

Mount Sinai Hospital ANTIBIOGRAM
All Inpatients
January 1, 2021 - December 31, 2021

Blood Isolates – % Susceptible

		<p> ≥80% Susceptible 70-79% Susceptible ≤69% Susceptible </p>																				
#	%	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	463	—	17	25	45	45	42	29	41								65					
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ALL GRAM-NEGATIVE BACTERIA	136	100	23	53	67	95	83	37	58	66					71	72	92	91	98			
<i>Escherichia coli</i>	69	51	39	75	80	100	99	59	80	80					68	74	90	90	97			
<i>Klebsiella pneumoniae</i>	16	12	0	69	62	100	94	50	75	75					81	81	88	88	100			
<i>Pseudomonas aeruginosa</i>	16	12			88	62					81				75			94	94	100		
<i>Enterobacter cloacae</i>	8	6	0	0	0	100	100	0	0	0					100	100	100	100	100			
<i>Klebsiella oxytoca</i>	5	4	0	80	80	100	100	0	80	80					80	100	100	80	100			
<i>Proteus mirabilis</i>	5	4	100	100	100	100	100	40	100	100					80	100	100	100	100			
<i>Stenotrophomonas maltophilia</i> [†]	5	4													100	100						

ALL GRAM-POSITIVE BACTERIA	327	100	14	14	4	36	26	26	22	26	34	39	23				62				99	
Coagulase-negative staphylococci	190	58				16	16	16	16	16		39	18	82			68				100	100
<i>Staphylococcus aureus</i> , all isolates	49	15				82	82	82	82	82		72	58	94			98				100	100
- methicillin-susceptible	40	12				100	100	100	100	100		75	68	98			100				100	100
- methicillin-resistant (MRSA)	9	3				0	0	0	0	0		56	11	78			89				100	100
<i>Enterococcus faecalis</i>	32	10	100	100	100																100	
Viridans group streptococci*	23	7									100										100	
<i>Enterococcus faecium</i> , all isolates	14	4	7	7	7																93	
- vancomycin-susceptible	13	4	8	8	8																100	
- vancomycin-resistant (VRE)	1	0	0	0	0																0	100
Group B streptococci**	8	2			100							38	38								100	
Group A streptococci**	5	2			100							80	80								100	
<i>Streptococcus anginosus</i> group*°	5	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.

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.

† *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.

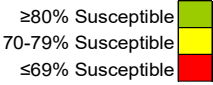
Mount Sinai Hospital ANTIBIOGRAM

All Inpatients

January 1, 2021 - December 31, 2021

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)	Cefazidime	Clindamycin	Erythromycin	Doxycycline	Ciprofloxacin	Moxifloxacin	Trimethoprim-Sulfamethoxazole	Gentamicin	Tobramycin



ALL BACTERIA	134	—	6	13			66	82	51		31	46									71						
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ALL GRAM-NEGATIVE BACTERIA	#	%	Antibiotics																									
<i>Pseudomonas aeruginosa</i>	31	39	8	21			59	88	36		3	26			56						71		53	88	71	86		
<i>Escherichia coli</i>	11	14	14	45			45	100	100		0	55			55						64		64	82	0	100		
<i>Stenotrophomonas maltophilia</i> [†]	10	13																			90	100						
<i>Enterobacter cloacae</i>	8	10	0	0			0	100	88		0	0			0						88		88	88	88	88		
<i>Klebsiella pneumoniae</i>	5	6	0	75			60	100	100		50	80			80						80		100	100	100	100		

ALL GRAM-POSITIVE BACTERIA	#	%	Antibiotics																									
<i>Staphylococcus aureus</i> , all isolates	51	94	2	2	2		75	73	73	71	73	73			78	64						96					96	
- methicillin-susceptible	39	72					100	100	100	100	100				80	68	94					100					100	100
- methicillin-resistant (MRSA)	12	22					0	0	0	0	0				75	33	83					100					100	100
<i>Mycobacterium tuberculosis complex</i>	1	2																										
<i>Staphylococcus lugdunensis</i>	1	2					0	0	0	0	0				0	0	100					100					100	100
<i>Streptococcus anginosus</i> group ^{**}	1	2		100								100															100	100
<i>Streptococcus pneumoniae</i>	1	2			0	100							0	100		100	0					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
- 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.
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- Susceptibility to doxycycline was predicted based on tetracycline susceptibility testing results.

