

SMH site 2015 and 2016 ANTIBIOGRAM Inpatient (Excludes ER, ICU, HAU) (% Susceptible ^a)		GRAM POSITIVE			GRAM NEGATIVE			
		<i>Staphylococcus aureus</i> (MSSA + MRSA)	<i>MRSA</i> (Methicillin Resistant <i>Staph. aureus</i>)	<i>MSSA</i> (Methicillin Susceptible <i>Staph. aureus</i>)	<i>Enterobacter cloacae</i> ^b	<i>Escherichia coli</i>	<i>Klebsiella pneumoniae</i>	<i>Pseudomonas aeruginosa</i>
Number of Isolates		474	188	286	51	704	185	133
Penicillins	Cloxacillin	61	R	100	R	R	R	R
	Penicillin (IV)	N	R	N	R	R	R	R
	Penicillin (Oral)							
	Ampicillin/Amoxicillin	N	R	N	R	28	R	R
	Amoxicillin-Clavulanate		R		R	72	88	R
	Piperacillin-Tazobactam		R		N	91	92	86
Cephalosporins	Cephalexin - 1st gen	61	R	100	R	36 ^e	78 ^e	R
	Cefazolin ^c - 1st gen	61	R	100	R	60	82	R
	Cefuroxime - 2nd gen				R			R
	Cefixime - 3rd gen		R		N	70	85	R
	Cefotaxime / Ceftriaxone - 3rd gen		R		N	73	85	R
	Ceftazidime - 3rd gen		R		N			87
Carbapenems	Ertapenem - restricted		R		92	99	97	R
	Imipenem - restricted		R					88
	Meropenem - restricted		R		98	99	96	88
AMGs	Gentamicin	N	N	N	98	85	91	92
	Tobramycin	N	N	N	98	82	89	99
	Amikacin	N	N	N	100	99	98	98
FQs	Ciprofloxacin	N	N	N	98	56	90	84
	Levofloxacin							
	Moxifloxacin	N	N	N	N	N	N	N
Miscellaneous	Erythromycin ^f	50	9	77	R	R	R	R
	Clindamycin	64	36	82	R	R	R	R
	Doxycycline	94	90	97				R
	Linezolid - restricted	100	100		R	R	R	R
	Metronidazole	R	R	R	R	R	R	R
	Nitrofurantoin-simple cystitis only ^e	99	100	99	47	93	38	R
	TMP-SMX or Cotrimoxazole	90	92	89	96	69	88	R
	Vancomycin	100 ^d	100 ^d	100 ^d	R	R	R	R

This susceptibility chart is provided as a guide to empiric therapy until culture and susceptibility results are available.

KEY

- R = Intrinsically resistant
- = Susceptibility not tested
- N = Not recommended
- ☉ = Synergy with ampicillins or vancomycin

NOTES:

- a. This antibiogram includes only the first isolate of a specific organism from any patient.
- b. *Enterobacter* carries inducible cephalosporinases (AmpC) that cause *in-vivo* resistance to 3rd generation cephalosporins.
- c. Interpretation based on dose of cefazolin 2g IV q8h.
- d. Some *S. aureus* isolates with an MIC of 2 will be interpreted as susceptible but may result in clinical failure.
- e. For urinary tract isolates only.
- f. Susceptibility to erythromycin for these organisms is the same as for azithromycin/ clarithromycin.

Developed by:
Dr. Neil Mina, FH Medical Microbiologist and
Bryna Yao, FH Regional LIS Coordinator