

## Dosages

EUCAST Clinical Breakpoint Tables v. 9.0, valid from 2019-01-01

**EUCAST breakpoints are based on the following dosages (see section 8 in Rationale Documents). Alternative dosing regimens which result in equivalent exposure are acceptable. The table should not be considered an exhaustive guidance for dosing in clinical practice, and does not replace specific local, national, or regional dosing guidelines.**

Penicillins	Standard dose	High dose	Special situations
Benzylpenicillin	0.6 g [ $1\text{ MU}$ ] x 4 iv	1.2 g [ $2\text{ MU}$ ] x 4-6 iv	Meningitis: For a dose of 2.4 g [ $4\text{ MU}$ ] x 6 iv, isolates with $\text{MIC} \leq 0.06\text{ mg/L}$ are susceptible. <i>Pneumonia caused by S. pneumoniae:</i> breakpoints are related to dosage: For a dose of 1.2 g [ $2\text{ MU}$ ] x 4 iv, isolates with $\text{MIC} \leq 0.5\text{ mg/L}$ are susceptible. For a dose of 2.4 [ $4\text{ MU}$ ] g x 4 iv or 1.2 g [ $2\text{ MU}$ ] x 6 iv, isolates with $\text{MIC} \leq 1\text{ mg/L}$ are susceptible. For a dose of 2.4 g [ $4\text{ MU}$ ] x 6 iv, isolates with $\text{MIC} \leq 2\text{ mg/L}$ are susceptible.
Ampicillin	2 g x 3 iv	2 g x 4 iv	Meningitis: 2 g x 6 iv
Ampicillin-sulbactam	(2 g ampicillin + 1 g sulbactam) x 3 iv	(2 g ampicillin + 1 g sulbactam) x 4 iv	
Ampicillin iv	1 g x 3-4 iv Under review	2 g x 6 iv	Meningitis: 2 g x 6 iv
Amoxicillin oral	0.5 g x 3	0.75 g - 1 g x 3	<i>H. influenzae:</i> High dose only
Amoxicillin-clavulanic acid iv	(1 g amoxicillin + 0.2 g clavulanic acid) x 3-4 iv Under review	(2 g amoxicillin + 0.2 g clavulanic acid) x 3 iv	
Amoxicillin-clavulanic acid oral	(0.5 g amoxicillin + 0.125 g clavulanic acid) x 3	(0.875 g amoxicillin + 0.125 g clavulanic acid) x 3	<i>H. influenzae:</i> High dose only
Piperacillin	4 g x 3 iv	4 g x 4 iv	<i>Pseudomonas spp.:</i> High dose only
Piperacillin-tazobactam	(4 g piperacillin + 0.5 g tazobactam) x 3 iv	(4 g piperacillin + 0.5 g tazobactam) x 4 iv	<i>Pseudomonas spp.:</i> High dose only
Ticarcillin	3 g x 4 iv	3 g x 6 iv	<i>Pseudomonas spp.:</i> High dose only
Ticarcillin-clavulanic acid	(3 g ticarcillin + 0.1/0.2 g clavulanic acid) x 4 iv	(3 g ticarcillin + 0.1 g clavulanic acid) x 6 iv	<i>Pseudomonas spp.:</i> High dose only
Phenoxymethylpenicillin	0.5-2 g x 3-4 oral depending on species and/or infection type	None	
Oxacillin	1 g x 4 iv	1 g x 6 iv	
Cloxacillin	0.5 g x 4 oral or 1 g x 4 iv	1 g x 4 oral or 2 g x 6 iv	
Dicloxacillin	0.5-1 g x 4 oral or 1 g x 4 iv	2 g x 4 oral or 2 g x 6 iv	
Flucloxacillin	1 g x 3 oral or 2 g x 4 iv (or 1 g x 6 iv)	1 g x 4 oral or 2 g x 6 iv	
Mecillinam	0.2 g x 3 oral	0.4 g x 3 oral	

