

Toronto Western Hospital ANTIBIOGRAM
Intensive Care Units
January 1, 2017 - December 31, 2017

Blood Isolates – % Susceptible

		<div style="display: flex; align-items: center;"> <div style="margin-right: 10px;"> <p>≥80% Susceptible ■</p> <p>70-79% Susceptible ■</p> <p>≤69% Susceptible ■</p> </div> <div style="display: flex; flex-direction: column; gap: 5px;"> <div style="border: 1px solid black; padding: 2px;">Ampicillin</div> <div style="border: 1px solid black; padding: 2px;">Amoxicillin-Clavulanic acid</div> <div style="border: 1px solid black; padding: 2px;">Penicillin</div> <div style="border: 1px solid black; padding: 2px;">Piperacillin-Tazobactam</div> <div style="border: 1px solid black; padding: 2px;">Meropenem</div> <div style="border: 1px solid black; padding: 2px;">Ertapenem</div> <div style="border: 1px solid black; padding: 2px;">Cloxacillin</div> <div style="border: 1px solid black; padding: 2px;">Cefazolin</div> <div style="border: 1px solid black; padding: 2px;">Ceftriaxone</div> <div style="border: 1px solid black; padding: 2px;">Ceftazidime</div> <div style="border: 1px solid black; padding: 2px;">Clindamycin</div> <div style="border: 1px solid black; padding: 2px;">Erythromycin</div> <div style="border: 1px solid black; padding: 2px;">Doxycycline</div> <div style="border: 1px solid black; padding: 2px;">Ciprofloxacin</div> <div style="border: 1px solid black; padding: 2px;">Moxifloxacin</div> <div style="border: 1px solid black; padding: 2px;">Trimethoprim-Sulfamethoxazole</div> <div style="border: 1px solid black; padding: 2px;">Gentamicin</div> <div style="border: 1px solid black; padding: 2px;">Tobramycin</div> <div style="border: 1px solid black; padding: 2px;">Amikacin</div> <div style="border: 1px solid black; padding: 2px;">Vancomycin</div> <div style="border: 1px solid black; padding: 2px;">Linezolid</div> </div> </div>																			
#	%																				
ALL BACTERIA	129	—	9	12	41	39	37	33	42							70					
ALL GRAM-NEGATIVE BACTERIA	13	100	23	54	69	92	77	31	54	69					62	62	92	92	100		
<i>Escherichia coli</i>	4	31	25	100	100	100	100	75	100	100					25	50	100	100	100		
<i>Pseudomonas aeruginosa</i>	3	23			67	67				67					67		100	100	100		
<i>Klebsiella pneumoniae</i>	2	15	0	50	50	100	100	50	50	50					50	100	50	50	100		
<i>Proteus mirabilis</i>	2	15	100	100	100	100	100		100	100					100	100	100	100	100		
<i>Serratia marcescens</i>	1	8	0	0	0	100	100	0	0	0					100	100	100	100	100		
<i>Enterobacter aerogenes</i>	1	8	0	0	0	100	100	0	0	0					100	100	100	100	100		
ALL GRAM-POSITIVE BACTERIA	116	100	8	8	3	38	33	33	30	33	41		66	32						99	
Coagulase-negative staphylococci	79	68				27	27	27	27	27			73	27	82					100	100
<i>Staphylococcus aureus</i> , all isolates	16	14				88	88	88	88	88			67	68	88					100	100
- methicillin-susceptible	14	12				100	100	100	100	100			69	71	86					100	100
- methicillin-resistant (MRSA)	2	2				0	0	0	0	0			50	50	100					100	100
Viridans group streptococci*	10	9									90									100	
<i>Enterococcus faecalis</i> , all isolates	6	5	100	100		100														100	
- vancomycin-susceptible	6	5	100	100		100														100	
- vancomycin-resistant (VRE)	0	0																			
<i>Enterococcus faecium</i> , all isolates	2	2	0	0		0														50	
- vancomycin-susceptible	1	1	0	0		0														100	
- vancomycin-resistant (VRE)	1	1	0	0		0														0	100
- vancomycin-susceptible (vanA+)	0	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.
- ICUs include MSICU, NICU.

