

Toronto General Hospital ANTIBIOGRAM Transplant Unit January 1, 2021 - December 31, 2021

Blood Isolates – % Susceptible

≥80% Susceptible ■ 70-79% Susceptible ■ ≤69% Susceptible ■	#	%	Ampicillin	Amoxicillin-Clavulanic acid	Piperacillin-Tazobactam	Meropenem	Ertapenem	Clxacillin	Cefazolin	Ceftriaxone	Ceftazidime	Clindamycin	Erythromycin	Doxycycline	Ciprofloxacin	Trimethoprim-Sulfamethoxazole	Gentamicin	Tobramycin	Amikacin	Vancomycin	Linezolid
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ALL BACTERIA	70	–	7	17	42	57	54		28	39					46						
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ALL GRAM-NEGATIVE BACTERIA	26	100	4	31	39	93	85		15	38	50				50	38	96	88	88		
<i>Escherichia coli</i>	12	46	0	33	42	92	92		25	50	50				25	25	100	83	83		
<i>Klebsiella pneumoniae</i>	4	15	0	50	50	100	100		25	50	50				100	25	100	100	100		
<i>Pseudomonas aeruginosa</i>	3	12			33	67					100				33		67	67	67		
<i>Klebsiella aerogenes</i>	2	8	0	0	0	100	100		0	0	0				50	100	100	100	100		
<i>Klebsiella oxytoca</i>	2	8	0	50	50	100	100		0	50	50				100	100	100	100	100		
<i>Enterobacter cloacae</i>	2	8	0	0	0	100	100		0	0	0				100	100	100	100	100		
<i>Proteus mirabilis</i>	1	4	100	100	100	100	100		0	100	100				0	0	100	100	100		

ALL GRAM-POSITIVE BACTERIA	44	100	9	9	45	35	35	35	35	40		60	60		51					98	
Coagulase-negative staphylococci	29	66			40	40	40	40	40			80	80	100	60					100	100
<i>Enterococcus faecium</i> , all isolates	7	16	28	28	28															86	
- vancomycin-susceptible	6	14	33	33	33															100	
- vancomycin-resistant (VRE)	1	2	0	0	0															0	100
<i>Staphylococcus aureus</i>	4	9			100	100	100	100	100			50	50	100	100					100	100
<i>Enterococcus faecalis</i>	2	5	100	100	100															100	
Viridans group streptococci ^o	2	5								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:

- ^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.

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Respiratory Isolates – % Susceptible

		≥80% Susceptible ■ 70-79% Susceptible ■ ≤69% Susceptible ■																								
#	%	Ampicillin	Amoxicillin-Clavulanic acid	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	34	—	3			59	78	26		15	22									36						
ALL GRAM-NEGATIVE BACTERIA	27	100	4			56	80	15		4				48					63	22	76	68	60			
<i>Pseudomonas aeruginosa</i>	17	63				76	71							71					65		65	82	71			
<i>Serratia marcescens</i>	3	11	0	0		0	100	100		0	0			0					100	100	100	100	100			
<i>Escherichia coli</i>	2	7	0	0		0	100			0	0			0					50	0	100					
<i>Stenotrophomonas maltophilia</i>	2	7																	100	100						
<i>Klebsiella aerogenes</i>	1	4	0	0		0	100	100		0	0			0					0	0	100	0	0			
<i>Klebsiella oxytoca</i>	1	4	0	0		0	100			0	0			0					100	100	100					
<i>Klebsiella pneumoniae</i>	1	4	0	100		100	100				100			100					100	0	100					
ALL GRAM-POSITIVE BACTERIA	7	100				71	71	71	71	71	86				71	43				100					100	
<i>Staphylococcus aureus</i> , all isolates	6	86				83	83	83	83	83				83	50	67				100					100	100
- methicillin-susceptible	5	71				100	100	100	100	100				80	60	60				100					100	100
- methicillin-resistant (MRSA)	1	14				0	0	0	0	0				100	0	100				100					100	100
<i>Streptococcus pneumoniae</i>	1	14			0	0							100	100	0	0				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.

