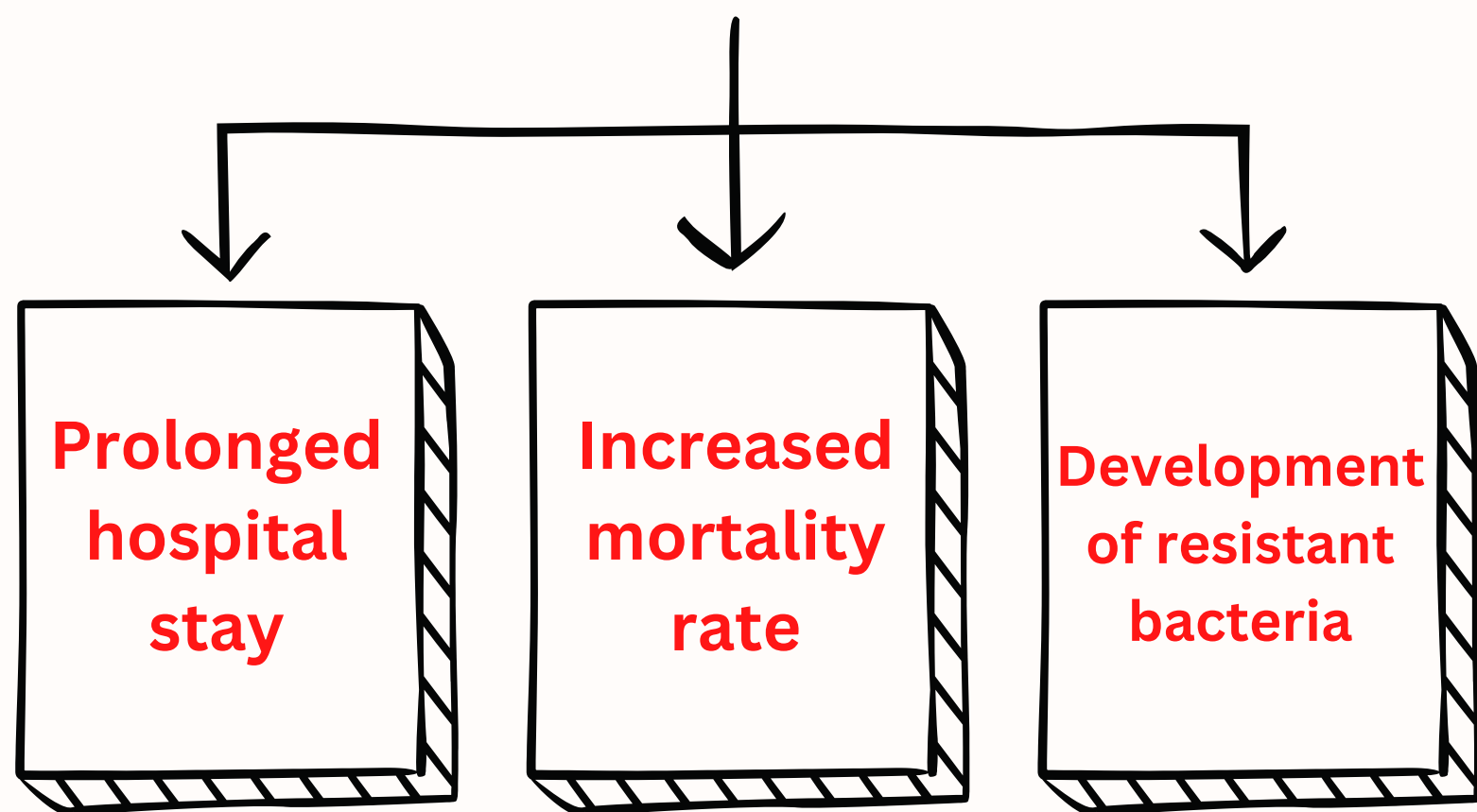


Ideal body weight (IBW) estimation

Height (cm)	Height (ft/in)	IBW (kg) Male	IBW (kg) Female
155	5'1"	53	48
160	5'3"	57	53
165	5'5"	62	57
170	5'7"	66	62
175	5'9"	71	66
180	5'11"	76	71
185	6'1"	80	76
190	6'3"	85	80
195	6'4"	89	84

IBW (female) = 45.5 kg + 0.9 kg per cm over 152 cm
 IBW (male) = 50 kg + 0.9 kg per cm over 152 cm

Sub-therapeutic first dose can lead to:



VANCOMYCIN

Vancomycin loading dose recommendations for ADULTS

Actual body weight (kg)	Loading dose (grams)
40 - 44 kg	1 g
45 - 54 kg	1.25 g
55 - 64 kg	1.5 g
65 - 79 kg	2 g
80 - 119 kg <u>or</u> ≥ 120 kg & CrCl <60 ml/min	2.5 g
≥ 120 kg & CrCl ≥ 60 ml/min	3 g (maximum dose)

To view the **Vancomycin Dosing and Monitoring in Adults Clinical Guideline** for advice on subsequent dosing and monitoring, scan the QR code or go to www.sahealth.sa.gov.au/antimicrobials.

