

Mount Sinai Hospital ANTIBIOGRAM

Intensive Care Units

January 1, 2022 - December 31, 2022

All Specimen 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	Daptomycin
≥80% Susceptible																								
70-79% Susceptible																								
≤69% Susceptible																								

ALL BACTERIA	232	—	14	22		55	64	50		30	41							65						
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ALL GRAM-NEGATIVE BACTERIA	98	100	10	31		57	94	58		11	37	54				73	63	86	83	88				
<i>Escherichia coli</i>	28	29	21	50		67	100	100		25	65	65				58	77	81	69	85				
<i>Pseudomonas aeruginosa</i>	24	24				75	88					75				88		88	100	96				
<i>Enterobacter cloacae</i>	11	11	0	0		0	100	82		0	0	0				100		91	100	100	100			
<i>Klebsiella pneumoniae</i>	8	8	0	75		75	88	83		50	75	75				62		75	88	83	100			
<i>Stenotrophomonas maltophilia</i> [†]	6	6															100	100						

ALL GRAM-POSITIVE BACTERIA	134	100	16	16	7	53	44	44	37	44	44		57	48				67				97		
Coagulase-negative staphylococci	71	53				38	38	38	38	38			62	50	88			75				100	100	
<i>Staphylococcus aureus</i> , all isolates	29	22				79	79	79	79	79			82	74	100			100				100	100	
- methicillin-susceptible	23	17				100	100	100	100	100			83	78	100			100				100	100	
- methicillin-resistant (MRSA)	6	4				0	0	0	0	0			80	60	100			100				100	100	
<i>Enterococcus faecalis</i>	12	9	100	100		100																100		
<i>Enterococcus faecium</i> , all isolates	10	7	0	0		0																80		
- vancomycin-susceptible	8	6	0	0		0																100		
- vancomycin-resistant (VRE)	2	1	0	0		0																0	100	100
Viridans group streptococci [‡]	5	4			80					80												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.

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.

[†] *S. maltophilia*: Susceptibility to moxifloxacin was predicted based on levofloxacin susceptibility testing results.

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Blood Isolates – % Susceptible

		Ampicillin	Amoxicillin-Clavulanic acid	Penicillin	Piperacillin-Tazobactam	Meropenem	Ertapenem	Cloxacillin	Cefazolin	Ceftriaxone	Cefazidime	Clindamycin	Erythromycin	Doxycycline	Ciprofloxacin	Moxifloxacin	Trimethoprim-Sulfamethoxazole	Gentamicin	Tobramycin	Amikacin	Vancomycin	Linezolid	Daptomycin
≥80% Susceptible																							
70-79% Susceptible																							
≤69% Susceptible																							
#	%																						

ALL BACTERIA	126	—	11	17	50	58	54	39	45							82							
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ALL GRAM-NEGATIVE BACTERIA	33	100	6	30	42	90	76	18	39	39					73	79	81	84	87				
<i>Escherichia coli</i>	9	27	22	44	67	100	100	33	67	67					67	78	67	78	78				
<i>Enterobacter cloacae</i>	7	21	0	0	0	100	71	0	0	0					100	100	100	100	100				
<i>Klebsiella pneumoniae</i>	5	15	0	60	60	80	80	60	60	60					40	60	80	80	100				
<i>Proteus mirabilis</i>	3	9	0	100	100	100	100	0	100	100					100	100	67	100	100				
<i>Pseudomonas aeruginosa</i>	2	6			50	50				50					100		100	100	100				
<i>Serratia marcescens</i>	2	6	0	0	0	100	100	0	0	0					100	100	100	100	100				
<i>Stenotrophomonas maltophilia</i> [†]	2	6													100	100							

ALL GRAM-POSITIVE BACTERIA	93	100	13	13	5	52	47	47	40	47	47	80	80			83				96			
Coagulase-negative staphylococci	64	69				50	50	50	50	50		100	100	100		100				100	100		
<i>Staphylococcus aureus</i> , all isolates	9	10				67	67	67	67	67		78	66	100		100				100	100		
- methicillin-susceptible	6	6				100	100	100	100	100		83	83	100		100				100	100		
- methicillin-resistant (MRSA)	3	3				0	0	0	0	0		67	33	100		100				100	100		
<i>Enterococcus faecium</i> , all isolates	7	8	0	0	0															71			
- vancomycin-susceptible	5	5	0	0	0															100			
- vancomycin-resistant (VRE)	2	2	0	0	0															0	100	100	
<i>Enterococcus faecalis</i>	6	6	100	100	100															100			
Viridans group streptococci [*]	2	2			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.
- 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:

- ^{*} 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.
- [†] *S. maltophilia*: Susceptibility to moxifloxacin was predicted based on levofloxacin susceptibility testing results.

