

Mount Sinai Hospital ANTIBIOGRAM

Intensive Care Units

January 1, 2016 - December 31, 2016

Blood Isolates – % Susceptible

			<div><div>≥80% Susceptible</div><div>70-79% Susceptible</div><div>≤69% Susceptible</div></div>																				
	#	%	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	127	—	12	20		38	49	39		28	33							55					
ALL GRAM-NEGATIVE BACTERIA	48	100	17	40		57	100	65		35	50	54				71		72	85	87	100		
<i>Escherichia coli</i>	13	27	38	77		75	100	100		69	85	85				77		75	85	85	100		
<i>Klebsiella pneumoniae</i>	8	17	0	62		62	100	100		62	62	62				75		62	62	62	100		
<i>Stenotrophomonas maltophilia</i> *	8	17															88	100					
<i>Pseudomonas aeruginosa</i>	7	15				57	100					86				86			86	100	100		
<i>Serratia marcescens</i>	4	8	0	0		0	100	100		0	0	0				100		100	100	100	100		
ALL GRAM-POSITIVE BACTERIA	79	100	9	9	4	28	23	23	20	23	25		41	31				44				99	
Coagulase-negative staphylococci	53	67				14	14	14	14	14			43	29	86			43				100	100
<i>Staphylococcus aureus</i> , all isolates	10	13				80	80	80	80	80			80	80	90			100				100	100
- methicillin-susceptible	8	10				100	100	100	100	100			88	88	88			100				100	100
- methicillin-resistant (MRSA)	2	3				0	0	0	0	0			50	50	100			100				100	100
<i>Enterococcus faecium</i> , all isolates	8	10	0	0		0																88	
- vancomycin-susceptible	7	9	0	0		0																100	
- vancomycin-resistant (VRE)	1	1	0	0		0																0	100
- vancomycin-susceptible (vanA+)	0	0																					
Viridans group streptococci *	4	5			75						100											100	
<i>Enterococcus faecalis</i> , all isolates	4	5	100	100		100																100	
- vancomycin-susceptible	4	5	100	100		100																100	
- vancomycin-resistant (VRE)	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.
- ICUs include MSICU.

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:

- * 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 **Intensive Care Units** **January 1, 2016 - December 31, 2016**

Respiratory Isolates — % Susceptible

			<div><div>≥80% Susceptible</div><div>70-79% Susceptible</div><div>≤69% Susceptible</div></div>																							
	#	%	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	57	—	12	25				68	92	51			54							65						
ALL GRAM-NEGATIVE BACTERIA	41	100	15	32				59	94	37			41	58				68		53	89	89	96			
<i>Pseudomonas aeruginosa</i>	12	29						58	83					83				92			92	100	92			
<i>Haemophilus influenzae</i> ^^	7	17	86																							
<i>Stenotrophomonas maltophilia</i> ^	7	17																	71	100						
<i>Escherichia coli</i>	5	12	0	60				60	100	100			80	80				40		20	60	60	100			
<i>Enterobacter cloacae</i>	4	10	0	0				0	100	100			0	0				100		100	100	100	100			
ALL GRAM-POSITIVE BACTERIA	16	100	6	6	6			88	88	88	81	88	81		75	69				93					100	
<i>Staphylococcus aureus</i> , all isolates	15	94						87	87	87	87	87			73	66	100			93				100	100	
- methicillin-susceptible	13	81						100	100	100	100	100			77	69	100			92				100	100	
- methicillin-resistant (MRSA)	2	13						0	0	0	0	0			50	50	100			100				100	100	
<i>Streptococcus pneumoniae</i>	1	6				100	100								100	100			100					100		

General Notes:

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

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

Mount Sinai Hospital ANTIBIOGRAM
Intensive Care Units
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Skin, Wound and Abscess Isolates – % Susceptible

			<div><div>≥80% Susceptible</div><div>70-79% Susceptible</div><div>≤69% Susceptible</div></div> <div># %</div>																				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	12	—	18	33		58	92	58			42							75																									
ALL GRAM-NEGATIVE BACTERIA	10	100	22	40		60	100	60			40	60				80		70	100	100	100																						
Escherichia coli	4	40	50	75		75	100	100			75	75				50		100	100	100	100																						
Pseudomonas aeruginosa	3	30				67	100					67				100			100	100	100																						
Klebsiella pneumoniae	1	10	0	100		100	100	100			100	100				100		100	100	100	100																						
Aeromonas hydrophila	1	10		0		0	100	0			0	0				100		100	100		100																						
Pantoea agglomerans	1	10	0	0		0	100	100			0	0				100		100	100	100	100																						
ALL GRAM-POSITIVE BACTERIA	2	100				50	50	50	50	50	50		50	50				100				100																					
Coagulase-negative staphylococci	1	50				100	100	100	100	100			0	0	100			100				100	100																				
Staphylococcus aureus, all isolates	1	50				0	0	0	0	0	0		100	100	100			100				100	100																				
- methicillin-susceptible	0	0																																									
- methicillin-resistant (MRSA)	1	50				0	0	0	0	0	0		100	100	100			100				100	100																				

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

Year-Specific Notes:

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

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Urine Isolates – % Susceptible

			<div> <div>≥80% Susceptible</div> <div>70-79% Susceptible</div> <div>≤69% Susceptible</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	47	—	21	45		57	81	64			28	49		13	70	60	64					
ALL GRAM-NEGATIVE BACTERIA	37	100	13	43		54	97	76			30	57	68		78	70	60	92	89	100		
<i>Escherichia coli</i>	19	51	26	58		63	100	100			32	79	79		63	84	95	89	84	100		
<i>Klebsiella pneumoniae</i>	8	22	0	62		62	100	100			62	75	75		88	88	50	88	88	100		
<i>Pseudomonas aeruginosa</i>	7	19				43	100						43		100			100	100	100		
<i>Serratia marcescens</i>	1	3	0	0		0	100	0			0	0	0		100	100	0	100	100	100		
<i>Acinetobacter baumannii</i> complex	1	3				0	0				0	0	100		100	100	0	100	100	100		
<i>Providencia stuartii</i>	1	3	0	0		0	100	100			0	0	0		100	100	0	100	100	100		
ALL GRAM-POSITIVE BACTERIA	10	100	50	50		70	20	20	20	20	20	20		60	40	20	80				100	100
<i>Enterococcus faecalis</i> , all isolates	5	50	100	100		100								40	80		100				100	
- vancomycin-susceptible	5	50	100	100		100								40	80		100				100	
- vancomycin-resistant (VRE)	0	0																				
<i>Staphylococcus aureus</i> , all isolates	2	20				100	100	100	100	100	100			100		100	100				100	100
- methicillin-susceptible	2	20				100	100	100	100	100	100			100		100	100				100	100
- methicillin-resistant (MRSA)	0	0																				
<i>Enterococcus faecium</i> , all isolates	3	30	0	0		0								67	0		33				100	
- vancomycin-susceptible	3	30	0	0		0								67	0		33				100	
- vancomycin-resistant (VRE)	0	0																				
- vancomycin-susceptible (vanA+)	0	0																				

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