



**ANTIMICROBIAL DOSING RECOMMENDATIONS FOR ADULT PATIENTS<sup>1</sup>**

**Antibiotics**

<a href="#">Amikacin IV</a>	<a href="#">Ceftazidime IV</a>	<a href="#">Doxycycline IV/PO</a>	<a href="#">Moxifloxacin IV/PO</a>
<a href="#">Amoxicillin PO</a>	<a href="#">Ceftazidime-avibactam IV</a>	<a href="#">Eravacycline IV</a>	<a href="#">Omadacycline</a>
<a href="#">Amoxicillin-clavulanate PO</a>	<a href="#">Ceftolozane-tazobactam IV</a>	<a href="#">Ertapenem IV</a>	<a href="#">Oxacillin/nafcillin IV</a>
<a href="#">Ampicillin IV</a>	<a href="#">Ceftriaxone IV</a>	<a href="#">Fosfomycin PO</a>	<a href="#">Nitrofurantoin capsules PO</a>
<a href="#">Ampicillin-sulbactam IV</a>	<a href="#">Cefuroxime IV</a>	<a href="#">Gentamicin IV</a>	<a href="#">Nitrofurantoin suspension PO</a>
<a href="#">Azithromycin IV/PO</a>	<a href="#">Cefuroxime PO</a>	<a href="#">Imipenem IV</a>	<a href="#">Penicillin G IV</a>
<a href="#">Aztreonam IV</a>	<a href="#">Cephalexin PO</a>	<a href="#">Imipenem-relebactam IV</a>	<a href="#">Piperacillin-tazobactam IV</a>
<a href="#">Cefazolin IV</a>	<a href="#">Ciprofloxacin IV</a>	<a href="#">Levofloxacin IV/PO</a>	<a href="#">Polymyxin B IV</a>
<a href="#">Cefepime IV</a>	<a href="#">Ciprofloxacin PO</a>	<a href="#">Linezolid IV/PO</a>	<a href="#">Rifampin IV/PO</a>
<a href="#">Cefiderocol IV</a>	<a href="#">Clindamycin IV</a>	<a href="#">Meropenem IV</a>	<a href="#">Tigecycline IV</a>
<a href="#">Cefoxitin IV</a>	<a href="#">Clindamycin PO</a>	<a href="#">Meropenem-vaborbactam IV</a>	<a href="#">Tobramycin IV</a>
<a href="#">Cefpodoxime PO</a>	<a href="#">Colistin IV</a>	<a href="#">Metronidazole IV/PO</a>	<a href="#">Trimethoprim-sulfamethoxazole (TMP-SMX) IV/PO</a>
<a href="#">Ceftaroline IV</a>	<a href="#">Daptomycin IV</a>	<a href="#">Minocycline IV/PO</a>	<a href="#">Vancomycin IV</a>

**Antifungals**

<a href="#">Amphotericin B Deoxycholate IV</a>	<a href="#">Flucytosine PO</a>	<a href="#">Itraconazole PO (Tolsura)</a>	<a href="#">Posaconazole suspension PO</a>
<a href="#">Liposomal Amphotericin B IV</a>	<a href="#">Isavuconazole IV/PO</a>	<a href="#">Micafungin IV</a>	<a href="#">Voriconazole IV</a>
<a href="#">Fluconazole IV/PO</a>	<a href="#">Itraconazole PO</a>	<a href="#">Posaconazole tablet IV/PO</a>	<a href="#">Voriconazole PO</a>

**Antivirals**

<a href="#">Acyclovir IV</a>	<a href="#">Foscarnet IV</a>	<a href="#">Ribavirin PO</a>	<a href="#">Valganciclovir PO</a>
<a href="#">Acyclovir PO</a>	<a href="#">Ganciclovir IV</a>	<a href="#">Ribavirin PO Lung Transplant</a>	<a href="#">Zanamivir INH</a>
<a href="#">Baloxavir PO</a>	<a href="#">Letermovir IV/PO</a>	<a href="#">Peramivir IV</a>	
<a href="#">Cidofovir IV</a>	<a href="#">Oseltamivir PO</a>	<a href="#">Valacyclovir PO</a>	<a href="#">Footnotes</a>

