


Antibiotic Susceptibility of Common Organisms

2022 STHS Edinburg Children's - 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. Cephs (oral) ⁴	Nitrofurantoin ⁵	Ciprofloxacin	Ampicillin	TMP/SMX (Bactrim)	
Gram Negative	Enterobacter cloacae ^{6,x}	27	-	-	-	81	-	-	100	100	100	100	96	96	-	-	89	-	-	-	-	-	-	-	-	-
	Escherichia coli	667	-	39	57	95	86	87	87	100	84	98	84	83	-	-	58	-	-	597	85	96	84	39	59	
	Haemophilus influenzae	32	-	66	97	-	-	100	-	-	100	-	-	-	-	-	27	-	-	-	-	-	-	-	-	
	Klebsiella oxytoca ^x	24	-	0	96	96	96	96	96	100	100	96	96	-	-	96	-	-	22 ^x	95	100	100	0	95		
	Klebsiella pneumoniae	97	-	0	77	88	88	89	88	100	94	99	90	90	-	-	80	-	-	79	89	30	96	0	82	
	Proteus mirabilis	98	-	69	87	100	96	100	100	100	98	100	92	93	-	-	87	-	-	91	96	0	98	68	86	
	Pseudomonas aeruginosa	119	-	-	-	94	-	-	97	95	93	97	82	86	-	-	-	-	-	27 ^x	-	-	98	-	-	
	Serratia marcescens ^x	21	-	-	-	100	-	86	95	100	95	100	76	67	-	-	100	-	-	-	-	-	-	-	-	
Gram Positive	Staphylococcus aureus ^{8,9}	142	56	-	-	-	-	-	-	-	-	95	-	78	99	94	100	100	-	-	-	-	-	-	-	
	Staphylococcus epidermidis	83	46	-	-	-	-	-	-	-	-	88	-	65	88	90	100	100	-	-	-	-	-	-	-	
	Staphylococcus hominis	76	36	-	-	-	-	-	-	-	-	96	-	56	71	85	100	100	-	-	-	-	-	-	-	
	Streptococcus pneumoniae ^x	18	-	-	-	-	78	-	-	-	-	-	-	-	59	50	39	100	100	-	-	-	-	-	-	
	Enterococcus faecalis	94	-	100	-	-	-	-	-	-	-	-	-	-	28	-	100	98	79	-	99	-	100	-	-	

Resistance: 44% MRSA, 0% VRE, 13% 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 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 MRSA

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