

Cumulative Antimicrobial Susceptibility of Bacteria from Cultures at Akron Children's Hospital (All Patients)

January 1 – December 31, 2022

DISCLAIMER: data for organisms with < 30 isolates should be interpreted with caution, as small numbers may bias the cumulative antimicrobial susceptibility data.

Enterobacterales % Susceptible

Organism	No. of Isolates	Ampicillin	Amp/Sulbactam	Pip/Tazobactam	Cefazolin	Ceftazidime	Ceftriaxone	Cefepime	Cefoxitin	Meropenem	Ciprofloxacin	Levofloxacin	Gentamicin	Tobramycin	Amikacin	Nitrofurantoin (urine only)	Trimeth/Sulfa
<i>Citrobacter freundii</i> complex	26	R	R	92	R	88	92	100	R	100	96	92	96	100	100	92	81
<i>Citrobacter koseri</i>	14	R	-	100	100	100	100	100	100	100	100	100	100	100	100	86	100
<i>Enterobacter cloacae</i>	167	R	R	96	R	93	94	100	R	100	100	100	98	96	100	32	93
<i>Escherichia coli</i> ¹	2,502	56	62	95	91	97	97	97	97	100	93	93	93	93	100	98	82
<i>Klebsiella aerogenes</i>	36	R	R	97	R	93	94	100	R	100	100	100	98	92	100	33	91
<i>Klebsiella oxytoca</i>	97	R	75	95	74	96	95	96	100	100	99	100	96	95	100	91	93
<i>Klebsiella pneumoniae</i>	232	R	91	97	96	98	98	98	99	100	99	100	98	97	100	31	95
<i>Morganella morganii</i>	34	R	0	100	R	88	100	100	47	100	94	94	97	94	100	R	94
<i>Pantoea</i> spp.	24	-	-	96	92	100	100	100	54	100	100	100	100	100	100	54	100
<i>Proteus mirabilis</i>	143	84	93	99	94	97	97	97	98	100	96	97	90	92	100	R	90
<i>Salmonella</i> spp.	26	85	-	-	-	-	-	-	-	-	-	100	-	-	-	-	100
<i>Serratia marcescens</i>	43	R	R	-	R	100	98	98	R	100	100	100	93	81	98	R	100

R = intrinsic resistance for antimicrobial agent/organism combination.

¹ *E. coli* (Cefazolin) % Susceptible (UTI): 95%; Susceptible (other infections): 89%.

Non-Enterobacterales % Susceptible

Organism	No. of Isolates	Ampicillin	Ampicillin/Sulbactam	Pip/Tazobactam	Piperacillin ²	Ceftazidime	Ceftriaxone	Cefepime	Aztreonam ²	Meropenem	Ciprofloxacin	Levofloxacin	Gentamicin	Tobramycin	Amikacin	Minocycline	Trimethoprim/ Sulfamethoxazole
<i>Achromobacter xylosoxidans</i>	16	-	-	100	75	88	6	44	0	100	12	31	19	17	19	100	100
<i>Acinetobacter baumannii</i> complex	36	R	85	73	-	-	37	88	R	-	-	95	-	-	-	-	-
<i>Pseudomonas aeruginosa</i> (non-CF isolates)	225	R	R	94	-	96	R	96	-	95	96	97	91	95	-	-	R
<i>P. aeruginosa</i> (rough colony type) ¹	34	R	R	100	94	97	R	100	94	100	88	-	76	94	-	-	R
<i>P. aeruginosa</i> (mucoid colony type) ¹	31	R	R	99	84	84	R	90	90	94	55	-	58	81	-	-	R
<i>P. aeruginosa</i> (smooth colony type) ¹	14	R	R	86	71	86	R	57	86	86	43	-	50	93	-	-	R
<i>Stenotrophomonas maltophilia</i>	83	R	R	R	R	50	R	-	R	R	-	92	R	R	R	100	91

¹ Isolates from patients with cystic fibrosis

² Piperacillin & Aztreonam only routinely tested on *P. aeruginosa* isolates from patients with cystic fibrosis

R = intrinsic resistance

Gram positive cocci % Susceptible

Organism	No. of Isolates	Oxacillin	Ampicillin	Penicillin	Cefotaxime	Ceftriaxone	Vancomycin	Linezolid	Levofloxacin	Daptomycin	Gentamicin	Erythromycin	Clindamycin	Trimethoprim/ Sulfamethoxazole	Tetracycline	Nitrofurantoin (urine only)	Gentamicin synergy	Streptomycin synergy
<i>Streptococcus pneumoniae</i>	69	-	-	100/75*	96/90*	100/87*	100	100	100	-	-	65	91	87	90	-	-	-
<i>Streptococcus pyogenes</i> (Grp A)	121	-	100	100	100	100	100	-	96	-	-	86	86	-	85	-	-	-
<i>Streptococcus agalactiae</i> (Grp B)	293	-	100	100	100	100	100	-	99	-	-	21	28	-	12	-	-	-
<i>Streptococcus</i> spp. viridans group **	90	-	94	-	98	98	100	-	95	-	-	57	71	-	60	-	-	-
<i>Enterococcus faecalis</i>	442	-	100	-	-	-	100	100	99	-	-	-	-	-	-	100	92	97
<i>Enterococcus faecium</i>	25	-	52	-	-	-	96	100	52	-	-	-	-	-	-	28	84	72
Oxacillin-resistant <i>Staphylococcus aureus</i> (MRSA)	492	0	-	-	-	-	100	100	-	100	99	17	77	97	95	99	-	-
Oxacillin-susceptible <i>Staphylococcus aureus</i> (MSSA)	1007	100	-	-	-	-	100	100	-	100	99	61	75	98	95	100	-	-
<i>Staphylococcus epidermidis</i>	164	37	-	-	-	-	100	100	-	100	91	29	48	69	86	100	-	-
<i>Staphylococcus. similans</i>	21	90	-	-	-	-	100	100	-	100	100	71	71	100	100	100	-	-
<i>Staphylococcus hominis</i>	25	44	-	-	-	-	100	100	-	100	100	28	56	72	79	100	-	-

* Nonmeningitis/ meningitis breakpoint

** Included *Streptococcus anginosus* (33), *S. intermedius* (15), *S. constellatus* (14), *S. mitis/oralis* (12), *S. gallolyticus pasteurianus* (7), *S. Streptococcus infantarius* ssp coli (5), *S. salivarius* ssp salivarius (2), *S. sanguinis* (1), and *S. parasanguinis* (1).