Children's Mercy Hospitals & Clinics - 2021 Antibiogram

Department of Pathology & Laboratory Medicine- Microbiology Laboratory

2021 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)	25 [2]	-	-	100	-	-	80	16	96	100	100	-	100	100
Citrobacter freundii (includes **ALL** sources)	45	100	IR	IR	IR	-	89	89	98	96	100	-	96	89
Klebsiella aerogenes^ (includes **ALL** sources)	26 [2]	100	IR	IR	IR	100	81	81	100	100	100	-	100	96
Serratia marcescens (includes **ALL** sources)	81	100	IR	IR	IR	99	99	99	99	100	100	-	99	99
Enterobacter cloacae (Non-urine sources **ONLY**)	63	100	IR	IR	IR	98[b]	89	89	98	98	100	-	98	95
Pseudomonas aeruginosa (Non-Urine sources **ONLY**)	181	99	-	-	-	94	95	-	99	94	96	96	98	-
Escherichia coli* (Non-Urine sources **ONLY)	166	99	43	54	59[a]	88[b]	78	77	81	88	100	94	86	68
Klebsiella oxytoca (Non-Urine sources **ONLY**)	59	100	IR	75	30[a]	96[b]	97	92	98	98	100	-	98	98
Klebsiella pneumoniae* (Non-Urine sources **ONLY)	64	100	IR	77	82[a]	98[b]	88	88	91	88	100	90	89	84
Proteus mirabilis* (Non-Urine sources **ONLY)	16 [2]	100	88	94	9[a]	100[b]	94	88	88	81	100	100	88	81

ESBL positive isolates: *E. coli* (11), *K. pneumoniae* (2), *K. oxytoca* (1)

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

[1] Antibiotics tested on Non-Urine isolates only: *A. baumannii* complex (22), *C. freundii* (20), *K. aerogenes* (11), *S. marcescens* (62).

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

[a] Cefazolin susceptibility based off Kirby Bauer results: *E.coli* (129), *K. oxytoca* (48), *K. pneumoniae* (74), and *P.mirabilis* (16).

[b] Cefepime susceptibility based off Kirby Bauer results: *E. cloacae* (47), *E.coli* (79), *K. oxytoca* (37), *K. pneumoniae* (59), and *P. mirabilis* (7)

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

**E. coli, K. pneumoniae and P. mirabilis* breakpoints differ for urine culture vs. cultures from all other sources. Please contact the Microbiology laboratory for more information.

Children's Mercy Hospitals & Clinics - 2021 Antibiogram
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2021 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	43	IR	IR	IR	-	88	84	98	95	35	95	93
Pseudomonas aeruginosa	62	-	-	-	95	95	-	95	95	-	98	-
**Escherichia coli*	1556	60	87	94	-	97	97	93	94	95	94	78
Klebsiella oxytoca	38	IR	92	8	-	97	95	100	97	84	95	89
**Klebsiella pneumoniae*	125	IR	94	94	-	94	95	94	97	24	97	88
**Proteus mirabilis*	85	87	93	98	-	100	100	96	96	IR	96	92

ESBL positive isolates: *E. coli* (44), *K. pneumoniae* (11), *K. oxytoca* (2)

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

**E. coli, K. pneumoniae and P. mirabilis* breakpoints differ for urine culture vs. cultures from all other sources. Please contact the Microbiology laboratory for more information.

Children's Mercy Hospitals & Clinics - 2021 Antibiogram

Department of Pathology & Laboratory Medicine- Microbiology Laboratory

2021 Gram Positive Antibiogram (% Susceptible)

Organism	# of isolates tested	Ampicillin	Cefotaxime	Clindamycin	Erythromycin	Gentamicin[3]	Linezolid	Meropenem	Nitrofurantoin[4]	Oxacillin	Penicillin	Penicillin (Oral)	Rifampin[a]	Tetracycline	Trim/Sulfa	Vancomycin
Enterococcus faecalis	169	99	-	-	-	-	-	-	99	-	99	-	-	-	-	99
All Staphylococcus aureus	1244	-	-	83	55	-	100	-	100	72	0	-	100	96	96	100
MSSA	898	-	-	82	68	-	100	-	100	100	0	-	100	95	97	100
MRSA	346	-	-	86	22	-	100	-	100	0	0	-	100	98	92	100
Staphylococcus epidermidis	156	-	-	56	29	85	100	-	99	32	0	-	99	93	72	100
S. pneumoniae *	58	-	-	93	48	-	-	91	-	-	-	66§	-	-	-	100
Meningitis breakpoint		-	86†	-	-	-	-	-	-	-	63†	-	-	-	-	-
Non-meningitis breakpoint		-	97‡	-	-	-	-	-	-	-	95‡	-	-	-	-	-

**S. pneumoniae* % susceptible was calculated using all isolates based on meningitis, nonmeningitis and oral breakpoints.
of *S.pneumoniae* isolates tested: Penicillin=58, Cefotaxime=58, Erythromycin=44, Clindamycin=56, Meropenem=11, Vancomycin=13

†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

[3] Used only in combination for synergy and is not adequate therapy by itself.

[4] Antibiotics tested on UTI isolates only: *E. faecalis* (139), *S. aureus* (36), *S. epidermidis* (59)

(-) =No data available