

Toronto Western Hospital ANTIBIOGRAM
Intensive Care Units
January 1, 2023 - December 31, 2023

Blood 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	229	—	12	19			39	40	37		27	31									52								
ALL GRAM-NEGATIVE BACTERIA	52	100	14	46			55	96	83		40	51			56					73	81	94	96	96					
<i>Escherichia coli</i>	12	23	42	83			83	100	100		75	83			83					58	75	100	100	100					
<i>Klebsiella pneumoniae</i>	12	23	0	75			75	100	100		75	75			75					67	92	83	92	100					
<i>Enterobacter cloacae</i>	8	15	0	0			0	100	88		0	0			0					88	75	100	100	100					
<i>Pseudomonas aeruginosa</i>	4	8					75	75							100					100		75	100	75					
<i>Klebsiella oxytoca</i>	3	6	0	67			100	100	100		0	100			100					100	100	100	100	100					
<i>Stenotrophomonas maltophilia</i> [†]	3	6																		100	100								
<i>Serratia marcescens</i>	3	6	0	0			0	100	100		0	0			0					67	100	100	100	100					
<i>Proteus mirabilis</i>	2	4	100	100			100	100	100		100	100			100					100	100	100	100	100					
<i>Citrobacter koseri</i>	2	4	0	0			0	100	100		0	0			0					100	100	100	100	100					
<i>Raoultella planticola</i>	1	2	0	100							100	100			100					100	100	100							
<i>Providencia stuartii</i>	1	2	0	0			0	100	100		0	0			0					100	100	100	100	100					
<i>Pantoea agglomerans</i>	1	2	0	0			0	100	100		0	0			0					100	100	100	100	100					
ALL GRAM-POSITIVE BACTERIA	177	100	11	11	1		34	24	24	23	23	26							32	15			43				99		
Coagulase-negative staphylococci	134	76					22	22	22	22	22								33	11	100		44				100	100	
<i>Enterococcus faecalis</i> , all isolates	17	10	100	100			100																				100	100	
- vancomycin-susceptible	17	10	100	100			100																				100	100	
- vancomycin-resistant (VRE)	0	0																											
<i>Staphylococcus aureus</i> , all isolates	14	8					79	79	79	79	72								85	70	93		100				100	100	
- methicillin-susceptible	11	6					100	100	100	100	91								90	80	100		100				100	100	
- methicillin-resistant (MRSA)	3	2					0	0	0	0	0								67	33	67		100				100	100	
<i>Enterococcus faecium</i> , all isolates	5	3	20	20			20																				80		
- vancomycin-susceptible	4	2	25	25			25																				100		
- vancomycin-resistant (VRE)	1	1	0	0			0																				0	100	
- vancomycin-susceptible (vanA+)	0	0																											
Viridans group streptococci [*]	4	2										75																100	
<i>Streptococcus pneumoniae</i>	1	1											100	100						100		100						100	
Group B streptococci ^{**}	1	1		100															0	0								100	
Group C streptococci ^{**}	1	1		100															0	0								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
- > 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" reflect estimates only based on the weighted average of susceptibilities for all
- > 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

Organism-Specific Notes:

- ** Beta-hemolytic streptococci:** Susceptibility testing to penicillin is not routinely performed since resistant strains have not been recognized. All isolates are considered susceptible to penicillin.
- *** 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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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	Cloxacillin	Cefazolin	Ceftriaxone	Ceftriaxone (meningitis)	Ceftriaxone (non-meningitis)	Ceftazidime	Clindamycin	Erythromycin	Doxycycline	Ciprofloxacin	Moxifloxacin	Trimethoprim-Sulfamethoxazole	Gentamicin	Tobramycin	Amikacin	Vancomycin	Linezolid
ALL BACTERIA	226	—	6	17			79	90		41	56									69					
ALL GRAM-NEGATIVE BACTERIA	121	100	3	24			71	93			32			70				76		45	92	83	79		
<i>Pseudomonas aeruginosa</i>	56	46					81	87						85				81			87	96	88		
<i>Escherichia coli</i>	16	13	0	56			75	94		0	75			75				62		62	100	50	50		
<i>Klebsiella pneumoniae</i>	14	12	0	93			86	100		0	93			93				79		93	100	100	100		
<i>Enterobacter cloacae</i>	8	7	0	0			0	100		0	0			0				100		100	100	100	100		
<i>Stenotrophomonas maltophilia</i> [†]	7	6																86		100					
<i>Serratia marcescens</i>	6	5	0	0			0	100		0	0			0				100		100	100	100	100		
<i>Proteus mirabilis</i>	4	3	100	100			100	100			100			100				75		75	100				
<i>Moraxella catarrhalis</i> [^]	4	3																							
<i>Klebsiella oxytoca</i>	3	2	0	100			100	100			100			100				100		100	100				
<i>Citrobacter koseri</i>	2	2	0	0			0	100		0	0			0				100		100	100	100	100		
<i>Burkholderia cepacia</i>	1	1						100						100						100					
ALL GRAM-POSITIVE BACTERIA	105	100	8	8	8		87	87	79	87	83				78	58				99				100	
<i>Staphylococcus aureus</i> , all isolates	93	89					88	88	88	88					77	69	94			99				100	100
- methicillin-susceptible	82	78					100	100	100	100					79	75	96			99				100	100
- methicillin-resistant (MRSA)	11	10					0	0	0	0					64	27	82			100				100	100
<i>Streptococcus pneumoniae</i>	11	10			78	78						33	67		80	64			100					100	
Coagulase-negative staphylococci	1	1					100	100	100	100					100	0	0			100				100	100

