

BAY AREA HOSPITAL  
2023 ANTIBIOGRAM

	PENICILLINS			OTHER											
	PENICILLIN	AMPICILLIN (or Amoxicillin)	OXACILLIN (PREDICTS CEFAZOLIN, AMPICILLIN, CEFTRIAXONE)	CEFTRIAXONE	GENTAMICIN †	GENT SYNERGY †	VANCOMYCIN	TETRACYCLINE # (Predicts susceptible results to Doxycycline only)	CLINDAMYCIN #	AZITHROMYCIN	RIFAMPIN	LEVOFLOXACIN	TRIMETH / SULFA	NITROFURANTOIN	Linezolid
Staphylococcus aureus ALL	-	-	61% 681	-	99% 681	-	100% 681	91% 681	77% 602	46% 602	99% 681	58% 681	100% 680	99% 79	-
S. aureus MSSA	-	-	100% 414	-	98% 414	-	100% 414	93% 414	84% 363	66% 363	99% 414	82% 414	100% 413	100% 51	-
S. aureus MRSA	-	-	0% 267	-	99% 267	-	100% 267	88% 267	67% 239	14% 239	99% 267	21% 2667	99% 267	96% 28	-
Staphylococcus epidermidis*	-	-	49% 37	-	95% 37	-	100% 37	84% 37	63% 24	50% 24	100% 37	70% 37	62% 37	100% 13	-
Staphylococcus coagulase neg * **	-	-	74% 101	-	93% 102	-	100% 102	85% 102	81% 79	71% 79	99% 102	90% 102	91% 102	100% 23	-
Enterococcus faecium*	20% 5	40% 5	-	-	-	100% 5	80% 5	-	-	-	-	-	-	-	100% 5
Enterococcus faecalis*	100% 26	100% 26	-	-	-	92% 26	92% 26	-	-	-	-	-	-	100% 16	-
Streptococcus pneumoniae*###	93% 30	-	-	100% 30	-	-	100% 30	77% 30	-	80% 30	-	100% 30	60% 30	-	-
COST / DAY	\$\$	\$	\$\$	\$	\$	\$	\$\$	\$/\$\$ ***	\$	\$ ^	\$/\$\$ ***	\$	\$	\$	

KEY TO APPROXIMATE COST/DAY: \$=\$1-25; \$\$=\$26-100; \$\$\$=\$101-200; \$\$\$\$=>\$200 (All costs are for IV except: Doxycycline, Nitrofurantoin, and Trimeth/Sulfa).

COLOR KEY: **YELLOW**: 75-90% susceptible; **RED**: <=74% susceptible; **GREEN**: 1<sup>st</sup> line recommendation and >90% susceptible.

**Antibiotics highlighted in YELLOW and RED should be avoided when treating empirically.**

(\*) There is less statistical validity for the estimate of percent susceptibility for organisms with fewer than 30 isolates.

(-) Drug not tested or drug not indicated.

(#) Clindamycin tested after induction. (†) Use only with other agents that test susceptible. (\*\*) Other than *S. epidermidis*.

(###) Tetracycline is not available - price is for Doxycycline PO. (^) Price is for Azithromycin IV. (\*\*\*) Price is for PO/IV

(####) Amoxicillin is a recommended agent of choice for ORAL therapy in outpatients OR as a stepdown therapy (non-meningeal infections only). Sensitivity is based off of Penicillin data.

