

**Mount Sinai Hospital ANTIBIOGRAM  
Emergency Department  
January 1, 2017 - December 31, 2017**

**Blood Isolates – % Susceptible**

	#	%	Antibiotics																								
			Ampicillin	Amoxicillin-Clavulanic acid	Penicillin	Penicillin IV (meningitis)	Penicillin IV (non-meningitis)	Piperacillin-Tazobactam	Meropenem	Ertapenem	Cloxacillin	Cefazolin	Ceftriaxone	Ceftriaxone (meningitis)	Ceftriaxone (non-meningitis)	Ceftazidime	Clindamycin	Erythromycin	Doxycycline	Ciprofloxacin	Moxifloxacin	Trimethoprim-Sulfamethoxazole	Gentamicin	Tobramycin	Amikacin	Vancomycin	Linezolid
<b>ALL BACTERIA</b>	255	—	26	43				73	75	75		64	75								77						
<b>ALL GRAM-NEGATIVE BACTERIA</b>	100	100	37	81				86	100	98		70	86		87				79		83	94	95	100			
<i>Escherichia coli</i>	67	67	48	84				88	100	100		72	91		91				70		79	94	94	100			
<i>Klebsiella pneumoniae</i>	17	17	0	88				88	100	100		88	88		88				94		88	88	94	100			
<i>Proteus mirabilis</i>	7	7	71	100				100	100	100		100	100		100				100		100	100	100	100			
<i>Klebsiella oxytoca</i>	4	4	0	75				75	100	100		0	75		75				100		100	100	100	100			
<i>Enterobacter aerogenes</i>	2	2	0	0				0	100	100		0	0		0				100		100	100	100	100			
<b>ALL GRAM-POSITIVE BACTERIA</b>	155	100	18	18	14			64	60	60	46	60	67						68	40					72		99
Coagulase-negative staphylococci	81	52						56	56	56	56	56							67	22	89				67		100
<i>Staphylococcus aureus</i> , all isolates	33	21						79	79	79	79	79							72	60	94				100		100
- methicillin-susceptible	26	17						100	100	100	100	100							65	65	96				100		100
- methicillin-resistant (MRSA)	7	5						0	0	0	0	0							100	43	86				100		100
Viridans group streptococci*	13	8											92														100
<i>Enterococcus faecalis</i> , all isolates	6	4	100	100				100																			100
- vancomycin-susceptible	6	4	100	100				100																			100
- vancomycin-resistant (VRE)	0	0																									
Group B streptococci**	5	3			100														80	80							100
Group G streptococci**	5	3			100														100	100							100
<i>Streptococcus pneumoniae</i>	5	3				100	100							100	100				100	100		100					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	Penicillin IV (meningitis)	Penicillin IV (non-meningitis)	Piperacillin-Tazobactam	Meropenem	Ertapenem	Cloxacillin	Cefazolin	Ceftriaxone	Ceftazidime	Clindamycin	Erythromycin	Doxycycline	Ciprofloxacin	Moxifloxacin	Trimethoprim-Sulfamethoxazole	Gentamicin	Tobramycin	Amikacin	Vancomycin	Linezolid
<b>ALL BACTERIA</b>	11	—	36	55				82	100	45			73						80						
<b>ALL GRAM-NEGATIVE BACTERIA</b>	8	100	38	63				75	100	25			75	88				67		67	100	100	100		
<i>Haemophilus influenzae</i> <sup>^,^^</sup>	4	50	75																						
<i>Klebsiella pneumoniae</i>	1	13	0	100				100	100	100			100	100				100		100	100	100	100		
<i>Pseudomonas aeruginosa</i>	1	13						0	100					100				0			100	100	100		
<i>Enterobacter cloacae</i>	1	13	0	0				0	100	100				0	0				100		100	100	100		
<i>Moraxella catarrhalis</i> <sup>^</sup>	1	13																							
<b>ALL GRAM-POSITIVE BACTERIA</b>	3	100	33	33	33			100	100	100	67	100	67		100	33				100					100
<i>Staphylococcus aureus</i> , all isolates	2	67						100	100	100	100	100			100	50	100			100				100	100
- methicillin-susceptible	2	67						100	100	100	100	100			100	50	100			100				100	100
- methicillin-resistant (MRSA)	0	0																							
<i>Streptococcus pneumoniae</i>	1	33						100	100						100	0				100					100

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

**Year-Specific Notes:**

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

**Organism-Specific Notes:**

<sup>^</sup> *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.

