

**Toronto Western Hospital ANTIBIOGRAM
Emergency Department
January 1, 2017 - December 31, 2017**

Blood Isolates – % Susceptible

	#	%	Antibiotics																								
			Ampicillin	Amoxicillin-Clavulanic acid	Penicillin	Penicillin IV (meningitis)	Penicillin IV (non-meningitis)	Piperacillin-Tazobactam	Meropenem	Ertapenem	Cloxacillin	Cefazolin	Ceftaxone	Ceftriaxone (meningitis)	Ceftriaxone (non-meningitis)	Ceftazidime	Clindamycin	Erythromycin	Doxycycline	Ciprofloxacin	Moxifloxacin	Trimethoprim-Sulfamethoxazole	Gentamicin	Tobramycin	Amikacin	Vancomycin	Linezolid
ALL BACTERIA	506	—	16	30			68	73	70		58	71									79						
ALL GRAM-NEGATIVE BACTERIA	163	100	25	69			79	100	92		52	77			83					80		75	89	89	100		
<i>Escherichia coli</i>	102	63	33	71			79	100	100		59	82			82					73		69	84	84	100		
<i>Klebsiella pneumoniae</i>	27	17	0	100			96	100	100		93	100			100					100		100	100	100	100		
<i>Proteus mirabilis</i>	9	6	56	100			100	100	100		0	100			100					67		89	100	100	100		
<i>Pseudomonas aeruginosa</i>	8	5					100	100							100					88		88	88	100			
<i>Enterobacter cloacae</i>	4	2	0	0			0	100	100		0	0			0					100		100	100	100			
ALL GRAM-POSITIVE BACTERIA	343	100	12	12	9		63	60	60	51	60	68									81					99	
Coagulase-negative staphylococci	232	68					59	59	59	59	59				65	47	100				82					100	100
<i>Staphylococcus aureus</i> , all isolates	42	12					93	93	93	93	93				78	65	93				100					100	100
- methicillin-susceptible	39	11					100	100	100	100	100				76	70	95				100					100	100
- methicillin-resistant (MRSA)	3	1					0	0	0	0	0				100	0	67				100					100	100
Viridans group streptococci*	25	7										100														100	
Group B streptococci**	11	3			100										64	64										100	
<i>Streptococcus pneumoniae</i>	9	3				78	78						100	100	67	56				89						100	
Group A streptococci**	8	2			100										75	75										100	
<i>Enterococcus faecalis</i> , all isolates	7	2	100	100			100																			100	
- vancomycin-susceptible	7	2	100	100			100																			100	
- vancomycin-resistant (VRE)	0	0																									
<i>Enterococcus faecium</i> , all isolates	5	1	60	60			60																			80	
- vancomycin-susceptible	4	1	75	75			75																			100	
- vancomycin-resistant (VRE)	1	0	0	0			0																			0	100
- vancomycin-susceptible (vanA+)	0	0																									
Group G streptococci**	4	1			100										100	75										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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Skin, Wound and Abscess Isolates – % Susceptible

		<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: left;"> <p>≥80% Susceptible ■</p> <p>70-79% Susceptible ■</p> <p>≤69% Susceptible ■</p> </div> <div style="text-align: center;"> <p># %</p> </div> </div>																					
		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	
ALL BACTERIA	173	—	7	9	86	86	73			70							82						
ALL GRAM-NEGATIVE BACTERIA	38	100	13	24	84	97	37			24	84					84	39	100	95	100			
<i>Pseudomonas aeruginosa</i>	23	61			100	100					100					83		100	100	100			
<i>Escherichia coli</i>	5	13	40	80	80	100	100			80	80					60		100	100	80	100		
<i>Proteus mirabilis</i>	3	8	100	100	100	100	100			100	100					100		100	100	100	100		
<i>Klebsiella pneumoniae</i>	2	5	0	100	100	100	100			100	100					100		100	100	100	100		
<i>Enterobacter cloacae</i>	2	5	0	0	0	100	100			0	0					100		100	100	100	100		
<i>Serratia marcescens</i>	2	5	0	0	0	100	100			0	0					100		100	100	100	100		
ALL GRAM-POSITIVE BACTERIA	135	100	5	5	1	87	83	83	81	83	83			74	60			94				100	
<i>Staphylococcus aureus</i> , all isolates	128	95				86	86	86	86	86				76	62	96		97				100	100
- methicillin-susceptible	110	81				100	100	100	100	100				74	67	95		97				100	100
- methicillin-resistant (MRSA)	18	13				0	0	0	0	0				89	28	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																					
Group B streptococci**	1	1			100									100	100							100	
Group A streptococci**	1	1			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:

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

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.

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Urine Isolates – % Susceptible

	#	%	Antibiotics																					
			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	736	—	36	74		84	87	83				60	72		5	76	68	79						
ALL GRAM-NEGATIVE BACTERIA	622	100	29	74		83	99	96				68	82	86		78	76	76	92	92	100			
<i>Escherichia coli</i>	425	68	36	79		86	100	100				70	90	90		74	76	97	92	92	100			
<i>Klebsiella pneumoniae</i>	82	13	0	89		90	99	99				89	90	90		93	88	34	96	93	100			
<i>Proteus mirabilis</i>	37	6	78	97		100	100	100				97	100	100		78	78	0	89	89	100			
<i>Pseudomonas aeruginosa</i>	24	4				88	92									83			88	92	100			
<i>Klebsiella oxytoca</i>	16	3	0	88		88	100	100				88	94	94		100	100	94	100	94	100			
<i>Enterobacter cloacae</i>	11	2	0	0		0	100	91				0	0	0		82	100	82	91	82	100			
<i>Citrobacter koseri</i>	8	1	0	0		0	100	100				0	0	0		100	100	88	88	100	100			
<i>Morganella morganii</i>	6	1	0	0		0	100	100				0	0	0		33	80	0	67	67	83			
ALL GRAM-POSITIVE BACTERIA	114	100	73	73		89	16	16	16	16	16	16	16		36	66	15	93					100	
<i>Enterococcus faecalis</i> , all isolates	79	69	100	100		100									22	81		99					100	100
- vancomycin-susceptible	79	69	100	100		100									22	81		99					100	100
- vancomycin-resistant (VRE)	0	0																						
<i>Staphylococcus aureus</i> , all isolates	15	13				67	67	67	67	67	67				100		100	93					100	100
- methicillin-susceptible	10	9				100	100	100	100	100	100				100		100	90					100	100
- methicillin-resistant (MRSA)	5	4				0	0	0	0	0	0				100		100	100					100	100
<i>Staphylococcus saprophyticus</i>	11	10																						
<i>Enterococcus faecium</i> , all isolates	8	7	38	38		38									50	25		50					100	100
- vancomycin-susceptible	8	7	38	38		38									50	25		50					100	100
- vancomycin-resistant (VRE)	0	0																						
- vancomycin-susceptible (vanA+)	0	0																						
<i>Enterococcus gallinarum</i>	1	1	100	100		100									100	100		100					100	

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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:

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