**GRAM NEGATIVE BACILLI**

% Susceptible/ # Strains Tested

Jan - Dec 2023

**BAY AREA HOSPITAL  
2023 ANTI BIOGRAM**

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	PENICILLINS			CEPHALOSPORINS				MONO-BACTAM	AMINOGLYCOSIDES		CARBAPENEMS		FLUOROQUINOLONES		OTHER	
	AMPICILLIN (or Amoxicillin)	AMP / SULBACTAM	PIP / TAZOBACTAM	CEFZOLIN (or Cephalexin)	CEFTRIAZONE	CEFTAZIDIME	CEFEPIME	AZTREONAM	GENTAMICIN	TOBRAMYCIN	ERTAPENEM #	MEROPENEM #	CIPROFLOXACIN	LEVOFLOXACIN	TRIMETH / SULFA	NITROFURANTOIN
<b>Citrobacter freundii*</b>			96%		76%	76%	96%	76%	88%	88%	100%	100%	92%	96%	92%	89%
			25		25	25	25	25	25	25	25	25	25	25	25	18
<b>Enterobacter cloacae</b>			92%		75%	77%	98%	85%	96%	96%	94%	100%	100%	100%	90%	31%
			52		52	52	52	52	52	52	52	52	52	52	52	26
<b>Escherichia coli (Total)</b>	69%	74%	99%	92%	94%	94%	96%	94%	96%	97%	100%	100%	89%	89%	86%	99%
	1219	1219	1219	1219	1219	1219	1219	1219	1219	1219	1219	1219	1219	1219	1219	1107
<b>Escherichia coli (Sensitive)</b>	72%	75%	99%	96%	93%	98%	100%	98%	97%	97%	100%	100%	91%	92%	88%	99%
	1167	1167	1167	1167	1167	1167	1167	1167	1167	1167	1167	1167	1167	1167	1167	1062
<b>Escherichia coli (ESBL)</b>	0%	44%	94%	0%	0%	0%	0%	0%	83%	79%	98%	100%	37%	42%	48%	100%
	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	45
<b>Klebsiella aerogenes* #</b>			85%		80%	80%	100%	85%	100%	100%	95%	100%	100%	100%	95%	20%
			20		20	20	20	20	20	20	20	20	20	20	20	15
<b>Klebsiella oxytoca #</b>		67%	90%	61%	92%	94%	96%	88%	96%	94%	100%	100%	92%	96%	92%	91%
		51	51	51	51	51	51	51	51	51	51	51	51	51	51	32
<b>Klebsiella pneumoniae</b>		82%	97%	91%	94%	94%	94%	93%	97%	97%	100%	100%	96%	98%	89%	55%
		150	150	150	150	150	150	150	150	150	150	150	150	150	150	133
<b>Morganella morganii* #</b>		4%	100%		83%	86%	100%	96%	87%	91%	96%	100%	87%	96%	78%	
		23	23		23	7	23	23	23	23	23	23	23	23	23	
<b>Proteus mirabilis #</b>	92%	94%	100%	95%	97%	98%	99%	96%	92%	95%	99%	99%	87%	90%	90%	
	139	139	139	139	139	139	139	139	139	139	139	139	139	139	139	
<b>Pseudomonas aeruginosa</b>			97%			93%	94%	89%	89%	99%		92%	92%	91%		
			140			140	140	140	140	140		140	140	140		
<b>Serratia marcescens* #</b>			83%		75%	88%	100%	88%	100%	92%	100%	100%	96%	100%	96%	
			24		24	24	24	24	24	24	24	24	24	24	24	
<b>Acinetobacter baumannii* #</b>		67%			67%	78%	78%		78%	67%		78%	67%	78%	67%	
		9			9	9	9		9	9		9	9	9	9	
<b>COST / DAY</b>	\$	\$	\$\$	\$	\$	\$\$	\$\$	\$\$\$\$	\$	\$	\$\$	\$	\$	\$	\$	\$

(\*) There is less statistical validity for the estimate of percent susceptibility for organisms with fewer than 30 isolates.

(-) Drug not tested or drug not indicated. (#) Resistance to carbapenems may be due to mechanisms other than carbapenemase production.

(\*\*) Even though Pip/Tazo remains active against ESBL, recent studies show questionable efficacy in serious infections and increased mortality with Pip/Tazo vs. carbapenem.

Developed in partnership with the Antimicrobial Stewardship Program.