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	<b>Standard dose</b>	<b>High dose</b>	<b>Special situations</b>
<b>Cephalosporins</b>			
Cefaclor	0.25-1 g x 3 oral depending on species and/or infection type	None	<i>Staphylococcus</i> spp.: Minimum dose 0.5 g x 3
Cefadroxil	0.5-1 g x 2 oral depending on species and/or infection type	None	
Cefalexin	0.25-1 g x 2-3 oral depending on species and/or infection type	None	
Cefazolin	1 g x 3-4 (or 2 g x 3) iv depending on species and/or infection type	None	
Cefepime	1 g x 3 or 2 g x 2 iv	2 g x 3 iv	<i>Pseudomonas</i> spp.: High dose only
Cefixime	0.2-0.4 g x 2 oral	None	Gonorrhoea: 0.4 g oral as a single dose
<b>Cefotaxime</b>	1 g x 3 iv	2 g x 3 iv	Meningitis: 2 g x 4 iv <i>S. aureus</i> : High dose only <u>General:</u> 0.5 g + m-as-a-single-dose
Cefpodoxime	0.1-0.2 g x 2 oral depending on species and/or infection type	None	
<b>Ceftaroline</b>	0.6 g x 2 iv over 1 hour	0.6 g x 3 iv over 2 hours	<i>S. aureus</i> in complicated skin and skin structure infections: There is some PK-PD evidence to suggest that isolates with MICs of 4 mg/L could be treated with high dose.
<b>Ceftazidime</b>	1 g x 3 iv	2 g x 3 iv or 1 g x 6 iv	<i>Pseudomonas</i> spp.: High dose only
Ceftazidime-avibactam	(2 g ceftazidime + 0.5 g avibactam) x 3 over 2 hours	None	
Ceftibutene	0.4 g x 1 oral	None	
<b>Ceftobiprole</b>	0.5 g x 3 iv over 2 hours	None	
Ceftolozane-tazobactam	(1 g ceftolozane + 0.5 g tazobactam) x 3 iv over 1 hour	Under evaluation	
Ceftriaxone	1 g x 1 iv	2 g x 2 iv	Meningitis: 4 g x 1 iv <i>S. aureus</i> : High dose only <u>General:</u> 0.5 g + m-as-a-single-dose
<b>Cefuroxime iv</b>	0.75 g x 3 iv	1.5 g x 3 iv	<i>E. coli</i> , <i>Klebsiella</i> spp. (except <i>K. aerogenes</i> ), <i>Rauvolfia</i> spp. and <i>P. mirabilis</i> : High dose only
Cefuroxime oral	0.25-0.5 g x 2 oral depending on species and/or infection type	None	

	<b>Standard dose</b>	<b>High dose</b>	<b>Special situations</b>
<b>Carbapenems</b>			
Doripenem			
Ertapenem	1 g x 1 iv over 30 minutes	None	
Imipenem	0.5 g x 4 iv over 30 minutes	1 g x 4 iv over 30 minutes	<i>Pseudomonas</i> spp.: High dose only <i>Aeromonas</i> spp.: High dose-only
Meropenem	1 g x 3 iv over 30 minutes	2 g x 3 iv over 3 hours	Meningitis: 2 g x 3 iv over 30 minutes (or 3 hours)
Meropenem-vaborbactam	(2 g meropenem + 2 g vaborbactam) x 3 iv over 3 hours	None	
<b>Monobactams</b>			
Aztreonam	1 g x 3 iv	2 g x 4 iv	<i>Pseudomonas</i> spp.: High dose only

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<b>Fluoroquinolones</b>	<b>Standard dose</b>	<b>High dose</b>	<b>Special situations</b>
<b>Ciprofloxacin</b>	0.5 g x 2 oral or 0.4 g x 2 iv	0.75 g x 2 oral or 0.4 g x 3 iv	<i>Pseudomonas</i> spp.: High dose only <i>Aerinetobacter</i> spp.: High dose only <i>Staphylococcus</i> spp.: High dose only + combination Genitrope: 0.5 mg/kg as a single dose
<b>Levofloxacin</b>	0.5 g x 1 oral or 0.5 g x 1 iv	0.5 g x 2 oral or 0.5 g x 2 iv	<i>Pseudomonas</i> spp.: High dose only <i>Aerinetobacter</i> spp.: High dose only <i>Streptococcus</i> groups A, B, C and G: High dose only <i>S. pneumoniae</i> : High dose only
<b>Moxifloxacin</b>	0.4 g x 1 oral or 0.4 g x 1 iv	None	
<b>Norfloxacin</b>	0.4 g x 2 oral	None	
<b>Ofloxacin</b>	0.2 g x 2 oral or 0.2 g x 2 iv	0.4 g x 2 oral or 0.4 g x 2 iv	<i>Staphylococcus</i> spp.: High dose only + combination

<b>Aminoglycosides</b>	<b>Standard dose</b>	<b>High dose</b>	<b>Special situations</b>
<b>Aminikacin</b>	20 mg/kg x 1 iv	30 mg/kg x 1 iv	Enterobacteriales: High dose only <i>Pseudomonas</i> spp.: High dose only
<b>Gentamicin</b>	5 mg/kg x 1 iv	7 mg/kg x 1 iv	Enterobacteriales: High dose only <i>Pseudomonas</i> spp.: High dose only <i>Aerinetobacter</i> spp.: High dose only
<b>Netilmicin</b>	5 mg/kg x 1 iv	7 mg/kg x 1 iv	Enterobacteriales: High dose only <i>Pseudomonas</i> spp.: High dose only <i>Aerinetobacter</i> spp.: High dose only
<b>Tobramycin</b>	5 mg/kg x 1 iv	7 mg/kg x 1 iv	Enterobacteriales: High dose only <i>Pseudomonas</i> spp.: High dose only <i>Aerinetobacter</i> spp.: High dose only

