

Antibiotic Susceptibility of Common Organisms

2023 STHS Heart - 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's (oral) ⁴	Nitrofurantoin ⁵	Ciprofloxacin	Ampicillin	TMP/SMX (Bactrim)	
Gram Negative	Enterobacter cloacae ^{6‡}	19	-	-	-	79	-	-	95	95	95	100	95	95	-	-	90	-	-	-	-	-	-	-	-	-
	Escherichia coli	192	-	30	53	93	63	65	66	100	50	100	77	73	-	-	54	-	-	143	68	97	50	44	57	
	Klebsiella pneumoniae	86	-	0	64	92	64	68	70	99	72	100	92	92	-	-	69	-	-	171	71	48	71	0	70	
	Proteus mirabilis	40	-	60	75	97	62	93	100	97	80	100	85	82	-	-	72	-	-	-	-	-	-	-	-	
	Pseudomonas aeruginosa	95	-	-	-	89	-	-	94	88	90	-	-	97	-	-	-	-	-	-	-	-	-	-	-	
Gram Positive	Staphylococcus aureus ^{7,8}	64	52	-	-	-	-	-	-	-	-	81	-	53	77	88	100	100	-	-	-	-	-	-	-	
	Staphylococcus epidermidis	19	28	-	-	-	-	-	-	-	-	92	-	45	83	67	100	100	-	-	-	-	-	-	-	
	Enterococcus faecalis	87	-	100	-	-	-	-	-	-	-	-	-	-	21	-	100	98	103	-	100	-	100	-	-	

Resistance: 48% MRSA, 4% VRE, 33% ESBL, 1% CRE

¹ Ampicillin susceptibility for Enterococcus 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 Oxacillin and cefazolin are considered first-line antibiotic therapy for MSSA

⁸ For staphylococci and enterococci 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