

**Toronto Western Hospital ANTIBIOGRAM**  
**Intensive Care Units**  
**January 1, 2018 - December 31, 2018**

**Blood Isolates – % Susceptible**

		≥80% Susceptible <span style="color: green;">■</span> 70-79% Susceptible <span style="color: yellow;">■</span> ≤69% Susceptible <span style="color: red;">■</span>																										
#	%	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		
<b>ALL BACTERIA</b>	147	—	9	13			27	30	28		16	22															48	
<b>ALL GRAM-NEGATIVE BACTERIA</b>	29	100	17	38			59	97	86		24	48			62				86		59	97	93	100				
<i>Escherichia coli</i>	12	41	42	50			67	100	100		42	75			75				83		50	100	100	100				
<i>Klebsiella pneumoniae</i>	5	17	0	60			60	100	100		40	60			60				60		80	80	60	100				
<i>Pseudomonas aeruginosa</i>	4	14					100	75							100				100		100	100	100	100				
<i>Enterobacter cloacae</i>	3	10	0	0			0	100	100		0	0			0				100		100	100	100	100				
<i>Serratia marcescens</i>	2	7	0	0			0	100	100		0	0			0				100		100	100	100	100				
<b>ALL GRAM-POSITIVE BACTERIA</b>	118	100	7	7	2		19	14	14	12	14	16				27	26				46						100	
Coagulase-negative staphylococci	92	78					0	0	0	0	0					20	20	100			40						100	100
<i>Staphylococcus aureus</i> , all isolates	15	13					93	93	93	93	93					73	66	100			100						100	100
- methicillin-susceptible	14	12					100	100	100	100	100					71	71	100			100						100	100
- methicillin-resistant (MRSA)	1	1					0	0	0	0	0					100	0	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																										
Viridans group streptococci*	3	3										100															100	
<i>Streptococcus pneumoniae</i>	2	2				100	100						100	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.
- 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.

**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.

**Toronto Western Hospital ANTIBIOGRAM**  
**Intensive Care Units**  
**January 1, 2018 - December 31, 2018**

**Respiratory Isolates – % Susceptible**

		<div style="display: flex; align-items: center;"> <div style="margin-right: 10px;"> <p>≥80% Susceptible <span style="color: green;">■</span></p> <p>70-79% Susceptible <span style="color: yellow;">■</span></p> <p>≤69% Susceptible <span style="color: red;">■</span></p> </div> </div>																									
#	%	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	
<b>ALL BACTERIA</b>	216	—	16	27			75	92	59		37	64									80						
<b>ALL GRAM-NEGATIVE BACTERIA</b>	123	100	21	40			66	96	38			50			66				83		63	95	95	99			
<i>Haemophilus influenzae</i> <sup>^^</sup>	34	28	68																								
<i>Pseudomonas aeruginosa</i>	28	23					71	82						79					93			100	100	100			
<i>Klebsiella pneumoniae</i>	12	10	0	83			83	100	100		0	83		83					83		92	83	83	100			
<i>Enterobacter cloacae</i>	11	9	0	0			0	100	100		0	0		0					100		91	100	100	100			
<i>Escherichia coli</i>	9	7	22	33			44	100	100		0	67		67					67		89	78	78	100			
<i>Serratia marcescens</i>	8	7	0	0			0	100	100		0	0		0					100		100	100	100	100			
<i>Stenotrophomonas maltophilia</i> <sup>†</sup>	7	6																		100	100						
<i>Moraxella catarrhalis</i> <sup>*</sup>	6	5																									
<b>ALL GRAM-POSITIVE BACTERIA</b>	93	100	10	10	10		87	87	87	77	87	82				71	61				98					98	
<i>Staphylococcus aureus</i> , all isolates	78	84					92	92	92	92	92					73	63	94			100					100	100
- methicillin-susceptible	72	77					100	100	100	100	100					71	67	94			100					100	100
- methicillin-resistant (MRSA)	6	6					0	0	0	0	0					100	17	100			100					100	100
<i>Streptococcus pneumoniae</i>	13	14			69	69							33	100		69	54			100						100	
<i>Mycobacterium tuberculosis complex</i>	2	2																									

**General Notes:**

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

**Organism-Specific Notes:**

- <sup>^</sup> *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.
- <sup>^^</sup> *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.
- <sup>†</sup> *S. maltophilia*: Susceptibility to moxifloxacin was predicted based on levofloxacin susceptibility testing results.

