

Mount Sinai Hospital ANTIBIOGRAM

All Inpatients

January 1, 2017 - December 31, 2017

Blood 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
			15	29	53	59		56	41																	
ALL BACTERIA	474	—	15	29	53	59	56	41	51											79						
ALL GRAM-NEGATIVE BACTERIA	163	100	20	60	70	99	89	46	67	72									78	85	93	94	100			
<i>Escherichia coli</i>	90	55	29	72	80	100	100	60	83	83									69	92	93	92	100			
<i>Klebsiella pneumoniae</i>	24	15	0	88	83	100	100	83	88	88									88	96	92	96	100			
<i>Pseudomonas aeruginosa</i>	12	7			67	92									75				83			83	92	100		
<i>Enterobacter cloacae</i>	11	7	0	0	0	91	91	0	0	0									100	100	100	100	100			
<i>Klebsiella oxytoca</i>	7	4	0	86	86	100	100	14	86	86									100	100	100	100	100			
<i>Enterobacter aerogenes</i>	7	4	0	0	0	100	100	0	0	0									100	100	100	100	100			
ALL GRAM-POSITIVE BACTERIA	311	100	13	13	6	45	38	38	32	38	42			51	28					75				67		
Coagulase-negative staphylococci	183	59				22	22	22	22	22				52	17	83				83				83	100	
<i>Staphylococcus aureus</i> , all isolates	68	22				86	86	86	86	86				73	65	97				84				84	100	
- methicillin-susceptible	60	19				98	98	98	98	98				73	70	100				87				87	100	
- methicillin-resistant (MRSA)	8	3				0	0	0	0	0				75	25	75				62				62	100	
<i>Enterococcus faecalis</i> , all isolates	19	6	100	100	100																					
- vancomycin-susceptible	19	6	100	100	100																					
- vancomycin-resistant (VRE)	0	0																								
Group B streptococci**	16	5			100									25	38											
Viridans group streptococci*	14	5											93											100		
<i>Enterococcus faecium</i> , all isolates	7	2	14	14	14																			0		
- vancomycin-susceptible	7	2	14	14	14																					
- vancomycin-resistant (VRE)	0	0																								
- 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.

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 tetracycline. If you have any questions, please contact the IHN/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.

Mount Sinai Hospital ANTIBIOGRAM
All Inpatients
January 1, 2017 - December 31, 2017

Respiratory 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	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	133	—	12	26			76	88	53			64									72					
ALL GRAM-NEGATIVE BACTERIA	82	100	12	34			73	94	37			48			68					76	57	95	98	96		
<i>Pseudomonas aeruginosa</i>	27	33					78	85							81					81		89	96	92		
<i>Haemophilus influenzae</i> ^{^^}	12	15	67																							
<i>Stenotrophomonas maltophilia</i> [†]	11	13																		100	100					
<i>Escherichia coli</i>	8	10	12	75			75	100	100			100			100					100	75	100	100	100	100	
<i>Klebsiella pneumoniae</i>	7	9	0	86			86	100	100			86			86					100	100	100	100	100	100	
<i>Serratia marcescens</i>	5	6	0	0			0	100	100			0			0					100	100	100	100	100	100	
ALL GRAM-POSITIVE BACTERIA	51	100	12	12	12		80	80	80	69	80	86				84	72				95				96	
<i>Staphylococcus aureus</i> , all isolates	40	78					88	88	88	88	88					85	75	95			100				100	100
- methicillin-susceptible	35	69					100	100	100	100	100					86	80	97			100				100	100
- methicillin-resistant (MRSA)	5	10					0	0	0	0	0					80	40	80			100				100	100
<i>Streptococcus pneumoniae</i>	7	14				71	71						100	100		100	71			100					100	
<i>Mycobacterium tuberculosis</i> complex	2	4																								
Group A streptococci ^{**}	1	2		100												100	100								100	
Viridans group streptococci [*]	1	2										100													100	

General Notes:

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- 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:

- Susceptibility for ceftazidime are not available for Gram-negative isolates from non-sterile site specimens for the current year.

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.

Mount Sinai Hospital ANTIBIOGRAM

All Inpatients

January 1, 2017 - December 31, 2017

All Urine Isolates – % Susceptible

	#	%	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	722	–	40	68		81	72	66			41	51		10	79	53	77						
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ALL GRAM-NEGATIVE BACTERIA	#	%	Ampicillin	Amoxicillin-Clavulanic acid	Penicillin	Piperacillin-Tazobactam	Meropenem	Ertapenem	Cloxacillin	Cefazolin	Cephalexin	Ceftriaxone	Ceftazidime	Doxycycline	Ciprofloxacin	Trimethoprim-Sulfamethoxazole	Nitrofurantoin	Gentamicin	Tobramycin	Amikacin	Vancomycin	Linezolid
<i>Escherichia coli</i>	286	58	24	70		80	100	100			60	83	83		70	73	98	90	88	100		
<i>Klebsiella pneumoniae</i>	70	14	0	87		86	100	100			84	89	89		87	87	33	96	93	100		
<i>Pseudomonas aeruginosa</i>	43	9				86	93						91		88			98	98	100		
<i>Proteus mirabilis</i>	29	6	76	90		93	100	100			90	93	93		90	86	3	93	97	100		
<i>Enterobacter cloacae</i>	18	4	0	0		0	100	89			0	0	0		100	89	39	100	100	100		
<i>Klebsiella oxytoca</i>	13	3	0	77		77	100	100			69	85	85		100	100	92	100	100	100		
<i>Citrobacter koseri</i>	9	2	0	0		0	100	100			0	0	0		100	100	100	100	100	100		
<i>Morganella morganii</i>	6	1	0	0		0	100	100			0	0	0		100	83	0	83	83	100		
<i>Enterobacter aerogenes</i>	5	1	0	0		0	100	100			0	0	0		100	100	60	100	100	100		

