

Toronto Western Hospital ANTIBIOGRAM
Intensive Care Units
January 1, 2020 - December 31, 2020

Blood Isolates – % Susceptible

	#	%	Ampicillin	Amoxicillin-Clavulanic acid	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

≥80% Susceptible ■
 70-79% Susceptible ■
 ≤69% Susceptible ■

ALL BACTERIA	194	—	5	11	25	30	25		15	22									28					
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ALL GRAM-NEGATIVE BACTERIA	42	100	7	36	59	100	71		28	39			55				88		74	95	97	97		
<i>Pseudomonas aeruginosa</i>	9	21			89	100							89				100			89	100	89		
<i>Klebsiella pneumoniae</i>	7	17	0	100	100	100	100		83	100			100				86		100	100	100	100		
<i>Escherichia coli</i>	6	14	0	67	67	100	100		67	67			67				83		67	83	83	100		
<i>Enterobacter cloacae</i>	4	10	0	0	0	100	100		0	0			0				100		100	100	100	100		
<i>Serratia marcescens</i>	4	10	0	0	0	100	100		0	0			0				100		100	100	100	100		

ALL GRAM-POSITIVE BACTERIA	152	100	5	5	17	12	12	12	12	17				10	9				14					27
Coagulase-negative staphylococci	111	73																						
<i>Staphylococcus aureus</i> , all isolates	20	13			90	90	90	90	90					74	64	84			100				100	100
- methicillin-susceptible	18	12			100	100	100	100	100					71	71	82			100				100	100
- methicillin-resistant (MRSA)	2	1			0	0	0	0	0					100	0	100			100				100	100
Viridans group streptococci ^o	8	5								100													100	
<i>Enterococcus faecalis</i>	7	5	100	100	100																		100	
<i>Enterococcus faecium</i>	5	3	0	0	0																		100	
<i>Corynebacterium</i> species ^{♦♦}	1	1																						

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.
- ICUs include MSICU, NICU.

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.

^{♦♦} *Corynebacterium* species: Susceptibility testing is not routinely performed. All isolates are considered susceptible to vancomycin.

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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	Ceftriaxone (meningitis)	Ceftriaxone (non-meningitis)	Ceftazidime	Clindamycin	Erythromycin	Doxycycline	Ciprofloxacin	Moxifloxacin	Trimethoprim-Sulfamethoxazole	Gentamicin	Tobramycin	Amikacin	Vancomycin	Linezolid	
ALL BACTERIA	248	—	13	23			72	93	63		42	60									81							
ALL GRAM-NEGATIVE BACTERIA	143	100	17	35			59	97	45		8	41		59					85	65	97	87	93					
<i>Pseudomonas aeruginosa</i>	37	26					73	89						81					92		95	100	95					
<i>Haemophilus influenzae</i> ^{^^}	26	18	81																									
<i>Klebsiella pneumoniae</i>	17	12	0	82			88	100	100		50	94		94					94	100	100	100	100					
<i>Enterobacter cloacae</i>	13	9	0	0			0	100	100		0	0		0					100	100	100	100	100					
<i>Klebsiella aerogenes</i>	12	8	0	0			0	100	100		0	0		0					100	100	100	100	100					
<i>Serratia marcescens</i>	10	7	0	0			0	100	100		0	0		0					70	100	100	100	100					
<i>Stenotrophomonas maltophilia</i>	9	6																	100	100								
<i>Escherichia coli</i>	8	6	0	50			50	100	100		33	75		75					75		62	88	0	100				
ALL GRAM-POSITIVE BACTERIA	105	100	6	6	6		88	88	88	82	88	84		73	68				99								99	
<i>Staphylococcus aureus</i> , all isolates	95	90					91	91	91	91	91			74	69	95			100							100	100	
- methicillin-susceptible	86	82					100	100	100	100	100			72	70	95			100							100	100	
- methicillin-resistant (MRSA)	9	9					0	0	0	0	0			89	56	100			100							100	100	
<i>Streptococcus pneumoniae</i>	8	8				83	83						33	100					83	75		100				100		
Coagulase-negative staphylococci	1	1					0	0	0	0	0								0	0	0					100	100	
<i>Mycobacterium tuberculosis complex</i>	1	1																										

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- Susceptibility to doxycycline was predicted based on tetracycline susceptibility testing results.
- ICUs include MSICU, NICU.

