

Toronto Western Hospital ANTIBIOGRAM
Wards other than ICUs/Emergency
January 1, 2024 - December 31, 2024

Blood 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
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ALL BACTERIA	951	—	16	27					61	67	65		52	60									82					
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ALL GRAM-NEGATIVE BACTERIA	264	100	24	61					72	99	92		46	69			74				67		77	92	90	98		
<i>Escherichia coli</i>	141	53	41	64					72	100	100		52	75			75				51		78	89	84	98		
<i>Klebsiella pneumoniae</i>	57	22	0	80					82	98	96		72	84			84				81		84	98	96	100		
<i>Proteus mirabilis</i>	21	8	26	100					95	100	100		29	100			100				85		84	90	90	100		
<i>Pseudomonas aeruginosa</i>	15	6							93	87							93				93			93	100	87		
<i>Enterobacter cloacae</i>	11	4	0	0					0	100	100		0	0			0				100		100	100	100	100		
<i>Klebsiella aerogenes</i>	5	2	0	0					0	100	100		0	0			0				80		100	100	100	100		

ALL GRAM-POSITIVE BACTERIA	687	100	14	14	8				56	55	55	45	55	56				65	46				84				99	
Coagulase-negative staphylococci	483	70							48	48	48	48	48					66	42	89			88				100	100
<i>Staphylococcus aureus</i> , all isolates	90	13							88	88	88	88	88					79	69	98			99				100	100
- methicillin-susceptible	79	11							100	100	100	100	100					77	70	99			99				100	100
- methicillin-resistant (MRSA)	11	2							0	0	0	0	0					90	60	90			100				100	100
<i>Enterococcus faecalis</i> , all isolates	25	4	100	100					100																		100	
- vancomycin-susceptible	25	4	100	100					100																		100	
Group A streptococci**	21	3			100													86	75								100	
Viridans group streptococci *	18	3			50								94														100	
<i>Streptococcus pneumoniae</i>	17	2				0	0							94	100			100	75			100					100	
<i>Enterococcus faecium</i> , all isolates	8	1	13	13					13																		47	
- vancomycin-susceptible	5	1	20	20					20																		75	
- vancomycin-resistant (VRE)	3	0	0	0					0																		0	100
Group B streptococci**	8	1			100													62	62								100	
<i>Streptococcus anginosus</i> group **	8	1			88								100														100	
Group G streptococci**	6	1			100													67	67								100	
<i>Staphylococcus lugdunensis</i>	6	1							83	83	83	83	83					67	50	83			100				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:

- ** 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. 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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Wards other than ICUs/Emergency

January 1, 2024 - December 31, 2024

Respiratory Isolates – % Susceptible

		<div>≥80% Susceptible</div> <div>70-79% Susceptible</div> <div>≤69% Susceptible</div>																								
#	%	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	63	—	21	29		83	90	32		25	56								52						
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ALL GRAM-NEGATIVE BACTERIA	44	100	23	34		83	93	9		43			79					80		37	79	79	68		
<i>Pseudomonas aeruginosa</i>	18	41				94	83						94					89		67	100	83			
<i>Haemophilus influenzae</i> ^{^^}	11	25	73																						
<i>Klebsiella aerogenes</i>	3	7	0	0		0	100	100		0	0			0				67		100	100	100	100		
<i>Moraxella catarrhalis</i> [^]	3	7																							
<i>Escherichia coli</i>	2	5	0	50		50	100			0	50			50				50		100	100				
<i>Klebsiella pneumoniae</i>	2	5	0	50		50	100			0	50			50				100		50	100				
<i>Proteus mirabilis</i>	2	5	100	100		100	100			100				100				100		100	100				
<i>Stenotrophomonas maltophilia</i> [‘]	2	5																100	100						

ALL GRAM-POSITIVE BACTERIA	19	100	16	16			84	84	84	68	84	84				95	84				82				
<i>Staphylococcus aureus</i> , all isolates	15	79					87	87	87	87	87					100	93	86			87			100	100
- methicillin-susceptible	13	68					100	100	100	100	100					100	92	92			85			100	100
- methicillin-resistant (MRSA)	2	11					0	0	0	0	0	0				100	100	50			100			100	100
<i>Streptococcus pneumoniae</i>	3	16			100	100							100	100		100	67			100				100	
<i>Mycobacterium tuberculosis</i> complex	1	5																							

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.

