

**Mount Sinai Hospital ANTIBIOGRAM  
Emergency Department  
January 1, 2018 - December 31, 2018**

**Blood Isolates – % Susceptible**

		≥80% Susceptible		70-79% Susceptible		≤69% Susceptible																					
#	%	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>	280	—	17	31			83	88	84		69	82									86						
<b>ALL GRAM-NEGATIVE BACTERIA</b>	100	100	23	62			78	100	89		47	72			78				81		71	92	89	100			
<i>Escherichia coli</i>	59	59	32	73			86	100	100		61	88			88				81		68	88	86	100			
<i>Klebsiella pneumoniae</i>	13	13	0	85			85	100	100		85	85			85				85		92	92	85	100			
<i>Pseudomonas aeruginosa</i>	7	7					100	100							100				100			100	100	100			
<i>Enterobacter cloacae</i>	6	6	0	0			0	100	100		0	0			0				100		83	100	100	100			
<i>Proteus mirabilis</i>	5	5	80	100			100	100	100			100			100				100		100	100	100	100			
<b>ALL GRAM-POSITIVE BACTERIA</b>	180	100	14	14	11		85	82	82	71	82	88				89	47				95				100		
Coagulase-negative staphylococci	110	61					90	90	90	90	90					100	40	100			100				100	100	
<i>Staphylococcus aureus</i> , all isolates	33	18					88	88	88	88	88					82	72	100			97				100	100	
- methicillin-susceptible	29	16					100	100	100	100	100					79	79	100			100				100	100	
- methicillin-resistant (MRSA)	4	2					0	0	0	0	0					100	25	100			75				100	100	
Viridans group streptococci *	9	5											100													100	
<i>Streptococcus pneumoniae</i>	7	4				57	57							86	100				71	57					100		
Group B streptococci**	7	4														71	57									100	
<i>Enterococcus faecalis</i> , all isolates	6	3	100	100			100																		100		
- vancomycin-susceptible	6	3	100	100			100																		100		
- vancomycin-resistant (VRE)	0	0																								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.

**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

		≥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	Ceftriaxone	Ceftazidime	Clindamycin	Erythromycin	Doxycycline	Ciprofloxacin	Moxifloxacin	Trimethoprim-Sulfamethoxazole	Gentamicin	Tobramycin	Amikacin	Vancomycin	Linezolid	
<b>ALL BACTERIA</b>	9	—	33	67	100	89	22	22	89								67						
<b>ALL GRAM-NEGATIVE BACTERIA</b>	7	100	43	86	100	86			86	100					100			100	100	100			
<i>Haemophilus influenzae</i> ^^	6	86	50																				
<i>Pseudomonas aeruginosa</i>	1	14			100	0				100					100			100	100	100			
<b>ALL GRAM-POSITIVE BACTERIA</b>	2	100			100	100	100	100	100	100		100	100				100					100	
<i>Staphylococcus aureus</i> , all isolates	2	100			100	100	100	100	100			100	100	100			100					100	100
- methicillin-susceptible	2	100			100	100	100	100	100			100	100	100			100					100	100
- methicillin-resistant (MRSA)	0	0																					

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**Organism-Specific Notes:**

