

Mount Sinai Hospital ANTIBIOGRAM Emergency Department January 1, 2020 - December 31, 2020

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	210	—	16	40	86	88	87	77	88									86							
ALL GRAM-NEGATIVE BACTERIA	72	100	6	77	82	100	97	68	84	86								84	82	98	98	98			
<i>Escherichia coli</i>	57	79	8	82	84	100	100	72	88	88								81	84	98	98	98			
<i>Klebsiella pneumoniae</i>	11	15	0	82	82	100	100	73	91	91								100	82	100	100	100	100		
<i>Morganella morganii</i>	2	3	0	0	0	100	100	0	0	0								100	100	100	100	100			
<i>Pseudomonas aeruginosa</i>	2	3			100	100								100				50		100	100	100			
ALL GRAM-POSITIVE BACTERIA	138	100	20	20	14	88	82	82	68	82	90				85	85			88					42	
Coagulase-negative staphylococci	79	57				100	100	100	100	100					100	100	100		100						
<i>Staphylococcus aureus</i> , all isolates	16	12				94	94	94	94	94					82	75	100		100					100	100
- methicillin-susceptible	15	11				100	100	100	100	100					87	80	100		100					100	100
- methicillin-resistant (MRSA)	1	1				0	0	0	0	0					0	0	100		100					100	100
Group A streptococci**	13	9			100										92	92								100	
Viridans group streptococci°	9	7										100												100	
<i>Enterococcus faecalis</i>	8	6	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.

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Emergency Department
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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	Trimethoprim-Sulfamethoxazole	Gentamicin	Tobramycin	Amikacin	Vancomycin	Linezolid
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ALL BACTERIA	231	—	8	15		78	81	69		58	66					84						
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ALL GRAM-NEGATIVE BACTERIA	62	100	13	37		71	94	50		10	37	73				82	55	98	81	87		
<i>Pseudomonas aeruginosa</i>	23	37				91	83					96				65		100	100	100		
<i>Escherichia coli</i>	11	18	0	73		73	100	100		33	73	73				82	55	91	67	100		
<i>Proteus mirabilis</i>	8	13	100	100		100	100				100	100				100	100	100				
<i>Enterobacter cloacae</i>	7	11	0	0		0	100	100		0	0	0				86	100	100	100	100		
<i>Klebsiella pneumoniae</i>	5	8	0	80		80	100	100		50	80	80				100	100	100	100	100		

ALL GRAM-POSITIVE BACTERIA	169	100	7	7	2	80	76	76	74	76	76		72	50		95					100	
<i>Staphylococcus aureus</i> , all isolates	157	93				80	80	80	80	80			75	52	88	99					100	100
- methicillin-susceptible	125	74				100	100	100	100	100			72	61	87	100					100	100
- methicillin-resistant (MRSA)	32	19				0	0	0	0	0			88	19	94	97					100	100
<i>Enterococcus faecalis</i>	7	4	100	100		100															100	
Group G streptococci**	2	1				100							50	50							100	
Group A streptococci**	1	1				100							100	100							100	
Group B streptococci**	1	1				100							100	100							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.

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All Urine Isolates – % Susceptible

	#	%	Ampicillin	Amoxicillin-Clavulanic acid	Piperacillin-Tazobactam	Meropenem	Ertapenem	Cloxacillin	Cefazolin	Cephalexin	Ceftriaxone	Ceftazidime	Doxycycline	Ciprofloxacin	Trimethoprim-Sulfamethoxazole	Nitrofurantoin	Gentamicin	Tobramycin	Amikacin	Vancomycin	Linezolid

≥80% Susceptible ■
 70-79% Susceptible ■
 ≤69% Susceptible ■

ALL BACTERIA	492	—	15	72	86	85	69		7	66	69			82	65	80					
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ALL GRAM-NEGATIVE BACTERIA	401	100	1	72	84	99	80		4	77	80	85		85	76	77	95	39	83		
<i>Escherichia coli</i>	285	71	2	77	87	100	100		6	85	89	89		84	76	99	94	38	100		
<i>Klebsiella pneumoniae</i>	49	12	0	90	90	100			0	90	90	90		94	88	27	100				
<i>Pseudomonas aeruginosa</i>	20	5			100	85						100		75			95	95	95		
<i>Proteus mirabilis</i>	17	4	0	94	94	100	100		0	94	94	94		88	94	0	94	50	50		
<i>Klebsiella oxytoca</i>	9	2	0	89	89	100			0	56	89	89		89	100	78	100				
<i>Klebsiella aerogenes</i>	7	2	0	0	0	100	100		0	0	0	0		100	100	0	100	100	100		

ALL GRAM-POSITIVE BACTERIA	91	100	73	73	93	20	20	20	20	20	20		36	71	11	92				98	98
<i>Enterococcus faecalis</i>	64	70	100	100	100								27	83		98				100	100
<i>Staphylococcus saprophyticus</i> *	12	13																			
<i>Staphylococcus aureus</i>	9	10			100	100	100	100	100				100		100	100				100	100
<i>Enterococcus faecium</i> , all isolates	4	4	0	0	0								25	0		0				75	100
- vancomycin-susceptible	3	3	0	0	0								33	0		0				100	100
- vancomycin-resistant (VRE)	1	1	0	0	0								0	0		0				0	100
<i>Enterococcus gallinarum</i>	2	2	100	100	100								50	100		100				50	

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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.