

Mount Sinai Hospital ANTIBIOGRAM

All Inpatients

January 1, 2019 - December 31, 2019

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	424	—	12	26	47	52	50		38	49							67						
ALL GRAM-NEGATIVE BACTERIA	138	100	19	62	73	98	89		54	71	73				79		73	93	93	99			
<i>Escherichia coli</i>	78	57	27	73	77	100	99		58	82	82				79		72	95	94	99			
<i>Klebsiella pneumoniae</i>	28	20	0	82	82	100	100		79	82	82				82		71	86	89	100			
<i>Pseudomonas aeruginosa</i>	7	5			100	71					100				71			86	86	100			
<i>Stenotrophomonas maltophilia</i>	5	4														80	100						
<i>Proteus mirabilis</i>	5	4	100	80	100	100	100		100	100	100				100		100	100	100	100			
ALL GRAM-POSITIVE BACTERIA	286	100	8	8	4	35	31	31	26	31	39						63					98	
Coagulase-negative staphylococci	160	56				14	14	14	14	14					43	43	100					100	100
<i>Staphylococcus aureus</i> , all isolates	65	23				82	82	82	82	82					83	72	98					100	100
- methicillin-susceptible	53	19				100	100	100	100	100					87	83	98					100	100
- methicillin-resistant (MRSA)	12	4				0	0	0	0	0					67	25	100					100	100
Viridans group streptococci*	24	8									92											100	
<i>Enterococcus faecium</i> , all isolates	12	4	8	8	8																	42	
- vancomycin-susceptible	5	2	20	20	20																	100	
- vancomycin-resistant (VRE)	7	2	0	0	0																	0	100
<i>Enterococcus faecalis</i>	11	4	100	100	100																	100	
Group B streptococci**	7	2			100								71	71								100	
Group A streptococci**	5	2			100								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.

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.

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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	Ceftriaxone (meningitis)	Ceftriaxone (non-meningitis)	Ceftazidime	Clindamycin	Erythromycin	Doxycycline	Ciprofloxacin	Moxifloxacin	Trimethoprim-Sulfamethoxazole	Gentamicin	Tobramycin	Amikacin	Vancomycin	Linezolid	
ALL BACTERIA	141	—	8	19			75	87	59		42	61									71						
ALL GRAM-NEGATIVE BACTERIA	81	100	10	31			69	94	44		16	43			62					77		55	92	90	98		
<i>Pseudomonas aeruginosa</i>	26	32					81	85							77					92		92	96	96			
<i>Klebsiella pneumoniae</i>	11	14	0	91			91	100	100		75	91			91					91		91	91	88	100		
<i>Stenotrophomonas maltophilia</i> [†]	11	14																		73	100						
<i>Escherichia coli</i>	9	11	12	44			56	100	100		50	89			89					78		44	89	71	100		
<i>Haemophilus influenzae</i> ^{^^}	7	9	71																								
<i>Enterobacter cloacae</i>	5	6	0	0			0	100	100		0	0			0					80		80	80	80	100		
<i>Serratia marcescens</i>	5	6	0	0			0	100	100		0	0			0					100		100	100	100	100		
ALL GRAM-POSITIVE BACTERIA	60	100	4	4	4		82	78	78	73	78	82				75	73					93				93	
<i>Staphylococcus aureus</i> , all isolates	51	85					86	86	86	86	86					79	79	98				100				100	100
- methicillin-susceptible	44	73					100	100	100	100	100					82	82	100				100				100	100
- methicillin-resistant (MRSA)	7	12					0	0	0	0	0					57	57	86				100				100	100
<i>Enterococcus faecium</i> , vancomycin-resistant (VRE)	3	5	0	0			0																			0	67
<i>Streptococcus pneumoniae</i>	5	8				50	100						100	100		100	80			80						100	
<i>Mycobacterium tuberculosis complex</i>	1	2																									

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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.

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

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All Urine Isolates – % Susceptible

