



2012 Antibiogram

Gram Positive Bacteria
% Susceptible

		Enterococcus species Vancocmycin Sensitive*	Staphylococcus aureus ** Methicillin Sensitive	Staphylococcus aureus** Methicillin Resistant	Staphylococcus epidermidis	Staphylococcus sp. coagulase negative	Streptococcus pneumoniae ***	Viridans Streptococci Group	Streptococcus agalactiae Group B
Number of Isolates		792	657	399	153	165	57	46	64
Ampicillin/Sulbactam	A/S		100		36	48			
Amoxicillin/Clavulanate	AUG		100		36	48			
Azithromycin	AZI						46	42	41
Ceftriaxone	CAX		99			41	86	100	98
Cefotaxime	CFT						82	100	98
Clindamycin	CD		77	52	43	60	86	92	50
Ciprofloxacin	CP	62	85	33	37	59			
Cefepime	CPE						96	93	97
Daptomycin	DAP	99	100	99	100	99			
Erythromycin	E	24	66	11	25	41	46	35	43
Nitrofurantoin	FD	98	100	100	100	97			
Gentamicin	GM		99	97	81	86			
Gentamicin Synergy Screen	GMS	78							
Imipenem	IMP		100			41			
Levofloxacin	LVX	69	88	35	39	60	98	93	100
Linezolid	LZD	100	100	100	100	99			
Oxacillin	OX		100	0	36	48			
Penicillin	P	97	25		8	19	67	80	100
Rifampin	RIF	74	99	99	100	99			
Streptomycin Synergy Screen	STS	81							
Trimeth/sulfamethoxazole	T/S		99	99	50	76	77		
Tetracycline	TE	26	96	96	87	86	77	76	16
Vancomycin	VA	100	100	100	100	100	100	100	100

*VRE: 3.1%

**MRSA: 38%, MSSA: 62%

***Penicillin: 21% Intermediate, 12% Resistant



2012 Antibiogram

Gram Negative Bacteria
% Susceptible

		Acinetobacter baumannii / haemolyticus	Citrobacter freundii complex	Enterobacter aerogenes	Enterobacter cloacae	Escherichia coli	Klebsiella oxytoca	Klebsiella pneumoniae	Morganella morganii	Proteus mirabilis	Pseudomonas aeruginosa	Serratia marcescens	Stenotrophomonas maltophilia
Number of Isolates		23	75	55	139	1853	107	434	54	231	281	49	30
Ampicillin/Sulbactam	A/S	91	81	56	34	68	72	89	9	88		18	
Amikacin	AK	96	100	100	100	99	100	99	100	99	97	100	
Ampicillin	AM		44	11	15	64	13	7	4	80		10	
Amoxicillin/Clavulanate	AUG		13	5	4	89	95	98	30	98		6	
Aztreonam	AZT		84	87	88	97	93	99	91	96	88	96	
Ceftriaxone	CAX	57	84	80	86	97	96	99	94	97	36	100	
Cefazolin	CFZ		9	7	3	92	54	97	9	89		0	
Cefoxitin	CFX		13	4	4	96	99	95	85	98		39	
Ceftazidime	CAZ	87	84	82	87	97	98	99	81	97	97	98	43
Ciprofloxacin	CP	91	97	100	99	82	97	97	61	66	84	92	
Cefepime	CPE	83	100	100	99	98	99	99	100	98	94	98	
Cefotaxime	CFT	70	87	82	85	98	98	99	91	97	24	96	
Cefuroxime	CRM		79	76	50	95	94	94	30	97		2	
Nitrofurantoin	FD		96	24	40	99	96	64	0	0		0	
Levofloxacin	LVX	100	99	100	100	83	98	98	78	77	86	100	83
Gentamicin	GM	96	95	100	99	93	100	99	80	94	93	100	
Ertapenem	ETP		100	100	100	100	100	99	100	100		98	
Piperacillin/Tazobactam	P/T		99	85	90	99	97	99	98	99	99	92	
Trimeth/sulfamethoxazole	T/S	91	87	98	96	83	93	95	74	84		98	100
Tigecycline	TGC		100	96	100	100	100	98	70			100	
Tetracycline	TE	96	89	91	97	84	93	90	37	<1		27	
Tobramycin	TO	96	99	100	99	94	100	99	89	95	99	94	

ESBL: Escherichia coli 47/1853 (2.5%)

CRE: 0%

Klebsiella pneumonia 6/434 (1.4%)

Proteus mirabilis 7/231 (3.0%)

2012 MGHS Antimicrobial Dosages and Acquisition Costs

Dosages shown represent the most commonly used initial dosage for hospital-acquired infections. Doses should be individualized based on patient-specific conditions. Restricted agents are shown in **bold** print. Cost is based on a 70kg patient.

