

ANTIBIOTICS

**ANTIMICROBIAL SUSCEPTIBILITY
PROFILE for 2024
*Organisms Isolated in 2023***

	Number tested	EXPRESSED IN % SUSCEPTIBLE																												
		Penicillin	Ampicillin	Amoxicillin/Clav	Ampicillin/Sulbac	Oxacillin	Cefazolin (1 st generation) ⁶	Cefotaxin (2 nd generation)	Cefuroxime (2 nd generation)	Ceftazidime (3 rd generation)	Ceftriaxone (3 rd generation)	Cefepime	Clindamycin	Tetracycline	Doxycycline	Tobramycin	Gentamicin	Ertapenem	Meropenem	Piperacillin/Tazo	Vancomycin	Daptomycin	Linezolid	Levofloxacin	Ciprofloxacin	Trimeth/Sulfa	Nitrofurantoin(UTI only)	Rifampin*		
Escherichia coli (non-ESBL)	1625	62	89	70		96	95	93	99	98	100					94	93	100	99	97				82	86	82	96			
Escherichia coli ESBL (Rate 7%)	119		63	34			80		58		85					63	73	100	100	90				15	22	57	89			
Klebsiella pneumoniae (non-ESBL)	338		98	92		99	95	95	99	99	99					99	99	100	99	98				90	94	97	43			
Klebsiella pneumoniae ESBL (Rate 8%)	31		67	22			90		58		77					74	80	100	100	63				16	32	25	17			
Klebsiella oxytoca	108		97	68		87	98	96	100	99	100					99	99	100	100	99				96	98	95	86			
Klebsiella aerogenes ⁷	45								73	71	100					100	100	100		73				93	97	100	14			
Citrobacter freundii ⁷	52								73	71	100					100	100	100	100	80				86	88	90	84			
Enterobacter cloacae complex ⁷	181								80	76	98					97	97	100	100	81				93	95	94	33			
Proteus mirabilis	158	72	100	87		94	89	96	99	96	99					91	91	100	99	100				67	67	75				
Pseudomonas aeruginosa ³	202								92		92					100	94		89	88				79	91					
Staphylococcus aureus MSSA ^{4, 5, 8}	475					100									85	92	97		99				100	100	100	90	89	99	100	100
Staphylococcus aureus MRSA ^{4,8} (Rate 32%)	226														74	81	85		100				100	100	100	26	25	93	100	99
Staphylococcus epidermidis ^{4,8}	125					32									61	87	84		94				100	100	100	80	80	66	98	100
Enterococcus faecalis	419	99																					99	74	100	93	92		99	
Enterococcus faecium	35	42																					91	100	100	23	14		38	
Enterococcus faecium VRE (34%)	18																						100	100				25		
Streptococcus pneumoniae ^{1,2,8}	37	100													100	82	89						100			97		80		

Blank indicates insufficient data, inappropriate organism/drug combination, or susceptibility less than 10%.

*Rifampin should not be used as a single agent.

1. Penicillin for S. pneumoniae percent sensitive using meningitis breakpoint is 73%, using non-meningitis breakpoint is 100%

2. Ceftriaxone for S. pneumoniae percent sensitive using meningitis breakpoint is 94%, using non-meningitis breakpoint is 100%.

3. Pseudomonas may test as sensitive to Ceftazidime in vitro but may produce an inducible beta-lactamase in vivo.

4. All Staphylococci are tested for inducible Clindamycin resistance. If inducible resistance is detected, the isolate is reported as resistant.

5. Methicillin (oxacillin)-susceptible Staphylococcus aureus are considered susceptible to: Beta-lactam combination agents, Cefdinir, Cephalexin, Cefazolin and Ceftriaxone.

6. Cefazolin is a surrogate test for oral cephalosporins in uncomplicated UTIs. Oral cephalosporins predicted by Cefazolin include: Cefaclor, Cefdinir, Cefpodoxime, Cefprozil, Cefuroxime, and Cephalexin.

7. Enterobacter, Klebsiella aerogenes, Citrobacter and Serratia may develop resistance within 3-4 days of therapy with 3rd generation cephalosporins. Repeat testing may be warranted.

8. Organisms that are susceptible to tetracycline are also considered susceptible to doxycycline and minocycline. However, some organisms that are intermediate or resistant to tetracycline may be susceptible to doxycycline or minocycline, or both.

This Chart is for the use of PMC physicians in choosing empiric therapy prior to definitive test results.