

Toronto General Hospital ANTIBIOGRAM Transplant Unit January 1, 2018 - December 31, 2018

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	Piperacillin-Tazobactam	Meropenem	Ertapenem	Cloxacillin	Cefazolin	Ceftriaxone	Ceftazidime	Clindamycin	Erythromycin	Doxycycline	Ciprofloxacin	Moxifloxacin	Trimethoprim-Sulfamethoxazole	Gentamicin	Tobramycin	Amikacin	Vancomycin	Linezolid
ALL BACTERIA	53	—	13		38	59	34		9	26							34					
ALL GRAM-NEGATIVE BACTERIA	44	100	16		34	60	30			20	45				55		23	67	88	68		
<i>Pseudomonas aeruginosa</i>	28	64			29	43					39				50			54	86	56		
<i>Klebsiella pneumoniae</i>	5	11	0	80	60	100	100		0	80	80				100		80	100	100	100		
<i>Serratia marcescens</i>	4	9	0	0	0	100	100		0	0	0				75		75	100	100	100		
<i>Escherichia coli</i>	3	7	0	67	67	100	100			100	100				33		0	100	100	100		
<i>Stenotrophomonas maltophilia</i> ¹	2	5														50	100					
ALL GRAM-POSITIVE BACTERIA	9	100			56	56	56	56	56	56		44	33				89				100	
<i>Staphylococcus aureus</i> , all isolates	9	100			56	56	56	56	56			44	33	89			89				100	100
- methicillin-susceptible	5	56			100	100	100	100	100			80	60	80			80				100	100
- methicillin-resistant (MRSA)	4	44			0	0	0	0	0			0	0	100			100				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:

Organism-Specific Notes:

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

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Blood 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	110	—	8	15		40	50	45		28	38						42							
ALL GRAM-NEGATIVE BACTERIA	30	100	3	27		38	97	80		17	38	43			76		59	89	89	96				
<i>Klebsiella pneumoniae</i>	9	30	0	56		56	100	100		44	78	78			100		56	100	89	100				
<i>Escherichia coli</i>	5	17	0	20		40	100	100		20	40	40			0		20	80	80	100				
<i>Serratia marcescens</i>	5	17	0	0		0	100	100		0	0	0			100		100	100	100	100				
<i>Pseudomonas aeruginosa</i>	3	10				67	67					67			67			67	100	67				
<i>Enterobacter cloacae</i>	3	10	0	0		0	100	67		0	0	0			100		67	67	67	100				
ALL GRAM-POSITIVE BACTERIA	80	100	10	10	1	41	33	33	31	33	38			34	34								88	
Coagulase-negative staphylococci	48	60				50	50	50	50	50				50	50	100		50					100	100
<i>Enterococcus faecium</i> , all isolates	18	23	5	5		5																	44	
- vancomycin-susceptible	8	10	12	12		12																	100	
- vancomycin-resistant (VRE)	10	13	0	0		0																	0	
- vancomycin-susceptible (vanA+)	0	0																					100	
Viridans group streptococci*	4	5								100													100	
<i>Enterococcus faecalis</i> , all isolates	6	8	100	100		100																	100	
- vancomycin-susceptible	6	8	100	100		100																	100	
- vancomycin-resistant (VRE)	0	0																						
<i>Staphylococcus aureus</i> , all isolates	3	4				33	33	33	33	33				33	33	100		100					100	100
- methicillin-susceptible	1	1				100	100	100	100	100				100	100	100		100					100	100
- methicillin-resistant (MRSA)	2	3				0	0	0	0	0				0	0	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 IHN/UGI 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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Skin, Wound and Abscess Isolates – % Susceptible

