SMH site 2017 ANTIBIOGRAM Hospital-wide (% Susceptible[a])		GRAM POSITIVE												GRAM NEGATIVE																		ANO$_2$		YEAST
		Coagulase Negative *Staphylococcus*	*Enterococcus faecalis*	*Enterococcus faecium*	*Staphylococcus aureus* (MSSA + MRSA)	*MRSA* (Methicillin Resistant *Staph. aureus*)	*MSSA* (Methicillin Susceptible *Staph. aureus*)	*Staphylococcus lugdunensis*	*Streptococcus agalactiae* (Group B)	*Streptococcus anginosus group*[e]	*Streptococcus pneumoniae*	*Streptococcus pyogenes* (Group A)	*Viridans group Streptococcus*[e,g]	*Acinetobacter baumannii*[e]	*Citrobacter freundii*[b,e]	*Enterobacter aerogenes*[b,e]	*Enterobacter cloacae*[b]	*Escherichia coli*	*Haemophilus influenzae*	*Klebsiella oxytoca*	*Klebsiella pneumoniae*	*Morganella morganii*[b,e]	*Proteus mirabilis*	*Proteus vulgaris*[b,e]	*Providencia species*[b,e]	*Pseudomonas aeruginosa*	*Salmonella species*[e]	*Serratia marcesens*[b,e]	*Stenotrophomonas maltophilia*[e]	*Bacteroides fragilis* group[e]	*Clostridium species*[e]	*Candida albicans*[e]
Number of Isolates		178	409	129	1584	596	988	96	322	186	121	249	195	116	249	205	87	2190	109	64	340	237	188	40	52	217	199	259	165	77	53	68
Penicillins	Cloxacillin	45	R	R	62	R	100	91			N	N		R	R	R	R	R	R	R	R	R	R	R	R	R		R	R	R		
	Penicillin (IV)	N			N	R	N		100	100	100	100	83	R	R	R	R	R	N	R	R	R	R	R	R	R		R	R	R	79	
	Penicillin (Oral)										85			R																		
	Ampicillin/Amoxicillin	N	100	9	N	R	N		100	100	100	100	84	R	R	R	R	37	82	R	R	R	55	R	R	R	92	R	R	R		
	Amoxicillin-Clavulanate					R								R	R	R	R	81	86	84	91	R	96	R	R	R		R	R			
	Piperacillin-Tazobactam					R									N	N	N	95		88	91		100		N	90		N	R	91		
Cephalosporins	Cephalexin - 1st gen	45	R	R	62	R	100	91			N	100		R	R	R	R	46[d]	N	30[d]	84[d]	R	60[d]	R	R	R		R	R	R		
	Cefazolin - 1st gen	45	R	R	62	R	100	91			N	100		R	R	R	R	68	N	28	84	R	63	R	R	R		R	R	R		
	Cefuroxime - 2nd gen		R	R							100			R	R	R	R		86			R		R		R		R	R			
	Cefixime - 3rd gen		R	R		R					N				N	N	N	80		94	91	N	94	N	N	R		N	R	R		
	Cefotaxime / Ceftriaxone - 3rd gen		R	R		R			100	100	100	100	100		N	N	N	82	100	86	91	N	96	N	N	R	99	N	R	R		
	Ceftazidime - 3rd gen		R	R		R					N	N			N	N	N					N		N	N	91		N		R		
Carbapenems	Ertapenem - restricted		R	R		R								R	98	99	97	99		99	99	99	99	99	99	R		99	R			
	Imipenem - restricted			N		R																				86			R	96	92	
	Meropenem - restricted		N	N		R								97	98	99	97	99		98	98	99	99	99	99	86		99	R	91	100	
AMGs	Gentamicin	N			N	N	N				R	R	N	97	96	100	98	88	N	95	95	85	84	98	79	91		100	R	R		
	Tobramycin	N	R	R	N	N	N				R	R	N	97	94	97	98	86	N	100	93	89	86	100	79	98		83	R	R		
	Amikacin	N	R	R	N	N	N				R	R	N	97	100	100	100	100	N	98	97	100	97	100	100	95		100	R	R		
FQs	Ciprofloxacin	N	64[d]	6[d]	N	N	N				N	N		96	95	95	98	70	100	97	91	84	80	98	90	85	76	98	R	R		
	Levofloxacin		66[d]	6[d]					95[d]		100								100										89			
	Moxifloxacin	N	N	N	N	N	N				100			N	N	N	N	N	100	N	N	N	N	N	N	N	N	N	N	R		
Miscellaneous	Erythromycin[f]	37			53	14	76	83	62		73	65		R	R	R	R	R		R	R	R	R	R	R	R		R	R	R		
	Clindamycin	52	R	R	76	62	85	83	65	71	87	65	50	R	R	R	R	R	R	R	R	R	R	R	R	R		R	R	45	47	
	Tetracycline[h]	88	21[d]	24[d]	93	88	95				77									R	R	R	R	R	R			98[c]			
	Linezolid - restricted	99	97	99	100	100		100						R	R	R	R	R	R	R	R	R	R	R	R		R	R	R		
	Metronidazole	R	R	R	R	R	R				R	R		R	R	R	R	R	R	R	R	R	R	R	R		R	R	99	100	
	Nitrofurantoin-simple cystitis only[d]	98	99	16	99	100	99				R	N		R	92	15	51	96	R	84	34	R	R	R	R	R		R	R	R		
	TMP-SMX or Cotrimoxazole	80	R	R	86	88	85	100			75	R		97	88	96	95	71		97	89	77	69	90	90	R	97	100	98	R		
	Vancomycin	100	97	35	100	100	100	100	100	100	100	100	100	R	R	R	R	R	R	R	R	R	R	R	R	R		R	R	R		
	Fosfomycin[i]																	99		96	94		86									
	Fluconazole																															100
	Micafungin - restricted																															100

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

NOTES:

a. This antibiogram includes only the first isolate of a specific organism from any patient.

b. *Serratia, Providencia, Morganella, Citrobacter freundii, Enterobacter, and P. vulgaris* carry inducible cephalosporinases (AmpC) that cause *in-vivo* resistance to 3rd generation cephalosporins.

c. Susceptibility for *S. maltophilia* represents minocycline.

d. For urinary tract isolates only.

e. Combined from all FH sites.

f. Susceptibility to erythromycin for these organisms is the same as for azithromycin/ clarithromycin.

g. Excluding *Streptococcus anginosus group*.

h. Organisms susceptible to tetracycline are also susceptible to doxycycline. However, some organisms that are nonsusceptible to tetracycline may be susceptible to doxycycline.

i. Fosfomycin testing was calculated from a limited number of *E. coli* (n=7245), *K. oxytoca* (n=207), *K. pneumoniae* (n=944), and *P. mirabilis* (n=508) isolates from all FH sites.

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