

**Mount Sinai Hospital ANTIBIOGRAM**  
**Wards other than ICUs/Emergency**  
**January 1, 2017 - December 31, 2017**

**Blood Isolates – % Susceptible**

		<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="font-size: small;"> <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 style="font-size: x-small; text-align: center;"> <p>#      %</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>		301	—	17	31	55	60	57	42	52						83																				
<b>ALL GRAM-NEGATIVE BACTERIA</b>		108	100	20	61	71	99	90	47	67	73			88		78	94	94	99																	
<i>Escherichia coli</i>		60	56	30	75	83	100	100	65	85	85			80		77	93	93	100																	
<i>Klebsiella pneumoniae</i>		13	12	0	92	85	100	100	85	92	92			100		92	100	100	100																	
<i>Enterobacter cloacae</i>		10	9	0	0	0	100	90	0	0	0			100		100	100	100	100																	
<i>Pseudomonas aeruginosa</i>		7	6			86	86				86			86			86	86	100																	
<i>Klebsiella oxytoca</i>		5	5	0	100	100	100	100	20	100	100			100		100	100	100	100																	
<b>ALL GRAM-POSITIVE BACTERIA</b>		193	100	15	15	8	45	39	39	31	39	44		49	30		86				100															
Coagulase-negative staphylococci		102	53				17	17	17	17	17			50	17	83					100	100														
<i>Staphylococcus aureus</i> , all isolates		50	26				84	84	84	84	84			72	66	96					100	100														
- methicillin-susceptible		42	22				100	100	100	100	100			71	71	100					100	100														
- methicillin-resistant (MRSA)		8	4				0	0	0	0	0			75	38	75					100	100														
<i>Enterococcus faecalis</i> , all isolates		13	7	100	100	100															100															
- vancomycin-susceptible		13	7	100	100	100															100															
- vancomycin-resistant (VRE)		0	0																																	
Group B streptococci**		12	6			100							8	25							100															
Viridans group streptococci*		11	6																		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.

# Mount Sinai Hospital ANTIBIOGRAM

## Wards other than ICUs/Emergency

### January 1, 2017 - December 31, 2017

#### Respiratory Isolates – % Susceptible

		<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="font-size: small;"> <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 style="font-size: x-small;"> <p>#      %</p> </div> </div>																								
		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>	64	–	14	34			76	84	52			68									68					
<b>ALL GRAM-NEGATIVE BACTERIA</b>	35	100	11	49			79	94	34			55			77				73		50	92	96	96		
<i>Pseudomonas aeruginosa</i>	12	34					67	83							75				58			83	92	91		
<i>Haemophilus influenzae</i> <sup>^^</sup>	8	23	50																							
<i>Klebsiella pneumoniae</i>	5	14	0	100			100	100	100			100			100				100		100	100	100	100		
<i>Escherichia coli</i>	3	9	0	100			100	100	100			100			100				100		67	100	100	100		
<i>Stenotrophomonas maltophilia</i> <sup>†</sup>	2	6																		100	100					
<i>Serratia marcescens</i>	2	6	0	0			0	100	100			0			0				100		100	100	100	100		
<b>ALL GRAM-POSITIVE BACTERIA</b>	29	100	17	17	17		72	72	72	55	72	83				89	68				90				100	
<i>Staphylococcus aureus</i> , all isolates	19	66					84	84	84	84	84					95	73	100			100				100	100
- methicillin-susceptible	16	55					100	100	100	100	100					94	81	100			100				100	100
- methicillin-resistant (MRSA)	3	10					0	0	0	0	0					100	33	100			100				100	100
<i>Streptococcus pneumoniae</i>	6	21			67	67							100	100		100	67			100					100	
<i>Mycobacterium tuberculosis</i> complex	2	7																								
Viridans group streptococci <sup>*</sup>	1	3										100													100	
Group A streptococci <sup>**</sup>	1	3		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:**

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

**Organism-Specific Notes:**

- <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.
- <sup>\*\*</sup> 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>\*</sup> 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.
- <sup>†</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, 2017 - December 31, 2017

