

Antibiotic Dosing in Obesity for Weight-Based Antimicrobials

Dosing weight recommendations listed are general recommendations based on limited data and literature cited. Dosing in serious infections should always be determined on a case by case basis in consultation with the ASP pharmacist.

Drug	Dosing weight			Comments
	ABW	IBW	AdjBW	
Acyclovir			X	Max dose: 20mg/kg every 8 h
Aminoglycosides			X	
Amphotericin B			X	
Cidofovir		X		Limited data; pharmacokinetic values in non-obese patients suggest limited distribution into adipose tissue.
Ethambutol		X		
Foscarnet			X	
Ganciclovir			X	
Pyrazinamide		X		
Rifampin		X		
Trimethoprim/ Sulfamethoxazole			X	
Vancomycin	X			Max daily dose = 4 g Max per dose = 2 g Dosing in obesity is based on actual body weight; AUC dosing should be considered.
Voriconazole			X	Strong association noted between supra-therapeutic concentrations and morbidly obese patients when dosed at 4 mg/kg actual body weight.

** Case by case dosing should be applied to patients who fall outside of the parameters of study patients. Please page ID pharmacy to discuss patient-specific dosing recommendations.

Males: 50 kg + 2.3 kg [height (inches) – 60]

Females: 45.5 kg +2.3 kg [height (inches) – 60]

ABW – actual body weight

IBW – ideal body weight

AdjBW- adjusted body weight = $IBW + 0.4 (ABW - IBW)$

AUC – area under the curve

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