

2025 Combined Antibigram

Contact Information

For susceptibility test questions and data analysis please contact: Dr. Taylor Wahlig or Dr. Sophie Arbefeville at (715) 381-6300 or ext. 16300.

For antimicrobial stewardship questions please contact: Philip (Logan) Whitfield at (715) 387-7578 or ext. 77578.

For urgent questions regarding a specific patient case, please consult your local infectious diseases physician.



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*Inpatient and outpatient isolates have been combined without clinically or statistically significant differences.

Gram-positive Streptococci and Enterococci % Susceptible	No. Tested	Ampicillin	Amoxicillin	Penicillin IV	Ceftriaxone	Meropenem	Clindamycin	Erythromycin ^[4]	Levofloxacin	Ciprofloxacin	Linezolid	Nitrofurantoin	Tetracycline	Trimeth-Sulfa	Vancomycin
Streptococci															
<i>Grp. B Streptococcus agalactiae</i>	276	100	SP	100	100	-	41	40	98	-	100	-	16	-	100
<i>Grp. A Streptococcus pyogenes</i>	80	100	SP	100	100	-	91	91	98	-	100	-	79	-	100
<i>Grp. G Streptococci</i>	61	100	SP	100	100	-	85	85	100	-	100	-	66	-	100
<i>S. pneumoniae (Non-meningeal)</i>	58	SP ^[1]	SP ^[1]	98	97	86	-	66	96	-	SP	-	59	91	SP
<i>S. pneumoniae (Meningeal)</i>	58	-	-	74	88	86	-	-	-	-	SP	-	-	-	SP
<i>S. anginosus</i>	83	100	SP ^[2]	99	99	-	81	68	99	-	100	-	43	-	100
<i>S. constellatus</i>	44	98	SP ^[2]	95	95	-	73	73	100	-	100	-	68	-	100
Enterococci															
<i>Enterococcus faecalis</i>	932	100	SP ^[2]	100	R	-	R	R	90 ^[u]	88 ^[u]	98	100 ^[u]	30 ^[u]	R	100
<i>Enterococcus faecium</i>	91	24	-	23	R	-	R	R	21 ^[u]	16 ^[u]	95	20 ^[u]	27 ^[u]	R	53

Gram-positive Staphylococci % Susceptible	No. Tested	Penicillin	Oxacillin ^[5]	Ceftaroline	Vancomycin	Erythromycin	Clindamycin	Gentamicin ^[3]	Trimeth-Sulfa	Linezolid	Daptomycin	Nitrofurantoin	Rifampin ^[3]	Tetracycline
<i>Staphylococcus aureus</i>	1693	0	74	100	100	62	78	99	95	100	100	100 ^[u]	100	90
<i>Staphylococcus lugdunensis</i>	182	3	91	-	100	85	85	100	100	100	100	100 ^[u]	100	95
<i>Staphylococcus epidermidis</i>	206	-	36	-	100	33	67	94	56	100	100	100 ^[u]	99	76
<i>Staphylococcus intermedius</i>	57	-	91	-	100	81	86	84	86	100	100	100 ^[u]	100	58

Notes

^[1] Based on susceptibility to standard dose IV penicillin, susceptibility to oral penicillin, and studies of clinical efficacy, nearly all non-meningeal pneumococcal infections can be effectively treated with IV ampicillin or with high dose oral amoxicillin (in children: 80-100 mg/kg/day divided TID; adult dose and maximum dose in children: 1 g TID)

^[2] Susceptibility approximately equivalent to ampicillin

^[3] Should only be used in combination with other active agents

^[4] Erythromycin susceptibility predicts susceptibility to azithromycin and clarithromycin

^[5] Oxacillin predicts susceptibility to anti-staphylococcal penicillins, beta-lactam/lactamase inhibitor combinations, oral cepheims (e.g. cephalexin, cefprozil, cefuroxime), IV cepheims (e.g. cefazolin, cefepime), and carbapenems.

^[u] Use for uncomplicated cystitis ONLY

Susceptibility

<60%	60-89%	≥90%
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Analysis Key

R	Isolate is resistant
-	Antimicrobial not routinely tested
SP	Susceptibility predicted

