

Mount Sinai Hospital ANTIBIOGRAM Neonatal Intensive Care Unit January 1, 2019 - December 31, 2023

Blood Isolates – % Susceptible

	#	%	Antibiotics																			
			Ampicillin	Amoxicillin-Clavulanic acid	Penicillin	Piperacillin-Tazobactam	Meropenem	Ertapenem	Cloxacillin	Cefazolin	Ceftriaxone	Ceftazidime	Clindamycin	Erythromycin	Doxycycline	Ciprofloxacin	Trimethoprim-Sulfamethoxazole	Gentamicin	Tobramycin	Amikacin	Vancomycin	Linezolid
ALL BACTERIA	124	–	30	53		76	87	85		54	72					69						
ALL GRAM-NEGATIVE BACTERIA	69	100	20	62		68	100	96		41	70	74				75	65	84	81	99		
<i>Escherichia coli</i>	49	71	26	71		73	100	100		47	82	82				73	65	84	82	98		
<i>Klebsiella pneumoniae</i>	8	12	0	50		50	100	100		50	50	50				50	50	62	50	100		
<i>Pseudomonas aeruginosa</i>	3	4				100	100					100				100		100	100	100		
<i>Klebsiella oxytoca</i>	3	4	0	100		100	100	100		33	100	100				100	100	100	100	100		
<i>Citrobacter koseri</i>	3	4	0	0		0	100	100		0	0	0				100	100	100	100	100		
<i>Enterobacter cloacae</i>	1	1	0	0		0	100	100		0	0	0				100	100	100	100	100		
<i>Proteus mirabilis</i>	1	1	100	100		100	100	100			100	100				100	100	100	100	100		
<i>Morganella morganii</i>	1	1	0	0		0	100	100		0	0	0				100	100	100	100	100		
ALL GRAM-POSITIVE BACTERIA	55	100	42	42	27	85	71	71	44	71	75		58	55		76					100	
Coagulase-negative staphylococci [†]	118	31				8	8	8	8	8			20	12	92		88				100	100
<i>Staphylococcus aureus</i> , all isolates	30	55				80	80	80	80	80			73	67	87		97				100	100
- methicillin-susceptible	25	45				96	96	96	96	96			76	72	92		100				100	100
- methicillin-resistant (MRSA)	5	9				0	0	0	0	0			60	40	60		80				100	100
Group B streptococci**	15	27			100								60	60							100	
<i>Enterococcus faecalis</i> , all isolates	8	15	100	100		100															100	
- vancomycin-susceptible	8	15	100	100		100															100	
- vancomycin-resistant (VRE)	0	0																				
Viridans group streptococci [‡]	2	4									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.

Organism-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.

** 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

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Respiratory Isolates – % Susceptible

	#	%	Antibiotics																					
			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	81	–	7	30		63	97	85		42	62						79							
ALL GRAM-NEGATIVE BACTERIA	55	100	10	44		49	100	82		20	49	50					77	73	94	86	94			
<i>Escherichia coli</i>	17	31	31	69		69	100	100		38	75	75					75	71	88	75	100			
<i>Klebsiella pneumoniae</i>	14	25	0	69		62	100	100		33	69	69					69	64	100	100	100			
<i>Enterobacter cloacae</i>	7	13	0	0		0	100	100		0	0	0					86	100	100	100	100			
<i>Pseudomonas aeruginosa</i>	4	7				50	100					50					100		100	100	100			
<i>Klebsiella oxytoca</i>	3	5	0	100		100	100					100	100				100		100					
<i>Stenotrophomonas maltophilia</i>	3	5															100	100						
<i>Serratia marcescens</i>	3	5	0	0		0	100	100		0	0	0					100	100	100	100	100			
<i>Citrobacter koseri</i>	3	5	0	0		0	100	100		0	0	0					100	100	100	100	100			
<i>Citrobacter freundii</i>	1	2	0	0		0	100	100		0	0	0					100	0	0	100	100			
ALL GRAM-POSITIVE BACTERIA	26	100				92	92	92	92	88	88			88	84			92					100	
<i>Staphylococcus aureus</i> , all isolates	24	92				96	96	96	96	91				91	91	100		91					100	100
- methicillin-susceptible	23	88				100	100	100	100	95				95	95	100		91					100	100
- methicillin-resistant (MRSA)	1	4				0	0	0	0	0				0	0	100		100					100	100
Coagulase-negative staphylococci	2	8				50	50	50	50	50				50	0	100		100					100	100

General Notes:

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- 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",
- Reported susceptibilities for "ALL BACTERIA", "ALL GRAM-NEGATIVE BACTERIA", and "ALL GRAM-POSITIVE BACTERIA" reflect estimates only based on the weighted average of
- Susceptibility to doxycycline was predicted based on tetracycline susceptibility testing results.