ALL GRAM-POSITIVE BACTERIA	#	%	Ampicillin	Amoxicillin-Clavulanic acid	Penicillin	Piperacillin-Tazobactam	Meropenem	Ertapenem	Cloxacillin	Cefazolin	Cephalexin	Ceftriaxone	Ceftazidime	Doxycycline	Ciprofloxacin	Trimethoprim-Sulfamethoxazole	Nitrofurantoin	Gentamicin	Tobramycin	Amikacin	Vancomycin	Linezolid	
<i>Enterococcus faecalis</i> , all isolates	180	77	100	100		100								25	94		100					99	100
- vancomycin-susceptible	180	77	100	100		100								25	94		100					99	100
- vancomycin-resistant (VRE)	0	0																					
<i>Staphylococcus aureus</i> , all isolates	19	8				95	95	95	95	95	95			84		100	100					100	100
- methicillin-susceptible	18	8				100	100	100	100	100	100			83		100	100					100	100
- methicillin-resistant (MRSA)	1	0				0	0	0	0	0	0			100		100	100					100	100
<i>Enterococcus faecium</i> , all isolates	13	6	16	16		16								39	23		23					92	100
- vancomycin-susceptible	12	5	17	17		17								42	25		25					100	100
- vancomycin-resistant (VRE)	1	0	0	0		0								0	0		0					0	100
- vancomycin-susceptible (vanA+)	0	0																					
Group B streptococci**	10	4			100																	100	
Coagulase-negative staphylococci	4	2				50	50	50	50	50				100		75	100					100	100
<i>Enterococcus</i> species	4	2	100	100		100								25	100		100					100	

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

Year-Specific Notes:

- Susceptibility for ceftazolin are not available for Gram-negative isolates from non-sterile site specimens for the current year.

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.

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All Non-Urine Isolates – % Susceptible

	#	%	Antibiotics																										
			Ampicillin	Amoxicillin-Clavulanic acid	Penicillin	Penicillin IV (meningitis)	Penicillin IV (non-meningitis)	Piperacillin-Tazobactam	Meropenem	Ertapenem	Clavacillin	Cefazolin	Ceftriaxone	Ceftriaxone (meningitis)	Ceftriaxone (non-meningitis)	Cefazidime	Clindamycin	Erythromycin	Doxycycline	Ciprofloxacin	Moxifloxacin	Trimethoprim-Sulfamethoxazole	Gentamicin	Tobramycin	Amikacin	Vancomycin	Linezolid		
≥80% Susceptible ■ 70-79% Susceptible ■ ≤69% Susceptible ■																													
ALL BACTERIA	1177	—	19	32				66	71	61			55									71							
ALL GRAM-NEGATIVE BACTERIA	489	100	18	49				69	98	73			56			70				84		69	94	94	99				
<i>Escherichia coli</i>	189	39	32	76				82	100	99			86			86				77		76	91	91	100				
<i>Pseudomonas aeruginosa</i>	89	18						79	93							89				85			93	98	97				
<i>Klebsiella pneumoniae</i>	54	11	0	81				83	100	100			85			85				93		87	93	93	100				
<i>Enterobacter cloacae</i>	26	5	0	0				0	96	92			0			0				100		92	100	100	100				
<i>Serratia marcescens</i>	26	5	0	0				0	96	100			0			0				100		100	100	96	100				
<i>Haemophilus influenzae</i> ^{^^}	19	4	74																										
<i>Proteus mirabilis</i>	19	4	79	89				95	100	100			95			95				100		95	89	89	100				
<i>Klebsiella oxytoca</i>	17	3	0	82				82	100	100			88			88				100		100	100	100	100				
<i>Enterobacter aerogenes</i>	17	3	0	0				0	100	100			0			0				100		100	100	100	100				
<i>Stenotrophomonas maltophilia</i> [†]	13	3																		100		100							
<i>Morganella morganii</i>	5	1	0	0				0	100	100			0			0				80		80	100	100	100				
<i>Citrobacter freundii</i>	5	1	0	0				0	100	100			0			0				80		100	100	100	100				
<i>Citrobacter koseri</i>	5	1	0	0				0	100	100			0			0				100		100	100	100	100				
ALL GRAM-POSITIVE BACTERIA	688	100	20	20	10			64	53	53	43	53	55			56	42				72				99				
Coagulase-negative staphylococci	259	38						34	34	34	34	34				57	33	86			72				100	100			
<i>Staphylococcus aureus</i> , all isolates	250	36						83	83	83	83	83				78	66	96			100				100	100			
- methicillin-susceptible	210	31						99	99	99	99	99				79	73	98			100				100	100			
- methicillin-resistant (MRSA)	40	6						0	0	0	0	0				74	28	87			97				100	100			
<i>Enterococcus faecalis</i> , all isolates	69	10	100	100				100																	100				
- vancomycin-susceptible	69	10	100	100				100																	100				
- vancomycin-resistant (VRE)	0	0																											
Group B streptococci ^{**}	40	6			100											35	40								100				
<i>Enterococcus faecium</i> , all isolates	26	4	11	11				11																	81				
- vancomycin-susceptible	21	3	14	14				14																	100				
- vancomycin-resistant (VRE)	5	1	0	0				0																	0	100			
- vancomycin-susceptible (vanA ⁺)	0	0																											
Viridans group streptococci [†]	24	3			46								96													100			
<i>Streptococcus pneumoniae</i>	9	1						50	100					100	100					100	78				100				
Group A streptococci ^{**}	7	1			100											86	86								100				

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

Year-Specific Notes:

- Susceptibility for cefazolin are not available for Gram-negative isolates from non-sterile site specimens for the current year.

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.