

Mount Sinai Hospital ANTIBIOGRAM Intensive Care Units January 1, 2023 - December 31, 2023

Blood Isolates – % Susceptible

		≥80% Susceptible ■ 70-79% Susceptible ■ ≤69% 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	
ALL BACTERIA	139	—	13	18	43	44	41		29	31						64							
ALL GRAM-NEGATIVE BACTERIA	33	100	12	30	45	93	76		24	35	52				59	73	93	93	100				
<i>Escherichia coli</i>	9	27	44	67	67	100	100		56	67	67				44	78	78	78	100				
<i>Serratia marcescens</i>	6	18	0	0	0	100	100		0	0	0				100	100	100	100	100				
<i>Enterobacter cloacae</i>	5	15	0	0	0	100	100		0	0	0				80	80	100	100	100				
<i>Pseudomonas aeruginosa</i>	4	12			75	50					75				75			100	100	100			
<i>Stenotrophomonas maltophilia</i> [†]	4	12													0	75							
<i>Klebsiella pneumoniae</i>	3	9	0	100	100	100	100		100	100	100				50		100	100	100	100			
<i>Klebsiella oxytoca</i>	1	3	0	100	100	100	100		0	100	100				100		100	100	100	100			
<i>Morganella morganii</i>	1	3	0	0	0	100	100		0	0	0				0		0	100	100	100			
ALL GRAM-POSITIVE BACTERIA	106	100	14	14	1	43	30	30	29	30	30		59	23			61					97	
Coagulase-negative staphylococci	73	69				33	33	33	33	33					75	25	100					100	100
<i>Enterococcus faecium</i> , all isolates	11	10	31	31		31																82	
- vancomycin-susceptible	9	8	38	38		38																100	
- vancomycin-resistant (VRE)	2	2	0	0		0																0	100
<i>Enterococcus faecalis</i> , all isolates	11	10	91	91		91																100	
<i>Staphylococcus aureus</i> , all isolates	9	8				78	78	78	78	78			89	67	89			100				100	100
- methicillin-susceptible	7	7				100	100	100	100	100			86	86	100			100				100	100
- methicillin-resistant (MRSA)	2	2				0	0	0	0	0			100	0	50			100				100	100
Group B streptococci**	1	1				100							0	0								100	
<i>Enterococcus gallinarum</i>	1	1	0	0		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
- 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:

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

**Mount Sinai Hospital ANTIBIOGRAM
Intensive Care Units
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Respiratory Isolates – % Susceptible

	#	%	Antibiotics																									
			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	
ALL BACTERIA	79	—	4	11				73	79	35		27	40								58							
ALL GRAM-NEGATIVE BACTERIA	53	100	4	15				68	78	13			18						64		41	91	86	91				
<i>Pseudomonas aeruginosa</i>	27	51						81	67										81			74			96	96	100	
<i>Stenotrophomonas maltophilia</i> ¹	9	17																		89	100							
<i>Enterobacter cloacae</i>	4	8	0	0				0	100	100		0	0						0		100	100	100	100				
<i>Escherichia coli</i>	3	6	0	33				33	67	0		0	33						33		33	67	100	100				
<i>Klebsiella oxytoca</i>	3	6	0	100				100	100				100						100		100	100	100	100				
<i>Klebsiella pneumoniae</i>	2	4	0	100				100	100				100						100		100	100						
<i>Proteus mirabilis</i>	2	4	100	100				100	100				100						100		50	50						
<i>Serratia marcescens</i>	2	4	0	0				0	100	100		0	0						0		100	100	100	100				
<i>Morganella morganii</i>	1	2	0	0				0	100	100		0	0						0		100	100	100	100				
ALL GRAM-POSITIVE BACTERIA	26	100	4	4	4			81	81	81	77	81	77						64	45					96		96	
<i>Staphylococcus aureus</i> , all isolates	23	88						87	87	87	87	87							68	46	90				100		100	100
- methicillin-susceptible	20	77						100	100	100	100	100							63	53	89				100		100	100
- methicillin-resistant (MRSA)	3	12						0	0	0	0	0							100	0	100				100		100	100
<i>Streptococcus pneumoniae</i>	2	8						50	50					0	0				50	50					100		100	
<i>Mycobacterium tuberculosis complex</i>	1	4																										

General Notes:

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

Organism-Specific Notes:

- ¹ *S. maltophilia*: Susceptibility to moxifloxacin was predicted based on levofloxacin susceptibility testing results.