Organism-Specific Notes:

- * *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	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	41	—	7	12	37	54	36		15	27					40						
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ALL GRAM-NEGATIVE BACTERIA	18	100	11	33	89	49			22	44				78	50	100	83	83			
<i>Escherichia coli</i>	5	28	0	0	20	80	75		0	40	40			20	20	100	100	100			
<i>Enterobacter cloacae</i>	4	22	0	0	0	100	75		0	0	0			100	100	100	100	100			
<i>Pseudomonas aeruginosa</i>	4	22			75	75					100			100		100	100	100			
<i>Klebsiella oxytoca</i>	2	11	0	50	50	100			0	50	50			100	50	100					
<i>Citrobacter freundii</i>	1	6	0	0	0	100	100		0	0	0			100	100	100	100	100			
<i>Klebsiella aerogenes</i>	1	6	0	0	0	100	100		0	0	0			100	100	100	100	100			
<i>Klebsiella pneumoniae</i>	1	6	0	100	100	100			100	100				100	100	100					

ALL GRAM-POSITIVE BACTERIA	23	100	13	13	39	26	26	26	26	30		41	36		32					91	
Coagulase-negative staphylococci	7	30			0	0	0	0	0			43	43	86	0					100	100
<i>Staphylococcus aureus</i> , all isolates	7	30			86	86	86	86	86			85	71	85	100					100	100
- methicillin-susceptible	6	26			100	100	100	100	100			83	83	83	100					100	100
- methicillin-resistant (MRSA)	1	4			0	0	0	0	0			100	0	100	100					100	100
<i>Enterococcus faecium</i> , all isolates	6	26	17	17	17															67	
- vancomycin-susceptible	4	17	25	25	25															100	
- vancomycin-resistant (VRE)	2	9	0	0	0															0	100
<i>Enterococcus faecalis</i>	2	9	100	100	100															100	
<i>Streptococcus anginosus</i> group ^{°°}	1	4								100										100	

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

Organism-Specific Notes:

^{°°} *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	Clotaxacin	Cefazolin	Cephalixin	Ceftriaxone	Ceftazidime	Doxycycline	Ciprofloxacin	Trimethoprim-Sulfamethoxazole	Nitrofurantoin	Gentamicin	Tobramycin	Amikacin	Vancomycin	Linezolid

ALL BACTERIA	133	—	24	49	60	59	46		4	28	32		5	58	25	56						
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ALL GRAM-NEGATIVE BACTERIA	81	100	1	43	61	98	77		7	47	53	68		66	41	53	91	61	94			
<i>Escherichia coli</i>	32	40	0	47	47	100	100		8	56	66	66		44	34	94	91	50	100			
<i>Klebsiella pneumoniae</i>	20	25	0	75	80	100	100		17	79	80	80		80	60	20	80	50	100			
<i>Pseudomonas aeruginosa</i>	13	16			100	85						100		77			100	100	100			
<i>Enterobacter cloacae</i>	4	5	0	0	0	100	100		0	0	0	0		100	75	50	100	100	100			
<i>Klebsiella oxytoca</i>	4	5	0	100	100	100				75	100	100		75	25	100	100					
<i>Klebsiella aerogenes</i>	2	2	0	0	0	100	100		0	0	0	0		100	100	50	100	100	100			

ALL GRAM-POSITIVE BACTERIA	52	100	59	59	59								13	46		60						81	
<i>Enterococcus faecalis</i>	32	62	97	97	97								13	77		97						100	
<i>Enterococcus faecium</i> , all isolates	20	38	0	0	0								15	0		5						55	95
- vancomycin-susceptible	11	21	0	0	0								18	0		0						100	90
- vancomycin-resistant (VRE)	9	17	0	0	0								11	0		11						0	100
<i>Staphylococcus lugdunensis</i>	1	2			0	0	0	0	0	0			100		100	100						100	100

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