ANTIBIOTICS	CrCl <sup>1</sup> >50 mL/min	CrCl <sup>1</sup> 30-49 mL/min	CrCl <sup>1</sup> 10-29 mL/min	CrCl <sup>1</sup> <10 mL/min; HD <sup>2</sup>	CRRT (rate 2.5 L/hr) <sup>3</sup>	
<b>AMIKACIN (IV)</b>	[See <a href="#">Aminoglycoside Dosing in Adult Patients</a> ]					
<b>AMOXICILLIN (PO)</b>						
Cystitis (lower urinary tract infection)	500 mg q8h	500 mg q8h	500 mg q12h	500 mg q24h	500 mg q8h	
<i>Helicobacter pylori</i> infection	1 g q12h	1 g q12h	500 mg q12h	500 mg q24h	1 g q12h	
Pneumonia, other systemic infections	1 g q8h	1 g q8h	1 g q12h	1 g q24h	1 g q8h	
<b>AMOXICILLIN-CLAVULANATE (PO)</b>	875 mg q12h	875 mg q12h	500 mg q12h	500 mg q24h	875 mg q12h	
<b>AMPICILLIN (IV)</b>						
Cystitis (lower urinary tract infection)	1 g q6h	1 g q8h	1 g q12h	1 g q24h	1 g q8h	
Systemic infection	2 g q6h	2 g q8h	2 g q12h	2 g q24h	2 g q8h	
Endocarditis/CNS infection	2 g q4h	2 g q6h	2 g q8h	2 g q12h	2 g q6h	
<b>AMPICILLIN-SULBACTAM (IV)</b>						
Cystitis (lower urinary tract infection)	1.5 g q6h	1.5 g q8h	1.5 g q12h	1.5 g q24h	1.5 g q8h	
Systemic infection	3 g q6h	3 g q8h	3 g q12h	3 g q24h	3 g q8h	
<i>Acinetobacter</i> infection	3 g q4h	3 g q6h	3 g q8h	3 g q12h	3 g q6h	
<b>AZITHROMYCIN (IV/PO)</b>						
Systemic infection	500 mg x1, then 250 mg q24h					
<i>Legionella</i> or Pneumonia in ICU	500 mg q24h					
Mycobacterial infection	Consult infectious diseases					
<b>AZTREONAM (IV)</b>						
Cystitis (lower urinary tract infection)	1 g q8h	1 g q8h	1 g q12h	1 g q24h	1 g q8h	
Systemic infection	2 g q8h	2 g q8h	2 g q12h	1 g q12h	2 g q8h	
Febrile neutropenia, documented or suspected <i>Pseudomonas</i> infection, CNS infection	2 g q6h	2 g q6h	2 g q8h	2 g q12h	2 g q6h	
<b>CEFAZOLIN (IV)</b>						
Cystitis (lower urinary tract infection)	1 g q8h	1 g q8h	1 g q12h	500 mg q24h	1 g q8h	
Systemic infection	2 g q8h	2 g q8h	2 g q12h	1 g q24h or 2 g post HD 3x/week	2 g q8h	
<b>CEFEPIME (IV)</b>						
Cystitis (lower urinary tract infection)	1 g q12h	1 g q24h	500 mg q24h	1 g q48h	1 g q24h	
Mild/moderate systemic infection	2 g q12h	1 g q12h	1 g q24h	2 g post HD 3x/week or 500 mg q24h	1 g q12h	
Severe systemic infection (such as febrile neutropenia, patients in ICU, documented <i>Pseudomonas</i> , empiric pneumonia coverage, etc.)	2 g q8h	2 g q12h	1 g q12h	2 g post HD 3x/week or 1 g q24h	2 g q12h	
<b>CEFIDEROCOL (IV)</b>	CrCl >120 mL/min	CrCl 60-119 mL/min	CrCl 30-59 mL/min	CrCl 15-29 mL/min	CrCl <15 mL/min or iHD	CRRT
	2 g q6h	2 g q8h	1.5 g q8h	1 g q8h	750 mg q12h	<a href="#">Refer to footnote 5</a>

