

Mount Sinai Hospital ANTIBIOGRAM

Wards other than ICUs/Emergency

January 1, 2016 - December 31, 2016

Blood Isolates – % Susceptible

		Ampicillin	Amoxicillin-Clavulanic acid	Penicillin	Piperacillin-Tazobactam	Meropenem	Ertapenem	Cloxacillin	Cefazolin	Ceftriaxone	Ceftazidime	Clindamycin	Erythromycin	Doxycycline	Ciprofloxacin	Moxifloxacin	Trimethoprim-Sulfamethoxazole	Gentamicin	Tobramycin	Amikacin	Vancomycin	Linezolid	
		≥80% Susceptible ■ 70-79% Susceptible ■ ≤69% Susceptible ■																					
#	%																						
ALL BACTERIA	273	—	15	26	52	56	52		36	50							69						
ALL GRAM-NEGATIVE BACTERIA	96	100	18	51	73	100	85		40	63	70				79		75	92	88	100			
<i>Escherichia coli</i>	49	51	33	61	78	100	100		51	78	78				69		71	88	84	100			
<i>Klebsiella pneumoniae</i>	18	19	0	83	89	100	94		67	89	89				94		94	89	94	100			
<i>Pseudomonas aeruginosa</i>	8	8			100	100					100				100			100	100	100			
<i>Enterobacter cloacae</i>	7	7	0	0	0	100	100		0	0	0				100		100	100	100	100			
<i>Proteus mirabilis</i>	4	4	25	100	100	100	100		25	100	100				75		75	100	100	100			
ALL GRAM-POSITIVE BACTERIA	177	100	13	13	6	41	34	34	28	34	43		40	31			65					99	
Coagulase-negative staphylococci	97	55				17	17	17	17	17			28	17	94		61					100	100
<i>Staphylococcus aureus</i> , all isolates	38	21				87	87	87	87	87			78	70	95		100					100	100
- methicillin-susceptible	33	19				100	100	100	100	100			78	75	97		100					100	100
- methicillin-resistant (MRSA)	5	3				0	0	0	0	0			80	40	80		100					100	100
Viridans group streptococci [*]	18	10								94												100	
<i>Enterococcus faecalis</i> , all isolates	12	7	100	100		100																100	
- vancomycin-susceptible	12	7	100	100		100																100	
- vancomycin-resistant (VRE)	0	0																					
Group B streptococci**	8	5			100								62	50								100	

General Notes:

- Statistical validity of estimates of percent susceptibility for organisms for which there are fewer than 30 isolates reported is limited. Please take this into consideration when interpreting the reported results.
- Some organisms for which there were only very small numbers have been excluded from this report; however the total number of "ALL BACTERIA", "ALL GRAM-NEGATIVE BACTERIA", and "ALL GRAM-POSITIVE BACTERIA" listed includes these organisms.
- Reported susceptibilities for "ALL BACTERIA", "ALL GRAM-NEGATIVE BACTERIA", and "ALL GRAM-POSITIVE BACTERIA" reflect estimates only based on the weighted average of susceptibilities for all organisms included on this report as well as those that have been excluded, with assumptions made for those drugs for which susceptibilities were not tested.
- Susceptibility to doxycycline was predicted based on tetracycline susceptibility testing results.

Year-Specific Notes:

- Only a limited number of coagulase negative staphylococci isolates were tested for susceptibilities. The vast majority of coagulase-negative staphylococci are susceptible to vancomycin. If you have any questions, please contact the UHN/MSH Department of Microbiology.

Organism-Specific Notes:

** Beta-hemolytic streptococci: Susceptibility testing to penicillin is not routinely performed since resistant strains have not been recognized. All isolates are considered susceptible to penicillin.

* Viridans group streptococci: Please note that only a small proportion of these isolates were tested for susceptibilities. Please take this into consideration when interpreting the reported results.

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Respiratory Isolates – % Susceptible

	#	%	Antibiotics																					
			Ampicillin	Amoxicillin-Clavulanic acid	Penicillin	Piperacillin-Tazobactam	Meropenem	Ertapenem	Cloxacillin	Cefazolin	Ceftriaxone	Ceftazidime	Clindamycin	Erythromycin	Doxycycline	Ciprofloxacin	Moxifloxacin	Trimethoprim-Sulfamethoxazole	Gentamicin	Tobramycin	Amikacin	Vancomycin	Linezolid	
ALL BACTERIA	60	—	8	32		73	81	52			64						70							
ALL GRAM-NEGATIVE BACTERIA	34	100	15	56		82	97	44			67	82				84	58	100	96	100				
<i>Haemophilus influenzae</i> ^{^^}	8	24	50																					
<i>Pseudomonas aeruginosa</i>	7	21				86	86					86				86		100	100	100				
<i>Escherichia coli</i>	6	18	17	67		67	100	100			83	83				67	50	100	100	100				
<i>Klebsiella pneumoniae</i>	6	18	0	100		100	100	100			100	100				100	100	100	83	100				
<i>Enterobacter cloacae</i>	2	6	0	0		0	100	50			0	0				100	100	100	100	100				
<i>Moraxella catarrhalis</i> [^]	2	6																						
ALL GRAM-POSITIVE BACTERIA	26	100				62	62	62	62	62	62			66	58			81					81	
<i>Staphylococcus aureus</i> , all isolates	21	81				76	76	76	76	76				81	71	91		100					100	100
- methicillin-susceptible	16	62				100	100	100	100	100				88	81	94		100					100	100
- methicillin-resistant (MRSA)	5	19				0	0	0	0	0				60	40	80		100					100	100
<i>Mycobacterium tuberculosis</i> complex	5	19																						