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.
- ^{^^} *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.

Toronto Western Hospital ANTIBIOGRAM

Wards other than ICUs/Emergency

January 1, 2024 - December 31, 2024

Urine Isolates — % Susceptible

		<div>≥80% Susceptible</div> <div>70-79% Susceptible</div> <div>≤69% Susceptible</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	1135	—	18	62	73	80	71	7	2	53	7	73	60	68						
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ALL GRAM-NEGATIVE BACTERIA	898	100	3	59	71	99	88	6	64	73	75	73	64	94	59	96				
<i>Escherichia coli</i>	510	57	3	70	74	100	100	8	78	78	0	66	76	97	93	41	97			
<i>Klebsiella pneumoniae</i>	120	13	0	86	88	99	80	0	91	91	0	82	88	30	97	71	86			
<i>Pseudomonas aeruginosa</i>	80	9			98	99					97		94		96	100	99			
<i>Proteus mirabilis</i>	58	6	25	95	95	100	100	25	97	97		88	79	0	95	67	100			
<i>Enterobacter cloacae</i>	39	4	0	0	0	97	95	0	0	0	0	92	92	31	95	97	100			
<i>Klebsiella aerogenes</i>	19	2	0	0	0	100	100	0	0	0	0	0	84	100	26	100	100			
<i>Klebsiella oxytoca</i>	18	2	0	78	78	100	100	0	78	78		89	94	78	94	50	100			
<i>Morganella morganii</i>	17	2	0	0	0	100	100	0	0	0	0	65	76	0	94	88	100			
<i>Citrobacter koseri</i>	9	1	0	0	0	100	100	0	0	0	0	100	100	78	100	100	100			
<i>Citrobacter freundii</i>	7	1	0	0	0	100	100	0	0	0	0	100	86	100	100	86	100			
<i>Serratia marcescens</i>	7	1	0	0	0	100	100	0	0	0	0	71	100	0	100	100	100			

ALL GRAM-POSITIVE BACTERIA	237	100	75	75	84	9	9	9	9	9	9	31	67	10	82				94	
<i>Enterococcus faecalis</i> , all isolates	175	74	100	100	100							27	89		97				98	100
- vancomycin-susceptible	172	73	100	100	100							27	91		99				100	100
- vancomycin-resistant (VRE)	3	1	100	100	100							0	0		0				0	100
<i>Enterococcus faecium</i> , all isolates	38	16	13	13	13							18	11		10				79	100
- vancomycin-susceptible	30	13	17	17	17							23	14		13				100	100
- vancomycin-resistant (VRE)	8	3	0	0	0							0	0		0				0	100
<i>Staphylococcus aureus</i> , all isolates	22	9			91	91	91	91	91	91		91		100	100				100	100
- methicillin-susceptible	20	8			100	100	100	100	100	100		90		100	100				100	100
- methicillin-resistant (MRSA)	2	1			0	0	0	0	0	0		100		100	100				100	100
<i>Staphylococcus lugdunensis</i>	3	1			100	100	100	100	100	100		100		100	100				100	100
Coagulase-negative staphylococci	1	0			0	0	0	0	0	0		100		100	100				100	100
<i>Staphylococcus saprophyticus</i> “	1	0																		

General Notes:

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

Organism-Specific Notes:

“ *S. saprophyticus*: Susceptibility testing is not routinely performed. Most urinary tract infections due to this organism respond to nitrofurantoin, trimethoprim/sulfamethoxazole or fluoroquinolones.

