

Toronto Western Hospital ANTIBIOGRAM
All Inpatients
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	1072	—	13	21			59	60	58		49	58									76						
ALL GRAM-NEGATIVE BACTERIA	241	100	28	65			75	100	90		52	70			76					75	75	90	93	98			
<i>Escherichia coli</i>	125	52	52	76			79	100	100		65	82			82					66	73	86	87	97			
<i>Klebsiella pneumoniae</i>	48	20	0	94			92	100	100		89	94			94					85	91	98	100	100			
<i>Pseudomonas aeruginosa</i>	17	7					100	94							100					88		81	100	94			
<i>Enterobacter cloacae</i>	16	7	0	0			0	100	94		0	0			0					88	81	94	94	100			
<i>Proteus mirabilis</i>	9	4	22	100			100	100	100		22	100			100					100	89	100	100	100			
<i>Klebsiella oxytoca</i>	8	3	0	88			100	100	100		0	100			100					100	100	100	100	100			
<i>Serratia marcescens</i>	5	2	0	0			0	100	100		0	0			0					80	100	100	100	100			
<i>Stenotrophomonas maltophilia</i> [†]	3	1																		100	100						
<i>Providencia stuartii</i>	3	1	0	0			0	100	100		0	0			0					67	100	100	100	100			
<i>Citrobacter koseri</i>	3	1	0	0			0	100	100		0	0			0					100	100	100	100	100			
<i>Citrobacter freundii</i>	2	1	0	0			0	100	100		0	0			0					100	100	100	100	100			
<i>Moraxella catarrhalis</i> [^]	2	1																									
ALL GRAM-POSITIVE BACTERIA	831	100	9	9	3		54	49	49	45	49	55			67	44					76					100	
Coagulase-negative staphylococci	606	73					51	51	51	51	51				73	43	94				80					100	100
<i>Staphylococcus aureus</i> , all isolates	81	10					85	85	85	85	84				86	76	94				100					100	100
- methicillin-susceptible	69	8					100	100	100	100	99				85	78	97				100					100	100
- methicillin-resistant (MRSA)	12	1					0	0	0	0	0				92	67	75				100					100	100
<i>Enterococcus faecalis</i> , all isolates	46	6	98	98			96																			100	
- vancomycin-susceptible	46	6	98	98			96																			100	
- vancomycin-resistant (VRE)	0	0																									
Viridans group streptococci [*]	36	4											97													100	
<i>Streptococcus pneumoniae</i>	21	3												95	100					72		100				100	
<i>Enterococcus faecium</i> , all isolates	15	2	13	13			13																			87	
- vancomycin-susceptible	13	2	15	15			15																			100	
- vancomycin-resistant (VRE)	2	0	0	0			0																			0	100
- vancomycin-susceptible (vanA+)	0	0																									
Group A streptococci**	14	2			100										93	72										100	
Group G streptococci**	7	1			100										57	57										100	
Group B streptococci**	5	1			100										20	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 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

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.

** 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

	#	%	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	277	—	3	12				78	86	50			36	50													63														
ALL GRAM-NEGATIVE BACTERIA	154	100	3	19				72	89	24			25			72			79		37	88	85	81																	
<i>Pseudomonas aeruginosa</i>	86	56						82	84							85			84																						
<i>Escherichia coli</i>	16	10	0	56				75	94	33		0	75			75			62		62	100	50	50																	
<i>Klebsiella pneumoniae</i>	14	9	0	93				86	100	100		0	93			93			79		93	100	100	100																	
<i>Enterobacter cloacae</i>	9	6	0	0				0	100	100		0	0			0			100		100	100	100	100																	
<i>Stenotrophomonas maltophilia</i> ¹	7	5																		86	100																				
<i>Serratia marcescens</i>	6	4	0	0				0	100	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>Citrobacter koseri</i>	4	3	0	0				0	75	75		0	0			0			100		100	75	75	75																	
<i>Klebsiella oxytoca</i>	3	2	0	100				100	100				100			100			100		100	100	100																		
<i>Burkholderia cepacia</i>	1	1						100								100					100																				
ALL GRAM-POSITIVE BACTERIA	123	100	4	4	7			85	82	82	78	82	80			74	65				97																				
<i>Staphylococcus aureus</i> , all isolates	107	87						88	88	88	88	88				74	67	95			99																				
- methicillin-susceptible	94	76						100	100	100	100	100				76	73	97			99																				
- methicillin-resistant (MRSA)	13	11						0	0	0	0	0				62	23	77			100																				
<i>Staphylococcus lugdunensis</i>	0	0																																							
<i>Streptococcus pneumoniae</i>	12	10				70	70																																		
Coagulase-negative staphylococci	2	2						100	100	100	100	100				100	50	50			100																				
<i>Mycobacterium tuberculosis complex</i>	2	2																																							