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:

- * 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

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#	%	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	202	—	11	27			80	90	55			69									76					
ALL GRAM-NEGATIVE BACTERIA	121	100	18	45			73	96	38			55			75				80		58	91	91	96		
<i>Pseudomonas aeruginosa</i>	32	26					66	88							84				84			94	97	97		
<i>Haemophilus influenzae</i> ^{^^}	29	24	62																							
<i>Klebsiella pneumoniae</i>	15	12	0	87			87	93	93			87		87					100		93	100	93	100		
<i>Escherichia coli</i>	8	7	25	62			75	100	100			75		75					38		62	62	62	88		
<i>Moraxella catarrhalis</i> [^]	7	6																								
<i>Stenotrophomonas maltophilia</i> [†]	5	4																		100	100					
<i>Serratia marcescens</i>	5	4	0	0			0	100	100			0		0					100		100	100	100	100		
ALL GRAM-POSITIVE BACTERIA	81	100					89	81	81	81	81	89			80	79					99				99	
<i>Staphylococcus aureus</i> , all isolates	71	88					93	93	93	93	93				81	80	98				100				100	100
- methicillin-susceptible	66	81					100	100	100	100	100				83	83	98				100				100	100
- methicillin-resistant (MRSA)	5	6					0	0	0	0	0				60	40	100				100				100	100
<i>Streptococcus pneumoniae</i>	9	11			0	67							67	100	78	78				100					100	
<i>Mycobacterium tuberculosis</i> complex	1	1																							100	

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- Susceptibility to doxycycline was predicted based on tetracycline susceptibility testing results.
- ICUs include MSICU, NICU.

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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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	142	—	36	64		77	73	61			37	47		10	83	54	72					
ALL GRAM-NEGATIVE BACTERIA	103	100	19	57		74	98	83			48	63	77		84	71	66	95	94	100		
<i>Escherichia coli</i>	60	58	28	73		78	100	100			58	83	83		82	80	98	97	95	100		
<i>Pseudomonas aeruginosa</i>	16	16				88	88					88			69			81	88	100		
<i>Klebsiella pneumoniae</i>	14	14	0	86		86	100	100			86	86	86		93	86	29	100	93	100		
<i>Proteus mirabilis</i>	3	3	100	100		100	100	100			100	100	100		100	100	0	100	100	100		
<i>Morganella morganii</i>	2	2	0	0		0	100	100			0	0	0		100	100	0	100	100	100		
<i>Serratia marcescens</i>	2	2	0	0		0	100	50			0	0	0		100	100	0	100	100	100		
<i>Enterobacter aerogenes</i>	2	2	0	0		0	100	100			0	0	0		100	100	50	100	100	100		
<i>Citrobacter koseri</i>	2	2	0	0		0	100	100			0	0	0		100	100	100	100	100	100		
ALL GRAM-POSITIVE BACTERIA	39	100	82	82		87	5	5	5	5	5	5		36	80	8	90				95	10
<i>Enterococcus faecalis</i> , all isolates	30	77	100	100		100								23	97		100				100	
- vancomycin-susceptible	30	77	100	100		100								23	97		100				100	
- vancomycin-resistant (VRE)	0	0																				
<i>Enterococcus faecium</i> , all isolates	4	10	0	0		0								75	0		0				50	25
- vancomycin-susceptible	2	5	0	0		0								100	0		0				100	
- vancomycin-resistant (VRE)	2	5	0	0		0								50	0		0				0	50
- vancomycin-susceptible (vanA+)	0	0																				
<i>Staphylococcus aureus</i> , all isolates	3	8				67	67	67	67	67	67			100	100	100					100	100
- methicillin-susceptible	2	5				100	100	100	100	100	100			100	100	100					100	100
- methicillin-resistant (MRSA)	1	3				0	0	0	0	0	0			100	100	100					100	100
<i>Enterococcus</i> species	1	3	100	100		100								0	100		100				100	
<i>Enterococcus gallinarum</i>	1	3	100	100		100								100	100		100				100	

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