	#	%	Antibiotics																			
			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	725	—	39	65		77	72	67		6	48	51		13	76	52	74					
ALL GRAM-NEGATIVE BACTERIA	491	100	21	59		71	99	91		1	64	67	74		80	69	67	92	89	100		
<i>Escherichia coli</i>	298	61	26	65		73	100	99		0	73	77	77		72	68	94	90	87	100		
<i>Klebsiella pneumoniae</i>	72	15	0	88		86	100	98		10	87	88	88		94	82	26	94	86	100		
<i>Pseudomonas aeruginosa</i>	35	7				94	91						91		86			91	100	100		
<i>Proteus mirabilis</i>	25	5	93	100		100	100	100			96	100	100		92	92	0	96	93	100		
<i>Enterobacter cloacae</i>	16	3	0	0		0	100	88		0	0	0	0		88	81	25	100	94	100		
<i>Klebsiella oxytoca</i>	11	2	0	91		100	100	100			73	100	100		91	100	91	100	100	100		
<i>Morganella morganii</i>	8	2	0	0		0	100	100		0	0	0	0		75	88	0	100	100	100		
<i>Citrobacter freundii</i>	7	1	0	0		0	100	100		0	0	0	0		100	100	100	100	100	100		
<i>Citrobacter koseri</i>	7	1	0	0		0	100	100		0	0	0	0		100	100	71	100	100	100		
ALL GRAM-POSITIVE BACTERIA	234	100	77	77	3	90	15	15	13	15	15	15		41	67	15	89				98	100
<i>Enterococcus faecalis</i>	169	72	100	100		100								30	88		98				100	100
<i>Staphylococcus aureus</i> , all isolates	34	15				85	85	85	85	85	85			94		97	100				100	100
- methicillin-susceptible	29	12				100	100	100	100	100	100			93		97	100				100	100
- methicillin-resistant (MRSA)	5	2				0	0	0	0	0	0			100		100	100				100	100
<i>Enterococcus faecium</i> , all isolates	23	10	17	17		17								39	17		9				83	100
- vancomycin-susceptible	19	8	21	21		21								37	21		11				100	100
- vancomycin-resistant (VRE)	4	2	0	0		0								50	0		0				0	100
Group B streptococci**	6	3				100															100	
Coagulase-negative staphylococci	1	0				100	100	100	100	100				100		100	100				100	100
<i>Enterococcus gallinarum</i>	1	0	100	100		100								100	100		0				100	

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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	Cloxacillin	Cefazolin	Ceftriaxone	Ceftriaxone (meningitis)	Ceftriaxone (non-meningitis)	Cefazidime	Clindamycin	Erythromycin	Doxycycline	Ciprofloxacin	Moxifloxacin	Trimethoprim-Sulfamethoxazole	Gentamicin	Tobramycin	Amikacin	Vancomycin	Linezolid
ALL BACTERIA	1192	—	16	28			66	70	61		46	43	58								70						
ALL GRAM-NEGATIVE BACTERIA	462	100	18	49			72	98	72		34	47	55		71				82		63	93	93	99			
<i>Escherichia coli</i>	197	43	31	75			80	100	99		57	79	84		84				79		75	94	93	99			
<i>Pseudomonas aeruginosa</i>	93	20					89	92							89				92								
<i>Klebsiella pneumoniae</i>	59	13	0	76			76	98	100		62	76	76		76				80		73	85	81	100			
<i>Enterobacter cloacae</i>	27	6	0	0			0	96	89		0	0	0		0				93		85	93	93	100			
<i>Stenotrophomonas maltophilia</i> [*]	16	3																	81		100						
<i>Proteus mirabilis</i>	16	3	89	93			100	100	100		33	94	100		100				100		94	94	100	100			
<i>Serratia marcescens</i>	14	3	0	0			0	100	100		0	0	0		0				100		100	100	100	100			
<i>Haemophilus influenzae</i> ^{^^}	11	2	64																								
<i>Morganella morganii</i>	11	2	0	0			0	100	100		0	0	0		0				91		73	82	91	100			
<i>Klebsiella oxytoca</i>	8	2	0	62			62	100	100		17	38	62		62				88		100	88	86	100			
<i>Citrobacter koseri</i>	7	2	0	0			0	100	100		0	0	0		0				100		100	100	100	100			
ALL GRAM-POSITIVE BACTERIA	730	100	16	16	7		62	53	53	47	53	40	59		58	47					75					97	
<i>Staphylococcus aureus</i> , all isolates	283	39					87	87	87	87	87	87			79	70	97				98				100	100	
- methicillin-susceptible	245	34					100	100	100	100	100	100			81	76	98				98				100	100	
- methicillin-resistant (MRSA)	38	5					0	0	0	0	0	0			66	29	92				100				100	100	
Coagulase-negative staphylococci	252	35					38	38	38	38	38				54	36	88				79				100	100	
<i>Enterococcus faecium</i> , all isolates	39	5	13	13			13																		51		
- vancomycin-susceptible	20	3	25	25			25																		100		
- vancomycin-resistant (VRE)	19	3	0	0			0																		0	100	
<i>Enterococcus faecalis</i>	61	8	98	98			98																		100		
Viridans group streptococci [*]	46	6												93											100		
Group B streptococci ^{**}	32	4			100										66	62									100		
Group A streptococci ^{**}	9	1			100										89	78									100		
<i>Streptococcus pneumoniae</i>	8	1				100	100							100	100			100	62		88				100		

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