

DRUG/DRUG CLASS		DRUG PRODUCT		DRUG/DRUG CLASS	Human Amikacin Gentamicin Tobramycin Kanamycin Streptomycin Neomycin	Veterinary	
		Vet	erinary			Animals ** Neomycin Streptomycin Apramycin Gentamicin	Animals *** Amikacin Gentamicin Kanamycin Neomycin
	Human	Food-producing Animals **	Companion Animals ***				
Penicillins Natural Penicillins	Penicillin	Penicillin G Penicillin V	Penicillin G	Aminoglycosides			
Penicillins Penicillinase-stable Penicillins	Dicloxacillin Naficillin Oxacillin	Naficillin Hetacillin	Dicloxacillin		Plazomicin Isoniazid Pyrazinamide		
Penicillins Carboxypenicillins	Carbenicillin **** Ticarcillin ****	NONE APPROVED	Ticarcillin	Antimycobacterials	Ethambutol Bedaquiline	NONE APPROVED	NONE APPROVE
Penicillins Ureidopenicillins	Piperacillin	NONE APPROVED	NONE APPROVED	Carbapenems	Imipenem Meropenem Ertapenem	NONE APPROVED	NONE APPROVE
Penicillins	Amoxicillin	Ampicillin	Ampicillin	Cephamycins	Cefotetan Cefoxitin	NONE APPROVED	NONE APPROVE
β-lactam/β- lactamase Inhibitor Combinations	Amprelim Amoxicillin-clavulanic acid Ampicillin-sulbactam Piperacillin- tazobactam Ceftolozane-	NONE APPROVED	Amoxicillin-clavulanic acid	Quinolones	Ciprofloxacin Ofloxacin Levofloxacin Moxifloxacin Delafloxacin	Enrofloxacin Danofloxacin	Difloxacin Enrofloxacin Marbofloxacin Orbifloxacin Pradofloxacin
				Fosfomycins	Fosfomycin	NONE APPROVED	NONE APPROVE
				Glycopeptides	Vancomycin	NONE APPROVED	NONE APPROVE
	tazobactam			Lincosamides	Clindamycin Lincomycin	Lincomycin Pirlimycin	Clindamycin Lincomycin
1st Generation	Cefazolin Cephalexin	Cephapirin	Cefadroxil	Lipoglycopeptides	Telavancin Dalbavancin Oritavancin	NONE APPROVED	NONE APPROVE
Cephalosporins	Ceforozil	NONE APPROVED	NONE APPROVED	Lipopeptides	Daptomycin	NONE APPROVED	NONE APPROVE
2nd Generation Cephalosporins All other cephalosporins not considered 1 st or 2 nd generations	Cefuroxime Cefixime Ceftibuten Ceftodoxime		Ceftiofur Cefovecin Cefpodoxime	Macrolides	Erythromycin Azithromycin Clarithromycin Fidaxomycin	Tilmicosin Tulathromycin Tylosin Tylvalosin Oleandomycin	Erythromycin
	Cefotaxime Ceftazidime Ceftriaxone	Ceftiofur		Methenamine	Methenamine	NONE APPROVED	Methenamine
				Monobactams	Aztreonam	NONE APPROVED	NONE APPROVE
				Nitrofurans	Nitrofurantoin	NONE APPROVED	Nitrofurazone
	Ceftaroline Ceftarocol			Nitroimidazoles	Metronidazole Tinidazole Secnidazole	NONE APPROVED	NONE APPROVE
6.1 /	and the state of the first	the state / states	and the large state of a second	Oxazolidones	Linezolid	NONE APPROVED	NONE APPROVE