ANTIBIOTICS	CrCl <sup>1</sup> >50 mL/min	CrCl <sup>1</sup> 30-49 mL/min	CrCl <sup>1</sup> 10-29 mL/min	CrCl <sup>1</sup> <10 mL/min; HD <sup>2</sup>	CRRT (rate 2.5 L/hr) <sup>3</sup>
<b>CEFOXITIN (IV)</b>					
Systemic infection	2 g q6h	2 g q8h	2 g q12h	1 g q24h	2 g q8h
Mycobacterial infection	3 g q6h	3 g q8h	3 g q12h	2 g q24h	3 g q8h
<b>CEFPODOXIME (PO)</b>					
Cystitis (lower urinary tract infection)	100 mg q12h	100 mg q12h	100 mg q24h	100 mg post HD 3x/week	100 mg q12h
Systemic infection	400 mg q12h	400 mg q12h	400 mg q24h	400 mg post HD 3x/week	400 mg q12h
<b>CEFTAROLINE (IV)</b>					
Skin & soft tissue infection or cystitis (lower urinary tract infection)	600 mg q12h	400 mg q12h	300 mg q12h	200 mg q12h	400 mg q12h
Systemic infection	600 mg q8h	400 mg q8h	300 mg q8h	200 mg q8h	400 mg q8h
<b>CEFTAZIDIME (IV)</b>					
	2 g q8h	2 g q12h	1 g q12h	1 g q24h or 2 g post-HD 3x/week	2 g q12h
<b>CEFTAZIDIME-AVIBACTAM (IV)</b>					
	2.5 g (ceftazidime 2 g - avibactam 0.5 g) q8h	1.25 g (ceftazidime 1 g - avibactam 0.25 g) q8h	0.94 g (ceftazidime 0.75 g - avibactam 0.19 g) q12h	0.94 g (ceftazidime 0.75 g - avibactam 0.19 g) q24h or 2.5 g (ceftazidime 2 g - avibactam 0.5 g) post HD 3x/week	1.25 g (ceftazidime 1 g - avibactam 0.25 g) q8h
<b>CEFTOLOZANE-TAZOBACTAM (IV)</b>					
Cystitis (lower urinary tract infection)	1.5 g q8h	750 mg q8h	375 mg q8h	750 mg x1, then 150 mg q8h	750 mg q8h
Systemic infection, documented or suspected <i>Pseudomonas</i> infection, CF exacerbation	3 g q8h	1.5 g q8h	750 mg q8h	2.25 g x1, then 450 mg q8h	1.5 g q8h
<b>CEFTRIAXONE (IV)</b>					
Cystitis (lower urinary tract infection community- acquired pneumonia)	1 g q24h				
Community-acquired pneumonia, endocarditis, systemic infection	2 g q24h				
CNS infections or enterococcal endocarditis (used in combination with ampicillin)	2 g q12h				
<b>CEFUROXIME (IV)</b>					
Cystitis (lower urinary tract infection)	750 mg q8h	750 mg q8h	750 mg q12h	750 mg q24h	750 mg q8h
Systemic infection	1.5 g q8h	1.5 g q8h	1.5 g q12h	1.5 g q24h	1.5 g q8h
<b>CEFUROXIME (PO)</b>					
Cystitis (lower urinary tract infection)	250 mg q12h	250 mg q12h	250 mg q24h	250 mg q48h	250 mg q12h
Systemic infection	500 mg q12h	500 mg q12h	500 mg q24h	500 mg q48h	500 mg q12h
<b>CEPHALEXIN (PO)</b>					
Cystitis (lower urinary tract infection)	500 mg q8h	500 mg q8h	500 mg q8h	500 mg q24h	500 mg q8h
Other urinary tract infection and systemic infection	500 mg q6h or 1 g q8h	500 mg q6h or 1 g q8h	500 mg q8h or 1 g q12h	500 mg q24h or 1 g q24h	500 mg q6h or 1 g q8h
<b>CIPROFLOXACIN (IV)</b>					
Cystitis (lower urinary tract infection)	400 mg q12h	400 mg q12h	400 mg q24h	200 mg q24h	400 mg q24h
Systemic infection	400 mg q8h	400 mg q8h	400 mg q12h	400 mg q24h	400 mg q8h