Gram-negative Enterobacterales % Susceptible	No. Tested	Ampicillin	Amox-clav ^[2]	Ampicillin-sulb	Piperacillin-tazo	Cefazolin ^[1]	Cefuroxime	Cefpodoxime	Cefoxitin	Ceftriaxone	Cefepime	Aztreonam	Ertapenem	Meropenem	Amikacin	Gentamicin	Tobramycin	Ciprofloxacin	Levofloxacin	Trimeth-Sulfa
<i>Citrobacter freundii</i> complex	178	R	R	R	R	R	R	R	R	R	100	R	99	100	100	94	97	91	91	89
<i>Citrobacter koseri</i>	89	R	100	-	100	99	82	100	99	100	100	100	100	100	100	100	100	99	100	100
<i>Enterobacter cloacae</i> complex	281	R	R	R	R	R	R	R	R	R	98	R	95	100	100	100	99	95	95	93
<i>Escherichia coli</i>	6096	66	86	72	94	70	88	93	93	95	96	96	100	100	100	94	95	84	85	85
<i>Klebsiella aerogenes</i>	141	R	R	R	R	R	R	R	R	R	99	R	99	100	100	100	100	96	96	100
<i>Klebsiella oxytoca</i>	283	R	93	75	92	3	92	97	96	94	98	95	100	100	100	98	98	96	97	96
<i>Klebsiella pneumoniae</i>	991	R	94	86	91	81	92	96	97	96	97	96	100	100	100	97	97	90	90	94
<i>Morganella morganii</i>	80	R	R	25	99	R	R	-	R	93	-	99	100	100	100	95	95	94	94	93
<i>Proteus mirabilis</i>	476	84	85	92	100	11	97	98	98	98	98	100	100	100	100	93	95	89	89	87
<i>Providencia rettgeri</i>	39	R	R	77	97	R	92	95	100	100	100	97	100	100	-	100	97	92	82	95
<i>Serratia marcescens</i>	119	R	R	R	78	R	R	73	R	95	99	99	100	100	100	100	87	91	92	100

Gram-negative URINE ONLY* % Susceptible	No. Tested	Ampicillin	Amox-clav ^[2]	Ampicillin-sulb	Piperacillin-tazo	Cefazolin	Cefuroxime	Cefpodoxime	Ceftriaxone	Cefepime	Aztreonam	Ertapenem	Meropenem	Amikacin	Gentamicin	Tobramycin	Ciprofloxacin	Levofloxacin	Nitrofurantoin ^[3]	Trimeth-Sulfa
<i>Citrobacter freundii</i> complex	156	R	R	R	R	R	R	R	R	100	R	99	100	100	94	96	90	90	94 ⁺	88
<i>Citrobacter koseri</i>	80	R	100	-	96	99	81	100	99	100	100	100	100	100	100	100	99	100	92 ⁺	100
<i>Enterobacter cloacae</i>	187	R	R	R	R	R	R	R	R	98	R	94	100	99	99	99	94	94	31 ⁺	91
<i>Escherichia coli</i>	5863	66	86	73	94	93	88	93	95	96	96	100	100	100	94	95	84	85	98	85
<i>Klebsiella aerogenes</i>	120	R	R	R	R	R	R	R	R	99	R	99	100	100	100	100	97	96	7 ⁺	100
<i>Klebsiella oxytoca</i>	230	R	93	75	92	R	92	97	94	98	95	100	100	100	99	99	96	96	73 ⁺	97
<i>Klebsiella pneumoniae</i>	922	R	94	86	91	94	92	96	96	97	96	100	100	100	97	97	90	91	24 ⁺	94
<i>Morganella morganii</i>	55	R	R	25	98	R	R	-	90	-	99	100	100	100	96	96	93	93	R	95
<i>Proteus mirabilis</i>	413	84	85	92	100	96	98	98	98	98	100	100	100	100	94	95	91	90	R	89
<i>Providencia rettgeri</i>	32	R	R	78	97	R	94	97	100	100	97	100	100	-	100	100	94	81	R	89
<i>Serratia marcescens</i>	57	R	R	R	78	R	R	68	95	98	98	100	100	98	98	81	88	88	R	100

Gram-negative Non-Enterobacterales % Susceptible	No. Tested	Piperacillin-tazo	Ceftazidime	Cefepime	Meropenem	Tobramycin	Ciprofloxacin	Levofloxacin	Minocycline	Trimeth-Sulfa
<i>P. aeruginosa</i>	667	93	97	96	95	98	91	88	R	R
<i>S. maltophilia</i>	57	R	-	-	R	R	-	74	93	98

Analysis Key

R	Isolate is resistant
-	Antimicrobial not routinely tested

Susceptibility

≥90%
60-89%
<60%

Notes

^[U] Use nitrofurantoin for uncomplicated cystitis ONLY

^[1] Non-urine isolates only

^[2] In the treatment of infections due to Enterobacterales, use amoxicillin-clavulanate only for uncomplicated cystitis or step-down therapy for systemic infection.

*Assess patient's previous urine culture and susceptibility results. In the absence of previous resistance, first-line agents for uncomplicated cystitis are TMP/SMX, nitrofurantoin, and cephalexin.

[†]Based on 2024 data