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Respiratory 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	Ceftazidime	Clindamycin	Erythromycin	Doxycycline	Ciprofloxacin	Moxifloxacin	Trimethoprim-Sulfamethoxazole	Gentamicin	Tobramycin	Amikacin	Vancomycin	Linezolid
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ALL BACTERIA	62	—	11	19				72	88	48		31	47						64					
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ALL GRAM-NEGATIVE BACTERIA	40	100	10	23				64	89	28			25	60				69		47	87	88	84	
<i>Pseudomonas aeruginosa</i>	17	43						82	82				82					82			82	100	94	
<i>Haemophilus influenzae</i> ^{^^}	4	10	100																					
<i>Serratia marcescens</i>	4	10	0	0			0	100	100			0	0					100		100	100	100	100	
<i>Stenotrophomonas maltophilia</i> [†]	4	10																	100	100				
<i>Enterobacter cloacae</i>	3	8	0	0			0	100	100			0	0					100		67	100	100	100	
<i>Escherichia coli</i>	3	8	0	67			67	100	100			67	67					33		67	100	100	100	

ALL GRAM-POSITIVE BACTERIA	22	100	14	14	14			86	86	86	73	86	82		75	70				95					
<i>Staphylococcus aureus</i> , all isolates	18	82						89	89	89	89	89			78	72	100			100				100	100
- methicillin-susceptible	16	73						100	100	100	100	100			81	75	100			100				100	100
- methicillin-resistant (MRSA)	2	9						0	0	0	0	0			50	50	100			100				100	100
<i>Mycobacterium tuberculosis</i> complex	1	5																							
<i>Streptococcus anginosus</i> group [°]	1	5			100								100											100	
<i>Streptococcus pneumoniae</i>	1	5			100	100								100	100				100					100	
Viridans group streptococci [*]	1	5			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.
- ICUs include MSICU.

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.
- ^{*} 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.
- [†] S. maltophilia: Susceptibility to moxifloxacin was predicted based on levofloxacin susceptibility testing results.
- [°] S. anginosus group: 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

≥80% Susceptible ■ 70-79% Susceptible ■ ≤69% Susceptible ■																							
	#	%	Ampicillin	Amoxicillin-Clavulanic acid	Piperacillin-Tazobactam	Meropenem	Ertapenem	Cefazolin	Cephalexin	Ceftriaxone	Ceftazidime	Doxycycline	Ciprofloxacin	Trimethoprim-Sulfamethoxazole	Nitrofurantoin	Gentamicin	Tobramycin	Amikacin	Vancomycin	Linezolid			

ALL BACTERIA	29	—	29	58	72	76	55		41	45			69	52	72								
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ALL GRAM-NEGATIVE BACTERIA	22	100	15	54	72	100	73		54	59	72		73	68	77	87	18	82					
<i>Escherichia coli</i>	14	64	17	64	71	100	100		64	71	71		64	79	100	86	0	100					
<i>Pseudomonas aeruginosa</i>	3	14			100	100					100		67			67	100	100					
<i>Citrobacter freundii</i>	2	9	0	0	0	100	100		0	0	0		100	50	100	100	50	50					
<i>Klebsiella oxytoca</i>	1	5	0	100	100	100			100	100	100		100	100	100	100							
<i>Klebsiella pneumoniae</i>	1	5	0	100	100	100			100	100	100		100	100	0	100							
<i>Proteus mirabilis</i>	1	5	100	100	100	100			100	100	100		100	100	0	100							

ALL GRAM-POSITIVE BACTERIA	7	100	71	71	71								43	57		57						100	
<i>Enterococcus faecalis</i>	4	57	100	100	100								25	75		100						100	
<i>Enterococcus faecium</i>	2	29	0	0	0								50	0		0						100	100
<i>Enterococcus species</i>	1	14	100	100	100								100	100		0						100	

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