

SMH site 2015 and 2016 ANTIBIOGRAM ICU and 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		250	106	144	33	125	84	77
Penicillins	Cloxacillin	58	R	100	R	R	R	R
	Penicillin (IV)	N	R	N	R	R	R	R
	Penicillin (Oral)							
	Ampicillin/Amoxicillin	N	R	N	R	26	R	R
	Amoxicillin-Clavulanate		R		R	56	85	R
	Piperacillin-Tazobactam		R		N	80	85	74
Cephalosporins	Cephalexin - 1st gen	58	R	100	R	32 ^e	73 ^e	R
	Cefazolin ^c - 1st gen	58	R	100	R	49	79	R
	Cefuroxime - 2nd gen				R			R
	Cefixime - 3rd gen		R		N	66	85	R
	Cefotaxime / Ceftriaxone - 3rd gen		R		N	70	85	R
	Ceftazidime - 3rd gen		R		N			77
Carbapenems	Ertapenem - restricted		R		84	99	96	R
	Imipenem - restricted		R					66
	Meropenem - restricted		R		97	99	95	68
AMGs	Gentamicin	N	N	N	91	86	93	87
	Tobramycin	N	N	N	94	77	89	99
	Amikacin	N	N	N	100	100	96	99
FQs	Ciprofloxacin	N	N	N	97	58	87	81
	Levofloxacin							
	Moxifloxacin	N	N	N	N	N	N	N
Miscellaneous	Erythromycin ^f	44	7	72	R	R	R	R
	Clindamycin	59	30	80	R	R	R	R
	Doxycycline	94	93	95				R
	Linezolid - restricted	100	100		R	R	R	R
	Metronidazole	R	R	R	R	R	R	R
	Nitrofurantoin-simple cystitis only ^e	100	100	99	24	92	21	R
	TMP-SMX or Cotrimoxazole	90	90	91	91	62	82	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