



Children's Mercy KANSAS CITY

Children's Mercy Hospitals & Clinics - 2018 AntibioGram

Department of Pathology & Laboratory Medicine- Microbiology Laboratory

2018 Gram Negative AntibioGram (% susceptible)

	# of isolates tested	Amikacin ¹	Ampicillin	Amp/sulbact ¹	Amox/clav ²	Cefazolin	Cefepime	Ceftazidime	Ceftioxone	Ciprofloxacin	Gentamicin	Meropenem ¹	Pip/tazo	Nitrofurantoin ²	Tobramycin	Trimeth/Sulfa
Organisms from ALL SOURCES																
<i>Acinetobacter baumannii</i> complex	29 ⁺	-	-	100	-	-	-	86	14	97	93	96	-	-	97	90
<i>Citrobacter freundii</i>	34	100	IR	IR	-	IR	-	88	91	94	94	100	-	88	94	82
<i>Klebsiella aerogenes</i> (formerly <i>Enterobacter aerogenes</i>)	24 ⁺	97	IR	IR	-	IR	100	88	88	100	96	100	-	21	96	100
<i>Serratia marcescens</i>	55	99	IR	IR	-	IR	96	96	96	98	100	100	-	IR	96	96
Organisms from NON-URINE SOURCES ONLY																
<i>Enterobacter cloacae</i>	71	100	IR	IR	-	IR	100	90	89	100	96	100	-	-	96	94
* <i>Escherichia coli</i>	167	100	32	41	-	45	80	79	79	75	81	100	90	-	81	66
<i>Klebsiella oxytoca</i>	38	100	IR	76	-	21	95	95	95	97	95	100	-	-	95	95
* <i>Klebsiella pneumoniae</i>	63	99	IR	75	-	74	90	89	89	98	94	100	94	-	94	84
* <i>Proteus mirabilis</i>	13 ⁺	100	92	92	-	43	100	100	100	100	92	100	100	-	92	100
<i>Pseudomonas aeruginosa</i>	218	99	-	-	-	-	94	94	-	95	92	97	96	-	96	-
Organisms from URINE (UNCOMPLICATED UTI ONLY)																
<i>Enterobacter cloacae</i>	37	-	IR	-	IR	IR	92	86	89	100	95	-	-	32	95	92
* <i>Escherichia coli</i>	1565	-	55	-	86	93	98	98	98	94	94	-	-	97	94	75
<i>Klebsiella oxytoca</i>	32	-	IR	-	100	41	100	100	100	100	97	-	-	97	97	91
* <i>Klebsiella pneumoniae</i>	111	-	IR	-	95	92	98	97	98	100	97	-	-	27	97	89
* <i>Proteus mirabilis</i>	115	-	87	-	96	96	97	97	97	97	93	-	-	IR	94	85
<i>Pseudomonas aeruginosa</i>	68	-	-	-	-	-	94	96	-	99	97	-	-	-	100	-

ESBL positive isolates: Non-Urine/Urine isolates; *E. coli* (10/45), *K. pneumoniae* (4/5), *K. oxytoca* (1/1). IR = Intrinsic Resistance, (-) = No data available

¹ Antibiotics tested on Non-Urine isolates only: *A. baumannii* complex (25), *C. freundii* (12), *K. aerogenes* (10), *S. marcescens* (51). ² Antibiotics tested on Urine isolates only.

**E. coli*, *K. pneumoniae* and *P. mirabilis* breakpoints differ for urine culture vs. cultures from all other sources.

+ % Susceptibility calculated from fewer than the standard recommendation of 30 isolates.

2018 Gram Positive Antibigram (% Susceptible)																
Organism	# of isolates tested	Ampicillin	Cefotaxime	Clindamycin	Erythromycin	Gentamicin ^a	Linezolid	Meropenem	Nitrofurantoin ^b	Oxacillin	Penicillin	Penicillin (Oral)	Rifampin ^a	Tetracycline	Trim/Sulfa	Vancomycin
<i>Enterococcus faecalis</i>	204	100	-	-	-	-	-	-	100	-	99	-	-	-	-	100
All <i>Staphylococcus aureus</i>	1657	-	-	78	48	99	100	-	98	68	0	-	100	95	96	100
MSSA	1155	-	-	77	60	99	100	-	97	100	0	-	100	95	96	100
MRSA	502	-	-	82	19	99	100	-	100	0	0	-	100	95	96	100
<i>Staphylococcus epidermidis</i>	179	-	-	50	24	84	100	-	100	34	0	-	99	86	58	100
<i>Streptococcus pneumoniae</i> *	101	-	-	90	50	-	-	93	-	-	-	72§	-	-	-	100
Meningitis breakpoint		-	88†	-	-	-	-	-	-	-	70†	-	-	-	-	-
Nonmeningitis breakpoint		-	97‡	-	-	-	-	-	-	-	97‡	-	-	-	-	-

**S. pneumoniae* % susceptible was calculated using all isolates based on meningitis, nonmeningitis and oral breakpoints.

of *S.pneumoniae* isolates tested: Penicillin=101, Cefotaxime=100, Erythromycin=64, Clindamycin=94, Meropenem=30, Vancomycin=37

†Susceptible breakpoint for *S. pneumoniae* in patients with meningitis is $\leq 0.5 \mu\text{g/mL}$ for cefotaxime and $\leq 0.06 \mu\text{g/mL}$ for penicillin.

‡ Susceptible breakpoint for *S. pneumoniae* in patients with nonmeningitis infections is $\leq 1 \mu\text{g/mL}$ for cefotaxime and $\leq 2 \mu\text{g/mL}$ for penicillin.

§ Susceptible breakpoint for *S. pneumoniae* is $\leq 0.06 \mu\text{g/mL}$ for penicillin when penicillin V is administered by the oral route.

^a Used only in combination for synergy and is not adequate therapy by itself.

^b Antibiotics tested on UTI isolates only: *E. faecalis* (197), *S. aureus* (45), *S. epidermidis* (83)

(-) =No data available