General Notes:

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- > 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.

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

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All Specimens – % Susceptible

#	%	Ampicillin	Amoxicillin-Clavulanic acid	Penicillin	Penicillin IV (meningitis)	Penicillin IV (non-meningitis)	Piperacillin-Tazobactam	Meropenem	Ertapenem	Clxacillin	Cefazolin	Ceftriaxone	Ceftriaxone (meningitis)	Ceftriaxone (non-meningitis)	Ceftazidime	Clindamycin	Erythromycin	Doxycycline	Ciprofloxacin	Moxifloxacin	Trimethoprim-Sulfamethoxazole	Gentamicin	Tobramycin	Amikacin	Vancomycin	Linezolid	
ALL BACTERIA	439	—	16	32			71	77	61		38	50									63						
ALL GRAM-NEGATIVE BACTERIA	235	100	7	38			65	96	65		22	45			65				73		61	92	90	93			
<i>Escherichia coli</i>	67	29	19	63			73	98	90		30	72			72				55		68	94	75	90			
<i>Pseudomonas aeruginosa</i>	61	26					80	90							84				83			84	96	88			
<i>Klebsiella pneumoniae</i>	38	16	0	79			84	100	100		69	87			87				74		87	92	93	100			
<i>Enterobacter cloacae</i>	20	9	0	0			0	100	95		0	0			0				95		90	100	100	100			
<i>Proteus mirabilis</i>	10	4	40	100			90	100	100		50	100			100				89		89	100	100	100	100		
<i>Stenotrophomonas maltophilia</i> *	9	4																		89	100						
<i>Serratia marcescens</i>	9	4	0	0			0	100	100		0	0			0				100		100	100	100	100			
<i>Citrobacter koseri</i>	8	3	0	0			0	100	100		0	0			0				100		100	100	100	100			
<i>Klebsiella oxytoca</i>	5	2	0	100			100	100	100		0	100			100				100		100	100	100	100			
<i>Moraxella catarrhalis</i> ^	4	2																									
<i>Morganella morganii</i>	1	0	0	0			0	100	100		0	0			0				100		100	100	100	100			
<i>Citrobacter freundii</i>	1	0	0	0			0	100	100		0	0			0				100		100	100	100	100			
<i>Raoultella planticola</i>	1	0	0	100							100	100			100				100		100	100					
<i>Providencia stuartii</i>	1	0	0	0			0	100	100		0	0			0				100		100	100	100	100			
ALL GRAM-POSITIVE BACTERIA	204	100	27	27	5		78	56	56	51	56	56							54	47					98		
Coagulase-negative staphylococci	23	11					43	43	43	43	43								52	30	96		74			100	100
<i>Staphylococcus aureus</i> , all isolates	108	53					88	88	88	88	88								80	72	95		99			100	100
- methicillin-susceptible	95	47					100	100	100	100	100								82	77	97		99			100	100
- methicillin-resistant (MRSA)	13	6					0	0	0	0	0								69	38	77		100			100	100
<i>Enterococcus faecalis</i> , all isolates	46	23	98	98			98																			100	
<i>Streptococcus pneumoniae</i>	12	6				78	78						50	75					80	67		100				100	
<i>Enterococcus faecium</i> , all isolates	11	5	0	0			0																			64	
- vancomycin-susceptible	7	3	0	0			0																			100	
- vancomycin-resistant (VRE)	4	2	0	0			0																			0	100
Viridans group streptococci*	4	2										75														100	

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

Year-Specific Notes:

- > All specimens exclude surveillance samples.

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.
- * 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.