	Agent	Dosage	MGHS Cost per Day*
Beta-lactams	Ampicillin IV	1-2 gm every 4-6 hours	+
	Ampicillin PO	0.5-1 gm every 6 hours	+
	Ampicillin/sulbactam IV	1.5-3 gm every 6 hours	+ to ++
	Amoxicillin PO	250-500 mg every 8 hours	+
	Amoxicillin/Clavulanate PO	250-500 mg every 8 hours	+
	Dicloxacillin PO	250-500 mg every 6 hours	+
	Nafcillin IV	1-2 gm every 4-6 hours	++ to ++++
	Penicillin G IV	1-2 million units every 4 hours	+
	Penicillin VK	250-500 mg every 6-8 hours	+
	Piperacillin/Tazobactam IV	3.375 gm every 6 hours	++
Cephalosporins	Cefepime IV	2 gm every 8-12 hours	++
	Cefazolin IV	1 gm every 6-8 hours	+
	Cefoxitin IV	1-2 gm every 6-8 hours	++
	Ceftazidime IV	1-2 gm every 8 hours	++
	Ceftriaxone IV	1-2 gm every 12-24 hours	+
	Cefuroxime IV	1.5 gm every 8 hours	+
	Cefuroxime PO	250-500 mg every 12 hours	+
	Cephalexin PO	250-500 mg every 6 hours	+
Carbapenems	Imipenem/cilastatin IV	500 mg every 6 hours	+++
	Ertapenem IV	1 gm every 24 hours	+++
	Meropenem IV	500 mg every 6 hours	++
Aminoglycosides	Amikacin IV	7.5 mg/kg load; maintenance dose per nomogram	+
	Gentamicin IV	2 mg/kg load; maintenance dose per nomogram	+
	Tobramycin IV	2 mg/kg load; maintenance dose per nomogram	+
Macrolides	Azithromycin IV	500 mg every 24 hours	+
	Azithromycin PO	250-500 mg every 24 hours	+
	Clarithromycin PO	250-500 mg every 6-12 hours	+
	Erythromycin IV Erythromycin PO	(lactobionate): 500 mg every 6 hours (base): 250-500 mg every 6 hours	++ +
Fluoroquinolones	Ciprofloxacin IV	400 mg every 8-12 hours	+
	Ciprofloxacin PO	500-750 mg every 12 hours	+
	Levofloxacin IV	500-750 mg every 24 hours	+
	Levofloxacin PO	500-750 mg every 24 hours	+
Tetracyclines	Doxycycline IV	100 mg every 12 hours	++
	Doxycycline PO	100 mg every 12 hours	+
	Tigecycline IV	100 mg load 50 mg every 12 hours	++++ +++
Miscellaneous	Clindamycin IV	600 mg every 6 hours	+
	Clindamycin PO	150-450 mg every 6 hours	+
	Vancomycin IV	1 gm every 12 hours	+
	Sulfamethoxazole/trimethoprim IV	10-20 mg/kg daily (divided)	++
	Sulfamethoxazole/trimethoprim PO	10-20 mg/kg daily (divided)	+
	Linezolid IV	600 mg every 12 hours	++++
	Linezolid PO	600 mg every 12 hours	++++
Daptomycin IV	4-6 mg/kg every 24 hours	++++	
Antifungals	Amphotericin B IV	0.3-1 mg/kg every 24 hours	++
	Amphotericin B, Lipid Complex IV	3-5 mg/kg every 24 hours	++++
	Micafungin IV	100 mg every 24 hours	+++
	Fluconazole IV	200-800 mg every 24 hours	++
	Fluconazole PO	200-800 mg every 24 hours	+
	Itraconazole PO	200 mg every 12-24 hours	++
	Voriconazole IV	6 mg/kg load for 2 doses; 4 mg/kg every 12 hours	++++ ++++
	Voriconazole PO	200 mg every 12 hours	+++

*Key: + = Less than \$10; ++ = \$10-50; +++ = \$50-100; ++++ = Greater than \$100.