

Mount Sinai Hospital ANTIBIOGRAM  
Wards other than ICUs/Emergency  
January 1, 2016 - December 31, 2016

### Blood Isolates – % Susceptible

[illegible]

**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**

			<div>≥80% Susceptible <div><div></div></div></div> <div>70-79% Susceptible <div><div></div></div></div> <div>≤69% Susceptible <div><div></div></div></div>																				#	%	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																						
Haemophilus influenzae ^^			8	24	50																																								
Pseudomonas aeruginosa			7	21			86	86					86				86				100	100	100																						
Escherichia coli			6	18	17	67		67	100	100			83	83			67		50	100	100	100																							
Klebsiella pneumoniae			6	18	0	100		100	100	100			100	100			100		100	100	83	100																							
Enterobacter cloacae			2	6	0	0		0	100	50			0	0				100		100	100	100	100																						
Moraxella catarrhalis ^			2	6																																									
ALL GRAM-POSITIVE BACTERIA			26	100				62	62	62	62	62	62		66	58			81					81																					
Staphylococcus aureus, all isolates			21	81				76	76	76	76	76			81	71	91		100					100																					
- methicillin-susceptible			16	62				100	100	100	100	100			88	81	94		100					100																					
- methicillin-resistant (MRSA)			5	19				0	0	0	0	0			60	40	80		100					100																					
Mycobacterium tuberculosis complex			5	19																																									

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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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### Skin, Wound and Abscess Isolates – % Susceptible

			<div>≥80% Susceptible</div> <div>70-79% Susceptible</div> <div>≤69% Susceptible</div>		#	%	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	202	—	15	25			74	80	61					54								67					
ALL GRAM-NEGATIVE BACTERIA	90	100	12	33			66	99	55					38	69					81		53	95	95	99		
<i>Escherichia coli</i>	32	36	25	66			72	100	94					75	75					66		69	94	94	100		
<i>Pseudomonas aeruginosa</i>	32	36					78	97								88				97			97	97	100		
<i>Enterobacter cloacae</i>	4	4	0	0			0	100	50					0	0					100		100	100	100	100		
<i>Proteus mirabilis</i>	4	4	50	100			100	100	100					100	100					100		100	100	100	100		
<i>Klebsiella pneumoniae</i>	3	3	0	100			100	100	100					100	100					100		100	100	100	100		
<i>Stenotrophomonas maltophilia</i>	3	3																			100	100					
<i>Serratia marcescens</i>	3	3	0	0			0	100	100					0	0					67		100	100	100	100		
ALL GRAM-POSITIVE BACTERIA	112	100	18	18	4	80	66	66	62	66	65					56	45					79				100	
Coagulase-negative staphylococci	19	17					53	53	53	53	53					53	32	100				74				100	100
<i>Staphylococcus aureus</i> , all isolates	72	64					82	82	82	82	82					67	55	90				98				100	100
- methicillin-susceptible	59	53					100	100	100	100	100					68	64	95				98				100	100
- methicillin-resistant (MRSA)	13	12					0	0	0	0	0					62	15	69				100				100	100
<i>Enterococcus faecalis</i> , all isolates	14	13	100	100			100																			100	
- vancomycin-susceptible	14	13	100	100			100																			100	
- vancomycin-resistant (VRE)	0	0																									
Group A streptococci**	3	3			100												100	100								100	
<i>Enterococcus faecium</i> , all isolates	2	2	50	50			50																			100	
- vancomycin-susceptible	2	2	50	50			50																			100	
- vancomycin-resistant (VRE)	0	0																									
- vancomycin-susceptible (vanA+)	0	0																									

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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:**

\*\* 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.

<sup>c</sup> *S. maltophilia*: Susceptibility to moxifloxacin was predicted based on levofloxacin susceptibility testing results.

# **Mount Sinai Hospital ANTIBIOGRAM** **Wards other than ICUs/Emergency** **January 1, 2016 - December 31, 2016**

## **Urine Isolates – % Susceptible**

		<div> <div>≥80% Susceptible</div> <div>70-79% Susceptible</div> <div>≤69% Susceptible</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
<b>ALL BACTERIA</b>				637	—	44	69		82	71	63			34	51		11	86	54	73					
<b>ALL GRAM-NEGATIVE BACTERIA</b>				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		
<b>ALL GRAM-POSITIVE BACTERIA</b>				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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