

Antibiograms for CVICU, NICU, and PICU can be found at <http://lane.stanford.edu/local/antibiogram/>



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LPCH Antibiogram Data from 2008 Isolates

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Values expressed are % susceptible by Broth Microdilution MIC

Gram Negative Bacilli (a)	No. of Isolates	Penicillins		Cephalosporins					Aminoglyc's			Lactams		Others		Urines Only	
		Ampicillin (\$)	Piper/Tazobactam (\$\$\$)	Cefazolin (\$)	Cefuroxime (IV) (\$\$)	Ceftriaxone (\$\$\$)	Ceftazidime (\$\$\$)	Cefepime (\$\$\$)	Amikacin (\$\$)	Gentamicin (\$)	Tobramycin (\$\$)	Aztreonam (\$\$\$)	Meropenem (\$\$\$)	Ciprofloxacin (\$\$\$)	Co-trimoxazole (\$)	1st generation Cepheims	Nitrofurantoin (\$)
<i>Achromobacter xylosoxidans</i>	29	-	64	-	-	-	36	11	14	11	11	4	64	21	64	-	-
<i>Acinetobacter baumannii</i>	8(b)	-	-	-	-	-	100	100	100	88	100	0	64	88	100	-	-
<i>Citrobacter freundii</i>	12	33	67	0	46	46	46	100	100	100	100	33	100	91	64	0	100
<i>Enterobacter aerogenes</i>	14	0	67	7	64	79	64	100	100	100	100	67	100	100	100	-	20
<i>Enterobacter cloacae</i>	55	7	79	7	24	71	75	94	100	98	100	77	100	100	91	0	40
<i>Escherichia coli</i>	347	50	99	88	91	95	95	96	100	92	92	95	100	89	70	62	96
<i>Klebsiella oxytoca</i>	34	3	100	67	82	91	94	100	100	100	100	93	100	100	94	78	67
<i>Klebsiella pneumoniae</i>	66	0	95	89	85	94	92	98	100	96	97	90	100	100	88	85	26
<i>Morganella morganii</i>	10	0	-	0	10	100	80	-	-	90	100	-	-	100	70	-	-
<i>Proteus mirabilis</i>	48	69	100	90	94	96	96	100	100	94	94	100	100	98	73	93	0
<i>Pseudomonas aeruginosa</i>	296(d)	-	85	-	-	-	76	77	96	86	60	63	81	94	-	-	-
<i>Pseudomonas aeruginosa (CF-mucoid) (c)</i>	341(d)	-	Pip 87	-	Imp 79	-	89	86	-	-	77	85	84	68	-	-	-
<i>Pseudomonas aeruginosa (CF-non-mucoid) (c)</i>	341(d)	-	Pip 82	-	Imp 71	-	81	77	-	-	62	77	80	58	-	-	-
<i>Salmonella spp.</i>	2(b)	100	-	-	-	100	-	-	-	-	-	-	-	100	50	-	-
<i>Serratia marcescens</i>	29	8	81	0	0	93	79	100	100	100	100	85	100	93	93	-	0
<i>Stenotrophomonas maltophilia</i>	55	-	Tic/Clav 32	-	-	-	-	-	Levo 81	-	-	-	-	-	91	-	-

- (a) Not all isolates tested against every antibiotic
- (b) Data from isolate totals <10 may be statistically unreliable
- (c) Cystic fibrosis patient isolates tested by disk diffusion
- (d) *Pseudomonas aeruginosa* isolates not corrected for duplicates

Pip = Piperacillin; Imp = Imipenem;
 Tic/Clav = Ticarcillin/Clavulanate; Levo = Levofloxacin

Values expressed are % susceptible by Broth Microdilution, Etest, or Disk Diffusion

Gram Positive Cocci

	Number of Isolates	Beta-Lactams								Others									
		Oxacillin/Nafcillin (\$)		Penicillin or Ampicillin (\$)			1st Generation cepheems	Cefuroxime (\$\$)	Ceftriaxone (\$\$\$)	Meropenem (\$\$\$)	Gentamicin (\$)	Ciprofloxacin (\$\$\$)	Clindamycin (a) (\$)	Erythromycin (\$)	Nitrofurantoin - urine (\$)	Co-trimoxazole (\$)	Vancomycin (\$)	Tetracycline (\$)	Linezolid (\$\$\$)
		%S	%I	%R															
Staphylococcus aureus	430	80	18	-	-	80	-	-	-	96	-	80	47	-	100	100	-	-	
MRSA only	93	0	0	-	-	0	-	-	-	97	-	59	8	-	100	100	96	-	
Staphylococcus epidermidis	10	10	10	-	-	10	-	-	-	50	-	56	22	-	90	100	-	-	
Staphylococcus sp., Coagulase-negative	169	32	11	-	-	32	-	-	-	55	-	51	24	-	68	100	-	-	
Enterococcus faecium	18	-	28	0	72	-	-	-	-	-	-	-	-	-	44	-	100	-	
Enterococcus faecalis	53	-	100	0	0	-	-	-	-	-	-	-	-	-	98	-	-	-	
Enterococcus sp. (not identified to species)	183	-	92	0	8	-	-	-	-	-	85	-	94	-	96	-	-	-	
Streptococcus group B (vag/anal screen)	246	-	100	0	0	-	-	-	-	-	-	81	78	-	-	-	-	-	
viridans group streptococci	38	-	79	18	3	-	-	92	-	-	-	83	44	-	100	-	-	-	
Streptococcus pneumoniae	43	-	58(b)	-	42	-	72	93(c)	88	-	-	88	70	-	74	100	-	-	

Drug cost: Low (\$); Moderate (\$\$); High (\$\$\$)

- (a) Testing for inducible clindamycin resistance performed on S. aureus isolates, or by MD request
- (b) Based on meningitis interpretive criteria (more conservative). Nonmeningitis interpretation is 93%
- (c) Ceftriaxone uses the meningitis interpretive criteria (more conservative)

Candida

Percent Susceptible By Broth Microdilution (YeastOne, Trek Diagnostics)	No. Tested	Amphotericin B	Fluconazole	Itraconazole	Voriconazole (a)
Candida albicans	7	100	100	100	100
Candida glabrata (b)	4	100	100	25	100
Candida parapsilosis (b)	8	100	100	100	100
Other Candida species	10	100	(c)	100	100

- (a) Consult Peds ID if Voriconazole being considered for treatment
- (b) Data from isolate totals <10 may be statistically unreliable
- (c) Species other than C. krusei and C. lusitaniae were 100% susceptible; C. krusei is intrinsically resistant to fluconazole

Haemophilus influenzae

For infections with beta-lactamase producing H. influenzae: cefuroxime, cefotaxime, trimethoprim/sulfamethoxazole, amoxicillin/clavulanate, or azithromycin is recommended. Cefotaxime or ceftriaxone is drug of choice for CNS infections. At LPCH, 66% of H. influenzae are ampicillin susceptible.