


Antibiotic Susceptibility of Common Organisms

2023 STHS McAllen - All Units

Numbers indicate percent susceptible; only the first isolate per patient per period is included

		# of isolates	Beta-Lactams							FQ	AGs			Miscellaneous				Urine Isolates Only									
			Oxacillin	Ampicillin ¹	Ampicillin/Subactam	Piperacillin/Tazobactam	Cefazolin	Ceftriaxone	Cefepime	Meropenem	Ciprofloxacin	Amikacin	Gentamicin	Tobramycin	Clindamycin	Tetracycline ³	TMP/SMX (Bactrim)	Vancomycin	Linezolid	# of isolates	1st Gen. Ceph (oral) ⁴	Nitrofurantoin ⁵	Ciprofloxacin	Ampicillin	TMP/SMX (Bactrim)		
Gram-Negative	<i>Acinetobacter baumannii</i>	85	-	-	30	26	-	-	23	23	22	-	26	25	-	-	67	-	-	-	-	-	-	-	-	-	-
	<i>Citrobacter freundii</i> ⁴	27	-	-	-	93	-	-	93	100	89	100	93	93	-	-	85	-	-	-	-	-	-	-	-	-	-
	<i>Citrobacter koseri</i> ⁴	23	-	-	-	100	100	100	100	100	100	100	96	100	-	-	100	-	-	-	-	-	-	-	-	-	-
	<i>Enterobacter cloacae</i> ⁶	112	-	-	-	76	-	-	96	96	90	100	99	99	-	-	85	-	-	27	-	-	89	-	74	-	-
	<i>Escherichia coli</i>	1524	-	34	51	92	67	70	70	100	55	100	80	75	-	-	59	-	-	1144	65	96	57	35	59	-	-
	<i>Klebsiella aerogenes</i> ^{7, 8}	56	-	-	-	80	-	-	94	98	91	100	98	98	-	-	98	-	-	15	-	-	87	-	93	-	-
	<i>Klebsiella oxytoca</i>	52	-	0	44	77	29	62	73	99	70	100	75	73	-	-	64	-	-	-	-	-	-	-	-	-	-
	<i>Klebsiella pneumoniae</i>	537	-	0	61	85	66	67	67	95	69	96	85	79	-	-	68	-	-	296	-	31	73	0	74	-	-
	<i>Morganella morganii</i>	38	-	0	10	97	-	-	92	97	100	76	100	92	95	-	-	76	-	-	-	-	-	-	-	-	-
	<i>Proteus mirabilis</i>	370	-	55	71	100	66	92	97	100	75	100	80	80	-	-	68	-	-	210	69	0	75	57	68	-	-
	<i>Pseudomonas aeruginosa</i>	480	-	-	-	73	-	-	82	72	75	-	-	95	-	-	-	-	59	-	-	70	-	-	-	-	-
	<i>Serratia marcescens</i>	45	-	-	-	98	-	98	98	96	89	100	98	91	-	-	100	-	-	-	-	-	-	-	-	-	-
	<i>Stenotrophomonas</i>	33	-	-	-	73	-	-	-	-	-	-	-	-	-	-	87	-	-	-	-	-	-	-	-	-	-
	Gram Positive	<i>Staphylococcus aureus</i> ^{8,9}	641	57	-	-	-	-	-	-	-	-	87	-	69	81	94	100	100	35	-	94	-	-	92	-	-
<i>Staphylococcus epidermidis</i>		120	-	-	-	-	-	-	-	-	-	78	-	44	85	56	100	100	-	-	-	-	-	-	-	-	-
<i>Staphylococcus hominis</i>		64	-	-	-	-	-	-	-	-	-	94	-	64	63	61	100	100	-	-	-	-	-	-	-	-	-
<i>Enterococcus faecalis</i>		405	-	100	-	-	-	-	-	-	-	-	-	-	23	-	98	97	165	-	97	-	99	-	-	-	-
<i>Enterococcus faecium</i> ⁹		75	-	4	-	-	-	-	-	-	-	-	-	-	14	-	32	90	-	-	-	-	-	-	-	-	-

Resistance Rates: 43% MRSA, 12% VRE, 29% ESBL, CRE 3%

¹ Ampicillin susceptibility indicates susceptibility to amoxicillin, amoxicillin-clavulanate, ampicillin-sulbactam, and piperacillin-tazobactam

² Aztreonam use is reserved for severe penicillin allergy (e.g. anaphylaxis); caution: may cross-react with ceftazidime allergy

³ Tetracycline susceptibility indicates susceptibility to doxycycline and minocycline; some organisms resistant to tetracycline may be susceptible to doxycycline or minocycline

⁴ When used for therapy of uncomplicated UTIs due to *E. coli*, *K. pneumoniae*, and *P. mirabilis*, cefazolin susceptibility indicates susceptibility to the oral agents cefaclor, cefdinir, cefpodoxime, cefprozil, cefuroxime axetil, and cephalexin

⁵ Nitrofurantoin is indicated for use in cystitis only; it should not be used for systemic infections, including pyelonephritis

⁶ Use of 3rd generation cephalosporins is not recommended; these organisms frequently become resistant during therapy

⁷ Formerly known as *Enterobacter aerogenes*

⁸ Oxacillin and cefazolin are considered first-line antibiotic therapies for MSSA

⁹ For staphylococci that test susceptible, aminoglycosides must be used in combination with beta-lactams or vancomycin for synergy

[†] Susceptibility rates determined on small sample size (<30) and may be statistically unreliable; interpret with caution