^^ *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 style="display: flex; align-items: center;"> <div style="margin-right: 10px;"> <p>≥80% Susceptible <span style="color: green;">■</span></p> <p>70-79% Susceptible <span style="color: yellow;">■</span></p> <p>≤69% Susceptible <span style="color: red;">■</span></p> </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	
<b>ALL BACTERIA</b>	312	—	6	11		77	80	70		59	68						84						
<b>ALL GRAM-NEGATIVE BACTERIA</b>	66	100	12	36		74	100	53			38	78				88		47	95	95	98		
<i>Pseudomonas aeruginosa</i>	27	41				89	100				93					93			96	100	100		
<i>Escherichia coli</i>	15	23	20	60		60	100	100		0	67	67				67		60	93	87	93		
<i>Klebsiella pneumoniae</i>	9	14	0	78		78	100	100		0	78	78				89		89	89	89	100		
<i>Enterobacter cloacae</i>	3	5	0	0		0	100	100		0	0	0				100		100	100	100	100		
<i>Klebsiella oxytoca</i>	3	5	0	100		100	100	100			100	100				100		100	100	100	100		
<i>Proteus mirabilis</i>	3	5	100	100		100	100	100			100	100				100		100	100	100	100		
<b>ALL GRAM-POSITIVE BACTERIA</b>	246	100	4	4	1	78	74	74	74	74	76					71	56					100	
<i>Staphylococcus aureus</i> , all isolates	230	93				78	78	78	78	78						75	60	95				100	100
- methicillin-susceptible	180	73				100	100	100	100	100						73	69	97				100	100
- methicillin-resistant (MRSA)	50	20				0	0	0	0	0						82	26	86				100	100
<i>Enterococcus faecalis</i> , all isolates	7	3	100	100		100																100	
- vancomycin-susceptible	7	3	100	100		100																100	
- vancomycin-resistant (VRE)	0	0																					
Coagulase-negative staphylococci	3	1				67	67	67	67	67						33	0	67				100	100
<i>Enterococcus faecium</i> , all isolates	2	1	50	50		50																50	
- vancomycin-susceptible	1	0	100	100		100																100	
- vancomycin-resistant (VRE)	0	0																					
- vancomycin-susceptible (vanA+)	1	0	0	0		0																0	100
Viridans group streptococci*	3	1									100											100	

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

### Organism-Specific Notes:

- 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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## Urine Isolates – % Susceptible

	#	%	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>	685	—	36	70		84	88	85		5	70	73		5	79	67	83						
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<b>ALL GRAM-NEGATIVE BACTERIA</b>	583	100	29	70		82	100	96		1	78	82	85		81	74	81	91	91	100			
<i>Escherichia coli</i>	436	75	34	74		85	100	100		2	85	89	89		78	72	96	90	89	100			
<i>Klebsiella pneumoniae</i>	59	10	0	93		93	100	100		0	93	95	95		93	93	44	95	97	100			
<i>Proteus mirabilis</i>	25	4	92	100		100	100	100			92	100	100		80	92	0	92	96	100			
<i>Pseudomonas aeruginosa</i>	19	3				89	100						95		79			95	100	100			
<i>Enterobacter cloacae</i>	11	2	0	0		0	100	91		0	0	0	0		91	91	55	100	100	100			
<i>Citrobacter koseri</i>	9	2	0	0		0	100	100		0	0	0	0		89	100	89	100	100	100			
<i>Klebsiella oxytoca</i>	7	1	0	100		100	100	100			100	100	100		100	100	100	100	100	100			
<i>Morganella morganii</i>	6	1	0	0		0	100	100		0	0	0	0		83	80	0	83	100	100			
<i>Citrobacter freundii</i>	5	1	0	0		0	100	100		0	0	0	0		100	100	100	100	100	100			

<b>ALL GRAM-POSITIVE BACTERIA</b>	102	100	71	71		93	22	22	22	22	22	22		41	70	18	95					99	
<i>Enterococcus faecalis</i> , all isolates	70	69	100	100		100								27	86		100					100	
- vancomycin-susceptible	70	69	100	100		100								27	86		100					100	
- vancomycin-resistant (VRE)	0	0																					
<i>Staphylococcus aureus</i> , all isolates	16	16				88	88	88	88	88	88			94		100	100					100	100
- methicillin-susceptible	14	14				100	100	100	100	100	100			93		100	100					100	100
- methicillin-resistant (MRSA)	2	2				0	0	0	0	0	0			100		100	100					100	100
<i>Staphylococcus saprophyticus</i>	11	11																					
<i>Enterococcus faecium</i> , all isolates	4	4	25	25		25								50	25		25					75	100
- vancomycin-susceptible	3	3	33	33		33								67	33		33					100	100
- vancomycin-resistant (VRE)	1	1	0	0		0								0	0		0					0	100
- vancomycin-susceptible (vanA+)	0	0																					
<i>Enterococcus gallinarum</i>	1	1	100	100		100								100	100		100					100	

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**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.