

**PROVIDENCE HEALTH CARE
DEPARTMENT OF PATHOLOGY AND LABORATORY MEDICINE, DIVISION OF MEDICAL MICROBIOLOGY
CUMULATIVE ANTIBIOGRAM FOR JANUARY 1, 2011 – DECEMBER 31, 2011**

	N	PERCENTAGE OF ISOLATES SUSCEPTIBLE TO:											
		AMPICILLIN	CEPHALOTHIN*	CEFTAZIDIME	CEFTRIAZONE	CIPROFLOXACIN	GENTAMICIN	IMPENEM	MEROPENEM	NITROFURANTOIN*	PIPTAZOBACTAM	TOBRAMYCIN	TRIMETH/SULFA
GRAM-NEGATIVES													
<i>Acinetobacter</i> species	90	R	R	91	-	94	95	95	95	R	89	96	87
<i>Citrobacter freundii</i> [1]	50	R	R	-	84	96	94	100	100	94	93	96	82
<i>Enterobacter aerogenes</i> [1]	77	R	R	-	83	95	99	99	99	9	76	94	92
<i>Enterobacter cloacae</i> [1]	208	R	R	-	76	91	98	99	99	29	77	95	86
<i>Escherichia coli</i> [2]	2562	39	52	-	87	66	89	100	100	92	90	86	68
<i>Klebsiella pneumoniae</i> [2]	503	R	96	-	98	96	98	100	100	34	96	98	90
<i>Morganella morganii</i> [1]	72	R	R	-	97	76	87	100	100	R	97	96	63
<i>Proteus mirabilis</i>	307	76	93	-	97	79	97	100	100	R	98	96	74
<i>Pseudomonas aeruginosa</i> [3]	410	R	R	92	-	80	88	88	95	R	93	98	-
<i>Serratia marcescens</i> [1]	100	R	R	-	100	100	100	100	100	R	100	100	99

Note 1: Organisms producing AmpC β -lactamases may develop resistance during prolonged therapy with 3rd cephalosporins

Note 2: 10% of *E. coli* and 2% of *K. pneumoniae* isolates produce Extended Spectrum β -lactamases (ESBL)

Note 3: Excludes isolates from patients with cystic fibrosis (CF)

Note 4: *Haemophilus influenzae* β -lactamase positive: 12% (Ampicillin resistant)

Note 5: *Moraxella catarrhalis* β -lactamase positive: >90% (Ampicillin resistant)

	N	PERCENTAGE OF ISOLATES SUSCEPTIBLE TO:												
		AMPICILLIN	CEFTRIAZONE	CIPROFLOXACIN	CLINDAMYCIN	CLOXACILLIN	ERYTHROMYCIN	LINEZOLID	MOXIFLOXACIN	NITROFURANTOIN*	PENICILLIN	TETRACYCLINE	TRIMETH/SULFA	VANCOMYCIN
GRAM-POSITIVES														
<i>Staphylococcus aureus</i> (MSSA)	1509	-	-	85	88	100	71	100	-	99	8	94	95	100
MRSA	1081	R	R	4	49	R	12	100	-	99	R	83	88	100
Coagulase-negative staphylococci	377	-	-	48	52	48	44	100	-	99	12	-	-	100
<i>Enterococcus faecalis</i>	987	100	R	66	R	R	R	99	-	99	-	-	-	99
<i>Enterococcus faecium</i>	232	5	R	4	R	R	R	100	-	17	-	-	-	43
<i>Streptococcus pneumoniae</i>	247	-	98	-	-	-	57	-	99	R	75 ^a	-	78	100
<i>Streptococcus pyogenes</i> ^b	293	100	-	-	<	-	<	-	-	-	100	-	-	100

	N	PERCENTAGE OF ISOLATES SUSCEPTIBLE TO:		
		CLINDAMYCIN	PENICILLIN	METRONIDAZOLE
ANAEROBES				
<i>Bacteroides fragilis</i> group	51	52	R	100
<i>Clostridium</i> species	20	53	80	100

LEGEND:

- N Maximum number of isolates tested
- R This organism is inherently resistant to this antibiotic
- < Insufficient number of isolates tested, cumulative data not available
- * Reported on urine isolates only
- Antibiotic not tested and/or not indicated
- ^a Based on meningitis breakpoints; invasive isolates only
- ^b Penicillin is the antibiotic of choice for *S. pyogenes*