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

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

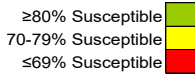
Toronto Western Hospital ANTIBIOGRAM

All Inpatients

January 1, 2023 - December 31, 2023

All Urine Isolates – % Susceptible

	#	%	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	1235	—	24	63		76	76	65		7	2	51		23	76	55	68					
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	#	%	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 GRAM-NEGATIVE BACTERIA	916	100	6	59		74	99	85		7		66	75	21	75	72	63	93	53	91		
<i>Escherichia coli</i>	498	54	9	69		77	100	97		5	0	79	79	10	64	74	95	91	37	89		
<i>Klebsiella pneumoniae</i>	140	15	0	83		86	100	100		15		88	88	100	82	86	30	96	69	100		
<i>Pseudomonas aeruginosa</i>	92	10				92	95						95		93			98	99	98		
<i>Proteus mirabilis</i>	57	6	20	95		98	100	100		25		98	98		89	82	0	89	25	100		
<i>Enterobacter cloacae</i>	30	3	0	0		0	100	90		0	0	0	0		93	87	47	100	100	100		
<i>Klebsiella oxytoca</i>	30	3	0	90		97	100					100	100		97	97	87	100				
<i>Morganella morganii</i>	23	3	0	0		0	100	100		0	0	0	0		78	83	4	91	100	100		
<i>Citrobacter koseri</i>	20	2	0	0		5	100	100		0	0	0	0	0	100	100	85	100	100	100		
<i>Serratia marcescens</i>	7	1	0	0		0	100	100		0	0	0	0		100	100	0	100	100	100		
<i>Providencia stuartii</i>	6	1	0	0		0	100	100		0	0	0	0		67	100	0	100	100	100		
<i>Citrobacter freundii</i>	5	1	0	0		0	100	100		0	0	0	0		80	100	80	100	100	100		
<i>Providencia rettgeri</i>	4	0	0	0		0	100	100		0	0	0	0		100	100	25	100	100	100		
<i>Citrobacter amalonaticus</i>	2	0	0	0		0	100	100		0	0	0	0		100	100	50	100	100	100		
<i>Stenotrophomonas maltophilia</i>	1	0														100	0					
<i>Citrobacter braakii</i>	1	0	0	0		0	100	100		0	0	0	0		100	100	100	100	100	100		

	#	%	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 GRAM-POSITIVE BACTERIA	319	100	76	76		83	7	7	7	7	7	7		31	77	9	82				96	100
<i>Enterococcus faecalis</i> , all isolates	237	74	99	99		99								28	92		97				100	100
- vancomycin-susceptible	237	74	99	99		99								28	92		97				100	100
- vancomycin-resistant (VRE)	0	0																				
<i>Enterococcus faecium</i> , all isolates	52	16	9	9		9								14	9		6				77	100
- vancomycin-susceptible	40	13	12	12		12								18	12		8				100	100
- vancomycin-resistant (VRE)	12	4	0	0		0								0	0		0				0	100
- vancomycin-susceptible (vanA+)	0	0																				
<i>Staphylococcus aureus</i> , all isolates	28	9				79	79	79	79	75	75			85	79	100	96				100	100
- methicillin-susceptible	22	7				100	100	100	100	95	95			86	100	100	95				100	100
- methicillin-resistant (MRSA)	6	2				0	0	0	0	0	0			83		100	100				100	100
<i>Enterococcus</i> species	1	0	100	100		100								0	100		0				100	
<i>Enterococcus casseliflavus</i>	1	0	100	100		100								100	100		100				100	#N/A

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