David (David Chara	Destrict	Rank	ing Crite	rion ²		
Drug/Drug Class	Kanking*	1	2	3	Comments	
Penicillins Natural Penicillins	н		x		Preferred therapy for syphilis.	
Penicillins Penicillinase-stable Penicillins	н		×		One of available therapies for serious infections due to methicillin- susceptible Staphylococcus aureus.	
Penicillins Carboxypenicillins	н		x	j	One of available therapies for serious infections due to gram- negative bacteria including Pseudomonas aeruginosa .	
Penicillins Ureidopenicillins	н		x		One of available therapies for serious infections due to gram- negative bacteria including Pseudomonas aeruginosa .	
Penicillins Aminopenicillins	с	x			One of limited available therapies for serious infections due to Listeria monocytogenes in adults and children, and Group B Streptococcus in neonates.	
β-lactam/β-lactamase Inhibitor Combinations	с	x			One of limited available therapies for serious infections due to beta lactamase producing gram-negative bacteria.	
		Rank	ing Crite	rion ²		
Drug/Drug Class	Ranking ¹	1	2	3	Comments ³	
Cephalosporins	н		×		Used to treat non-serious infections for which drugs from more than a few antimicrobial classes are available. One exception is cefazolin which is considered highly important as it is used for the	
1st Generation	I			x	treatment of serious infections due to methicillin-susceptible Staphylococcus aureus.	
Cephalosporins 2nd Generation	н		x		One of available therapies for serious infections due to S. aureus, Haemophilus influenzae, Escherichia coli.	
Cephalosporins All other cephalosporins not onsidered 1 st or 2 nd generations	с	x			One of limited available therapies for serious infections due to gram-negative and gram-positive bacteria (certain drugs), including Neisseria spp., P. aeruginosa, S. aureus, Streptococcus pneumoniae , and complicated Salmonella infections.	https://www.fda.gov
	с	x			One of limited available therapies for serious infections caused by gram-negative bacteria, including those due to multidrug resistant isolates, Y. pestis and Francisella tularensis ; one of limited available inhaled therapies for cystic fibrosis.	mal-veterinary/safet health/antimicrobial
Aminoglycosides						

David (David Class	Ranking ¹	Ranking Criterion ²				
Drug/Drug Class		1	2	3	Comments	
Carbapenems	с	x			One of limited available therapies for serious infections due to gram-negative bacteria, including those due to extended spectrum beta lactamase producing organisms.	
Cephamycins	н		x		One of available therapies for pelvic inflammatory disease in the inpatient setting.	
Quinolones	с	x			One of limited available therapies for serious infections due to gram-negative bacteria including diarrheal pathogens, Yersinia pestis and prophylaxis against inhalational anthrax.	
Fosfomycin	с	x			One of limited available therapies for some serious infections due to resistant gram-negative bacteria.	
Glycopeptides	с	x			One of limited available therapies for serious infections due to methicillin-resistant <i>S. aureus</i> (MRSA); oral vancomycin is one of the few available therapies for infections due to <i>C. difficile.</i>	
Lincosamides	н		x		One of available therapies for of serious infections due to Group A streptococci and Staphylococcus aureus.	
Lipoglycopeptides	н		X		One of available therapies for serious infections due to MRSA.	
Lipopeptides	с	x			One of limited available therapies for serious infections due to MRSA and some vancomycin-resistant enterococci (VRE).	
Drug /Drug Class	Panking 1	Ranking Criterion ²		rion ²	Commente ³	
Drug/Drug class	Kanking*	Kunking	1	2	3	comments-
Macrolides	c	x			One of limited available therapies for serious infections due to Clostridioides difficile (fidaxomicin), Campylobacter jejuni. One of limited available therapies as part of a combination regimen for nontuberculous mycobacteria, and infections due to Helicobacter pylori.	
Methenamine	I			x	Drugs from more than a few antimicrobial classes are available.	
Monobactams	с	x			One of limited available therapies for serious infections due to gram-negative bacteria including those due to metallo-beta lactamase producing isolates; one of limited available inhaled therapies for cystic fibrosis.	
Nitrofurans	н		x		One of limited available therapies for uncomplicated urinary tract infections.	
Nitroimidazoles	н		x		One of available therapies for serious infections due to <i>C. difficile</i> and other anaerobic infections.	
Oxazolidinones	с	x			One of limited available therapies for serious infections due to MRSA and VRE.	
Phenicols	н		x		One of available therapies for serious infections due to <i>Rickettsiae</i> , <i>Salmonella</i> spp. when other agents are contraindicated or ineffective.	
Pleuromutilins	н		x		One of available therapies for of infections due to <i>S. pneumoniae</i> , <i>H. influenzae</i> , <i>M. pneumoniae</i> (including macrolide-resistant strains).	

