

**Toronto General Hospital ANTIBIOGRAM
Transplant Unit
January 1, 2017 - December 31, 2017**

Blood 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 style="display: flex; flex-direction: column; gap: 5px;"> <div style="border: 1px solid black; padding: 2px;">#</div> <div style="border: 1px solid black; padding: 2px;">%</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	138	—	8	17	37	43	41		27	32							32						
ALL GRAM-NEGATIVE BACTERIA	35	100		34	38	84	77		20	38	46				60		31	69	69	91			
<i>Klebsiella pneumoniae</i>	11	31	0	64	55	91	91		36	64	64				73		27	64	64	100			
<i>Escherichia coli</i>	10	29	0	50	50	90	90		30	50	50				40		10	70	70	100			
<i>Pseudomonas aeruginosa</i>	3	9			33	33					33				67			100	100	100			
<i>Serratia marcescens</i>	3	9	0	0	0	100	100		0	0	0				100		100	100	100	100			
<i>Burkholderia cepacia</i>	3	9				50					100						33						
ALL GRAM-POSITIVE BACTERIA	103	100	11	11	3	37	29	29	26	29	30		45	33			32					90	
Coagulase-negative staphylococci	65	63				31	31	31	31	31			62	46	92		38					100	100
<i>Enterococcus faecium</i> , all isolates	19	18	5	5	5																47		
- vancomycin-susceptible	9	9	11	11	11																100		
- vancomycin-resistant (VRE)	10	10	0	0	0																0	100	
- vancomycin-susceptible (vanA+)	0	0																					
<i>Staphylococcus aureus</i> , all isolates	8	8				88	88	88	88	88			50	38	100		88					100	100
- methicillin-susceptible	7	7				100	100	100	100	100			57	43	100		86					100	100
- methicillin-resistant (MRSA)	1	1				0	0	0	0	0			0	0	100		100					100	100
<i>Enterococcus faecalis</i> , all isolates	6	6	100	100	100																	100	
- vancomycin-susceptible	6	6	100	100	100																	100	
- vancomycin-resistant (VRE)	0	0																					
Viridans group streptococci*	4	4			75						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:

- 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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Respiratory Isolates – % Susceptible

	#	%	Antibiotics																						
			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	67	—	6	13			64	88	33			31							25						
ALL GRAM-NEGATIVE BACTERIA	57	100	5	14			61	89	25			24	60				74		18	85	87	92			
<i>Pseudomonas aeruginosa</i>	33	58					64	82				64					85		82	88	88				
<i>Escherichia coli</i>	5	9	0	0			20	100	100			40	40				20		20	80	80	100			
<i>Klebsiella pneumoniae</i>	5	9	0	80			80	100	100			80	80				80		60	100	80	100			
<i>Haemophilus influenzae</i> ^{^^}	4	7	75																						
<i>Stenotrophomonas maltophilia</i> [^]	3	5																33	67						
<i>Moraxella catarrhalis</i> [^]	3	5																							
ALL GRAM-POSITIVE BACTERIA	10	100	10	10	10		80	80	80	70	80	70		70	80				66				100		
<i>Staphylococcus aureus</i> , all isolates	9	90					78	78	78	78	78			67	78	89			66				100	78	
- methicillin-susceptible	7	70					100	100	100	100	100			86	86	100			71				100	100	
- methicillin-resistant (MRSA)	2	20					0	0	0	0	0			0	50	50			50				100	0	
<i>Streptococcus pneumoniae</i>	1	10					100	100						100	100				100				100		

General Notes:

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

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:

- [^] *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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Skin, Wound and Abscess Isolates – % Susceptible

		<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="font-size: small;"> <p>≥80% Susceptible ■</p> <p>70-79% Susceptible ■</p> <p>≤69% Susceptible ■</p> </div> <div style="font-size: x-small; text-align: center;"> <p># %</p> </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	55	—	4	9	49	62	38			27							36						
ALL GRAM-NEGATIVE BACTERIA	25	100		12	52	88	36			12	56				72		28	92	96	100			
<i>Pseudomonas aeruginosa</i>	14	56			71	86					79				64			93	100	100			
<i>Enterobacter cloacae</i>	4	16	0	0	0	100	75			0	0				100		100	100	100	100			
<i>Escherichia coli</i>	3	12	0	33	33	67	67			33	33				33		0	100	100	100			
<i>Klebsiella pneumoniae</i>	2	8	0	100	100	100	100			100	100				100		50	50	50	100			
<i>Klebsiella oxytoca</i>	1	4	0	0	0	100	100			0	0				100		100	100	100	100			
<i>Serratia marcescens</i>	1	4	0	0	0	100	100			0	0				100		100	100	100	100			
ALL GRAM-POSITIVE BACTERIA	30	100	7	7	47	40	40	40	40			30	27				43					70	
<i>Enterococcus faecium</i> , all isolates	12	40	8	8	8																	25	
- vancomycin-susceptible	3	10	33	33	33																	100	
- vancomycin-resistant (VRE)	9	30	0	0	0																	0	
- vancomycin-susceptible (vanA+)	0	0																				100	
<i>Staphylococcus aureus</i> , all isolates	11	37			100	100	100	100	100			82	73	100			91					100	100
- methicillin-susceptible	11	37			100	100	100	100	100			82	73	100			91					100	100
- methicillin-resistant (MRSA)	0	0																					
Coagulase-negative staphylococci	6	20			17	17	17	17	17			0	0	100			50					100	100
<i>Enterococcus faecalis</i> , all isolates	1	3	100	100	100																	100	
- vancomycin-susceptible	1	3	100	100	100																	100	
- vancomycin-resistant (VRE)	0	0																					

General Notes:

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

Year-Specific Notes:

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

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Urine Isolates – % Susceptible

	#	%	Antibiotics																			
			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	134	—	29	53		63	62	56			31	35		12	62	26	61					
ALL GRAM-NEGATIVE BACTERIA	85	100	7	45		61	98	88			48	55	63		72	41	54	84	84	99		
<i>Escherichia coli</i>	34	40	9	50		68	100	100			59	68	68		59	26	100	79	79	100		
<i>Klebsiella pneumoniae</i>	22	26	0	64		64	95	95			64	73	73		73	50	32	86	86	100		
<i>Pseudomonas aeruginosa</i>	7	8				100	100						100		71			86	100	100		
<i>Proteus mirabilis</i>	5	6	60	100		100	100	100			100	100	100		100	40	0	100	100	100		
<i>Serratia marcescens</i>	5	6	0	0		0	100	100			0	0	0		100	100	0	100	80	100		
ALL GRAM-POSITIVE BACTERIA	49	100	67	67		67								33	47		73				86	
<i>Enterococcus faecalis</i> , all isolates	31	63	100	100		100								23	71		100				100	
- vancomycin-susceptible	31	63	100	100		100								23	71		100				100	
- vancomycin-resistant (VRE)	0	0																				
<i>Enterococcus faecium</i> , all isolates	16	33	6	6		6								50	6		25				63	100
- vancomycin-susceptible	10	20	10	10		10								70	10		40				100	100
- vancomycin-resistant (VRE)	6	12	0	0		0								17	0		0				0	100
- vancomycin-susceptible (vanA+)	0	0																				
<i>Enterococcus gallinarum</i>	2	4	50	50		50								50	0		50				50	0

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

Year-Specific Notes:

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