<sup>^^</sup> *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**

	#	%	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	
<b>ALL BACTERIA</b>	<b>268</b>	<b>—</b>	<b>6</b>	<b>11</b>		<b>78</b>	<b>82</b>	<b>74</b>				<b>71</b>						<b>89</b>						
<b>ALL GRAM-NEGATIVE BACTERIA</b>	<b>56</b>	<b>100</b>	<b>20</b>	<b>45</b>		<b>77</b>	<b>98</b>	<b>59</b>				<b>46</b>	<b>82</b>				<b>91</b>	<b>51</b>	<b>98</b>	<b>96</b>	<b>100</b>			
<i>Pseudomonas aeruginosa</i>	20	36				85	95					100					85		100	100	100			
<i>Escherichia coli</i>	10	18	30	100		100	100	100				100	100				100		80	100	100	100		
<i>Proteus mirabilis</i>	8	14	75	88		100	100	100				100	100				88		88	100	100	100		
<i>Klebsiella pneumoniae</i>	6	11	0	83		83	100	100				83	83				100		67	83	83	100		
<i>Enterobacter cloacae</i>	3	5	0	0		0	100	100				0	0				100		100	100	100	100		
<i>Morganella morganii</i>	3	5	0	0		0	100	100				0	0				67		67	100	100	100		
<i>Serratia marcescens</i>	3	5	0	0		0	100	100				0	0				100		100	100	67	100		
<b>ALL GRAM-POSITIVE BACTERIA</b>	<b>212</b>	<b>100</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>79</b>	<b>78</b>	<b>78</b>	<b>77</b>	<b>78</b>	<b>78</b>		<b>80</b>	<b>62</b>				<b>98</b>					<b>100</b>	
<i>Staphylococcus aureus</i> , all isolates	207	98				78	78	78	78	78			81	63	91			99					100	100
- methicillin-susceptible	162	76				100	100	100	100	100			81	73	91			99					100	100
- methicillin-resistant (MRSA)	45	21				0	0	0	0	0			82	27	93			100					100	100
<i>Enterococcus faecalis</i> , all isolates	2	1	100	100		100																	100	
- vancomycin-susceptible	2	1	100	100		100																	100	
- vancomycin-resistant (VRE)	0	0																						
Coagulase-negative staphylococci	1	0				100	100	100	100	100			100	0	100			100					100	100
Group B streptococci**	1	0				100							0	0									100	
Group A streptococci**	1	0				100							100	100									100	

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**Year-Specific Notes:**

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**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.

## Mount Sinai Hospital ANTIBIOGRAM Emergency Department January 1, 2017 - December 31, 2017

### Urine Isolates – % Susceptible

≥80% Susceptible <span style="color: green;">■</span> 70-79% Susceptible <span style="color: yellow;">■</span> ≤69% Susceptible <span style="color: red;">■</span>	#	%	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>	676	—	35	71		83	87	84			61	70		5	81	64	82						
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<b>ALL GRAM-NEGATIVE BACTERIA</b>	564	100	28	71		81	100	96			69	80	83		83	73	80	92	92	100			
<i>Escherichia coli</i>	402	71	33	77		85	100	100			74	88	88		80	71	99	91	91	100			
<i>Klebsiella pneumoniae</i>	59	10	0	88		86	100	100			88	90	90		90	86	39	95	92	100			
<i>Proteus mirabilis</i>	30	5	87	93		100	100	100			97	100	100		87	90	0	90	90	100			
<i>Pseudomonas aeruginosa</i>	23	4				91	96						91	87				96	96	96			
<i>Klebsiella oxytoca</i>	15	3	0	87		87	100	100			87	87	87		100	100	93	100	100	100			
<i>Citrobacter koseri</i>	9	2	0	0		0	100	100			0	0	0		100	100	100	100	100	100			
<i>Enterobacter aerogenes</i>	6	1	0	0		0	100	100			0	0	0		100	100	33	100	100	100			
<i>Enterobacter cloacae</i>	5	1	0	0		0	100	100			0	0	0		100	80	40	100	100	100			
<i>Citrobacter freundii</i>	5	1	0	0		0	100	100			0	0	0		100	100	80	100	100	100			

<b>ALL GRAM-POSITIVE BACTERIA</b>	112	100	71	71		92	21	21	21	21	21	21		36	67	17	94						99	100
<i>Enterococcus faecalis</i> , all isolates	77	69	100	100		100								19	83		99						100	100
- vancomycin-susceptible	77	69	100	100		100								19	83		99						100	100
- vancomycin-resistant (VRE)	0	0																						
<i>Staphylococcus aureus</i> , all isolates	17	15				82	82	82	82	82	82			100	100	94							100	100
- methicillin-susceptible	14	13				100	100	100	100	100	100			100	100	93							100	100
- methicillin-resistant (MRSA)	3	3				0	0	0	0	0	0			100	100	100							100	100
<i>Staphylococcus saprophyticus</i>	12	11																						
<i>Enterococcus faecium</i> , all isolates	6	5	33	33		33								67	33		50						83	
- vancomycin-susceptible	6	5	33	33		33								67	33		50						83	
- vancomycin-resistant (VRE)	0	0																						
- vancomycin-susceptible (vanA+)	0	0																						

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**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:**

" *S. saprophyticus* : Susceptibility testing is not routinely performed. Most urinary tract infections due to this organism respond to nitrofurantoin, trimethoprim/sulfamethoxazole or fluoroquinolones.