### 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
≥80% Susceptible <span style="color: green;">■</span> 70-79% Susceptible <span style="color: yellow;">■</span> ≤69% Susceptible <span style="color: red;">■</span>																									
<b>ALL BACTERIA</b>	202	—	21	29	72	77	61					50								68					
<b>ALL GRAM-NEGATIVE BACTERIA</b>	100	100	20	36	69	98	66					44	73					86		63	95	93	98		
<i>Escherichia coli</i>	34	34	35	62	74	100	100					79	79					71		85	88	88	100		
<i>Pseudomonas aeruginosa</i>	31	31			84	94							94					87			100	100	100		
<i>Proteus mirabilis</i>	8	8	100	100	100	100	100					100	100					100		100	88	88	100		
<i>Klebsiella pneumoniae</i>	7	7	0	86	100	100	100					100	100					100		100	100	86	100		
<i>Enterobacter cloacae</i>	6	6	0	0	0	100	83					0	0					100		83	100	100	100		
<b>ALL GRAM-POSITIVE BACTERIA</b>	102	100	22	22	2	76	56	56	54	56	56			62	54					74				99	
<i>Staphylococcus aureus</i> , all isolates	62	61				77	77	77	77	77				85	78	98				100				100	100
- methicillin-susceptible	48	47				100	100	100	100	100				88	88	98				100				100	100
- methicillin-resistant (MRSA)	14	14				0	0	0	0	0				75	42	100				100				100	100
<i>Enterococcus faecalis</i> , all isolates	19	19	100	100		100																		95	
- vancomycin-susceptible	18	18	100	100		100																		100	
- vancomycin-resistant (VRE)	1	1	100	100		100																		0	100
Coagulase-negative staphylococci	16	16				44	44	44	44	44				50	31	100				75				100	100
<i>Enterococcus faecium</i> , all isolates	3	3	33	33		33																		100	
- vancomycin-susceptible	3	3	33	33		33																		100	
- vancomycin-resistant (VRE)	0	0																							
- vancomycin-susceptible (vanA+)	0	0																							
Group A streptococci**	2	2				100								100	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:**

\*\* 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 Wards other than ICUs/Emergency January 1, 2017 - December 31, 2017

### Urine Isolates – % Susceptible

		<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: left;"> <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 style="text-align: center;"> <p>#      %</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	
<b>ALL BACTERIA</b>	576	—	42	70	81	70	65			41	51		10	80	53	78						
<b>ALL GRAM-NEGATIVE BACTERIA</b>	378	100	21	62	75	100	91			55	70	78		80	73	69	92	91	100			
<i>Escherichia coli</i>	217	57	27	72	82	100	100			62	85	85		72	74	99	88	88	100			
<i>Klebsiella pneumoniae</i>	56	15	0	88	84	100	100			82	88	88		86	86	30	95	91	100			
<i>Pseudomonas aeruginosa</i>	31	8			90	94						97		87			97	97	100			
<i>Proteus mirabilis</i>	24	6	83	92	96	100	100			96	96	96		92	88	4	92	96	100			
<i>Enterobacter cloacae</i>	16	4	0	0	0	100	88			0	0	0		100	88	44	100	100	100			
<i>Klebsiella oxytoca</i>	10	3	0	70	70	100	100			60	80	80		100	100	100	100	100	100			
<i>Citrobacter koseri</i>	8	2	0	0	0	100	100			0	0	0		100	100	100	100	100	100			
<i>Morganella morganii</i>	5	1	0	0	0	100	100			0	0	0		100	100	0	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>	198	100	84	84	5	93	14	14	9	14	14		31	81	10	94				99	98	
<i>Enterococcus faecalis</i> , all isolates	151	76	100	100	100								23	95	100					99	100	
- vancomycin-susceptible	151	76	100	100	100								23	95	100					99	100	
- vancomycin-resistant (VRE)	0	0																				
<i>Staphylococcus aureus</i> , all isolates	16	8			94	94	94	94	94	94			81		100	100				100	100	
- methicillin-susceptible	15	8			100	100	100	100	100	100			80		100	100				100	100	
- methicillin-resistant (MRSA)	1	1			0	0	0	0	0	0			100		100	100				100	100	
<i>Enterococcus faecium</i> , all isolates	12	6	17	17	17								41	25	25					92	100	
- vancomycin-susceptible	11	6	18	18	18								45	27	27					100	100	
- vancomycin-resistant (VRE)	1	1	0	0	0								0	0	0					0	100	
- vancomycin-susceptible (vanA+)	0	0																				
Group B streptococci**	10	5		100																	100	
Coagulase-negative staphylococci	3	2			33	33	33	33	33				100		100	100					100	100
<i>Enterococcus</i> species	3	2	100	100	100								33	100	100						100	
<i>Staphylococcus saprophyticus</i> ™	3	2																				

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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.

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