

**Toronto Western Hospital ANTIBIOGRAM
Emergency Department
January 1, 2016 - December 31, 2016**

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
ALL BACTERIA	494	—	19	33			70	77	75		60	73									79					
ALL GRAM-NEGATIVE BACTERIA	177	100	31	70			78	100	95		52	77			80					73	75	90	87	100		
<i>Escherichia coli</i>	114	64	39	73			80	100	100		60	83			83					67	74	87	82	100		
<i>Klebsiella pneumoniae</i>	21	12	0	95			95	100	100		90	95			95					90	95	95	95	100		
<i>Proteus mirabilis</i>	13	7	46	100			100	100	100		30	100			100					62	69	100	100	100		
<i>Enterobacter cloacae</i>	8	5	0	0			0	100	100		0	0			0					100	88	100	100	100		
<i>Pseudomonas aeruginosa</i>	5	3					100	100							100					100		100	100	100		
ALL GRAM-POSITIVE BACTERIA	317	100	13	13	11		66	64	64	53	64	70				63	42				82				100	
Coagulase-negative staphylococci	207	65					62	62	62	62	62					62	36	91			81				100	100
<i>Staphylococcus aureus</i> , all isolates	47	15					88	88	88	88	88					68	57	98			100				100	100
- methicillin-susceptible	42	13					98	98	98	98	98					69	64	98			100				100	100
- methicillin-resistant (MRSA)	5	2					0	0	0	0	0					60	0	100			100				100	100
Viridans group streptococci*	17	5										94													100	
Group B streptococci**	15	5		100												53	53								100	
Group G streptococci**	7	2		100												86	57								100	
<i>Streptococcus pneumoniae</i>	8	3			50	50							100	100		75	75				88				100	
<i>Enterococcus faecalis</i> , all isolates	6	2	100	100			100																		100	
- vancomycin-susceptible	6	2	100	100			100																		100	
- vancomycin-resistant (VRE)	0	0																								
Group A streptococci**	6	2		100												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.

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Respiratory Isolates – % Susceptible

			≥80% Susceptible ■ 70-79% Susceptible ■ ≤69% Susceptible ■			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	31	—	19	32					70	87	32				50							38					
ALL GRAM-NEGATIVE BACTERIA	22	100	18	36					76	100	23				57	77				60		20	79	93	86		
<i>Pseudomonas aeruginosa</i>	8	36							50	100						75				62			88	100	88		
<i>Haemophilus influenzae</i> ^{^^}	5	23	80																								
<i>Escherichia coli</i>	3	14	0	67					100	100	100			100	100					67	0	67	67	100			
<i>Moraxella catarrhalis</i> [^]	2	9																									
<i>Klebsiella pneumoniae</i>	1	5	0	100					100	100	100			100	100					100		100	100	100	100		
<i>Stenotrophomonas maltophilia</i> [†]	1	5																		100	100						
<i>Serratia marcescens</i>	1	5	0	0					0	100	100			0	0					100		100	100	100	100		
<i>Acinetobacter baumannii</i> complex	1	5							100	100				100	0					0	0	0	100				
ALL GRAM-POSITIVE BACTERIA	9	100	22	22	22				56	56	56	33	56	33			56	45				83				100	
Coagulase-negative staphylococci	5	56							40	40	40	40	40				20	20	100			80				100	100
<i>Staphylococcus aureus</i> , all isolates	1	11							100	100	100	100	100				100	100	100			100				100	100
- methicillin-susceptible	1	11							100	100	100	100	100				100	100	100			100				100	100
- methicillin-resistant (MRSA)	0	0																									
<i>Streptococcus pneumoniae</i>	3	33			67	67											100	67			100					100	

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- 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.

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.

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Skin, Wound and Abscess Isolates – % Susceptible

≥80% Susceptible ■ 70-79% Susceptible ■ ≤69% Susceptible ■	#	%	Ampicillin	Amoxicillin-Clavulanic acid	Penicillin	Piperacillin-Tazobactam	Meropenem	Ertapenem	Cloxacillin	Cefazolin	Ceftriaxone	Ceftazidime	Clindamycin	Erythromycin	Doxycycline	Ciprofloxacin	Moxifloxacin	Trimethoprim-Sulfamethoxazole	Gentamicin	Tobramycin	Amikacin	Vancomycin	Linezolid
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ALL BACTERIA	160	—	9	14		81	86	73			67							79					
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ALL GRAM-NEGATIVE BACTERIA	48	100	15	31		73	98	54			35	75					84	44	96	98	100		
<i>Pseudomonas aeruginosa</i>	22	46				86	95					86					82		91	95	100		
<i>Escherichia coli</i>	9	19	56	67		78	100	100			89	89					67	67	100	100	100		
<i>Klebsiella pneumoniae</i>	4	8	0	100		100	100	100			100	100					100	100	100	100	100		
<i>Enterobacter cloacae</i>	4	8	0	0		0	100	100			0	0					100	100	100	100	100		
<i>Proteus mirabilis</i>	3	6	67	100		100	100	100			100	100					67	33	100	100	100		
<i>Serratia marcescens</i>	3	6	0	0		0	100	100			0	0					100	100	100	100	100		

ALL GRAM-POSITIVE BACTERIA	112	100	6	6	2	85	80	80	79	80	80			80	68			95					99	
<i>Staphylococcus aureus</i> , all isolates	100	89				85	85	85	85	85				83	70	97		100					100	100
- methicillin-susceptible	85	76				100	100	100	100	100				84	79	96		100					100	100
- methicillin-resistant (MRSA)	15	13				0	0	0	0	0				80	20	100		100					100	100
<i>Enterococcus faecalis</i> , all isolates	5	4	100	100		100																	100	
- vancomycin-susceptible	5	4	100	100		100																	100	
- vancomycin-resistant (VRE)	0	0																						
Coagulase-negative staphylococci	4	4				75	75	75	75	75				100	100	100		100					100	100
Group A streptococci**	1	1				100								100	100								100	
Group G streptococci**	1	1				100								100	100								100	
<i>Mycobacterium tuberculosis</i> complex	1	1																						

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