ANTIBIOTICS	CrCl <sup>1</sup> >50 mL/min	CrCl <sup>1</sup> 30-49 mL/min	CrCl <sup>1</sup> 10-29 mL/min	CrCl <sup>1</sup> <10 mL/min; HD <sup>2</sup>	CRRT (rate 2.5 L/hr) <sup>3</sup>
<b>CIPROFLOXACIN (PO)</b>					
Cystitis (lower urinary tract infection)	500 mg q12h	500 mg q12h	500 mg q24h	250 mg q24h	250 mg q12h
Systemic infection, pyelonephritis, prostatitis	750 mg q12h	750 mg q12h	750 mg q24h	500 mg q24h	750 mg q12h
<b>CLINDAMYCIN (IV)</b>	600-900 mg q8h				
<b>CLINDAMYCIN (PO)</b>	300-450 mg q6-8h				
<b>COLISTIN BASE (IV) *</b>					
Severe infection	5 mg/kg x1 (max: 300 mg) then 2.5 mg/kg q12h	5 mg/kg x1 (max: 300 mg) then 1.75 mg/kg q12h	5 mg/kg x1 (max: 300 mg) then 2.5 mg/kg q24h	5 mg/kg x1 (max: 300 mg) then 1.5 mg/kg q24h	5 mg/kg x1 (max: 300 mg) then 2.5 mg/kg q12h
<b>DAPTOMYCIN (IV) *</b>					
Skin & soft tissue or urinary tract infection	4 mg/kg q24h	4 mg/kg q24h	4 mg/kg q48h	4 mg/kg post HD 3x/week or q48h	4 mg/kg q24h
Systemic infection	6 mg/kg q24h	6 mg/kg q24h	6 mg/kg q48h	6 mg/kg post HD 3x/week or q48h	6 mg/kg q24h
MRSA endocarditis/endovascular infection or systemic infection	8-10 mg/kg q24h	8-10 mg/kg q24h	8-10 mg/kg q48h	8-10 mg/kg post HD 3x/week or q48h	8-10 mg/kg q24h
Enterococcus/VRE endocarditis/endovascular infection	10-12 mg/kg q24h	10-12 mg/kg q24h	10-12 mg/kg q48h	10-12 mg/kg post HD 3x/week or q48h	10-12 mg/kg q24h
<b>DOXYCYCLINE (IV/PO)</b>					
Systemic infection	200 mg x1, then 100 mg q12h				
<i>Acinetobacter</i> infection	200 mg x1, then 100-200 mg q12h				
<b>ERAVACYCLINE (IV)</b>	1 mg/kg q12h				
<b>ERTAPENEM (IV)</b>	1 g q24h	1 g q24h	500 mg q24h	500 mg q24h or 1000 mg post HD 3x/week (preferred for outpatients)	1 g q24h
<b>FOSFOMYCIN (PO)</b>					
Cystitis (lower urinary tract infection)	3 g x1 dose				
Complicated lower urinary tract infection	3 g q48h x3 doses				
<b>GENTAMICIN (IV)</b>	[See <a href="#">Aminoglycoside Dosing in Adult Patients</a> ]				
<b>IMIPENEM (IV)</b>					
Cystitis (lower urinary tract infection)	250 mg q6h	250 mg q8h	250 mg q12h	250 mg q24h	250 mg q8h
Mild/moderate systemic infection	500 mg q6h	500 mg q8h	500 mg q12h	250 mg q12h	500 mg q8h
Severe systemic infection	1 g q6h	1 g q8h	1 g q12h	500 mg q12h	1 g q8h
<b>LEVOFLOXACIN (IV/PO)</b>					
Cystitis (lower urinary tract infection)	500 mg x1, then 250 q24h	500 mg x1, then 250 q24h	500 mg x1, then 250 mg q48h	500 mg x1, then 250 mg q48h	500 mg x1, then 250 q24h
Pyelonephritis or non-urinary systemic infection	750 mg q24h	750 mg q48h	750 mg x1, then 500 mg q48h	750 mg x1, then 500 mg q48h	750 mg q48h
<b>LINEZOLID (IV/PO)</b>	600 mg q12h				
<b>IMIPENEM-RELEBACTAM (IV)</b>	CrCl ≥90 ml/min	CrCl 60-89 ml/min	CrCl 30-59 ml/min	CrCl 15-29 ml/min	iHD
	1.25 g q6h	1 g q6h	0.75 g q6h	0.5 g q6h	0.5 g q6h
<b>MEROPENEM-VABORBACTAM (IV)</b>	eGFR (mL/min/1.73m <sup>2</sup> ) = 175 * (serum creatinine) <sup>-1.154</sup> * (age) <sup>-0.203</sup> * (0.742 if female) * (1.212 if African American)				
	≥50 mL/min/1.73m <sup>2</sup>	49-30 mL/min/1.73m <sup>2</sup>	29-15 mL/min/1.73m <sup>2</sup>	<15 mL/min/1.73m <sup>2</sup>	
	4 g (mero 2 g - vabor 2 g) q8h	2 g (mero 1 g - vabor 1 g) q8h	2 g (mero 1 g - vabor 1 g) q12h	1 g (mero 500 mg - vabor 500 mg) q12h	