Organism-Specific Notes:

- [†] *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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All Urine Isolates – % Susceptible

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

ALL BACTERIA	629	—	26	64	76	72	61	7	45	48	10	78	53	73							
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ALL GRAM-NEGATIVE BACTERIA	433	100	4	60	71	99	83	4	60	64	73	81	71	66	92	64	94					
<i>Escherichia coli</i>	234	54	3	74	78	100	95	8	76	81	81	73	71	97	89	43	90					
<i>Klebsiella pneumoniae</i>	57	13	0	81	81	100	80	0	81	82	82	89	86	37	96	60	100					
<i>Pseudomonas aeruginosa</i>	39	9			95	95					100	97			90	100	95					
<i>Proteus mirabilis</i>	30	7	33	90	93	100	100	0	93	93	93	87	80	0	97	100	100					
<i>Enterobacter cloacae</i>	17	4	0	0	0	100	94	0	0	0	0	94	100	47	100	100	100					
<i>Klebsiella oxytoca</i>	15	3	0	80	80	93	50	0	47	87	87	93	93	80	100	100	100					
<i>Citrobacter koseri</i>	10	2	0	0	0	100	100	0	0	0	0	100	100	80	100	100	100					
<i>Klebsiella aerogenes</i>	10	2	0	0	0	90	90	0	0	0	0	90	90	10	100	100	100					
<i>Citrobacter freundii</i>	6	1	0	0	0	100	100	0	0	0	0	83	100	100	100	100	100					
<i>Morganella morganii</i>	6	1	0	0	0	100	100	0	0	0	0	83	83	17	100	100	100					

ALL GRAM-POSITIVE BACTERIA	196	100	74	74	2	87	14	14	12	14	14	14	32	69	14	88					97	25	
<i>Enterococcus faecalis</i>	142	72	100	100		100							23	93		100						100	
<i>Staphylococcus aureus</i> , all isolates	26	13				88	88	88	88	88	88		96		100	100						100	100
- methicillin-susceptible	23	12				100	100	100	100	100	100		96		100	100						100	100
- methicillin-resistant (MRSA)	3	2				0	0	0	0	0	0		100		100	100						100	100
<i>Enterococcus faecium</i> , all isolates	19	10	10	10		10							10	5		0						84	94
- vancomycin-resistant (VRE)	16	8	12	12		12							12	6		0						100	93
- vancomycin-resistant (VRE)	3	2	0	0		0							0	0		0						0	100
<i>Staphylococcus lugdunensis</i>	4	2				75	75	75	75	75	75		100		100	100						100	100
Group B streptococci**	3	2				100																100	

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

Organism-Specific Notes:

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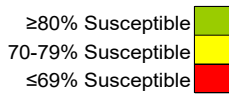
Mount Sinai Hospital ANTIBIOGRAM

All Inpatients

January 1, 2021 - December 31, 2021

All Non-Urine 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



ALL BACTERIA	1027	—	21	30		65	69	61		45	54							68						
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ALL GRAM-NEGATIVE BACTERIA	386	100	20	43		67	97	74		29	50	68				80		67	92	92	97		
<i>Escherichia coli</i>	165	43	39	70		79	100	99		54	80	80				75		76	90	89	97		
<i>Pseudomonas aeruginosa</i>	78	20				88	85					94				87			91	95	95		
<i>Enterobacter cloacae</i>	32	8	0	0		0	100	97		0	0	0				91		88	97	97	97		
<i>Klebsiella pneumoniae</i>	32	8	0	84		84	100	95		65	88	88				91		91	94	90	100		
<i>Stenotrophomonas maltophilia</i> [†]	13	3															92	100					
<i>Proteus mirabilis</i>	12	3	75	100		100	100	100		25	100	100				92		100	100	100	100		
<i>Klebsiella oxytoca</i>	10	3	0	80		80	100	100		0	80	80				90		100	100	83	100		
<i>Citrobacter koseri</i>	9	2	0	0		0	100	100		0	0	0				78		100	89	89	100		
<i>Serratia marcescens</i>	9	2	0	0		0	100	89		0	0	0				89		100	89	89	89		
<i>Citrobacter freundii</i>	8	2	0	0		0	88	88		0	0	0				88		88	88	88	100		
<i>Klebsiella aerogenes</i>	7	2	0	0		0	100	100		0	0	0				86		100	100	100	100		
<i>Morganella morganii</i>	6	2	0	0		0	100	100		0	0	0				83		100	100	100	100		
<i>Haemophilus influenzae</i> ^{^^}	5	1	80																				

ALL GRAM-POSITIVE BACTERIA	641	100	22	22	12	64	54	54	42	54	56		53	40				69					96	
Coagulase-negative staphylococci	266	41				46	46	46	46	46				58	37	88		75					100	100
<i>Staphylococcus aureus</i> , all isolates	190	30				83	83	83	83	83				76	67	94		100					100	100
- methicillin-susceptible	158	25				100	100	100	100	100				78	74	96		100					100	100
- methicillin-resistant (MRSA)	32	5				0	0	0	0	0				66	34	84		100					100	100
<i>Enterococcus faecalis</i>	68	11	100	100		100																	100	
<i>Streptococcus anginosus</i> group ^{°°}	46	7			93						98												100	
Viridans group streptococci [°]	34	5			53						100												100	
<i>Staphylococcus lugdunensis</i>	24	4				75	75	75	75	75				88	83	96		100					100	100
<i>Enterococcus faecium</i>	19	3	11	11		11																	100	
Group B streptococci ^{**}	17	3			100									47	40								100	

General Notes:

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

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.
- ^{**} 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.
- ^{°°} 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.

