

UAB MEDICINE

Antimicrobial Stewardship Program

Antibiogram

Emergency Department Antibiogram

The following guideline may inform the selection of empiric therapy and is not intended to replace clinical judgement.

This antibiogram has been formulated using data obtained from blood, bronchoalveolar lavage (BAL), cerebral spinal fluid (CSF), and urine cultures collected in the GED, ED and UED locations.

Gram positive bacteria	Number of Isolates	Ampicillin	Oxacillin	Penicillin	Ceftriaxone	Vancomycin	Tetracycline	Clindamycin	Trimethoprim-Sulfamethoxazole	Gentamicin 500 ^a	Daptomycin ^b	Linezolid	Moxifloxacin	Nitrofurantoin ^c
<i>Staphylococcus aureus</i> (MSSA)	143		100	30		100	92 ^e	68 ^e	99		99	99		100
<i>Staphylococcus aureus</i> (MRSA)	166					99	82 ^e	99 ^e	52		92	100		100
<i>Staphylococcus epidermidis</i>	374		33			100	74 ^e	53 ^e	51		100	100		
<i>Enterococcus faecalis</i>	222	98		98		96	22			77	99	99		99
<i>Enterococcus faecium</i>	74	16				31	12			54	76 ^f	98		46
<i>Streptococcus pneumoniae</i>	44			100	100	100	64	61					100	
<i>Streptococcus agalactiae</i> (GBS)	30			100			17	30						
Viridans group Streptococci ^d	76			73	92	100	51	76						

Gram negative bacteria	Number of isolates	Ampicillin	Cefazolin	Ceftriaxone	Ceftazidime	Cefepime	Piperacillin-Tazobactam	Meropenem	Trimethoprim-Sulfamethoxazole	Ciprofloxacin	Amikacin	Gentamicin	Tobramycin	Nitrofurantoin ^c
<i>Enterobacter cloacae</i> complex	49					82 ^g		100	88	88		92	90	16
<i>Escherichia coli</i>	707	39	56	78		95 ^g	100 ^e	100	66	57 ^b	100 ^e	90	90	93
<i>Klebsiella pneumoniae</i>	336		66	71		72 ^g	97 ^e	99	69	72	55 ^e	86	85	33
<i>Proteus mirabilis</i>	138	72	62	88		91 ^g	97 ^e	99	76	72		92	95	
<i>Pseudomonas aeruginosa</i>	133				80	97	91	94		78			96	
<i>Serratia marcescens</i>	26			69		100 ^g	69 ^e	100	100	92		100	85	

- Intrinsic Resistance
- No data/Not enough data

- (a) High level aminoglycoside resistance is only used on *Enterococcus* species to predict synergy with ampicillin, penicillin, and vancomycin.
- (b) Testing is not performed on respiratory isolates
- (c) Testing is only performed on urine isolates. Not recommended for use outside of the urinary tract
- (d) Viridans group Streptococci includes the following species: *S. mitis*, *S. oralis*, *S. anginosus*, *S. intermedius*, *S. constellatus*, *S. infantarius*, *S. mutans*, *S. gallolyticus*, *S. parasanguinis*
- (e) Testing is not performed on all isolates
- (f) Calculated using Susceptible and Susceptible dose dependent (SDD) values. SDD is based on a dosing regimen of 8-12mg/kg administered every 24h.
- (g) Calculated using Susceptible and Susceptible dose dependent (SDD) values. SDD is based on a dosing regimen of 2g administered every 8h.

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