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Urine Isolates – % Susceptible

		<div style="display: flex; align-items: center;"> <div style="margin-right: 10px;"> <p>≥80% Susceptible ■</p> <p>70-79% Susceptible ■</p> <p>≤69% Susceptible ■</p> </div> </div>																				
#	%	Ampicillin	Amoxicillin-Clavulanic acid	Piperacillin-Tazobactam	Meropenem	Ertapenem	Cloxacillin	Cefazolin	Cephalexin	Ceftriaxone	Ceftazidime	Doxycycline	Ciprofloxacin	Trimethoprim-Sulfamethoxazole	Nitrofurantoin	Gentamicin	Tobramycin	Amikacin	Vancomycin	Linezolid		
ALL BACTERIA	41	—	29	49	61	66	46		5	5	32		15	59	37	80						
ALL GRAM-NEGATIVE BACTERIA	26	100		31	42	96	65				42	46		58	50	73	96	54	85			
<i>Escherichia coli</i>	14	54	0	43	57	100	100		0		57	57		43	50	100	93	50	100			
<i>Klebsiella pneumoniae</i>	4	15	0	50	50	100			0		75	75		75	75	50	100					
<i>Pseudomonas aeruginosa</i>	4	15			25	75						25		75			100	100	100			
<i>Enterobacter cloacae</i>	1	4	0	0	0	100	100		0	0	0	0		100	100	100	100	100	100			
<i>Morganella morganii</i>	1	4	0	0	0	100	100		0	0	0	0		100	100	0	100	100	100			
<i>Citrobacter freundii</i>	1	4	0	0	0	100	100		0	0	0	0		0	0	100	100	0	100			
<i>Citrobacter braakii</i>	1	4	0	0	0	100	0		0	0	0	0		100	100	100	100	100	100			
ALL GRAM-POSITIVE BACTERIA	15	100	80	80	93	13	13	13	13	13	13		40	60	13	93					93	
<i>Enterococcus faecalis</i> , all isolates	11	73	100	100	100								36	82		100					100	
<i>Staphylococcus aureus</i> , all isolates	2	13			100	100	100	100	100				100		100	100					100	100
<i>Enterococcus faecium</i> , all isolates	2	13	50	50	50								0	0		50					50	100
- vancomycin-susceptible	1	7	0	0	0								0	0		0					100	100
- vancomycin-resistant (VRE)	1	7	100	100	100								0	0		100					0	100

General Notes:

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- Reported susceptibilities for "ALL BACTERIA", "ALL GRAM-NEGATIVE BACTERIA", and "ALL GRAM-POSITIVE BACTERIA" reflect estimates only based on the weighted average of
- Susceptibility to doxycycline was predicted based on tetracycline susceptibility testing results.
- ICUs include MSICU.

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All Specimens – % Susceptible

		<div style="display: flex; align-items: center;"> <div style="margin-right: 10px;"> <p>≥80% Susceptible ■</p> <p>70-79% Susceptible ■</p> <p>≤69% Susceptible ■</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	
ALL BACTERIA	219	—	19	30			67	67	52		30	39									54						
ALL GRAM-NEGATIVE BACTERIA	119	100	10	29			63	88	58		18	35			66				69		55	92	91	100			
<i>Pseudomonas aeruginosa</i>	35	29					86	66							86				83			94	97	100			
<i>Escherichia coli</i>	31	26	33	57			65	97	93		40	63			63				52		57	83	73	100			
<i>Enterobacter cloacae</i>	11	9	0	0			0	100	100		0	0			0				91		91	100	100	100			
<i>Stenotrophomonas maltophilia</i>	11	9																		73	91						
<i>Klebsiella pneumoniae</i>	9	8	0	75			75	100	100		75	88			88				62		88	100	100	100	100		
<i>Serratia marcescens</i>	7	6	0	0			0	100	100		0	0			0				100		100	100	100	100	100		
<i>Klebsiella oxytoca</i>	6	5	0	100			100	100	100		0	100			100				100		100	100	100	100	100		
<i>Proteus mirabilis</i>	4	3	50	100			100	100	100		50	100			100				100		75	75	100	100			
<i>Citrobacter braakii</i>	3	3	0	0			33	100	50		0	0			0				100		100	100	100	100			
<i>Morganella morganii</i>	2	2	0	0			0	100	100		0	0			0				50		50	100	100	100			
ALL GRAM-POSITIVE BACTERIA	100	100	30	30	4		71	44	44	40	44	44			44	32					53					96	
<i>Staphylococcus aureus</i> , all isolates	39	39					90	90	90	90	90				76	64	92				100				100	100	
- methicillin-susceptible	35	35					100	100	100	100	100				76	71	97				100				100	100	
- methicillin-resistant (MRSA)	4	4					0	0	0	0	0				75	0	50				100				100	100	
<i>Enterococcus faecalis</i> , all isolates	22	22	100	100			100																			100	
Coagulase-negative staphylococci	17	17					31	31	31	31	31				67	27	80				60					100	100
<i>Enterococcus faecium</i> , all isolates	14	14	31	31			31																			79	
- vancomycin-susceptible	11	11	30	30			30																			100	
- vancomycin-resistant (VRE)	3	3	33	33			33																			0	100
Group A streptococci**	3	3			100										33	50										100	
Viridans group streptococci*	2	2									50															100	
<i>Streptococcus pneumoniae</i>	2	2			50	50							0	0	50	50				100						100	
<i>Enterococcus gallinarum</i>	1	1	0	0			0																			0	

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

Year-Specific Notes:

- All specimens exclude surveillance samples.

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.

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