



**Adult Antimicrobial Weight Based Dosing**

<b>Drug</b>	<b>Dosing Weight</b>	<b>Dosing Weight in Obesity</b>
Vancomycin	Total body weight	Total body weight
Gentamicin	Ideal body weight	Adjusted body weight
Amikacin	Ideal body weight	Adjusted body weight
Acyclovir	Ideal body weight	Ideal body weight
Polymyxin B	Ideal body weight	Adjusted body weight
TMP/SMX	Total body weight	*Adjusted body weight
Daptomycin	Total body weight	Adjusted body weight
Liposomal amphotericin B	Total body weight	*Adjusted body weight
Voriconazole	Total body weight	Adjusted body weight
Flucytosine	*Ideal body weight	*Ideal body weight
Ganciclovir	*Total body weight	*Adjusted body weight

In all cases, if Total body weight (TBW) < Ideal body weight (IBW) use TBW as dosing weight  
\* = limited data available

**Definitions**

Total body weight (TBW)

- Patient's actual weight

Ideal body weight (IBW)

- IBW (male) = 50 kg + (2.3 x height in inches > 60 inches)
- IBW (female) = 45 kg + (2.3 x height in inches > 60 inches)

Adjusted body weight (AdjBW)

- AdjBW (kg) = IBW + 0.4 (TBW – IBW)

Obesity

- Total body weight > 130% of ideal body weight

**Adult Antimicrobial Dose Rounding**

<b>Drug</b>	<b>Round to...</b>	<b>Dosage forms</b>
Vancomycin	Nearest 250 mg	500, 750, 1000 mg vials
Gentamicin	Nearest 10 mg	10 mg/ml and 40 mg/ml vial
Amikacin	Nearest 50 mg	250 mg/ml vial
Acyclovir	Nearest 50 mg	50 mg/ml vial
Polymyxin B	Nearest 50,000 units or 5 mg	500,000 unit vial (50,000 units/ml)
TMP/SMX	Nearest 20 mg	TMP 16 mg/ml vial
Daptomycin	Nearest 50 mg	500 mg vial (50 mg/ml)
Liposomal amphotericin B	Nearest 25 mg	50 mg vial (4 mg/ml)
Voriconazole	Nearest 50 mg	200 mg vial (10 mg/ml)
Ganciclovir	Nearest 50 mg	500 mg vial (50 mg/ml)

**References**

- 1) Janson B, Thursky K. Dosing of antibiotics in obesity. *Curr Opin Infect Dis.* 2012 Dec;25(6):634-49.
- 2) Polso AK, Lassiter JL, Nagel JL. Impact of hospital guideline for weight-based antimicrobial dosing in morbidly obese adults and comprehensive literature review. *J Clin Pharm Ther.* 2014 Dec;39(6):584-608.