Children's Mercy Hospitals & Clinics - 2024 Antibiogram

Department of Pathology & Laboratory Medicine- Microbiology Laboratory

2024 Gram Negative Antibiogram (% susceptible)

Organism	# of isolates tested	Amikacin [1]	Ampicillin	Amp/sulbactam [1]	Cefazolin	Cefepime	Ceftazidime	Ceftriaxone	Ciprofloxacin	Gentamicin	Meropenem [1]	Pip/tazo	Tobramycin	Trimeth/Sulfa
Acinetobacter baumannii complex (includes **ALL** sources)	16 [2]	-	-	93	-	-	54	15	77	85	80	-	85	92
Citrobacter freundii (includes **ALL** sources)	39	100	IR	IR	IR	-	-	-	93	100	100	-	96	79
Klebsiella aerogenes^ (includes **ALL** sources)	34	100	IR	IR	IR	100	-	-	100	100	100	-	100	100
Serratia marcescens (includes **ALL** sources)	72	98	IR	IR	IR	100	100	100	100	100	100	-	93	100
Enterobacter cloacae (Non-urine sources **ONLY**)	68	100	IR	IR	IR	98[b]	-	-	100	98	100	-	95	95
Pseudomonas aeruginosa (Non-Urine sources **ONLY**)	236	-	-	-	-	97	97	-	92	-	96	96	97	-
Escherichia coli* (Non-Urine sources **ONLY)	94	100	49	58	66[a]	90[b]	84	82	78	90	100	93	89	72
Klebsiella oxytoca (Non-Urine sources **ONLY**)	16 [2]	100	IR	62	33[a]	89[b]	89	89	100	78	100	-	86	89
Klebsiella pneumoniae* (Non-Urine sources **ONLY)	47	100	IR	85	85 [a]	100[b]	97	97	97	100	100	100	100	97
Proteus mirabilis* (Non-Urine sources **ONLY)	9 [2]	100	86	92	14[a]	86[b]	86	86	85	71	100	100	75	86

ESBL positive isolates: *E. coli* (12), *K. pneumoniae* (3), *K. oxytoca* (2)

^ *Klebsiella aerogenes,* formerly named *Enterobacter aerogenes.*

[1] Antibiotics tested on Non-Urine isolates only: *A. baumannii* complex (14), *C. freundii* (7), *K. aerogenes* (14), *S. marcescens* (54).

[2] Please exercise discretion when data are reviewed for species with fewer that 30 isolates.

[*] Cefazolin and Cefepime susceptibility based off Kirby Bauer disc diffusion results.

IR = Intrinsic Resistance, (-) = No data available

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

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2024 Gram Negative - URINE ONLY- Antibiogram (% susceptible)

Organism	# of isolates tested	Ampicillin	Amox/clav	Cefazolin	Cefepime	Ceftazidime	Ceftriaxone	Ciprofloxacin	Gentamicin	Nitrofurantoin	Tobramycin	Trimeth/Sulfa
Enterobacter cloacae	46	IR	IR	IR	-	-	-	100	98	36	98	80
Pseudomonas aeruginosa	64	-	-	-	96	98	-	95	-	-	98	-
**Escherichia coli*	1413	54	85	91	-	95	95	91	91	97	92	73
Klebsiella oxytoca	47	IR	91	18	-	91	91	100	100	89	100	94
**Klebsiella pneumoniae*	116	IR	91	90	-	92	92	94	94	18	92	84
**Proteus mirabilis*	110	85	91	97	-	96	96	98	96	IR	96	90

ESBL positive isolates: *E. coli* (85), *K. pneumoniae* (9), *K. oxytoca* (3)

IR = Intrinsic Resistance, (-) = No data available

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

Children's Mercy Hospitals & Clinics - 2024 Antibiogram

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2024 Gram Positive Antibiogram (% Susceptible)

Organism	# of isolates tested	Ampicillin	Cefotaxime	Clindamycin	Erythromycin	Linezolid	Meropenem	Nitrofurantoin [4]	Oxacillin	Penicillin	Penicillin (Oral)	Rifampin [a]	Tetracycline	Trim/Sulfa	Vancomycin
Enterococcus faecalis	213	100	-	-	-	-	-	100	-	99	-	-	-	-	100
All Staphylococcus aureus	1358	-	-	80	55	100	-	100	72	0	-	100	94	93	100
MSSA	981	-	-	78	67	100	-	100	100	0	-	100	95	96	100
MRSA	377	-	-	87	23	100	-	100	0	0	-	100	90	87	100
Staphylococcus epidermidis	150	-	-	52	24	100	-	98	33	0	-	98	92	55	100
S. pneumoniae *	89	-	-	93	60	-	84 [2]	-	-	-	66§	-	-	-	100 [2]
Meningitis breakpoint		-	96†	-	-	-	-	-	-	65†	-	-	-	-	-
Non-meningitis breakpoint		-	100‡	-	-	-	-	-	-	99‡	-	-	-	-	-

of *S.pneumoniae* isolates tested: Penicillin=89, Cefotaxime=89, Erythromycin=68, Clindamycin=81, Meropenem=19, Vancomycin=18

†Susceptible breakpoint for *S. pneumoniae* in patients with meningitis is ≤ 0.5 µg/mL for cefotaxime and ≤ 0.06 µg/mL for penicillin

‡ Susceptible breakpoint for *S. pneumoniae* in patients with non-meningitis infections is ≤ 1µg/mL for cefotaxime and ≤ 2 µg/mL for penicillin

§ Susceptible breakpoint for *S. pneumoniae* is ≤ 0.06 µg/mL for penicillin when penicillin V is administered by the oral route

[4] Antibiotics tested on UTI isolates only: *E. faecalis* (185), *S. aureus* (45), *S. epidermidis* (79)

(-) =No data available