

Mount Sinai Hospital ANTIBIOGRAM All Inpatients January 1, 2018 - December 31, 2018

Blood Isolates – % Susceptible

		≥80% Susceptible		70-79% Susceptible		≤69% Susceptible																			
#	%	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	438	—	17	28	49	55	50	32	46										64						
ALL GRAM-NEGATIVE BACTERIA	168	100	19	50	65	97	83	35	61				68				74	74	93	89	97				
<i>Escherichia coli</i>	86	51	33	63	71	99	98	52	78				78				66	76	91	86	99				
<i>Klebsiella pneumoniae</i>	24	14	0	75	71	96	96	61	79				79				79	75	88	83	100				
<i>Pseudomonas aeruginosa</i>	15	9			87	80							93				93		100	100	100				
<i>Enterobacter cloacae</i>	12	7	0	0	0	100	100	0	0				0				100	100	100	100	100				
<i>Klebsiella oxytoca</i>	6	4	0	100	100	100	100	0	100				100				100	100	100	100	100				
<i>Stenotrophomonas maltophilia</i> ¹	6	4															100	83							
<i>Serratia marcescens</i>	5	3	0	0	0	100	100	0	0				0				80	100	100	80	100				
ALL GRAM-POSITIVE BACTERIA	270	100	15	15	6	39	30	30	24	30	37				31	27			57					99	
Coagulase-negative staphylococci	148	55			14	14	14	14	14						24	19	100		57					100	100
<i>Staphylococcus aureus</i> , all isolates	49	18			90	90	90	90	90						71	67	98		98					100	100
- methicillin-susceptible	44	16			100	100	100	100	100						70	70	98		100					100	100
- methicillin-resistant (MRSA)	5	2			0	0	0	0	0						80	40	100		80					100	100
<i>Enterococcus faecalis</i> , all isolates	24	9	100	100	100																			100	
- vancomycin-susceptible	24	9	100	100	100																			100	
- vancomycin-resistant (VRE)	0	0																							
Viridans group streptococci ^o	19	7								100														100	
Group B streptococci**	17	6			100										47	47								100	
<i>Enterococcus faecium</i> , all isolates	13	5	0	0	0																			69	
- vancomycin-susceptible	9	3	0	0	0																			100	
- vancomycin-resistant (VRE)	4	1	0	0	0																			0	75
- vancomycin-susceptible (vanA ⁺)	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.

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 IUN/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.
- ^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.
- ¹ *S. maltophilia*: Susceptibility to moxifloxacin was predicted based on levofloxacin susceptibility testing results.

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Respiratory 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	Vancomycin	Linezolid
ALL BACTERIA	138	—	12	26			78	89	57		28	66									73					
ALL GRAM-NEGATIVE BACTERIA	88	100	19	41			72	95	46			52			69				85		60	92	90	98		
<i>Pseudomonas aeruginosa</i>	21	24					86	81							86				95			90	95	100		
<i>Escherichia coli</i>	16	18	6	44			50	100	94		0	62			62				88		81	88	81	94		
<i>Haemophilus influenzae</i> ^{^^}	16	18		94																						
<i>Klebsiella pneumoniae</i>	11	13	0	82			82	100	100		0	82			82				91		73	91	82	100		
<i>Enterobacter cloacae</i>	6	7	0	0			0	100	100		0	0			0				100		100	100	100	100		
<i>Stenotrophomonas maltophilia</i> [†]	6	7																		100	100					
ALL GRAM-POSITIVE BACTERIA	50	100					88	78	78	78	78	88				70	66				93				94	
<i>Staphylococcus aureus</i> , all isolates	42	84					93	93	93	93	93					71	66	97			100				100	100
- methicillin-susceptible	39	78					100	100	100	100	100					69	69	97			100				100	100
- methicillin-resistant (MRSA)	3	6					0	0	0	0	0					100	33	100			100				100	100
<i>Streptococcus pneumoniae</i>	5	10			0	100							100	100		100	100			100					100	
<i>Mycobacterium tuberculosis complex</i>	2	4																								
<i>Enterococcus faecium</i> , all isolates	1	2	0	0			0																		0	
- vancomycin-susceptible	0	0																								
- vancomycin-resistant (VRE)	1	2	0	0			0																		0	100
- vancomycin-susceptible (vanA+)	0	0																								

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", 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:

^{^^} *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.

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All Inpatients

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Urine Isolates – % Susceptible