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

	#	%	Ampicillin	Amoxicillin-Clavulanic acid	Penicillin	Penicillin IV (meningitis)	Penicillin IV (non-meningitis)	Piperacillin-Tazobactam	Meropenem	Ertapenem	Clotaxillin	Cefazolin	Ceftriaxone	Ceftriaxone (meningitis)	Ceftriaxone (non-meningitis)	Ceftazidime	Clindamycin	Erythromycin	Doxycycline	Ciprofloxacin	Moxifloxacin	Trimethoprim-Sulfamethoxazole	Gentamicin	Tobramycin	Amikacin	Vancomycin	Linezolid
ALL BACTERIA	44	—	11	25				69	81	64		48	57									71					
ALL GRAM-NEGATIVE BACTERIA	22	100	5	32				55	90	55		23	40			55					73	64	95	85	85		
<i>Escherichia coli</i>	6	27	0	67				67	100	100		50	83			83					67	67	100	100	100		
<i>Pseudomonas aeruginosa</i>	6	27						67	67							67					83		83	100	83		
<i>Klebsiella pneumoniae</i>	2	9	0	100				100	100	100		100	100			100					100	100	100	100			
<i>Serratia marcescens</i>	2	9	0	0				0	100	100		0	0			0					50	100	100	50	100		
<i>Stenotrophomonas maltophilia</i> [†]	2	9																			100	100					
ALL GRAM-POSITIVE BACTERIA	22	100	18	18	9			82	73	73	64	73	73				57	48				80				100	
<i>Staphylococcus aureus</i> , all isolates	11	50						82	82	82	82	82					64	55	91			100				100	100
- methicillin-susceptible	9	41						100	100	100	100	100					56	56	89			100				100	100
- methicillin-resistant (MRSA)	2	9						0	0	0	0	0					100	50	100			100				100	100
Coagulase-negative staphylococci	5	23						100	100	100	100	100					100	60	80			100				100	100
<i>Enterococcus faecium</i>	3	14	33	33				33																		100	
<i>Enterococcus faecalis</i>	1	5	100	100				100																		100	
<i>Streptococcus pneumoniae</i>	1	5				100	100							100	100				100			100				100	
Viridans group streptococci [°]	1	5			100							100														100	

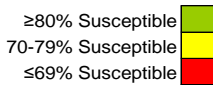
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- ° Viridans group streptococci: Please note that only a small proportion of these isolates were tested for susceptibilities. Please take this into consideration when interpreting the reported results.
 - † *S. maltophilia*: Susceptibility to moxifloxacin was predicted based on levofloxacin susceptibility testing results.

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Urine Isolates – % Susceptible

	#	%	Ampicillin	Amoxicillin-Clavulanic acid	Piperacillin-Tazobactam	Meropenem	Ertapenem	Cloxacillin	Cefazolin	Cephalexin	Ceftriaxone	Ceftazidime	Doxycycline	Ciprofloxacin	Trimethoprim-Sulfamethoxazole	Nitrofurantoin	Gentamicin	Tobramycin	Amikacin	Vancomycin	Linezolid



ALL BACTERIA	113	—	24	58	70	69	49		3	37	41			84	58	64					
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ALL GRAM-NEGATIVE BACTERIA	77	100		50	63	97	68			51	57	65		90	79	55	91	33	78		
<i>Escherichia coli</i>	35	45	0	77	83	100	100		0	80	86	86		83	83	97	83	0	100		
<i>Pseudomonas aeruginosa</i>	9	12			78	78						78		89			89	89	89		
<i>Klebsiella pneumoniae</i>	7	9	0	86	86	100			0	86	86	86		86	86	29	100				
<i>Proteus mirabilis</i>	7	9	0	83	86	100			0	71	86	86		100	100	0	100				
<i>Klebsiella aerogenes</i>	6	8	0	0	0	100	100		0	0	0	0		100	100	17	100	100	83		

ALL GRAM-POSITIVE BACTERIA	36	100	75	75	83	8	8	8	8	8	8		25	72	11	83					100
<i>Enterococcus faecalis</i>	26	72	100	100	100								15	96		100					100
<i>Enterococcus faecium</i>	6	17	17	17									17	17		0					100
<i>Staphylococcus aureus</i> , all isolates	4	11			75	75	75	75	75	75			100		100	100					100
- methicillin-susceptible	3	8			100	100	100	100	100	100			100		100	100					100
- methicillin-resistant (MRSA)	1	3			0	0	0	0	0	0			100		100	100					100

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