Percent Antibiotic Susceptible: Gram-positive Organisms (1/1/2012-12/31/2012)

Organism (# of isolates)	Ampicillin, Amoxicillin	Amp/sulbactam	Cefazolin	Ceftriaxone	Clindamycin	Erythromycin	Gentamicin (synergy, high-level resistance)	Levofloxacin	Nitrofurantoin[4]	Oxacillin	Penicillin-G	Tetracycline	Trimethoprim/Sulfa	Vancomycin
Enterococcus faecalis (90)	96	--	--	--	--	--	73	74	100	--	--	--	--	98
Enterococcus faecium (26)	12	--	--	--	--	--	54	--	--	--	--	--	--	35
Staph. aureus (285)	--	69[1]	69	--	69	54	--	--	--	69[5]	--	98	99	100
Staph. epidermidis (28)	--	--	--	--	61	--	--	--	--	21	--	79	79	100
Strep. pneumoniae (40)	78[6]	--	--	100/100[2,3]	--	--	--	100[3]	--	--	78[6]	74[7]	53[7]	100

Percent Antibiotic Susceptible: Gram-negative Organisms (1/1/2012-12/31/2012)

Organism (# of isolates)	Ampicillin	Amp/sulbactam	Aztreonam	Cefazolin	Cefepime	Cefotetan	Ceftazidime	Ceftriaxone	Gentamicin	Levofloxacin[8]	Meropenem	Nitrofurantoin[4]	Pip/tazobactam	Trimethoprim/Sulfa[9]
Citrobacter freundii (18)	--	--	83	--	100	--	78	78	89	100	100	94	*	89
Enterobacter aerogenes (14)	--	--	79	--	100	--	79	79	100	100	100	--	*	100
Enterobacter cloacae (48)	--	--	73	--	100	--	73	73	94	100	100	--	*	100
Escherichia coli (400)	60	70	99	93	100	98	98	98	95	88	100	90	*	82
Klebsiella oxytoca (34)	--	--	97	82	97	97	97	97	100	97	100	71	*	94
Klebsiella pneumoniae (89)	--	--	98	97	99	98	98	98	100	99	100	27	*	99
Proteus mirabilis (45)	82	89	96	87	96	96	96	96	98	98	100	--	*	89
Pseudomonas aeruginosa (91)	--	--	*	--	96	--	95	--	90	86	94	--	*	--
Serratia marcescens (6)	--	--	83	--	100	83	100	100	100	100	100	--	*	100

[1]Ampicillin/sulbactam is not recommended for a monomicrobial infection caused by *Staphylococcus aureus*.

[2]100% and 100% ceftriaxone susceptibility refers to meningeal and non-meningeal isolates, respectively.

[3]Three isolates were not tested.

[4]Use only for lower urinary tract infections.

[5]Oxacillin-resistant strains of *Staphylococcus* sp. are resistant to all beta-lactam antibiotics.

[6]Penicillin-nonsusceptible pneumococcal isolates: 100% had intermediate susceptibility to PCN, 0% were fully resistant. *S. pneumoniae* with intermediate PCN susceptibility respond to high dose PCN/Amoxicillin (i.e., Amoxicillin 90 mg/kg/day PEDS, or Amoxicillin 1 gram Q8H adults).

[7]Susceptibility percentages obtained only from isolates subjected to VITEK susceptibilities. Numbers likely falsely low as isolates susceptible to oxacillin by Kirby-Bauer were generally not VITEK-tested.

[8]Resistance to quinolones is generally a class effect.

[9]Susceptibilities performed only on urinary isolates.

* Vitek 2 results unreliably predict susceptibility of *P. aeruginosa* to aztreonam and are not reported. Pip/tazo was removed from Vitek 2 cards as false susceptible and false resistant results for *E. coli, Proteus* sp., and *Pseudomonas aeruginosa* were reported. The card has been reformulated and will be reported in 2013.

TEMPLATE

Amp/sulbactam	3 g Q6h	$333	Yes
Ampicillin (IV)	2 g Q6h	$694	Yes
Azithromycin (IV)	500 mg Q24h	$89	No
Azithromycin (po)	500 mg Q24h	$63	
Aztreonam	2 g Q8h	$1176	Yes
Cefazolin	2 g Q8h	$267	Yes
Cefepime[5]	2 g Q12h	$310	Yes
Cefotaxime	2 g Q8h	$252	Yes
Ceftazidime	2 g Q8h	$251	Yes
Ceftriaxone	1 g Q24h 2 g Q24h	$59 $76	No
Ciprofloxacin (IV)	400 mg Q12h	$114	Yes
Ciprofloxacin (po)	500 mg Q12h	$46	
Clindamycin (IV)	900 mg Q8h	$228	No
Clindamycin (po)	450 mg Q8h	$127	
Doxycycline (IV)	100 mg Q12h	$251	No
Doxycycline (po)	100 mg Q12h	$11	
Fluconazole (IV)	200 mg Q24h 400 mg Q24h	$76 $87	Yes
Fluconazole (po)	200 mg Q24h 400 mg Q24h	$13 $26	
Levofloxacin (IV)	500 mg Q24h 750 mg Q24h	$77 $140	Yes
Levofloxacin (po)	500 mg Q24h 750 mg Q24h	$16 $32	
Meropenem	1 g Q8h	$611	Yes
Metronidazole (IV)	500 mg Q8h	$46	At < 10 mL/min
Metronidazole (po)	500 mg Q8h	$16	
Nafcillin	12 g over 24h	$1124	No
Nitrofurantoin (po) – Macrobid	100 mg Q12h	$58	C/I'd CrCl < 60 mL/min
Penicillin G	2.5 MU Q4h	$754	Yes
Pip/tazobactam	3.375 g Q6h	$492	Yes
TMP/sulfamethox (po)	1 DS tab Q12h	$24	Yes
Vancomycin	15 mg/kg Q12h	$300-450	Yes

Antibiotic Restrictions at

Antibiotic	Restricted to
Amikacin Amphotericin B Carbapenems Daptomycin Micafungin Tigecycline Voriconazole	Infectious Diseases Service approval
Linezolid	ICU patients with HCAP
Cefepime	ICU patients or Infectious Diseases Service approval

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TEMPLATE