

ANTIBIOTIC SHORTAGE REFERENCE Last Reviewed: 10/19/2022

CATEGORY	DRUG	Formulations	FORMULARY STATUS	THERAPEUTIC SUBSTITUTION	Restriction Criteria	Alternatives if Enteral Route Available	Alternatives for Intravenous use
Penicillins	Penicillin G	IV	Formulary			Penicillin VK, amoxicillin	Ampicillin
	Penicillin VK	PO (tablet, solution)	Formulary			amoxicillin	ampicillin
	Penicillin G Benzathine (Bicillin La)	syringe	Formulary			Syphilis: doxycycline, azithromycin Pharyngitis: penicillin VK, amoxicillin	Syphilis: ceftriaxone Pharyngitis: penicillin G, ampicillin
	Penicillin Benzathine/Procaine (Bicillin Cr)	syringe	Formulary			penicillin VK, amoxicillin	penicillin G, ampicillin
	Amoxicillin	PO (tablet, suspension)	Formulary			amoxicillin-clavulanate, ampicillin	ampicillin
	Amoxicillin/Clavulanate	PO (tablet, suspension)	Formulary			amoxicillin + metronidazole	ampicillin-sulbactam, ampicillin+ metronidazole
	Ampicillin	PO (capsule), IV	Formulary			amoxicillin	ampicillin-sulbactam, piperacillin-tazobactam
	Ampicillin/Sulbactam	IV	Formulary			amoxicillin-clavulanate	ceftriaxone + metronidazole
	Oxacillin	IV	Formulary			dicloxacillin	cefazolin CNS: ceftriaxone
	Dicloxacillin	PO	Formulary			cephalexin	nafcillin, cefazolin
Piperacillin/Tazobactam	IV	Formulary			N/A	cefepime + metronidazole	
Nafcillin			Non-Formulary	Oxacillin		N/A	N/A
Cephalosporins	Cefazolin (1st gen)	IV	Formulary			cephalexin	nafcillin, oxacillin, ceftriaxone
	Cephalexin (1st gen)	PO (capsule, suspension)	Formulary			cefadroxil, dicloxacillin, cefuroxime	cefazolin, nafcillin, oxacillin, ceftriaxone
	Cefuroxime Axetil (2nd gen)	PO (tablet)	Formulary			cefdinir, cefaclor, cefprozil	cefuroxime, ceftriaxone
	Cefuroxime Sodium (2nd gen)	IV	Formulary			cefuroxime, cefdinir, cefaclor, cefprozil	Ceftriaxone
	Cefoxitin (2nd gen)	IV	Formulary			cefuroxime/cefdinir/cefaclor/cefprozil + metronidazole amoxicillin-clavulanate	cefotetan, cefazolin or ceftriaxone + metronidazole
	Cefdinir (3rd gen)	PO (capsule, suspension)	Formulary			cefprozil, cefixime	Ceftriaxone
	Cefotaxime (3rd gen)	IV	Restricted		Pediatrics	cefdinir	Ceftriaxone
	Ceftriaxone (3rd gen)	IV	Formulary			cefdinir	ceftazidime, piperacillin-tazobactam, cefepime
	Ceftazidime (3rd gen)	IV	Restricted	Cefepime	Pediatrics, Infectious Disease, Nephrology	N/A	Cefepime, piperacillin-tazobactam
	Cefepime (4th gen)	IV	Formulary			N/A	ceftazidime, piperacillin-tazobactam, meropenem
	Ceftaroline	IV	Restricted		Infectious Diseases. Contraindication to vancomycin	N/A	Vancomycin, daptomycin, linezolid
	Ceftazidime-Avibactam	IV	Restricted		Infectious Diseases. CRE	Omadacycline	Meropenem-vaborbactam, Cefiderocol, eravacycline