ANTIBIOTICS	CrCl <sup>1</sup> >50 mL/min	CrCl <sup>1</sup> 30-49 mL/min	CrCl <sup>1</sup> 10-29 mL/min	CrCl <sup>1</sup> <10 mL/min; HD <sup>2</sup>	CRRT (rate 2.5 L/hr) <sup>3</sup>
<b>MEROPENEM (IV)</b>					
Cystitis (lower urinary tract infection)	500 mg q8h	250 mg q8h	250 mg q12h	250 mg q24h	250 mg q8h
Systemic infection	1 g q8h	1 g q12h	500 mg q12h	500 mg q24h	1 g q12h
CNS, CF, documented Pseudomonas or Acinetobacter non-urinary infection, ICU patients, or empiric pneumonia coverage	2 g q8h	2 g q12h	1 g q12h	1 g q24h	2 g q12h
<b>METRONIDAZOLE (IV/PO)</b>					
500 mg q8h					
<b>MINOCYCLINE (IV/PO)</b>					
Systemic infection	200 mg x1, then 100 mg q12h				
<i>Acinetobacter</i> infection	200 mg q12h				
<b>MOXIFLOXACIN (IV/PO)</b>					
400 mg q24h					
<b>OMADACYCLINE (PO)</b>					
450 mg q24h x2, then 300 mg q24h					
<b>OMADACYCLINE (IV)</b>					
200 mg x1, then 100 mg q24h					
<b>OXACILLIN/NAFCILLIN (IV)</b>					
2 g q4h					
<b>NITROFURANTOIN (capsules – cystitis only)</b>	100 mg q12h		Not recommended		
<b>NITROFURANTOIN (suspension – cystitis only)</b>	50-100 mg q6h		Not recommended		
<b>PENICILLIN G (IV)</b>					
Viridans group streptococci native valve endocarditis (penicillin MIC ≤0.12 mg/L)	3 million units q4h	3 million units q4h	3 million units q6h	1.5 million units q6h	3 million units q4h
Viridans group streptococci native valve endocarditis (penicillin MIC >0.12 mg/L), enterococcal endocarditis, prosthetic valve endocarditis, or neurosyphilis	4 million units q4h	4 million units q4h	4 million units q6h	2 million units q6h	4 million units q4h
<b>PIPERACILLIN-TAZOBACTAM (IV)</b>					
Cystitis (lower urinary tract infection)	4.5 g q8h	4.5 g q8h	4.5 g q12h	4.5 g q12h	4.5 g q8h
Systemic infection, including pneumonia and intra-abdominal infection	4.5 g q6h	4.5 g q8h	4.5 g q8h	4.5 g q12h	4.5 g q8h
<b>POLYMYXIN B (IV) *</b>					
2 mg/kg x1 (max: 200 mg) then 100 mg q12h					
<b>RIFAMPIN (IV/PO)</b>					
Non-cavitary, non-tuberculous Mycobacterial pulmonary disease	600 mg 3x/week				
Mycobacterial infection	450 mg q24h (<50 kg) or 600 mg q24h (≥50 kg)				
Prosthetic valve Staphylococcal endocarditis	300 mg q8h				
<b>TIGECYCLINE (IV)</b>					
Systemic infection	100 mg x1, then 50 mg q12h				
<i>Acinetobacter</i> infection	100 mg x1, then 100 mg q12h				
<b>TOBRAMYCIN (IV)</b>					
[See <a href="#">Aminoglycoside Dosing in Adult Patients</a> ]					
<b>TRIMETHOPRIM-SULFAMETHOXAZOLE (IV/PO)<sup>4, *</sup></b>					
Cystitis (lower urinary tract infection), uncomplicated pyelonephritis	1 DS tab q12h	1 DS tab q12h	1 DS tab q12-24h	1 DS tab q24h	1 DS tab q12h
Skin & soft tissue	1-2 DS tab q12h	1-2 DS tab q12h	1-2 DS tab q12-24h	1-2 DS tab q24h	1-2 DS tab q12h
Non-urinary severe systemic infection	5 mg/kg q12h	5 mg/kg q12h	5 mg/kg q24h	5 mg/kg q24h	5 mg/kg q12h
PCP pneumonia/Nocardia/Meningitis	5 mg/kg q8h	5 mg/kg q8h	5 mg/kg q12h	5 mg/kg q24h	5 mg/kg q12h
<b>VANCOMYCIN (IV)</b>					
[See <a href="#">Vancomycin Nomogram</a> ]					

