Community Antibiograms



Summit and Wasatch Counties, UT

Antibiograms summarize local antimicrobial resistance profiles, supporting clinicians in selecting appropriate empiric antibiotics prior to the availability of organism-specific susceptibility. The tables below show the **percentage of microbial isolates susceptible to various antibiotics**. The data was collected in 2024 from Intermountain Health emergency departments and inpatient facilities within the stated geographical region.

Definitive antibiotic therapy should be based on the causative organism(s) susceptibility profile and clinical context once identified.

Susceptibility Rates (%) of Gram-Negative Isolates to Common Antimicrobials

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N (#) Species/Organism

311	Escherichia coli	79	64	81	89	89	89	80	100	91	84	100	93	97	69	92	77
55	Klebsiella pneumoniae	91	78	91	95	91	93	95	98	98	98	98	43	96	92	98	96
32	Pseudomonas aeruginosa				91	97		78			75	97		97		100	
18	Enterobacter cloacae cmplx				89	89	78	94	100	100	94	100	50	89	100	100	94
16	Klebsiella oxytoca	67	50	38	75	75	75	69	100	81	81	100	80	94	78	75	75
16	Proteus mirabilis	94	50	63	94	88	94	44	100	50	44	100		94		50	31

Susceptibility Rates (%) of Gram-Positive Isolates to Common Antimicrobials

	N (#)	Species/Organism	P	mpicilin	etriatori	auto,	aptorny	shotlots	ine Zolid	afcilin'	itotnia	ricilin Te	etracyclines	ing 19	ricous
	91	MSSA			70	100		100	100	100		87	99	100	*
	73	Enterococcus faecalis	99			49	90*	100		94	99	31		97	lr
	34	Streptococcus anginosus group		100	85						100			97	d
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100

100

100

100

* For cystitis only

Interpret the data cautiously in organisms with ≤30 isolates, as they may not be accurate.

 In 2024, 10% of E. coli, 25% of K. oxytoca, 6% of P. mirabilis, and 5% of K. pneumoniae screened positive for extended spectrum β-lactamase (ESBL).

Staphylococcus epidermidis

MRSA

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- Aminoglycoside monotherapy is not recommended for most infections. Gentamicin is no longer recommended for P. aeruginosa.
- Certain organisms, including Enterobacter cloacae, Klebsiella aerogenes, and Citrobacter freundii can become resistant to 3rd-generation cephalosporins (ceftriaxone, cefotaxime, ceftazidime) during treatment of severe infections despite initial in vitro susceptibility. Cefepime may be an alternative option and higher doses may be required.
- Enterococcus spp. are intrinsically resistant to cephalosporins. Fluoroquinolones (e.g., ciprofloxacin, levofloxacin) should not be used to treat any enterococcal infection except uncomplicated cystitis in patients with severe penicillin allergy.
- Ertapenem is not active against Pseudomonas, Acinetobacter, or Enterococcus spp.

 Beta-lactamase positive Haemophilus spp. are resistant to penicillin, ampicillin, and amoxicillin.

100

100

Beta-hemolytic streptococci (Groups A, B, C, G) are universally susceptible
to β-lactams (penicillins, cephalosporins) and vancomycin; therefore routine
susceptibility testing is not needed for these agents. However, resistance to
clindamycin and azithromycin can be present.

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- Methicillin-susceptible Staphylococcus aureus (MSSA) are resistant to penicillin, ampicillin, and amoxicillin. First-line agents are nafcillin/dicloxacillin and cefazolin/cephalexin. Second-line agents include: amoxicillin/clavulanate, ampicillin/sulbactam, cefuroxime, and ceftriaxone.
- S. aureus bacteremia in adults must be treated with intravenous antibiotics and infectious diseases should be consulted. Outcomes with β-lactam treatment for MSSA are better than vancomycin. S. aureus in the blood is never a contaminant.