		≥80% Susceptible ■ 70-79% Susceptible ■ ≤69% Susceptible ■																					
#	%	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	642	—	43	68	80	70	63		4	46	48		10	80	50	77							
ALL GRAM-NEGATIVE BACTERIA	431	100	21	58	73	99	90		1	64	67	76		81	71	69	92	92	100				
<i>Escherichia coli</i>	257	60	28	68	78	100	100		2	77	81	81		73	73	96	89	88	100				
<i>Klebsiella pneumoniae</i>	58	13	0	86	86	100	100		0	90	90	90		90	83	36	97	95	100				
<i>Pseudomonas aeruginosa</i>	40	9			82	90						88		88			98	100	100				
<i>Proteus mirabilis</i>	22	5	91	95	100	100	100			100	100	100		95	100	0	95	100	100				
<i>Enterobacter cloacae</i>	15	3	0	0	0	100	93		0	0	0	0		100	100	60	100	100	100				
<i>Citrobacter koseri</i>	11	3	0	0	0	100	100		0	0	0	0		91	91	64	91	100	100				
<i>Klebsiella oxytoca</i>	7	2	0	86	86	100	100		0	71	86	86		100	86	86	100	100	100				
<i>Serratia marcescens</i>	6	1	0	0	0	100	100		0	0	0	0		100	100	0	100	100	100				
<i>Citrobacter freundii</i>	5	1	0	0	0	100	100		0	0	0	0		100	60	100	100	100	100				
ALL GRAM-POSITIVE BACTERIA	211	100	88	88	3	95	9	9	7	9	9	9		31	77	7	93					99	
<i>Enterococcus faecalis</i> , all isolates	174	82	100	100	100									25	88		99					100	
- vancomycin-susceptible	174	82	100	100	100									25	88		99					100	
- vancomycin-resistant (VRE)	0	0																					
<i>Staphylococcus aureus</i> , all isolates	15	7			93	93	93	93	93	93				93		93	100					100	100
- methicillin-susceptible	14	7			100	100	100	100	100	100				100		100	100					100	100
- methicillin-resistant (MRSA)	1	0			0	0	0	0	0	0				0		0	100					100	100
<i>Enterococcus faecium</i> , all isolates	14	7	36	36	36									43	28		22					86	100
- vancomycin-susceptible	12	6	42	42	42									50	33		17					100	100
- vancomycin-resistant (VRE)	2	1	0	0	0									0	0		50					0	100
- vancomycin-susceptible (vanA+)	0	0																					
Group B streptococci**	6	3			100																	100	
Coagulase-negative staphylococci	1	0			0	0	0	0	0	0				100		0	100					100	100
<i>Enterococcus</i> species	1	0	100	100	100									0	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 Non-Urine Isolates – % 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	1211	—	20	32			65	71	58		38	57									68						
ALL GRAM-NEGATIVE BACTERIA	528	100	21	48			70	98	68		22	57			71					81		67	92	92	99		
<i>Escherichia coli</i>	203	38	33	64			74	100	99		42	79			79					75		75	89	88	100		
<i>Pseudomonas aeruginosa</i>	89	17					88	90							93					88			92	97	100		
<i>Klebsiella pneumoniae</i>	56	11	0	84			82	96	95		52	85			85					89		85	93	91	100		
<i>Haemophilus influenzae</i> ^{^^}	40	8	78																								
<i>Enterobacter cloacae</i>	38	7	0	0			0	97	95		0	0			0					100		95	97	97	100		
<i>Klebsiella oxytoca</i>	18	3	0	89			89	100	100		0	89			89					89		89	100	89	100		
<i>Serratia marcescens</i>	16	3	0	0			0	100	100		0	0			0					94		88	94	94	100		
<i>Stenotrophomonas maltophilia</i> [†]	15	3																			100	93					
<i>Proteus mirabilis</i>	14	3	79	100			100	100	100		0	100			100					86		100	100	100	100		
<i>Morganella morganii</i>	11	2	0	0			0	100	100		0	0			0					100		90	100	100	100		
<i>Moraxella catarrhalis</i> [^]	9	2																									
<i>Citrobacter koseri</i>	6	1	0	0			0	100	100		0	0			0					100		100	100	100	100		
<i>Citrobacter freundii</i>	5	1	0	0			0	100	100		0	0			0					100		100	100	100	100		
ALL GRAM-POSITIVE BACTERIA	683	100	19	19	8		62	51	51	42	51	56				50	42					70				97	
Coagulase-negative staphylococci	241	35					36	36	36	36	36					48	34	92				73				100	100
<i>Staphylococcus aureus</i> , all isolates	235	34					86	86	86	86	86					72	66	95				99				100	100
- methicillin-susceptible	205	30					99	99	99	99	99					73	72	97				100				100	100
- methicillin-resistant (MRSA)	30	4					0	0	0	0	0					67	23	83				93				100	100
<i>Enterococcus faecalis</i> , all isolates	73	11	100	100			100																			100	
- vancomycin-susceptible	73	11	100	100			100																			100	
- vancomycin-resistant (VRE)	0	0																									
Group B streptococci**	45	7			100											53	56									100	
Viridans group streptococci*	39	6									97															100	
<i>Enterococcus faecium</i> , all isolates	38	6	5	5			5																			53	
- vancomycin-susceptible	20	3	10	10			10																			100	
- vancomycin-resistant (VRE)	18	3	0	0			0																			0	88
- vancomycin-susceptible (vanA+)	0	0																									
<i>Streptococcus pneumoniae</i>	7	1				86	86							100	100						100					100	
Group C streptococci**	5	1			100											100	80									100	

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

Organism-Specific Notes:

- [^] *M. catarrhalis*: Susceptibility testing is not routinely performed. Most isolates are resistant to ampicillin and amoxicillin but are generally susceptible to other antibiotics commonly used for respiratory infections.
- ^{^^} *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.
- * 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.