

Toronto General Hospital ANTIBIOGRAM
Transplant Unit
January 1, 2024 - December 31, 2024

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	Trimethoprim-Sulfamethoxazole	Gentamicin	Tobramycin	Amikacin	Vancomycin	Linezolid
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ALL BACTERIA	121	—	6	12		28	36	31		15	19							21					
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ALL GRAM-NEGATIVE BACTERIA	37	100	5	26		50	89	70		20	30	50					50	40	75	80	92		
<i>Escherichia coli</i>	14	38	14	25		36	92	92		17	33	33					17	42	75	83	100		
<i>Klebsiella pneumoniae</i>	11	30	0	55		55	91	91		45	55	55					55	45	64	64	91		
<i>Pseudomonas aeruginosa</i>	8	22				88	88					100					88		88	100	88		
<i>Burkholderia cepacia</i>	1	3				0						0					100						
<i>Enterobacter cloacae</i>	1	3	0	0		0	100	100		0	0	0					100	100	100	100	100		
<i>Klebsiella aerogenes</i>	1	3	0	0		0	100	100		0	0	0					100	100	100	100	100		
<i>Serratia marcescens</i>	1	3	0	0		0	100	100		0	0	0					100	100	100	100	100		

ALL GRAM-POSITIVE BACTERIA	84	100	6	6	1	18	13	13	12	13	14		7	7			13				89	
Coagulase-negative staphylococci	56	67				17	17	17	17	17			8	8	92		17				100	100
Enterococcus faecium, all isolates	20	24	0	0		0															60	
- vancomycin-susceptible	12	14	0	0		0															100	
- vancomycin-resistant (VRE)	8	10	0	0		0															0	100
Enterococcus faecalis	3	4	100	100		100															100	
Enterococcus gallinarum	1	1	100	100		100															100	
Staphylococcus aureus	1	1				0	0	0	0	0			100	100	0		100				100	100
Staphylococcus lugdunensis	1	1				100	100	100	100	100			100	100	100		100				100	100
Staphylococcus saprophyticus "	1	1																				
Streptococcus anginosus group * °	1	1			100						100										100	
Viridans group streptococci *	1	1			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.

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:

- * *S. saprophyticus*: Susceptibility testing is not routinely performed. Most urinary tract infections due to this organism respond to nitrofurantoin, trimethoprim/sulfamethoxazole or
- * 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
- ** *S. anginosus* group: 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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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	Vancomycin	Linezolid
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ALL BACTERIA	118	—	19	27	53	59	51		8		10			6	44	19	53					
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ALL GRAM-NEGATIVE BACTERIA	71	100	4	17	61	99	85		13		17	17			49	30	58	79	49	93		
<i>Escherichia coli</i>	31	44	0	23	65	100	100		23		23	23			35	26	100	71	22	100		
<i>Klebsiella pneumoniae</i>	19	27	0	10	47	100	100		10		10	10			42	26	21	84	75	100		
<i>Pseudomonas aeruginosa</i>	8	11			100	88									88			75	88	75		
<i>Enterobacter cloacae</i>	4	6	0	0	0	100	100		0	0	0	0			75	75	25	100	100	100		
<i>Klebsiella oxytoca</i>	3	4	0	0	100	100	100		0		0	0			67	67	100	67	0	100		
<i>Proteus mirabilis</i>	3	4	100	100	100	100					100	100			67	33	0	100				

ALL GRAM-POSITIVE BACTERIA	47	100	43	43	43										15	36	2	45				79
<i>Enterococcus faecium</i> , all isolates	26	55	0	0	0										19	4		0				61
- vancomycin-susceptible	17	36	0	0	0										29	6		0				94
- vancomycin-resistant (VRE)	9	19	0	0	0										0	0		0				0
<i>Enterococcus faecalis</i> , all isolates	20	43	100	100	100										5	80		100				100
<i>Staphylococcus aureus</i>	1	2			0	0	0	0	0	0	0				100		100	100				100

General Notes:

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- 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.