	Ceftolozane-Tazobactam	IV	Restricted		Infectious Diseases. CR Pseudomonas	N/A	Intermediate beta-lactam + aminoglycoside Cefiderocol Imipenem-relebactam
	Cefadroxil		Non-Formulary	Cephalexin		N/A	N/A
	Cefaclor (2nd gen)	PO	Non-Formulary	Cefuroxime		N/A	N/A
	Cefprozil (2nd gen)	PO	Non-Formulary	Cefuroxime		N/A	N/A
	Cefpodoxime (3rd gen)	PO	Non-Formulary	Cefdinir		N/A	N/A
	Cefixime (3rd gen)	PO	Non-Formulary	Cefdinir		N/A	N/A
	Cefiderocol		Non-Formulary			N/A	N/A
Carbapenems	Meropenem	IV	Formulary			N/A	ertapenem, imipenem-cilastatin
	Ertapenem	IV	Formulary			N/A	meropenem, imipenem-cilastatin
	Meropenem-Vaborbactam	IV	Restricted		Infectious Diseases. CRE	N/A	Ceftazidime-Avibactam, eravacycline
	Imipenem-Cilastatin		Non-Formulary	Meropenem		N/A	N/A
	Imipenem-Cilistatin-Relebactam		Non-Formulary	Meropenem-Vaborbactam		N/A	N/A
Aminoglycosides	Amikacin	IV	Formulary			N/A	gentamicin, tobramycin, colistin, polymyxin B
	Gentamicin	IV	Formulary			N/A	amikacin, tobramycin, colistin, polymyxin B
	Tobramycin	IV	Formulary			N/A	gentamicin, amikacin, colistin, polymyxin B
Fluoroquinolones	Ciprofloxacin*	PO (tablet, suspension), IV	Formulary			levofloxacin Urine: fosfomycin	levofloxacin, moxifloxacin
	Levofloxacin*	PO (tablet, solution), IV	Formulary			ciprofloxacin Urine: fosfomycin	ciprofloxacin, moxifloxacin
	Moxifloxacin*	PO (tablet), IV	Restricted		Non-tuberculosis mycobacterium	Alternative NTM med	Alternative NTM med
Monobactams	Aztreonam	IV	Formulary			N/A	levofloxacin, cefepime
Sulfonamide	Trimethoprim-sulfamethoxazole*	PO (tablet, suspension), IV	Formulary			doxycycline, clindamycin, levofloxacin	levofloxacin
	Trimethoprim	PO (tablet)	Formulary			trimethoprim-sulfamethoxazole, PCP & sulfa allergy: atovaquone	N/A
Glycopeptide	Vancomycin	PO (suspension), IV	Formulary			fidaxomicin	linezolid, daptomycin, ceftaroline
Lipoglycopeptide	Dalbavancin		Non-formulary			N/A	N/A
	Oritavancin		Non-formulary			N/A	N/A
	Telavancin		Non-formulary			N/A	N/A

Lipopeptide	Daptomycin	IV	Formulary			N/A	vancomycin, linezolid, ceftaroline
Oxazolidinone	Linezolid*	PO (tablet, suspension), IV	Formulary			doxycycline, tedizolid	vancomycin, daptomycin, ceftaroline
	Tedizolid		Non-formulary	Linezolid		N/A	N/A
Lincosamide	Clindamycin*	PO (capsule, solution), IV	Formulary			amoxicillin-clavulanate	ampicillin-sulbactam toxin: linezolid
Macrolides	Clarithromycin	PO (tablet, suspension)	Formulary			azithromycin	N/A
	Azithromycin*	PO (tablet, suspension), IV	Formulary			clarithromycin, doxycycline, levofloxacin	doxycycline, levofloxacin
	Fidaxomicin	PO	Restricted		Infectious diseases. Recurrent C difficile, contraindication to vancomycin	vancomycin	N/A
Nitroimidazole	Metronidazole*	PO (tablet), IV	Formulary			amoxicillin-clavulanate	Piperacillin-tazobactam, ampicillin-sulbactam, meropenem, ertapenem, eravacycline
Tetracyclines	Doxycycline*	PO (capsule, suspension), IV	Formulary			minocycline, tetracycline	eravacycline, tigecycline
	Tigecycline	IV	Restricted		Anaphylactic allergy or resistance to all other appropriate available antibiotic options	Omadacycline, minocycline	Eravacycline, minocycline, Ceftazidime-Avibactam, meropenem-vaborbactam
	Eravacycline	IV	Restricted		Infectious diseases, critical care	Omadacycline, minocycline	Tigecycline, minocycline, Ceftazidime-Avibactam, meropenem-vaborbactam
	Minocycline		Non-Formulary	Eravacycline, Doxycycline		N/A	N/A
	Omadacycline		Non-formulary	Eravacycline		N/A	N/A
Miscellaneous	Fosfomycin	PO (powder packet)	Formulary			Cefdinir, Levofloxacin, Ciprofloxacin, Trimethoprim-sulfamethoxazole, Nitrofurantoin	Ceftriaxone, cefepime
	Nitrofurantoin	PO (capsule, suspension)	Formulary			Cefdinir, Levofloxacin, Ciprofloxacin	Ceftriaxone
	Polymyxin B	IV	Formulary			N/A	Colistin, tobramycin, gentamicin
	Colistin	IV	Formulary			N/A	Polymyxin B, tobramycin, gentamicin
	Quinupristin/daropristin		Non-formulary			N/A	N/A

*When IV is unavailable, PO can be substituted due to high bioavailability