ANTIFUNGALS	CrCl <sup>1</sup> >50 mL/min	CrCl <sup>1</sup> 30-49 mL/min	CrCl <sup>1</sup> 10-29 mL/min	CrCl <sup>1</sup> <10 mL/min; HD <sup>2</sup>	CRRT (rate 2.5 L/hr) <sup>3</sup>
<b>AMPHOTERICIN B DEOXYCHOLATE (IV) *</b>	0.75-1 mg/kg q24h				
<b>LIPOSOMAL AMPHOTERICIN B (AMBISOME) (IV)*</b>					
Systemic infection	3-5 mg/kg q24h				
Mucormycosis	5-10 mg/kg q24h				
<b>FLUCONAZOLE (IV/PO)</b>					
Urinary tract infection or oropharyngeal thrush	200 mg q24h	200 mg x1, then 100 mg q24h	200 mg x1, then 100 mg q24h	200 mg x1, then 100 mg q48h	200 mg q24h
Systemic infection	800 mg x1, then 400 mg q24h	800 mg x1, then 200 mg q24h	800 mg x1, then 200 mg q24h	800 mg x1, then 200 mg q48h or post HD 3X/week	800 mg x1, then 400 mg q24h
<i>C. glabrata</i> infection/ Initial therapy for candidemia/Treatment of <i>Candida</i> endophthalmitis	800 mg q24h	800 mg x1 load, then 400 mg q24h	800 mg x1 load, then 400 mg q24h	800 mg x1 load, then 400 mg q48h or post HD 3X/week	800 mg q24h
<b>FLUCYTOSINE (PO)*</b>	25 mg/kg q6h	25 mg/kg q8-12h	25 mg/kg q24h	25 mg/kg post HD	25 mg/kg q8-12h
<b>ISAVUCONAZOLE (IV/PO)</b> (Dosing expressed in mg of isavuconazonium sulfate (prodrug of isavuconazole)	372 mg q8h x6, then 372 mg q24h starting 12h after load				
<b>ITRACONAZOLE (PO CAPSULE AND LIQUID)</b>	200 mg q8h x9, then 200 mg q12h				
<b>ITRACONAZOLE (TOLSURA CAPSULE)</b>	130 mg q8h X9, then 130 mg q12h				
<b>MICAFUNGIN (IV)</b>					
Prophylaxis: primary ALL and pre-engraftment HSCT recipients	50 mg q24h				
Treatment: Invasive candidiasis Prophylaxis: primary AML, relapsed/refractory ALL, and post-engraftment HSCT recipients	100 mg q24h				
Invasive aspergillosis, esophageal candidiasis, infective endocarditis	150 mg q24h				
<b>POSACONAZOLE (PO tablet or IV)</b>					
Prophylaxis or treatment	300 mg q12h x2, then 300 mg q24h				
<b>POSACONAZOLE (PO suspension)</b>					
Prophylaxis	200 mg q8h				
Treatment	200 mg q6h				
<b>VORICONAZOLE (IV)</b>					
Prophylaxis	200 mg q12h				
Treatment	6 mg/kg q12h x2, then 4 mg/kg q12h				
<b>VORICONAZOLE (PO)</b>					
Prophylaxis	200 mg q12h				
Treatment	6 mg/kg q12h x2, then 4 mg/kg q12h				