General Notes:

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- Susceptibility to doxycycline was predicted based on tetracycline susceptibility testing results.

Year-Specific Notes:

- Susceptibility for cefazolin are not available for Gram-negative isolates from non-sterile site specimens for the current year.

Organism-Specific Notes:

- [^] *M. catarrhalis*: Susceptibility testing is not routinely performed. Most isolates are resistant to ampicillin and amoxicillin but are generally susceptible to other antibiotics commonly used for respiratory infections.
- ^{^^} *H. influenzae* and *H. parainfluenzae*: Susceptibility to ampicillin was determined using beta-lactamase testing. Beta-lactamase-positive isolates are resistant to ampicillin but are generally susceptible to amoxicillin-clavulanic acid and cefuroxime.

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Urine Isolates – % Susceptible

		<div style="display: flex; align-items: center;"> <div style="margin-right: 10px;"> <p>≥80% Susceptible ■</p> <p>70-79% Susceptible ■</p> <p>≤69% Susceptible ■</p> </div> </div>																			
#	%	Ampicillin	Amoxicillin-Clavulanic acid	Penicillin	Piperacillin-Tazobactam	Meropenem	Ertapenem	Cloxacillin	Cefazolin	Cephalexin	Ceftriaxone	Ceftazidime	Doxycycline	Ciprofloxacin	Trimethoprim-Sulfamethoxazole	Nitrofurantoin	Gentamicin	Tobramycin	Amikacin	Vancomycin	Linezolid
ALL BACTERIA	637	—	44	69	82	71	63			34	51		11	86	54	73					
ALL GRAM-NEGATIVE BACTERIA	424	100	25	62	77	99	88			44	69	78		86	74	64	93	94	100		
<i>Escherichia coli</i>	236	56	39	78	89	100	100			48	90	90		80	78	96	93	92	100		
<i>Klebsiella pneumoniae</i>	56	13	0	84	77	100	100			77	86	86		91	88	29	91	91	100		
<i>Pseudomonas aeruginosa</i>	42	10			88	95						90		95			93	100	100		
<i>Enterobacter cloacae</i>	22	5	0	0	0	95	82			0	0	0		100	100	23	100	100	100		
<i>Proteus mirabilis</i>	20	5	70	80	85	100	100			80	85	85		80	80	5	90	95	100		
<i>Klebsiella oxytoca</i>	15	4	0	87	93	93	93			87	93	93		93	93	53	93	93	100		
<i>Citrobacter koseri</i>	8	2	0	0	0	100	100			0	0	0		100	100	88	100	100	100		
<i>Citrobacter freundii</i>	5	1	0	0	0	100	100			0	0	0		100	80	80	100	100	100		
<i>Enterobacter aerogenes</i>	5	1	0	0	0	100	100			0	0	0		100	100	60	100	100	100		
ALL GRAM-POSITIVE BACTERIA	213	100	83	83	5	92	15	15	10	15	15	15		35	86	11	91			99	99
<i>Enterococcus faecalis</i> , all isolates	158	74	100	100	100									26	92		99			100	100
- vancomycin-susceptible	158	74	100	100	100									26	92		99			100	100
- vancomycin-resistant (VRE)	0	0																			
<i>Staphylococcus aureus</i> , all isolates	21	10			86	86	86	86	86	86				100	86	100	91			100	100
- methicillin-susceptible	18	8			100	100	100	100	100	100				100	100	100	89			100	100
- methicillin-resistant (MRSA)	3	1			0	0	0	0	0	0				100		100	100			100	100
<i>Enterococcus faecium</i> , all isolates	12	6	17	17	17									33	25		25			92	100
- vancomycin-susceptible	11	5	18	18	18									36	27		27			100	100
- vancomycin-resistant (VRE)	1	0	0	0	0									0	0		0			0	100
- vancomycin-susceptible (vanA+)	0	0																			
Group B streptococci**	11	5			100															100	
<i>Enterococcus</i> species	6	3	67	67	67									33	67		67			100	100

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