

# Mount Sinai Hospital ANTIBIOGRAM Intensive Care Units January 1, 2018 - December 31, 2018

## Blood 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
<b>ALL BACTERIA</b>	104	—	8	15		26	37	31		11	22						30					
<b>ALL GRAM-NEGATIVE BACTERIA</b>	38	100	5	26		43	91	71		16	40	50				66	63	89	91	94		
<i>Klebsiella pneumoniae</i>	10	26	0	50		50	90	90		30	60	60				70	60	70	70	100		
<i>Escherichia coli</i>	9	24	22	56		67	100	100		33	89	89				44	78	100	100	100		
<i>Pseudomonas aeruginosa</i>	5	13				80	80					100				100		100	100	100		
<i>Enterobacter cloacae</i>	3	8	0	0		0	100	100		0	0	0				100	100	100	100	100		
<i>Stenotrophomonas maltophilia</i> <sup>†</sup>	3	8														100	100					
<b>ALL GRAM-POSITIVE BACTERIA</b>	66	100	9	9		17	8	8	8	8	12		4	2			10				94	
Coagulase-negative staphylococci	40	61				0	0	0	0	0			0	0	100		0				100	100
<i>Enterococcus faecium</i> , all isolates	11	17	0	0		0															64	
- vancomycin-susceptible	7	11	0	0		0															100	
- vancomycin-resistant (VRE)	4	6	0	0		0															0	75
- vancomycin-susceptible (vanA+)	0	0																				
<i>Staphylococcus aureus</i> , all isolates	6	9				83	83	83	83	83			38	21	100		100				100	100
- methicillin-susceptible	5	8				100	100	100	100	100			25	25	100		100				100	100
- methicillin-resistant (MRSA)	1	2				0	0	0	0	0			100	0	100		100				100	100
<i>Enterococcus faecalis</i> , all isolates	6	9	100	100		100															100	
- vancomycin-susceptible	6	9	100	100		100															100	
- vancomycin-resistant (VRE)	0	0																				
<i>Viridans group streptococci</i> <sup>*</sup>	3	5									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.
- ICUs include MSICU.

### 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:

- <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.

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## Respiratory 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: right;"> <p>#      %</p> </div> </div>																						
		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>	71	—	15	24			71	89	51		27	54						71						
<b>ALL GRAM-NEGATIVE BACTERIA</b>	48	100	19	31			64	93	35		43	61					78	57	90	94	100			
<i>Pseudomonas aeruginosa</i>	14	29					79	79				79					93		86	93	100			
<i>Haemophilus influenzae</i> <sup>^^</sup>	9	19	89																					
<i>Stenotrophomonas maltophilia</i> <sup>†</sup>	6	13															100	100						
<i>Enterobacter cloacae</i>	5	10	0	0			0	100	100		0	0	0				100	100	100	100	100			
<i>Escherichia coli</i>	4	8	0	25			0	100	100		0	50	50				100	75	100	100	100			
<b>ALL GRAM-POSITIVE BACTERIA</b>	23	100	9	9	9		83	83	83	74	83	74		74	65			95					96	
<i>Staphylococcus aureus</i> , all isolates	20	87					85	85	85	85	85			75	65	100		100					100	100
- methicillin-susceptible	17	74					100	100	100	100	100			71	71	100		100					100	100
- methicillin-resistant (MRSA)	3	13					0	0	0	0	0			100	33	100		100					100	100
<i>Streptococcus pneumoniae</i>	2	9				100	100							100	100			100					100	
<i>Enterococcus faecium</i> , all isolates	1	4	0	0			0																0	
- vancomycin-susceptible	0	0																						
- vancomycin-resistant (VRE)	1	4	0	0			0																0	100
- vancomycin-susceptible (vanA+)	0	0																						

### 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.
- ICUs include MSICU.

### 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> *S. maltophilia*: Susceptibility to moxifloxacin was predicted based on levofloxacin susceptibility testing results.

