


Antibiotic Susceptibility of Common Organisms

2021 STHS Edinburg - 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/Sulbactam	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>	61	-	-	15	10	-	-	11	15	13	-	18	20	-	-	90	-	-	-	-	-	-	-	-	-
	<i>Citrobacter freundii</i> ^x	18	-	-	-	83	-	-	100	100	94	100	83	89	-	-	78	-	-	-	-	-	-	-	-	-
	<i>Enterobacter cloacae</i> ⁶	91	-	-	-	78	-	-	97	100	99	100	95	95	-	-	90	-	-	22 ^x	-	-	95	-	91	
	<i>Escherichia coli</i>	976	-	34	48	93	72	75	75	100	65	99	82	77	-	-	58	-	-	731	73	96	67	34	58	
	<i>Klebsiella aerogenes</i> ⁷	56	-	-	-	84	-	-	100	100	100	100	98	98	-	-	95	-	-	26 ^x	-	-	100	-	92	
	<i>Klebsiella oxytoca</i> ^x	29	-	0	66	97	90	90	90	100	93	100	90	90	-	-	83	-	-	-	-	-	-	-	-	-
	<i>Klebsiella pneumoniae</i>	310	-	0	64	85	74	75	76	95	83	98	87	83	-	-	70	-	-	194	-	27	86	0	74	
	<i>Morganella morganii</i> ^x	29	-	0	0	100	-	97	100	100	71	100	72	93	-	-	72	-	-	-	-	-	-	-	-	-
	<i>Proteus mirabilis</i>	195	-	67	78	100	93	98	99	100	86	99	84	84	-	-	75	-	-	97	93	0	81	62	-	-
	<i>Pseudomonas aeruginosa</i>	253	-	-	-	83	-	-	86	85	83	97	92	95	-	-	-	-	-	58	-	-	80	-	-	-
	<i>Serratia marcescens</i> ^x	26	-	-	-	100	-	88	100	100	92	100	100	100	-	-	100	-	-	-	-	-	-	-	-	-
Gram Positive	<i>Staphylococcus aureus</i> ^{8,9}	340	56	-	-	-	-	-	-	-	-	92	-	74	93	90	100	100	19 ^x	-	-	100	-	-	79	
	<i>Staphylococcus epidermidis</i>	80	-	-	-	-	-	-	-	-	-	90	-	49	81	56	99	100	-	-	-	-	-	-	-	
	<i>Staphylococcus hominis</i>	46	-	-	-	-	-	-	-	-	-	93	-	74	57	72	100	100	-	-	-	-	-	-	-	
	<i>Enterococcus faecalis</i>	268	-	100	-	-	-	-	-	-	-	-	-	-	17	-	100	100	97	-	36	-	100	-	-	
	<i>Enterococcus faecium</i> ⁹	26	-	0	-	-	-	-	-	-	-	-	-	-	23	-	42	77	-	-	-	-	-	-	-	

Resistance: 44% MRSA, 5% VRE, 24% ESBL

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 cephalixin

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

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