# Toronto Western Hospital ANTIBIOGRAM

## Intensive Care Units

### January 1, 2018 - December 31, 2018

#### Skin, Wound and Abscess Isolates – % Susceptible

		≥80% Susceptible <span style="color: green;">■</span> 70-79% Susceptible <span style="color: yellow;">■</span> ≤69% Susceptible <span style="color: red;">■</span>			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
	#	%																							
<b>ALL BACTERIA</b>	39	—	15	20		72	85	67			36	49								66					
<b>ALL GRAM-NEGATIVE BACTERIA</b>	20	100	10	20		55	95	60				25	60					85		50	100	95	100		
<i>Pseudomonas aeruginosa</i>	8	40				75	88						88					75			100	100	100		
<i>Escherichia coli</i>	6	30	33	50		50	100	100			0	50	50					83		83	100	100	100		
<i>Klebsiella pneumoniae</i>	3	15	0	33		67	100	100			0	67	67					100		67	100	67	100		
<i>Enterobacter cloacae</i>	2	10	0	0		0	100	100			0	0	0					100		100	100	100	100		
<i>Serratia marcescens</i>	1	5	0	0		0	100	100			0	0	0					100		100	100	100	100		
<b>ALL GRAM-POSITIVE BACTERIA</b>	19	100	21	21	5	89	74	74	68	74	74			74	58					83				95	
<i>Staphylococcus aureus</i> , all isolates	12	63				83	83	83	83	83				92	75	92				100				100	100
- methicillin-susceptible	10	53				100	100	100	100	100				90	90	100				100				100	100
- methicillin-resistant (MRSA)	2	11				0	0	0	0	0				100	0	50				100				100	100
Coagulase-negative staphylococci	3	16				100	100	100	100	100				67	33	100				100				100	100
<i>Enterococcus faecalis</i> , all isolates	2	11	100	100		100																		100	
- vancomycin-susceptible	2	11	100	100		100																		100	
- vancomycin-resistant (VRE)	0	0																							
Group A streptococci**	1	5			100									100	100									100	
<i>Enterococcus gallinarum</i>	1	5	100	100		100																		0	

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- ICUs include MSICU, NICU.

#### 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.

# Toronto Western Hospital ANTIBIOGRAM Intensive Care Units January 1, 2018 - December 31, 2018

## Urine Isolates – % Susceptible

	#	%	Ampicillin		Amoxicillin-Clavulanic acid		Penicillin		Piperacillin-Tazobactam		Meropenem		Ertapenem		Cloxacillin		Cefazolin		Cephalexin		Ceftriaxone		Ceftazidime		Doxycycline		Ciprofloxacin		Trimethoprim-Sulfamethoxazole		Nitrofurantoin		Gentamicin		Tobramycin		Amikacin		Vancomycin		Linezolid						
<b>ALL BACTERIA</b>	123	—	39	63	82	80	63								2	51	54						7	85	54	69																					
<b>ALL GRAM-NEGATIVE BACTERIA</b>	97	100	27	58	78	99	76									63	65	81					87	65	62	91	91	100																			
<i>Escherichia coli</i>	53	55	45	83	90	100	100								0	92	94	94					83	81	98	89	89	100																			
<i>Pseudomonas aeruginosa</i>	20	21			80	95												80					100			100	100	100																			
<i>Klebsiella pneumoniae</i>	12	12	0	58	58	100	83								0	67	67	67					75	75	25	83	75	100																			
<i>Enterobacter cloacae</i>	4	4	0	0	0	100	75								0	0	0	0					100	100	25	100	100	100																			
<i>Proteus mirabilis</i>	4	4	50	100	100	100	100									75	100	100					75	75	0	75	100	100																			
<b>ALL GRAM-POSITIVE BACTERIA</b>	26	100	85	85	96	12	12	12	12	8	12												31	80	12	96																					
<i>Enterococcus faecalis</i> , all isolates	22	85	100	100	100																		23	95		100																					
- vancomycin-susceptible	22	85	100	100	100																		23	95		100																					
- vancomycin-resistant (VRE)	0	0																																													
<i>Staphylococcus aureus</i> , all isolates	2	8			100	100	100	100	100	100													100		100	100																					
- methicillin-susceptible	2	8			100	100	100	100	100	100													100		100	100																					
- methicillin-resistant (MRSA)	0	0																																													
Coagulase-negative staphylococci	1	4			100	100	100	100	100														100		100	100																					
<i>Enterococcus faecium</i> , all isolates	1	4	0	0	0																		0	0		0																					
- vancomycin-susceptible	1	4	0	0	0																		0	0		0																					
- vancomycin-resistant (VRE)	0	0																																													
- vancomycin-susceptible (vanA+)	0	0																																													

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