Organism-Specific Notes:

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

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Urine Isolates – % Susceptible

		≥80% Susceptible ■ 70-79% Susceptible ■ ≤69% Susceptible ■																		
		#	%	Ampicillin	Amoxicillin-Clavulanic acid	Piperacillin-Tazobactam	Meropenem	Ertapenem	Cloxacillin	Cefazolin	Cephalexin	Ceftriaxone	Ceftazidime	Doxycycline	Ciprofloxacin	Trimethoprim-Sulfamethoxazole	Nitrofurantoin	Gentamicin	Tobramycin	Amikacin

ALL BACTERIA	233	—	52	70	79	56	53	9	4	37	63	87	36	82								
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ALL GRAM-NEGATIVE BACTERIA	122	100	20	53	63	100	94	9	0	63	64	33	89	59	66	91	67	96				
<i>Escherichia coli</i>	55	45	36	65	80	100	100	8	0	85	85	50	80	67	96	80	80	100				
<i>Klebsiella pneumoniae</i>	21	17	0	86	86	100	100	33	0	90	90	29	90	0	24	100	0	100				
<i>Enterobacter cloacae</i>	14	11	0	0	7	100	100	0	0	0	0	20	100	76	64	100	77	100				
<i>Citrobacter koseri</i>	10	8	0	0	10	100	100	0	0	0	0	33	100	100	90	100	100	89				
<i>Klebsiella oxytoca</i>	7	6	0	100	100	100	100	0	0	100	100	0	100	100	57	100	100	100				
<i>Serratia marcescens</i>	6	5	0	0	0	100	100	0	0	0	0	0	100	100	0	100	100	100				
<i>Proteus mirabilis</i>	4	3	100	100	100	100	0	0	0	100	100	0	100	0	100	0	0	0				
<i>Pseudomonas aeruginosa</i>	2	2	0	0	50	100	0	0	0	0	50	0	100	0	100	100	100	100				
<i>Morganella morganii</i>	1	1	0	0	0	100	100	0	0	0	0	0	100	100	0	100	0	100				
<i>Stenotrophomonas maltophilia</i> [†]	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
<i>Citrobacter freundii</i>	1	1	0	0	0	100	100	0	0	0	0	0	100	100	100	100	100	100				

ALL GRAM-POSITIVE BACTERIA	111	100	88	88	96	8	8	8	8	8	8	95	85	11	100						99	
<i>Enterococcus faecalis</i> , all isolates	97	87	99	99	99	0	0	0	0	0	0	97	95	0	100						100	
- vancomycin-susceptible	97	87	99	99	99	0	0	0	0	0	0	97	95	0	100						100	
<i>Staphylococcus aureus</i> , all isolates	10	9	0	90	90	90	90	90	90	90	90	90	100	100	100						90	100
- methicillin-susceptible	9	8	0	100	100	100	100	100	100	100	100	100	100	100	100						100	100
Coagulase-negative staphylococci	2	2	0	0	0	0	0	0	0	0	0	75	100	100	100						100	100
<i>Enterococcus faecium</i> , all isolates	2	2	100	100	100	0	0	0	0	0	0	64	100	0	100						100	
- vancomycin-susceptible	2	2	100	100	100	0	0	0	0	0	0	64	100	0	100						100	
- methicillin-resistant (MRSA)	1	1	0	0	0	0	0	0	0	0	0	0	0	100	100						100	

General Notes:

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

Organism-Specific Notes:

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

Mount Sinai Hospital ANTIBIOGRAM

Neonatal Intensive Care Units

January 1, 2023 - December 31, 2023

All Specimens – % 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	673	—	27	42		75	75	73		41	57							70					
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ALL GRAM-NEGATIVE BACTERIA	#	%	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
<i>Escherichia coli</i>	133	44	35	67		75	100	100		35	81	81				75		67	85	80	99		
<i>Klebsiella pneumoniae</i>	64	21	0	68		69	98	100		33	72	72				76		76	94	77	100		
<i>Enterobacter cloacae</i>	30	10	0	0		10	100	100		0	0	0				97		100	100	100	100		
<i>Citrobacter koseri</i>	18	6	0	0		11	100	100		0	0	0				100		100	100	100	100		
<i>Klebsiella oxytoca</i>	16	5	0	100		100	100	100		20	100	100				100		100	100	100	100		
<i>Pseudomonas aeruginosa</i>	15	5				87	100					87				100			93	93	100		
<i>Serratia marcescens</i>	14	5	0	0		7	100	100		0	7	7				100		100	100	100	100		
<i>Proteus mirabilis</i>	5	2	100	100		100	100	100			100	100				100		100	100	100	100		
<i>Stenotrophomonas maltophilia</i>	3	1															100	100					
<i>Morganella morganii</i>	2	1	0	0		0	100	100		0	0	0				100		100	100	100	100		
<i>Citrobacter freundii</i>	2	1	0	0		0	100	100		0	0	0				100		50	50	100	100		

ALL GRAM-POSITIVE BACTERIA	#	%	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 GRAM-POSITIVE BACTERIA	371	100	34	34	4	85	55	55	51	55	55		46	44				65					100	
<i>Staphylococcus aureus</i> , all isolates	198	53				92	92	92	92	91			76	73	95			98					100	100
- methicillin-susceptible	184	50				99	99	99	99	98			76	75	97			98					100	100
- methicillin-resistant (MRSA)	14	4				0	0	0	0	0			71	50	64			93					100	100
<i>Enterococcus faecalis</i> , all isolates	110	30	99	99		99																	100	
Coagulase-negative staphylococci	41	11				17	17	17	17	17			24	17	93			88					100	100
Group B streptococci**	16	4			100								56	56									100	
<i>Enterococcus faecium</i> , all isolates	4	1	50	50		50																	100	
Viridans group streptococci*	2	1									100												100	

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

Year-Specific Notes:

- All specimens exclude surveillance samples.

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