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January 1, 2024 - December 31, 2024

All Specimens — % Susceptible

	#	%	Ampicillin	Amoxicillin-Clavulanic acid	Penicillin	Penicillin IV (meningitis)	Penicillin IV (non-meningitis)	Piperacillin-Tazobactam	Meropenem	Ertapenem	Clavacillin	Cefazolin	Cephalexin	Ceftriaxone	Ceftriaxone (meningitis)	Ceftriaxone (non-meningitis)	Cefazidime	Clindamycin	Erythromycin	Doxycycline	Ciprofloxacin	Moxifloxacin	Trimethoprim-Sulfamethoxazole	Nitrofurantoin	Gentamicin	Tobramycin	Amikacin	Vancomycin	Linezolid

ALL BACTERIA	2040	—	24	48				72	78	69	37	16	57							42	81		65	70					
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ALL GRAM-NEGATIVE BACTERIA	1216	100	15	56				72	99	84		28		62			74			26	75		71	58	94	85	98			
Escherichia coli	613	50	25	69				75	100	100		35		79			79			38	64		77	96	92	77	98			
Klebsiella pneumoniae	164	13	0	84				87	99	95		62		89			89			0	84		86	23	98	95	98			
Pseudomonas aeruginosa	154	13						96	96								96				88					93	99	97		
Proteus mirabilis	86	7	29	96				95	100	100		28		98			98			0	87		81	1	94	85	100			
Enterobacter cloacae	58	5	0	0				0	98	98	0	0	0	0			0			100	95		93	28	97	98	100			
Klebsiella oxytoca	25	2	0	80				76	100	100		8		80			80				88		92	76	92	78	100			
Klebsiella aerogenes	23	2	0	0				0	100	100		0	0	0	0		0			0	91		100	26	100	100	100			
Morganella morganii	21	2	0	0				0	100	100		0	0	0	0		0				71		81	0	95	90	100			
Citrobacter koseri	14	1	0	0				0	100	100		0	0	0	0		0			100	100		100	71	100	100	100			
Citrobacter freundii	13	1	0	0				0	100	100		0	0	0	0		0				100		92	100	100	92	100			
Haemophilus influenzae^^	13	1	69																											
Serratia marcescens	13	1	0	0				0	100	100		0	0	0	0		0				85		100	0	100	100	100			
Moraxella catarrhalis^	7	1																												
Stenotrophomonas maltophilia^	7	1																				86	100	0						
Providencia rettgeri	5	0	0	0				0	100	100		0	0	0	0		0				100		100	0	100	100	100			

ALL GRAM-POSITIVE BACTERIA	824	100	36	36	12			72	48	48	36	48	39	50				49	39	67	89		56	89				94
Coagulase-negative staphylococci	642	78						47	47	47	47	47						66	42	88	100		79	100			100	100
<i>Staphylococcus aureus</i> , all isolates	283	34						82	82	82	82	82	82					79	67	96	100		98	98			100	100
- methicillin-susceptible	238	29						98	98	98	98	98	98					79	69	97	100		98	99			100	100
- methicillin-resistant (MRSA)	45	5						0	0	0	0	0	0					81	56	88	100		96	91			100	100
<i>Enterococcus faecalis</i> , all isolates	199	24	100	100				100											27	93			99				100	100
- vancomycin-susceptible	199	24	100	100				100											27	93			99				100	100
<i>Enterococcus faecium</i> , all isolates	52	6	11	11				11											17	14			14				73	100
- vancomycin-susceptible	39	5	15	15				15											23	19			19				97	100
- vancomycin-resistant (VRE)	13	2	0	0				0											0	0			0				0	100
<i>Streptococcus anginosus</i> group [†]	34	4			91								97														100	
Group A streptococci**	32	4			100													88	74							100		
Viridans group streptococci [*]	23	3			57								96														100	
<i>Streptococcus pneumoniae</i>	21	3				67	67								94	100		100	74	100		100				100		
<i>Staphylococcus lugdunensis</i>	20	2						80	80	80	80	80	80					80	75	90		100	100			100	100	
Group B streptococci**	14	2			100													46	46							100		
Group G streptococci**	8	1			100													71	71							100		
<i>Mycobacterium tuberculosis</i> complex	8	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.
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- 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 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.
- ^{^^} 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.
- ^{**} 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.
- ^{**} 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.