		≥80% Susceptible ■ 70-79% Susceptible ■ ≤69% 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		53	—		9	19			47	66	45		15	28								26					
ALL GRAM-NEGATIVE BACTERIA		28	100		7	25			50	97	57			25	54					78		25	100	100	100		
<i>Pseudomonas aeruginosa</i>		12	43						58	92					67					83			100	100	100		
<i>Enterobacter cloacae</i>		5	18		0	0		0	100	100			0	0	0					100		20	100	100	100		
<i>Escherichia coli</i>		4	14		25	50		50	100	100			0	50	50					25		50	100	100	100		
<i>Klebsiella pneumoniae</i>		3	11		0	100		100	100	100					100	100				67		0	100	100	100		
<i>Serratia marcescens</i>		1	4		0	0		0	100	100				0	0	0				100		100	100	100	100		
<i>Klebsiella oxytoca</i>		1	4		0	100		100	100	100					100	100				100		100	100	100	100		
<i>Proteus mirabilis</i>		1	4		100	100		100	100	100					100	100				100		100	100	100	100		
<i>Citrobacter freundii</i>		1	4		0	0		0	100	100				0	0	0				100		100	100	100	100		
ALL GRAM-POSITIVE BACTERIA		25	100		12	12			44	32	32	32	32	32			24	24				28				84	
<i>Enterococcus faecium</i> , all isolates		10	40		20	20		20																		60	
- vancomycin-susceptible		6	24		33	33		33																		100	
- vancomycin-resistant (VRE)		4	16		0	0		0																		0	
- vancomycin-susceptible (vanA+)		0	0																							100	
Coagulase-negative staphylococci		7	28					14	14	14	14	14					14	14	86			14				100	
<i>Staphylococcus aureus</i> , all isolates		7	28					100	100	100	100	100					71	71	100			86				100	
- methicillin-susceptible		7	28					100	100	100	100	100					71	71	100			86				100	
- methicillin-resistant (MRSA)		0	0																								
<i>Enterococcus faecalis</i> , all isolates		1	4		100	100		100																		100	
- vancomycin-susceptible		1	4		100	100		100																		100	
- vancomycin-resistant (VRE)		0	0																								

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Urine Isolates – % Susceptible

	#	%	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	121	—	26	51		59	64	56				29	32		14	60	24	64						
ALL GRAM-NEGATIVE BACTERIA	78	100	6	45		57	100	87				45	51	58		64	36	62	84	80	99			
<i>Escherichia coli</i>	36	46	11	42		47	100	97			0	47	50	50		39	28	92	75	72	97			
<i>Klebsiella pneumoniae</i>	20	26	0	70		70	100	95			0	65	70	70		75	50	30	90	85	100			
<i>Pseudomonas aeruginosa</i>	6	8				100	100							100		100			100	100	100			
<i>Klebsiella oxytoca</i>	6	8	0	67		83	100	100			0	50	83	83		83	50	100	83	67	100			
<i>Enterobacter cloacae</i>	5	6	0	0		0	100	80			0	0	0	0		100	40	40	100	100	100			
ALL GRAM-POSITIVE BACTERIA	43	100	63	63		63									40	53	2	67					84	
<i>Enterococcus faecalis</i> , all isolates	27	63	100	100		100									30	85		96					100	
- vancomycin-susceptible	27	63	100	100		100									30	85		96					100	
- vancomycin-resistant (VRE)	0	0																						
<i>Enterococcus faecium</i> , all isolates	14	33	0	0		0									50	0		14				50	100	
- vancomycin-susceptible	7	16	0	0		0									57	0		14				100	100	
- vancomycin-resistant (VRE)	7	16	0	0		0									43	0		14				0	100	
- vancomycin-susceptible (vanA+)	0	0																						
<i>Staphylococcus aureus</i> , all isolates	1	2				0	0	0	0	0	0				100		100	100					100	100
- methicillin-susceptible	0	0																						
- methicillin-resistant (MRSA)	1	2				0	0	0	0	0	0				100		100	100					100	100
<i>Enterococcus gallinarum</i>	1	2	0	0		0									100	0		0					100	

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