

Mount Sinai Hospital ANTIBIOGRAM

Wards other than ICUs/Emergency

January 1, 2019 - December 31, 2019

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	
#	%																						
ALL BACTERIA	330	—	13	30	51	57	54		42	54						69							
ALL GRAM-NEGATIVE BACTERIA	117	100	19	66	75	100	91		56	73	75				83	73	94	94	99				
<i>Escherichia coli</i>	70	60	25	76	79	100	100		60	83	83				81	71	94	93	99				
<i>Klebsiella pneumoniae</i>	21	18	0	86	86	100	100		81	86	86				81	71	90	90	100				
<i>Pseudomonas aeruginosa</i>	5	4			100	100					100				100			100	100	100			
<i>Proteus mirabilis</i>	5	4	100	80	100	100	100		100	100	100				100		100	100	100	100			
<i>Enterobacter cloacae</i>	3	3	0	0	0	100	67		0	0	0				100		100	100	100	100			
<i>Stenotrophomonas maltophilia</i> [†]	3	3														100	100						
ALL GRAM-POSITIVE BACTERIA	213	100	10	10	6	38	34	34	28	34	44		54	51			67					100	
Coagulase-negative staphylococci	112	53				14	14	14	14	14			43	43	100		57					100	100
<i>Staphylococcus aureus</i> , all isolates	57	27				79	79	79	79	79			80	68	98		100					100	100
- methicillin-susceptible	45	21				100	100	100	100	100			84	80	98		100					100	100
- methicillin-resistant (MRSA)	12	6				0	0	0	0	0			67	25	100		100					100	100
Viridans group streptococci [°]	19	9									100											100	
<i>Enterococcus faecalis</i>	9	4	100	100		100																100	
Group B streptococci**	7	3				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	66	–	11	23			80	89	56		38	62										67						
ALL GRAM-NEGATIVE BACTERIA	40	100	18	38			77	97	43		13	46			75					91		47	94	90	94			
<i>Pseudomonas aeruginosa</i>	15	38					87	93							80					93			93	100	93			
<i>Escherichia coli</i>	6	15	17	50			67	100	100		0	83			83					83		50	83	60	100			
<i>Klebsiella pneumoniae</i>	5	13	0	100			100	100	100		100	100			100					100		100	100	100	100			
<i>Haemophilus influenzae</i> ^{^^}	5	13	100																									
<i>Serratia marcescens</i>	3	8	0	0			0	100	100		0	0			0					100		100	100	100	100			
ALL GRAM-POSITIVE BACTERIA	26	100					85	77	77	77	77	85				81	77					96					96	
<i>Staphylococcus aureus</i> , all isolates	23	88					87	87	87	87	87					83	83	100				100					100	100
- methicillin-susceptible	20	77					100	100	100	100	100					85	85	100				100					100	100
- methicillin-resistant (MRSA)	3	12					0	0	0	0	0					67	67	100				100					100	100
<i>Streptococcus pneumoniae</i>	2	8			0	100							100	100		100	50			100							100	
<i>Mycobacterium tuberculosis complex</i>	1	4																										

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.

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Skin, Wound and Abscess 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	222	—	9	17			71	79	65			45	53							73						
ALL GRAM-NEGATIVE BACTERIA	87	100	5	25			65	100	63			14	32	68					88	52	92	95	100			
<i>Pseudomonas aeruginosa</i>	32	37					94	100						97					100		94	100	100			
<i>Escherichia coli</i>	29	33	11	55			72	100	100			41	76	76					72	79	93	92	100			
<i>Enterobacter cloacae</i>	9	10	0	0			0	100	100			0	0	0					100	89	100	100	100			
<i>Klebsiella pneumoniae</i>	6	7	0	50			50	100	100			0	50	50					67	83	83	60	100			
<i>Morganella morganii</i>	5	6	0	0			0	100	100			0	0	0					100	80	80	100	100			
ALL GRAM-POSITIVE BACTERIA	135	100	11	11	3	74	66	66	63	66	67				66	54				87				99		
<i>Staphylococcus aureus</i> , all isolates	89	66					82	82	82	82					77	65	93			99				100	100	
- methicillin-susceptible	73	54					100	100	100	100	100				82	74	96			99				100	100	
- methicillin-resistant (MRSA)	16	12					0	0	0	0	0				56	25	81			100				100	100	
Coagulase-negative staphylococci	26	19					46	46	46	46	46				62	46	88			92				100	100	
<i>Enterococcus faecalis</i>	11	8	100	100			100																	100		
<i>Enterococcus faecium</i> , all isolates	3	2	0	0			0																	67		
- vancomycin-susceptible	2	1	0	0			0																	100		
- vancomycin-resistant (VRE)	1	1	0	0			0																	0	100	
Viridans group streptococci ^o	2	1											50												100	
Group B streptococci**	2	1					100								50	50									100	
Group A streptococci**	2	1					100								100	50									100	

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

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.
- ^o 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.

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Urine Isolates – % Susceptible

		<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: left;"> <p>≥80% Susceptible ■</p> <p>70-79% Susceptible ■</p> <p>≤69% Susceptible ■</p> </div> <div style="text-align: right;"> <p>#</p> <p>%</p> </div> </div>														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		704	—	39	66	78	72	67	6	48	51	13	77	53	74																				
ALL GRAM-NEGATIVE BACTERIA		480	100	21	60	72	99	91	1	64	68	74	80	70	67	92	89	100																	
<i>Escherichia coli</i>		290	60	26	66	74	100	99	0	74	78	78	73	69	95	90	86	100																	
<i>Klebsiella pneumoniae</i>		71	15	0	87	86	100	98	10	87	87	87	94	83	27	96	86	100																	
<i>Pseudomonas aeruginosa</i>		34	7			94	91				91		85			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		224	100	79	79	3	91	15	15	13	15	15	15	40	69	15	90				99	100													
<i>Enterococcus faecalis</i>		165	74	100	100		100						29	88		98					100	100													
<i>Staphylococcus aureus</i> , all isolates		32	14			84	84	84	84	84	84		94		97	100					100	100													
- methicillin-susceptible		27	12			100	100	100	100	100	100		93		96	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		19	8	21	21	21							37	21		10					84	100													
- vancomycin-susceptible		16	7	25	25	25							38	25		12					100	100													
- vancomycin-resistant (VRE)		3	1	0	0	0							33	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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