ANTIVIRALS	CrCl <sup>1</sup> >50 mL/min	CrCl <sup>1</sup> 30-49 mL/min	CrCl <sup>1</sup> 10-29 mL/min	CrCl <sup>1</sup> <10 mL/min; HD <sup>2</sup>	CRRT (rate 2.5 L/hr) <sup>3</sup>		
<b>ACYCLOVIR (IV)*</b>							
Herpes Simplex Prophylaxis	200 mg q12h	200 mg q12h	200 mg q24h	100 mg q24h	200 mg q12h		
Mild/moderate HSV mucocutaneous infection and genital infection	5 mg/kg q8h	5 mg/kg q12h	5 mg/kg q24h	2.5 mg/kg q24h	5 mg/kg q12h		
Severe HSV mucocutaneous infection and genital infection	5 or 10 mg/kg q8h	5 or 10 mg/kg q12h	5 or 10 mg/kg q24h	2.5 or 5 mg/kg q24h	5 or 10 mg/kg q12h		
Encephalitis; meningitis; VZV infection	10 mg/kg q8h	10 mg/kg q12h	10 mg/kg q24h	5 mg/kg q24h	10 mg/kg q12h		
<b>ACYCLOVIR (PO)</b>							
Herpes Simplex Prophylaxis	400 mg q12h	400 mg q12h	400 mg q12h	400 mg q24h	400 mg q12h		
Herpes Zoster	800 mg 5x/day	800 mg q6h	800 mg q8h	800 mg q12h	800 mg q6h		
Herpes labialis	400 mg q8h	400 mg q8h	400 mg q12h	400 mg q12h	400 mg q8h		
Genital herpes, initial episode	400 mg q8h	400 mg q8h	400 mg q12h	400 mg q12h	400 mg q8h		
Genital herpes, recurrence	400 mg q8h	400 mg q8h	400 mg q12h	400 mg q12h	400 mg q8h		
<b>BALOXAVIR (PO)</b>							
Treatment for patients 40 kg to <80kg	40 mg x1						
Treatment for patients ≥80 kg	80 mg x1						
<b>CIDOFOVIR (IV)*</b>							
BK cystitis	1 mg/kg x1 then discuss subsequent dosing with ID pharmacy/consultation (no probenecid)						
All other indication (ex. ganciclovir-resistant CMV, adenovirus)	5 mg/kg x1; then discuss subsequent dosing with ID pharmacy/consult service (administer with probenecid 2 g 3 hours prior to cidofovir dose, then 1 g at 2 hours and 8 hours after the infusion)						
<b>GANCICLOVIR (IV)*</b>							
Induction, Treatment	5 mg/kg q12h	2.5 mg/kg q12h	2.5 mg/kg q24h	1.25 mg/kg post HD 3x/week	2.5 mg/kg q12h		
Maintenance, Treatment	5 mg/kg q24h	2.5 mg/kg q24h	1.25 mg/kg q24h	0.625 mg/kg post HD 3x/week	2.5 mg/kg q24h		
<b>LETERMOVIR (PO/IV)</b>	480 mg q24h		Not recommended		480 mg q24h		
<b>OSELTAMIVIR (PO)</b>							
Prophylaxis	75 mg q24h	75 mg q24h	75 mg q48h	75 mg 2x/week	75 mg q24h		
Treatment	75 mg q12h	75 mg q12h	75 mg q24h	75 mg q48h	75 mg q12h		
<b>RIBAVIRIN (PO)</b> (Treatment of Respiratory Syncytial Virus in Hematology patients)	600 mg q8h	400 mg q8h	200 mg q8h	200 mg q24h	400 mg q8h		
<b>RIBAVIRIN (PO) Lung Transplant recipients *</b>	≥20 mL/min		<20 mL/min		HD	CRRT	
Treatment of Respiratory Syncytial Virus in Lung Transplant recipients	8 mg/kg q6h x48 hours, then 8 mg/kg q24h		8 mg/kg q6h x48 hours, then 4 mg/kg q24h		8 mg/kg q6h x48 hours, then 200 mg q24h	No data	
<b>FOSCARNET (IV)*</b>							
	mL/min/kg = [(140-age)]/72*SCr; multiply by 0.85 for females						
	≥1.4 mL/min/kg	1.0- <1.4 mL/min/kg	0.8- <1.0 mL/min/kg	0.6- <0.8 mL/min/kg	0.5-<0.6 mL/min/kg	0.4- <0.5 mL/min/kg	<0.4 mL/min/kg
Induction, Treatment for CMV	90 mg/kg q12h	70 mg/kg q12h	50 mg/kg q12h	80 mg/kg q24h	60 mg/kg q24h	50 mg/kg q24h	No data
Maintenance, Treatment for CMV	90 mg/kg q24h	70 mg/kg q24h	50 mg/kg q24h	80 mg/kg q48h	60 mg/kg q48h	50 mg/kg q48h	No data

