

Table 8. Adult parenteral antimicrobial dosage guidelines

Antibiotic	Usual Dosages*
ANTIBACTERIAL AGENTS	
<i>Penicillins</i>	
ampicillin	1-2 g q4-6h
cloxacillin	2 g q4-6h
penicillin G	2-4 million units q4-6h
piperacillin-tazobactam	3.375 g q6h
meropenem	500 mg q6h
<i>Cephalosporins</i>	
cefazolin	1-2 g q8h
cefuroxime	0.75-1.5 g q8h
ceftriaxone	1-2 g q24h
ceftazidime	1-2 g q8h
<i>Fluoroquinolones</i>	
ciprofloxacin	400 mg q12h
levofloxacin	500-750 mg q24h
moxifloxacin	400 mg q24h
<i>Macrolides</i>	
azithromycin	500 mg q24h
<i>Aminoglycosides</i>	
gentamicin or tobramycin	80 mg q8h
<i>Others</i>	
clindamycin	600 mg q8h
cotrimoxazole (TMP-SMX)	10-20 mg/kg/day trimethoprim in divided doses q6-8h
metronidazole	500 mg q8h
vancomycin	1 g q12h or 15 mg/kg q12h
ANTIFUNGAL AGENTS	
amphotericin B	0.5-1 mg/kg q24h
fluconazole	100-400 mg q24h
caspofungin	70 mg load then 50 mg q24h
ANTIVIRAL AGENTS	
acyclovir	5-10 mg/kg/dose q8h
ganciclovir	5 mg/kg/dose q12h

* Based on normal renal function in a 70 kg patient.

Table 9. Parenteral to oral conversion suggestions

Parenteral Drug	Oral Therapy Options*
ANTIBACTERIAL AGENTS	
<i>Penicillins</i>	
ampicillin	amoxicillin
cloxacillin	cloxacillin or cephalixin
penicillin G	penicillin V
piperacillin-tazobactam	amoxicillin-clavulanate or cotrimoxazole (TMP-SMX) +/- metronidazole or ciprofloxacin +/- metronidazole
<i>Cephalosporins</i>	
cefazolin	cephalexin or cloxacillin
cefuroxime	cotrimoxazole or amoxicillin-clavulanate or azithromycin/clarithromycin
ceftriaxone	amoxicillin-clavulanate or cephalixin or ciprofloxacin/levofloxacin/moxifloxacin
ceftazidime	ciprofloxacin
<i>Fluoroquinolones</i>	
ciprofloxacin	ciprofloxacin
levofloxacin	levofloxacin
moxifloxacin	moxifloxacin
<i>Macrolides</i>	
azithromycin	azithromycin
<i>Others</i>	
clindamycin	cloxacillin +/- metronidazole or cephalixin +/- metronidazole or clindamycin
ANTIFUNGAL AGENTS	
fluconazole	fluconazole
ANTIVIRAL AGENTS	
acyclovir	acyclovir or valacyclovir

* Patients should be clinically stable, demonstrate clinical improvement, and be able to tolerate oral feeding and medications. Selection of oral therapy should be based on cultures and sensitivities. In absence of useful cultures, oral therapy may be selected based on potential pathogens, community- versus hospital-acquired infection, pharmacokinetics, spectrum of activity, and cost of each oral agent. Oral agents listed above represent those currently on the WRHA Formulary and does not represent all commercially available oral agents.

Table 10. Adult dosing recommendations in renal impairment†

Drug	Creatinine Clearance (CrCl) in mL/min ^b (suggested dosage adjustment based on normal dose)			
Penicillins				
ampicillin	> 30 (q6h)	10-30 (q6-12h)	< 10 (q12h)	
cloxacillin	NO CHANGE NECESSARY			
penicillin	> 50 (q4-6h)	10-50 (q6-8h)	< 10 (20-50% of usual dose) ^a	
piperacillin-tazobactam	> 40 (q6h)	20-40 (q8h)	< 20 (q12h)	
Carbapenems				
meropenem	> 50 (q6h)	30-49 (q8h)	10-29 (q12h)	< 10 (q24h)
Cephalosporins				
cefazolin	> 50 (q8h)	10-50 (q12h)	< 10 (q24h)	
cefuroxime	> 20 (q8h)	10-20 (q12h)	< 10 (q24h)	
ceftriaxone	NO CHANGE NECESSARY			
ceftazidime	> 50 (q8h)	30-50 (q12h)	10-30 (q24h)	< 10 (50% q24-48h)
Aminoglycosides^c				
gentamicin/ tobramycin/ amikacin	Contact the Pharmacist at your facility for dosing assistance			
Fluoroquinolones				
ciprofloxacin	> 30 (q12h)	< 30 (q24h)		
levofloxacin (e.g. CAP)	> 50 (q24h)	20-49 (500 mg load, then 50% q24h)	10-19 (500 mg load, then 50% q48h)	
moxifloxacin	NO CHANGE NECESSARY			
Macrolides				
azithromycin	NO CHANGE NECESSARY			
Antifungal Agents				
fluconazole	> 50 (q24h)	20-50 (50% q24h)	< 20 (25% of usual dose q24h)	
caspofungin	NO CHANGE NECESSARY			
Antiviral Agents				
acyclovir	> 50 (q8h)	25-50 (q12h)	10-25 (q24h)	< 10 (50% q24h)
ganciclovir (induction doses)	50-69 (2.5 mg/kg q12h)	25-49 (2.5 mg/kg q24h)	10-25 (1.25 mg/kg q24h)	< 10 (1.25 mg/kg 3x/wk)
Miscellaneous				
clindamycin	NO CHANGE NECESSARY			
metronidazole	NO CHANGE NECESSARY			
cotrimoxazole (TMP-SMX)	> 25 (q6-8h)	15-25 (50% q6-8h)	< 15 (2.5-5 mg/kg, generally not recommended) ^a	
vancomycin ^d	Contact the Pharmacist at your facility for dosing assistance			

† Suggested dosages – for individualized dosage modifications or more information contact the Pharmacy Department at your facility.
^b To estimate creatinine clearance (CL_{CR}) (mL/min) use the following calculation normalized for a 72 kilogram person.
 CL_{CR} male = $\frac{140 - \text{age}}{72} \times \text{Cr} \times 88.4$ CL_{CR} female = 0.85 x CL_{CR} male
 Cr = serum creatinine (µmoles/L)
^c Monitor serum concentrations.



GRACE HOSPITAL

Grace Hospital Antibiogram for 2023 (Based on data from 2022)

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