

Toronto Western Hospital ANTIBIOGRAM
All Inpatients
January 1, 2016 - December 31, 2016

All 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	711	—	39	68		80	77	71			35	56		7	75	56	74						
ALL GRAM-NEGATIVE BACTERIA	534	100	25	64		76	99	91			44	72	78		79	71	68	92	92	100			
<i>Escherichia coli</i>	339	63	31	70		79	100	100			41	82	82		72	72	96	91	91	100			
<i>Klebsiella pneumoniae</i>	65	12	0	86		85	100	98			82	88	88		89	88	28	92	91	100			
<i>Pseudomonas aeruginosa</i>	39	7				87	95						90		90			95	100	100			
<i>Proteus mirabilis</i>	37	7	78	100		100	100	100			92	100	100		89	84	0	95	97	100			
<i>Enterobacter cloacae</i>	20	4	0	0		0	100	85			0	0	0		100	85	35	100	100	100			
<i>Klebsiella oxytoca</i>	9	2	0	100		100	100	100			89	100	100		100	100	100	100	100	100			
<i>Morganella morganii</i>	8	1	0	0		0	100	100			0	0	0		75	75	0	75	88	100			
ALL GRAM-POSITIVE BACTERIA	177	100	81	81		90	10	10	10	10	9	10			29	66	10	92				99	
<i>Enterococcus faecalis</i> , all isolates	138	78	99	99		99									16	82		98				100	100
- vancomycin-susceptible	138	78	99	99		99									16	82		98				100	100
- vancomycin-resistant (VRE)	0	0																					
<i>Enterococcus faecium</i> , all isolates	18	10	17	17		17									72	11		33				94	100
- vancomycin-susceptible	17	10	18	18		18									76	12		35				100	100
- vancomycin-resistant (VRE)	1	1	0	0		0									0	0		0				0	100
- vancomycin-susceptible (vanA+)	0	0																					
<i>Staphylococcus aureus</i> , all isolates	17	10				94	94	94	94	94	94				89		100	100				100	100
- methicillin-susceptible	16	9				100	100	100	100	100	100				88		100	100				100	100
- methicillin-resistant (MRSA)	1	1				0	0	0	0	0	0	0			100		100	100				100	100
<i>Enterococcus</i> species	2	1	100	100		100									0	50		100				100	
Coagulase-negative staphylococci	1	1				100	100	100	100	100					100		100	100				100	100
<i>Enterococcus gallinarum</i>	1	1	100	100		100									0	100		100				0	

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:

- Susceptibility for cefazolin are not available for Gram-negative isolates from non-sterile site specimens for the current year.

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All Inpatients
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All Non-Urine Isolates — % Susceptible

			<div><div>≥80% Susceptible</div><div>70-79% Susceptible</div><div>≤69% Susceptible</div></div>																									
	#	%	Ampicillin	Amoxicillin-Clavulanic acid	Penicillin	Penicillin IV (meningitis)	Penicillin IV (non-meningitis)	Piperacillin-Tazobactam	Meropenem	Ertapenem	Cloxacillin	Cefazolin	Ceftriaxone	Ceftazidime	Clindamycin	Erythromycin	Doxycycline	Ciprofloxacin	Moxifloxacin	Trimethoprim-Sulfamethoxazole	Gentamicin	Tobramycin	Amikacin	Vancomycin	Linezolid			
ALL BACTERIA	1073	—	14	23				65	73	59			56							73								
ALL GRAM-NEGATIVE BACTERIA	400	100	18	43				68	99	61			50	71				79		62	94	93	99					
<i>Escherichia coli</i>	105	26	30	65				76	100	100			78	78				61		75	88	86	99					
<i>Pseudomonas aeruginosa</i>	97	24						78	95					91				88			96	98	99					
<i>Klebsiella pneumoniae</i>	41	10	0	82				82	100	100			85	85				82		87	97	92	100					
<i>Haemophilus influenzae</i> ^^	36	9	69																									
<i>Enterobacter cloacae</i>	35	9	0	0				0	100	94			0	0				97		91	100	100	100					
<i>Proteus mirabilis</i>	21	5	70	90				100	100	100			100	100				90		80	95	95	100					
<i>Klebsiella oxytoca</i>	14	4	0	100				100	100	100			100	100				100		100	100	100	100					
<i>Serratia marcescens</i>	12	3	0	0				0	100	92			0	0				92		100	100	92	100					
<i>Stenotrophomonas maltophilia</i> [^]	10	3																	60	100								
<i>Enterobacter aerogenes</i>	7	2	0	0				0	100	100			0	0				100		100	100	100	100					
<i>Moraxella catarrhalis</i> [^]	7	2																										
<i>Morganella morganii</i>	6	2	0	0				0	100	100			0	0				100		80	80	80	100					
<i>Citrobacter koseri</i>	6	2	0	0				0	100	100			0	0				100		100	100	100	100					
ALL GRAM-POSITIVE BACTERIA	673	100	11	11	6			63	58	58	52	58	59		67	52				79					98			
Coagulase-negative staphylococci	304	45						38	38	38	38	38			64	39	94			75				100	100			
<i>Staphylococcus aureus</i> , all isolates	263	39						88	88	88	88	88			82	76	97			99				100	100			
- methicillin-susceptible	232	34						100	100	100	100	100			84	82	98			100				100	100			
- methicillin-resistant (MRSA)	31	5						0	0	0	0	0			68	32	90			94				100	100			
<i>Enterococcus faecalis</i> , all isolates	33	5	97	97				97																	100			
- vancomycin-susceptible	33	5	97	97				97																	100			
- vancomycin-resistant (VRE)	0	0																										
Viridans group streptococci [^]	18	3			67								100												100			
<i>Streptococcus pneumoniae</i>	14	2				57	86								86	71			93						100			
<i>Mycobacterium tuberculosis</i> complex	13	2																										
Group B streptococci**	10	1			100										60	40									100			
<i>Enterococcus faecium</i> , all isolates	7	1	14	14				14																	100			
- vancomycin-susceptible	7	1	14	14				14																	100			
- vancomycin-resistant (VRE)	0	0																										
- vancomycin-susceptible (vanA+)	0	0																										
Group A streptococci**	6	1			100										100	100									100			
Group G streptococci**	5	1			100										100	80									100			

General Notes:

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

Year-Specific Notes:

- Susceptibility for ceftazolin are not available for Gram-negative isolates from non-sterile site specimens for the current year.

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.