

VCUHS PEDIATRIC ANTIBIOTIC SUSCEPTIBILITY TABLES
JANUARY – DECEMBER 2022
Department of Pathology - Microbiology/Immunology

Table 1. Activity of selected antibiotics against gram-positive cocci

Organism	Percentage (%) of Organisms Susceptible										
	Number Tested	Ampicillin	Oxacillin ^a	Ceftriaxone	Vancomycin	Tetracycline	Clindamycin	TMP/SMX	Ceftaroline ^c	Daptomycin ^{b,c}	Linezolid
<i>Staphylococcus aureus</i>	254		75		100	92	77	99	100	100	99
Coagulase negative <i>Staphylococcus</i> species	39		41		100		51	69		94	100
<i>Enterococcus faecalis</i>	75	98			100					97	100

^a Staphylococci resistant to oxacillin (methicillin) are also resistant to penicillin, ampicillin, ceftazidime, ceftiofur, ceftriaxone, meropenem and all other beta-lactam antibiotics. Staphylococci species breakpoints are in use.

^b Respiratory tract isolates included in Daptomycin results though excluded from reporting per CLSI M100 guidelines.

^c Ceftaroline and Daptomycin results include Susceptible Dose Dependent (SDD) isolates.

Table 2. Activity of selected antibiotics against gram-negative bacilli

Organism	Percentage (%) of Organisms Susceptible											
	Number Tested	Ampicillin	Pip/Tazo ^d	Cefazolin	Cefepime ^d	Ceftriaxone	Meropenem	Gentamicin	Ciprofloxacin	Levofloxacin	TMP/SMX	Nitrofurantoin
<i>Escherichia coli</i>	360	46	99	90	97	93	100	88	86	90	67	99
<i>Klebsiella pneumoniae</i>	52	IR	93	80	91	84	97	89	74	87	70	
<i>Proteus mirabilis</i> ^b	42	90	100	95	97	97	100	97	95	95	95	
<i>Pseudomonas aeruginosa</i>	70	IR	95		92	IR	98	83	91	83 ^c	IR	

IR = Intrinsic Resistance

^a Use of 3rd generation cephalosporins is not recommended for *Enterobacter cloacae* complex, *Citrobacter freundii* complex, and *Klebsiella aerogenes* infections because resistance develops rapidly. Cefepime, meropenem, a quinolone, or TMP/SMX are recommended.

^b *Proteus* species other than *Proteus mirabilis* are more resistant (similar to *Morganella* species).

^c Levofloxacin breakpoints for *Pseudomonas aeruginosa* are based on a dosage regimen of 750mg every 24 hours.

^d Piperacillin/tazobactam and Cefepime results include Susceptible Dose Dependent (SDD) isolates.

**Data collected by the Clinical Microbiology Laboratory, Department of Pathology
 CLSI M100-ed32 and M60-ed2 Interpretation breakpoints were applied unless otherwise stated.**