ANTIVIRALS	CrCl <sup>1</sup> >50 mL/min	CrCl <sup>1</sup> 30-49 mL/min	CrCl <sup>1</sup> 10-29 mL/min	CrCl <sup>1</sup> <10 mL/min; HD <sup>2</sup>	CRRT (rate 2.5 L/hr) <sup>3</sup>
<b>PERAMIVIR (IV)</b>	600 mg q24h	200 mg q24h	100 mg q24h	100 mg post HD	600 mg q24h
<b>VALACYCLOVIR (PO)</b>					
Herpes labialis	2 g q12h	1 g q12h	500 mg q12h	500 mg x1	500 mg q12h
Herpes zoster	1 g q8h	1 g q12h	1 g q24h	500 mg q24h	1 g q24h
Genital herpes, initial episode	1 g q12h	1 g q12h	1 g q24h	500 mg q24h	1 g q24h
Genital herpes, recurrence	1 g q24h	1 g q24h	500 mg q24h	500 mg q24h	500 mg q24h
<b>VALGANCICLOVIR (PO)</b>					
Prophylaxis	See organ-specific solid organ transplant guidelines				
Induction, Treatment for CMV	900 mg q12h	450 mg q12h	450 mg q48h	450 mg q48h	450 mg q12h
Maintenance, Treatment for CMV	900 mg q24h	450 mg q24h	450 mg 2x/week	450 mg 2x/week	450 mg q24h
<b>ZANAMIVIR (INHALED)</b>					
Prophylaxis	10 mg (2 inhalations) q24h				
Treatment	10 mg (2 inhalations) q12h				

Dosing recommendations may fall outside manufacturer guidelines.

- Cockcroft-Gault;  $CrCl \left( \frac{mL}{min} \right) = \frac{(140 - Age) * Weight (kg)}{72 * SCr(mg/dL)} * (0.85 \text{ for females})$  For weight, Actual body weight should be used for non-overweight patients.

For overweight patients (defined as BMI >= 25), use adjusted body weight.

*Ideal body weight (male) = 50 + (2.3 \* height in inches > 60 inches); Ideal body weight (female) = 45 + (2.3 \* height in inches > 60 inches);*

*Adjusted body weight = 0.4(actual body weight - ideal body weight) + ideal body weight*

- Schedule dose after hemodialysis; if dosed multiple times daily, schedule subsequent doses after hemodialysis.
- Dosing may be different for more aggressive CRRT flow rates. Consult clinical pharmacist for dosing recommendations.
- Based on trimethoprim component.
- Manufacturer recommendations for cefiderocol dosing in CRRT:

Effluent Flow Rate	Dose
2 L/hr or less	1.5 g q12h
2.1 to 3 L/hr	2 g q12h
3.1 to 4 L/hr	1.5 g q8h
4.1 L/hr or greater	2 g q8h

\* For dosing in obese patients, please see [Weight-Based Dosing Recommendations for Intravenous Antimicrobials in Obese Adult Patients](#)

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<b>Revision History:</b> 01/20: Added eravacycline and changed CrCl recommendations. 08/20: Added cefiderocol and imipenem-relebactam 12/20: Updated ceftazidime and ceftazidime-avibactam dosing 03/21: Updated vancomycin hyperlink 04/21: Added SUBA-itraconazole and omadacycline, added cefiderocol CRRT dosing 05/21: Added tigecycline, updated minocycline dosing, updated ertapenem HD dosing 06/21: Adjusted meropenem dosing criteria, adjusted minocycline dosing 07/21: Adjusted cefepime and meropenem dosing criteria	

The recommendations in this guide are meant to serve as treatment guidelines for use at Michigan Medicine facilities. If you are an individual experiencing a medical emergency, call 911 immediately. These guidelines should not replace a provider's professional medical advice based on clinical judgment, or be used in lieu of an Infectious Diseases consultation when necessary. As a result of ongoing research, practice guidelines may from time to time change. The authors of these guidelines have made all attempts to ensure the accuracy based on current information, however, due to ongoing research, users of these guidelines are strongly encouraged to confirm the information contained within them through an independent source.

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