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Respiratory Isolates – % Susceptible

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

ALL BACTERIA	55	—	2	2	56	64	13		2	7						30				
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ALL GRAM-NEGATIVE BACTERIA	44	100	2	2	73	83	14		6	59				43		17	76	88	82	
<i>Pseudomonas aeruginosa</i>	24	55			92	75				92				58			75	96	88	
<i>Stenotrophomonas maltophilia</i> [†]	9	20													33	56				
<i>Enterobacter cloacae</i>	3	7	0	0	0	100	100		0	0	0			67		67	100	100	100	
<i>Burkholderia multivoran</i>	2	5				100				100						0				
<i>Citrobacter freundii</i>	1	2	0	0	0	100	100		0	0	0			100		0	100	100	100	
<i>Escherichia coli</i>	1	2	0	0	0	100	100		0	0	0			0		0	100	100	100	
<i>Haemophilus influenzae</i> ^{^^}	1	2	100																	
<i>Klebsiella pneumoniae</i>	1	2	0	0	0	100			0	0	0			0		0	100			
<i>Moraxella catarrhalis</i> [^]	1	2																		
<i>Serratia odorifera</i>	1	2	0	0	0	100	100		0	0				100		0	100	100	100	

ALL GRAM-POSITIVE BACTERIA	11	100		8	8	8	8	8	8		51	41				75				
<i>Staphylococcus aureus</i> , all isolates	10	91		10	10	10	10	10			61	49	87			90			100	100
- methicillin-susceptible	1	9		100	100	100	100	100			100	100	100			100			100	100
- methicillin-resistant (MRSA)	9	82		0	0	0	0	0			57	43	86			89			100	100
<i>Mycobacterium tuberculosis</i> complex	1	9																		
<i>Staphylococcus lugdunensis</i>	1	9		100	100	100	100	100			100	100	100			100			100	100

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- 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:

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

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All Specimens – % Susceptible

	#	%	<div> <div>≥80% Susceptible</div> <div>70-79% Susceptible</div> <div>≤69% Susceptible</div> </div>	
				Ampicillin
				Amoxicillin-Clavulanic acid
				Piperacillin-Tazobactam
				Meropenem
				Ertapenem
				Cloxacillin
				Cefazolin
				Cephalexin
				Ceftriaxone
				Ceftazidime
				Clindamycin
				Erythromycin
				Doxycycline
				Ciprofloxacin
				Moxifloxacin
				Trimethoprim-Sulfamethoxazole
				Nitrofurantoin
				Gentamicin
				Tobramycin
				Amikacin
				Vancomycin
				Linezolid

ALL BACTERIA	300	—	14	26	48	55	39		13	3	25				30	41		26	46					
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ALL GRAM-NEGATIVE BACTERIA	166	100	5	28	60	93	61		15		36	59			21	53		31	37	77	74	90		
<i>Escherichia coli</i>	49	30	12	47	55	98	96		23		62	62				28		30	94	68	61	93		
<i>Pseudomonas aeruginosa</i>	46	28			87	82						91				67				80	96	87		
<i>Klebsiella pneumoniae</i>	33	20	0	56	58	97	94		39		59	59			100	47		38	12	72	65	94		
<i>Enterobacter cloacae</i>	11	7	0	0	0	100	100		0	0	0	0				80		70	30	100	100	100		
<i>Stenotrophomonas maltophilia</i>	9	5																33	56	0				

ALL GRAM-POSITIVE BACTERIA	134	100	24	24	35	11	11	11	11	7	12		14	13	41	26		20	58					81	
Coagulase-negative staphylococci	88	66			22	22	22	22	22				19	19	96			30	100					100	100
<i>Enterococcus faecium</i> , all isolates	51	38	0	0	0										16	0		0						57	
- vancomycin-susceptible	29	22	0	0	0										29	0		0						100	
- vancomycin-resistant (VRE)	22	16	0	0	0										0	0		0						0	100
<i>Enterococcus faecalis</i> , all isolates	30	22	100	100	100										5	80		100						100	
- vancomycin-susceptible	30	22	100	100	100										5	80		100						100	
<i>Staphylococcus aureus</i> , all isolates	20	15			45	45	45	45	45	45			68	62	89	55		95	95					100	100
- methicillin-susceptible	9	7			100	100	100	100	100	100	100		89	89	100			100	100					100	100
- methicillin-resistant (MRSA)	11	8			0	0	0	0	0	0	0		50	40	80	100		91	90					100	100
<i>Enterococcus gallinarum</i>	2	1	100	100	100																			100	
<i>Mycobacterium tuberculosis</i> complex	2	1																							
<i>Staphylococcus lugdunensis</i>	2	1			100	100	100	100	100	100			100	100	100			100	100					100	100

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- 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.
- All specimens exclude surveillance samples.

Organism-Specific Notes:

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