

# Mount Sinai Hospital ANTIBIOGRAM Intensive Care Units January 1, 2020 - December 31, 2020

## Blood Isolates – % Susceptible

		Ampicillin	Amoxicillin-Clavulanic acid	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>	123	—	9	17	25	22	18	12	17							22						
<b>ALL GRAM-NEGATIVE BACTERIA</b>	26	100		38	68	96	65		38	59	77				62		73	87	82	100		
<i>Escherichia coli</i>	9	35	0	44	67	89	89		44	67	67				78		67	78	67	100		
<i>Klebsiella pneumoniae</i>	7	27	0	71	71	100	100		86	86	86				71		86	86	86	100		
<i>Stenotrophomonas maltophilia</i>	4	15													100	100						
<i>Pseudomonas aeruginosa</i>	3	12			100	100					100				67		100	100	100			
<i>Enterobacter cloacae</i>	1	4	0	0	0	100	0		0	0	0				0		100	100	100	100		
<i>Klebsiella aerogenes</i>	1	4	0	0	0	100	100		0	0	0				100		100	100	100	100		
<i>Klebsiella oxytoca</i>	1	4	0	100	100	100	100		0	100	100				100		100	100	100	100		
<b>ALL GRAM-POSITIVE BACTERIA</b>	97	100	11	11	15	5	5	4	5	7		4	3			7					97	
Coagulase-negative staphylococci	68	70			0	0	0	0	0			0	0	100		0					100	100
<i>Enterococcus faecium</i> , all isolates	10	10	10	10	10																70	
- vancomycin-susceptible	7	7	14	14	14																100	
- vancomycin-resistant (VRE)	3	3	0	0	0																0	100
<i>Enterococcus faecalis</i>	9	9	100	100	100																100	
<i>Staphylococcus aureus</i> , all isolates	7	7			57	57	57	57	57			57	43	100			100				100	100
- methicillin-susceptible	4	4			100	100	100	100	100			50	50	100			100				100	100
- methicillin-resistant (MRSA)	3	3			0	0	0	0	0			67	33	100			100				100	100
Viridans group streptococci <sup>o</sup>	2	2								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>o</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

	#	%	Antibiotics																				
			Ampicillin	Amoxicillin-Clavulanic acid	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>	62	—	3	10	78	90	44		34	53						66							
<b>ALL GRAM-NEGATIVE BACTERIA</b>	38	100	5	16	70	91	16			29	68			73		41	97	77	77				
<i>Pseudomonas aeruginosa</i>	17	45			88	88					94			88			100	94	88				
<i>Escherichia coli</i>	4	11	0	50	75	100			100	100				100		50	75						
<i>Stenotrophomonas maltophilia</i>	4	11												100	100								
<i>Haemophilus influenzae</i> <sup>^^</sup>	3	8	33																				
<i>Klebsiella aerogenes</i>	3	8	0	0	0	67	67		0	0	0			67		100	100	100	100				
<b>ALL GRAM-POSITIVE BACTERIA</b>	24	100			88	88	88	88	88	88		71	58			100					100		
<i>Staphylococcus aureus</i> , all isolates	24	100			88	88	88	88	88			71	58	91		100					100	100	
- methicillin-susceptible	21	88			100	100	100	100	100			71	57	90		100					100	100	
- methicillin-resistant (MRSA)	3	13			0	0	0	0	0			67	67	100		100					100	100	

**General Notes:**

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- 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, 2020 - December 31, 2020

## Skin, Wound and Abscess Isolates – % Susceptible

	#	%	Antibiotics																				
			Ampicillin	Amoxicillin-Clavulanic acid	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>	23	—	4	17	65	74	43		32	48							65						
<b>ALL GRAM-NEGATIVE BACTERIA</b>	12	100	8	33	75	92	33		11	42	75					50	50	92	83	75			
<i>Pseudomonas aeruginosa</i>	5	42			80	80					80					40		80	100	80			
<i>Escherichia coli</i>	4	33	0	50	50	100	100		33	50	50					50	75	100	100	100			
<i>Acinetobacter baumannii complex</i>	1	8			100	100					100	100				100	100	100	100	100			
<i>Klebsiella pneumoniae</i>	1	8	0	100	100	100					100	100				100	100	100					
<i>Proteus mirabilis</i>	1	8	100	100	100	100					100	100				0	100	100					
<b>ALL GRAM-POSITIVE BACTERIA</b>	11	100			55	55	55	55	55	55		45	27				82				100		
<i>Staphylococcus aureus</i> , all isolates	8	73			63	63	63	63	63			50	25	100			100				100	100	
- methicillin-susceptible	5	45			100	100	100	100	100			20	20	100			100				100	100	
- methicillin-resistant (MRSA)	3	27			0	0	0	0	0			100	33	100			100				100	100	
Coagulase-negative staphylococci	2	18			50	50	50	50	50			50	50	100			50				100	100	
<i>Enterococcus faecium</i>	1	9	0	0	0																100		

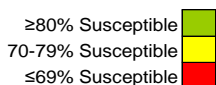
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- Susceptibility to doxycycline was predicted based on tetracycline susceptibility testing results.
- ICUs include MSICU.

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## Urine Isolates – % Susceptible

	#	%	Ampicillin	Amoxicillin-Clavulanic acid	Piperacillin-Tazobactam	Meropenem	Ertapenem	Cloxacillin	Cefazolin	Cephalexin	Ceftriaxone	Ceftazidime	Doxycycline	Ciprofloxacin	Trimethoprim-Sulfamethoxazole	Nitrofurantoin	Gentamicin	Tobramycin	Amikacin	Vancomycin	Linezolid



<b>ALL BACTERIA</b>	28	—	32	61	75	71	46		4	47	47			75	43	64					
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<b>ALL GRAM-NEGATIVE BACTERIA</b>	19	100	16	58	74	100	63			63	63	74		79	58	58	84	58	74		
<i>Escherichia coli</i>	8	42	0	75	88	100	100		0	88	88	88		88	75	100	88	100	100		
<i>Klebsiella pneumoniae</i>	3	16	0	33	33	100	100		0	33	33	33		67	33	33	100	0	100		
<i>Pseudomonas aeruginosa</i>	3	16			67	100						67		100			67	100	67		
<i>Proteus mirabilis</i>	3	16	100	100	100	100				100	100	100		67	100	0	100				
<i>Citrobacter braakii</i>	1	5	0	0	0	100	100		0	0	0	0		0	0	100	0	0	100		
<i>Klebsiella oxytoca</i>	1	5	0	100	100	100				100	100	100		100	100	100	100				

<b>ALL GRAM-POSITIVE BACTERIA</b>	9	100	67	67	78	11	11	11	11	11	11		33	67	11	78					89
<i>Enterococcus faecalis</i>	6	67	100	100	100								33	100		100					100
<i>Enterococcus faecium</i> , all isolates	2	22	0	0	0								0	0		0					50
- vancomycin-susceptible	1	11	0	0	0								0	0		0					100
- vancomycin-resistant (VRE)	1	11	0	0	0								0	0		0					0
<i>Staphylococcus aureus</i>	1	11			100	100	100	100	100	100			100		100	100					100

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