# Mount Sinai Hospital ANTIBIOGRAM Intensive Care Units January 1, 2018 - December 31, 2018

## Skin, Wound and Abscess 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	Ceftriaxone	Ceftazidime	Clindamycin	Erythromycin	Doxycycline	Ciprofloxacin	Moxifloxacin	Trimethoprim-Sulfamethoxazole	Gentamicin	Tobramycin	Amikacin	Vancomycin	Linezolid
<b>ALL BACTERIA</b>	18	—	17	22	72	78	67	39	50							61						
<b>ALL GRAM-NEGATIVE BACTERIA</b>	7	100	14	29	57	100	71		29	57					71	43	86	86	100			
<i>Pseudomonas aeruginosa</i>	2	29			100	100				100					100		100	100	100			
<i>Escherichia coli</i>	2	29	0	50	50	100	100	0	50	50					50	50	100	100	100			
<i>Enterobacter cloacae</i>	1	14	0	0	0	100	100	0	0	0					100	100	100	100	100			
<i>Serratia marcescens</i>	1	14	0	0	0	100	100	0	0	0					100	0	0	0	100			
<i>Proteus mirabilis</i>	1	14	100	100	100	100	100		100	100					0	100	100	100	100			
<b>ALL GRAM-POSITIVE BACTERIA</b>	11	100	18	18	82	64	64	64	64	64		64	64			73					100	
<i>Staphylococcus aureus</i> , all isolates	7	64			100	100	100	100	100			100	100	100		100					100	100
- methicillin-susceptible	7	64			100	100	100	100	100			100	100	100		100					100	100
- methicillin-resistant (MRSA)	0	0																				
<i>Enterococcus faecalis</i> , all isolates	2	18	100	100	100																100	
- vancomycin-susceptible	2	18	100	100	100																100	
- vancomycin-resistant (VRE)	0	0																				
Coagulase-negative staphylococci	1	9			0	0	0	0	0	0			0	0	0		100				100	100
<i>Enterococcus faecium</i> , all isolates	1	9	0	0	0																100	
- vancomycin-susceptible	1	9	0	0	0																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.
- ICUs include MSICU.

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## 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>	37	—	32	46	62	68	59		5	33	33		14	68	38	73						
<b>ALL GRAM-NEGATIVE BACTERIA</b>	24	100	12	33	50	96	83			42	42	54		75	50	71	92	96	100			
<i>Escherichia coli</i>	13	54	23	46	62	100	100		0	62	62	62		69	54	100	92	100	100			
<i>Pseudomonas aeruginosa</i>	4	17			50	75						75		100			100	100	100			
<i>Klebsiella pneumoniae</i>	4	17	0	50	50	100	100		0	50	50	50		50	50	50	75	75	100			
<i>Enterobacter cloacae</i>	2	8	0	0	0	100	100		0	0	0	0		100	100	50	100	100	100			
<i>Citrobacter koseri</i>	1	4	0	0	0	100	100		0	0	0	0		100	100	100	100	100	100			
<b>ALL GRAM-POSITIVE BACTERIA</b>	13	100	69	69	85	15	15	15	15	15	15			39	54	15	77				92	
<i>Enterococcus faecalis</i> , all isolates	7	54	100	100	100									29	86		86				100	
- vancomycin-susceptible	7	54	100	100	100									29	86		86				100	
- vancomycin-resistant (VRE)	0	0																				
<i>Enterococcus faecium</i> , all isolates	4	31	50	50	50									25	25		50				75	100
- vancomycin-susceptible	3	23	67	67	67									33	33		33				100	100
- vancomycin-resistant (VRE)	1	8	0	0	0									0	0		100				0	100
- vancomycin-susceptible (vanA+)	0	0																				
<i>Staphylococcus aureus</i> , all isolates	2	15			100	100	100	100	100	100	100			100		100	100				100	100
- methicillin-susceptible	2	15			100	100	100	100	100	100	100			100		100	100				100	100
- methicillin-resistant (MRSA)	0	0																				

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