

Mount Sinai Hospital ANTIBIOGRAM
Emergency Department
January 1, 2019 - December 31, 2019

Blood 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	Vancocycin	Linezolid
ALL BACTERIA	146	—	22	44			65	76	71		49	74									83					
ALL GRAM-NEGATIVE BACTERIA	79	100	29	69			78	100	91		51	80			82				80		76	95	93	98		
<i>Escherichia coli</i>	51	65	38	76			86	100	100		69	92			92				78		76	96	94	100		
<i>Klebsiella pneumoniae</i>	7	9	0	71			71	100	100		71	71			71				86		71	86	86	100		
<i>Proteus mirabilis</i>	5	6	50	100			100	100	100		0	100			100				60		100	100	100	75		
<i>Enterobacter cloacae</i>	4	5	0	0			0	100	75		0	0			0				100		50	75	75	100		
<i>Haemophilus influenzae</i> ^{^^}	3	4	0																							
ALL GRAM-POSITIVE BACTERIA	67	100	13	13	12		49	47	47	35	47	68				56	51				95				99	
<i>Staphylococcus aureus</i> , all isolates	30	45					70	70	70	70	70					73	60	97			100				100	100
- methicillin-susceptible	21	31					100	100	100	100	100					76	71	95			100				100	100
- methicillin-resistant (MRSA)	9	13					0	0	0	0	0					67	33	100			100				100	100
Coagulase-negative staphylococci	11	16					25	25	25	25	25					50	0	100			100				100	100
<i>Streptococcus pneumoniae</i>	9	13												89	100				78		100				100	
Viridans group streptococci ^o	7	10										86													100	
Group A streptococci ^{**}	6	9			100											83	83								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:

- ^{^^} *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.
- ^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.

Mount Sinai Hospital ANTIBIOGRAM
Emergency Department
January 1, 2019 - December 31, 2019

Respiratory Isolates – % Susceptible

	#	%	Antibiotics																						
			Ampicillin	Amoxicillin-Clavulanic acid	Penicillin	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	2	—	50	50		100	100	50	50	100									###						
ALL GRAM-NEGATIVE BACTERIA	1	100	100	100		100	100			100		100						####	###	###	###	###			
<i>Haemophilus influenzae</i> ^{^^}	1	100	100																						
ALL GRAM-POSITIVE BACTERIA	1	100				100	100	100	100	100				100	100				100					100	
<i>Staphylococcus aureus</i>	1	100				100	100	100	100	100				100	100	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:

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.

Mount Sinai Hospital ANTIBIOGRAM
Emergency Department
January 1, 2019 - December 31, 2019

Skin, Wound and Abscess Isolates – % Susceptible

	#	%	Antibiotics																						
			Ampicillin	Amoxicillin-Clavulanic acid	Penicillin	Penicillin IV (meningitis)	Penicillin IV (non-meningitis)	Piperacillin-Tazobactam	Meropenem	Ertapenem	Cloxacillin	Cefazolin	Ceftriaxone	Ceftazidime	Clindamycin	Erythromycin	Doxycycline	Ciprofloxacin	Moxifloxacin	Trimethoprim-Sulfamethoxazole	Gentamicin	Tobramycin	Amikacin	Vancomycin	Linezolid
ALL BACTERIA	294	—	8	13			82	85	78		65	72							87						
ALL GRAM-NEGATIVE BACTERIA	64	100	17	41			76	100	67		9	44	75				91		58	94	98	98			
<i>Pseudomonas aeruginosa</i>	21	33					100	100					95				95			86	95	95			
<i>Escherichia coli</i>	17	27	36	82			88	100	100		33	88	88				71		76	94	100	100			
<i>Proteus mirabilis</i>	6	9	75	83			83	100	100		0	83	83				100		83	100	100	100			
<i>Klebsiella pneumoniae</i>	4	6	0	100			100	100	100			100	100				100		75	100	100	100			
<i>Enterobacter cloacae</i>	4	6	0	0			0	100	100		0	0	0				100		100	100	100	100			
ALL GRAM-POSITIVE BACTERIA	230	100	5	5	2		84	81	81	79	81	80		77	62				95					100	
<i>Staphylococcus aureus</i> , all isolates	214	93					84	84	84	84	84			80	66	94			99					100	100
- methicillin-susceptible	179	78					100	100	100	100	100			82	75	96			99					100	100
- methicillin-resistant (MRSA)	35	15					0	0	0	0	0			71	17	86			97					100	100
<i>Enterococcus faecalis</i>	6	3	100	100			100																	100	
<i>Enterococcus faecium</i>	1	0	100	100			100																	100	
Coagulase-negative staphylococci	3	1					67	67	67	67	67			67	0	100			100					100	100
<i>Streptococcus pneumoniae</i>	3	1					100	100						67	0				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.

Mount Sinai Hospital ANTIBIOGRAM Emergency Department January 1, 2019 - December 31, 2019

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	Penicillin	Piperacillin-Tazobactam	Meropenem	Ertapenem	Cloxacillin	Cefazolin	Cephalexin	Ceftriaxone	Ceftazidime	Doxycycline	Ciprofloxacin	Trimethoprim-Sulfamethoxazole	Nitrofurantoin	Gentamicin	Tobramycin	Amikacin	Vancomycin	Linezolid	
ALL BACTERIA	729	—	34	68		82	87	83		7	66	70		6	80	65	81					
ALL GRAM-NEGATIVE BACTERIA	604	100	27	69		80	100	96		4	75	79	83		82	73	78	94	91	99		
<i>Escherichia coli</i>	445	74	32	73		83	100	100		3	82	86	86		78	73	97	92	89	100		
<i>Klebsiella pneumoniae</i>	65	11	0	88		88	100	100		17	89	92	92		92	85	25	98	94	94		
<i>Proteus mirabilis</i>	25	4	92	100		100	100	100			92	100	100		84	80	0	100	100	100		
<i>Pseudomonas aeruginosa</i>	23	4				96	100						100		96			91	91	100		
<i>Citrobacter koseri</i>	14	2	0	0		0	100	100		0	0	0	0		93	100	79	100	100	100		
<i>Enterobacter cloacae</i>	9	1	0	0		0	100	88		0	0	0	0		100	78	22	100	100	100		
<i>Klebsiella oxytoca</i>	9	1	0	100		100	100	100			78	100	100		100	100	100	100	100	100		
<i>Morganella morganii</i>	6	1	0	0		0	100	100		0	0	0	0		100	100	0	100	100	100		
ALL GRAM-POSITIVE BACTERIA	125	100	66	66		90	24	24	24	23	24			41	69	19	93				99	34
<i>Enterococcus faecalis</i>	82	66	100	100		100								27	88		98				100	
<i>Staphylococcus aureus</i> , all isolates	20	16				75	75	75	75	75	75			90		100	100				100	100
- methicillin-susceptible	15	12				100	100	100	100	100	100			87		100	100				100	100
- methicillin-resistant (MRSA)	5	4				0	0	0	0	0	0			100		100	100				100	100
<i>Staphylococcus saprophyticus</i>	17	14																				
<i>Enterococcus faecium</i> , all isolates	5	4	20	20		20								60	20		20				80	100
- vancomycin-susceptible	4	3	25	25		25								50	25		25				100	100
- vancomycin-resistant (VRE)	1	1	0	0		0								100	0		0				0	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.

Organism-Specific Notes:

" *S. saprophyticus* : Susceptibility testing is not routinely performed. Most urinary tract infections due to this organism respond to nitrofurantoin, trimethoprim/sulfamethoxazole or fluoroquinolones.