

Toronto General Hospital ANTIBIOGRAM
Transplant Unit
January 1, 2019 - December 31, 2019

Blood Isolates – % 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	103	7	15	24	41	39		11	24								20						
ALL GRAM-NEGATIVE BACTERIA	36	100	3	25	36	100	94		14	42	47					64	39	83	67	94			
<i>Escherichia coli</i>	20	56	6	30	35	100	100		15	55	55					45	35	75	55	90			
<i>Klebsiella pneumoniae</i>	5	14	0	40	40	100	100		40	40	40					80	60	100	60	100			
<i>Enterobacter cloacae</i>	4	11	0	0	0	100	100		0	0	0					100	50	100	100	100			
<i>Klebsiella oxytoca</i>	3	8	0	33	67	100	100		0	67	67					67	33	100	67	100			
<i>Pseudomonas aeruginosa</i>	2	6			100	100					100					100		100	100	100			
ALL GRAM-POSITIVE BACTERIA	67	100	9	9	18	9	9	9	9	15		67	8				9					93	
Coagulase-negative staphylococci	37	55			0	0	0	0	0			100	0	100			0					100	100
<i>Enterococcus faecium</i> , all isolates	13	19	0	0	0																	62	
- vancomycin-susceptible	8	12	0	0	0																	100	
- vancomycin-resistant (VRE)	5	7	0	0	0																	0	100
- vancomycin-susceptible (vanA+)	0	0																					
<i>Staphylococcus aureus</i> , all isolates	7	10			86	86	86	86	86			71	71	100			85					100	100
- methicillin-susceptible	6	9			100	100	100	100	100			83	83	100			83					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	9	100	100	100																	100	
- vancomycin-susceptible	6	9	100	100	100																	100	
- vancomycin-resistant (VRE)	0	0																					
Viridans group streptococci*	4	6							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

		≥80% Susceptible ■ 70-79% Susceptible ■ ≤69% 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	60	—	5	8			68	81	28		10	25									23					
ALL GRAM-NEGATIVE BACTERIA	52	100	4	8			67	82	21		14			63				50			14	75	79	82		
<i>Pseudomonas aeruginosa</i>	35	67					77	77						74				54				77	89	86		
<i>Escherichia coli</i>	7	13	0	14			43	100	100		0	57		57				29			14	71	57	86		
<i>Enterobacter cloacae</i>	3	6	0	0			0	100	100		0	0		0				67			67	67	67	67		
<i>Haemophilus influenzae</i> ^{^^}	2	4	100																							
<i>Stenotrophomonas maltophilia</i> [†]	2	4																	50	100						
ALL GRAM-POSITIVE BACTERIA	8	100	13	13	13		75	75	75	63	75	88			63	25					100				100	
<i>Staphylococcus aureus</i> , all isolates	6	75					83	83	83	83	83				67	33	100				100				100	100
- methicillin-susceptible	5	63					100	100	100	100	100				60	40	100				100				100	100
- methicillin-resistant (MRSA)	1	13					0	0	0	0	0				100	0	100				100				100	100
<i>Streptococcus pneumoniae</i>	2	25			50	50							100	100	50	0			100						100	

General Notes:

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- 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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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	62	—	15	31		48	65	52		17	39							34						
ALL GRAM-NEGATIVE BACTERIA	36	100	12	39		50	92	69		10	47	61					67	36	83	69	91			
<i>Escherichia coli</i>	14	39	23	43		50	100	100		25	64	64					50	29	86	75	92			
<i>Pseudomonas aeruginosa</i>	9	25				56	67					56					67		89	100	100			
<i>Klebsiella pneumoniae</i>	7	19	0	71		71	100	100		0	71	71					71	43	71	33	100			
<i>Enterobacter cloacae</i>	2	6	0	0		0	100	100		0	0	0					100	100	100	100	100			
<i>Klebsiella oxytoca</i>	2	6	0	100			100				100	100					100	100						
ALL GRAM-POSITIVE BACTERIA	26	100	19	19		46	27	27	27	27	27		34	27				31					88	
Coagulase-negative staphylococci	8	31				25	25	25	25	25			62	38	88			38					100	100
<i>Enterococcus faecium</i> , all isolates	9	35	11	11		11																	67	
- vancomycin-susceptible	6	23	17	17		17																	100	
- vancomycin-resistant (VRE)	3	12	0	0		0																0	100	
<i>Staphylococcus aureus</i> , all isolates	5	19				100	100	100	100	100			80	80	100			100					100	100
<i>Enterococcus faecalis</i> , all isolates	4	15	100	100		100																	100	

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Urine 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	Cephalexin	Ceftriaxone	Ceftazidime	Doxycycline	Ciprofloxacin	Trimethoprim-Sulfamethoxazole	Nitrofurantoin	Gentamicin	Tobramycin	Amikacin	Vancomycin	Linezolid
ALL BACTERIA	156	—	19	40	53	63	54			27	33		9	56	26	50					
ALL GRAM-NEGATIVE BACTERIA	101	100	5	38	57	97	83			42	51	63		71	40	51	84	79	100		
<i>Escherichia coli</i>	47	47	8	45	57	100	100		0	51	68	68		53	32	85	81	73	100		
<i>Klebsiella pneumoniae</i>	18	18	0	61	72	89	85		0	72	72	72		78	56	11	94	75	100		
<i>Pseudomonas aeruginosa</i>	13	13			85	92						92		92			85	100	100		
<i>Enterobacter cloacae</i>	7	7	0	0	0	100	86		0	0	0	0		86	71	57	86	86	100		
<i>Serratia marcescens</i>	5	5	0	0	0	100	100		0	0	0	0		100	80	0	100	100	100		
ALL GRAM-POSITIVE BACTERIA	55	100	45	45	45								25	29		47				91	
<i>Enterococcus faecium</i> , all isolates	30	55	3	3	3								33	0		3				83	100
- vancomycin-susceptible	25	45	4	4	4								36	0		4				100	100
- vancomycin-resistant (VRE)	5	9	0	0	0								20	0		0				0	100
<i>Enterococcus faecalis</i> , all isolates	22	40	100	100	100								9	68		100				100	
<i>Enterococcus gallinarum</i>	2	4	100	100	100								50	50		100				100	
Coagulase-negative staphylococci	1	2			0	0	0	0	0	0			100		0	100				100	100

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