<b>Glycopeptides and lipoglycopeptides</b>	<b>Standard dose</b>	<b>High dose</b>	<b>Special situations</b>
<b>Dabavancin</b>	1 g x 1 iv over 30 minutes on day 1 If needed, 0.5 g x 1 iv over 30 minutes on day 8 1.2 g x 1 (single dose) iv over 3 hours	None	
<b>Oritavancin</b>		None	
<b>Tigecoplanin</b>	0.4 g x 1 iv	0.8 g x 1 iv	
<b>Telavancin</b>	10 mg/kg x 1 iv over 1 hour	None	
<b>Vancomycin</b>	0.5 g x 4 iv or 1 g x 2 iv or 2 g x 1 by continuous infusion	None	Based on body weight. Therapeutic drug monitoring should guide dosing.

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	<b>Standard dose</b>	<b>High dose</b>	<b>Special situations</b>
<b>Macrolides, lincosamides and Streptogramins</b>			
Azithromycin	0.5 g x 1 oral or 0.5 g x 1 iv	None	
Clastrromycin	0.25 g x 2 oral	0.5 g x 2 oral	Gonorrhoea: 2 g oral as a single dose
Erythromycin	0.5 g x 2-4 oral or 0.5 g x 2-4 iv	1 g x 4 oral or 1 g x 4 iv	
Roxithromycin	0.15 g x 2 oral	None	
Telithromycin	0.8 g x 1 oral	None	
Clinidamycin	0.3 g x 2 oral or 0.6 g x 3 iv	0.3 g x 4 oral or 0.9 g x 3 iv	
Quinupristin-dalfopristin	7.5 mg/kg x 2 iv	7.5 mg/kg x 3 iv	

	<b>Standard dose</b>	<b>High dose</b>	<b>Special situations</b>
<b>Tetracyclines</b>			
Doxycycline	0.1 g x 1 oral	0.2 g x 1 oral	
Ervacycline	1 mg/kg x 2 iv	None	
Minoxycline	0.1 g x 2 oral	None	
Tetracycline	0.25 g x 4 oral	0.5 g x 4 oral	
Tigecycline	0.1 g loading dose followed by 50 mg x 2 iv	None	

	<b>Standard dose</b>	<b>High dose</b>	<b>Special situations</b>
<b>Oxazolidinones</b>			
Linzolid	0.6 g x 2 oral or 0.6 g x 2 iv	None	
Tedizolid	0.2 g x 1 oral	None	

	<b>Standard dose</b>	<b>High dose</b>	<b>Special situations</b>
<b>Miscellaneous agents</b>			
Chloramphenicol	1 g x 4 oral or 1 g x 4 iv	2 g x 4 oral or 2 g x 4 iv	
Colistin	4.5 MU x 2 iv with a loading dose of 9 MU	None	<i>Neisseria meningitidis</i> : High dose only
Daptomycin	4 mg/kg x 1 iv	6 mg/kg x 1 iv	
Fosfomycin iv	4 g x 3 iv	8 g x 3 iv	
Fosfomycin oral	3 g x 1 oral as a single dose	None	
Fusidic acid	0.5 g x 2 oral or 0.5 g x 2 iv	0.5 g x 3 oral or 0.5 g x 3 iv	
Metronidazole	0.4 g x 3 oral or 0.4 g x 3 iv	0.5 g x 3 oral or 0.5 g x 3 iv	
Nitrofurantoin	50-100 mg x 3-4 oral	None	Dosing is dependent on drug formulation.
Nitroxoline	0.25 g x 3 oral	None	
Rifampicin	0.6 g x 1 oral or 0.6 g x 1 iv	0.6 g x 2 oral or 0.6 g x 2 iv	
Spectinomycin	2 g x 1 im	None	General: 2 g im as a single dose
Trimethoprim	0.16 g x 2 oral	None	
Trimethoprim-sulfamethoxazole	(0.16 g trimethoprim + 0.8 g sulfa) x 2 oral or (0.16 g trimethoprim + 0.8 g sulfa) x 2 iv	(0.24 g trimethoprim + 1.2 g sulfa) x 2 oral or (0.24 g trimethoprim + 1.2 g sulfa) x 2 iv	<i>Stenotrophomonas maltophilia</i> : High dose only