

**Toronto Western Hospital ANTIBIOGRAM  
Intensive Care Units  
January 1, 2016 - December 31, 2016**

**Blood Isolates – % Susceptible**

		<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="font-size: small;"> <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 style="font-size: x-small;"> <p>#      %</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>	146	—	6	12			56	57	54		49	51									77					
<b>ALL GRAM-NEGATIVE BACTERIA</b>	19	100	5	52			74	95	74		37	52			79				69		63	89	84	95		
<i>Escherichia coli</i>	7	37	14	71			71	100	100		57	71			71				43		71	71	57	86		
<i>Pseudomonas aeruginosa</i>	5	26					80	80							100				80			100	100	100		
<i>Klebsiella pneumoniae</i>	3	16	0	100			100	100	100		100	100			100				67		100	100	100	100		
<i>Klebsiella oxytoca</i>	2	11	0	100			100	100	100		0	100			100				100		100	100	100	100		
<i>Enterobacter cloacae</i>	1	5	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>	127	100	6	6	4		54	51	51	47	51	51			74	56					79				98	
Coagulase-negative staphylococci	91	72					38	38	38	38	38				77	54	100				77				100	100
<i>Staphylococcus aureus</i> , all isolates	26	20					96	96	96	96	96				75	71	91				100				100	100
- methicillin-susceptible	25	20					100	100	100	100	100				78	74	91				100				100	100
- methicillin-resistant (MRSA)	1	1					0	0	0	0	0				0	0	100				100				100	100
<i>Enterococcus faecalis</i> , all isolates	3	2	100	100			100																		100	
- vancomycin-susceptible	3	2	100	100			100																		100	
- vancomycin-resistant (VRE)	0	0																								
Viridans group streptococci*	3	2		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. 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.

\*\* *Corynebacterium* species: Susceptibility testing is not routinely performed. All isolates are considered susceptible to vancomycin.

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**Intensive Care Units**  
**January 1, 2016 - December 31, 2016**

**Respiratory Isolates – % Susceptible**

	#	%	Antibiotics																					
			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
<b>ALL BACTERIA</b>	194	—	14	28			76	92	57			63						73						
<b>ALL GRAM-NEGATIVE BACTERIA</b>	118	100	19	41			67	94	36			48	68				75		53	95	95	99		
<i>Pseudomonas aeruginosa</i>	36	31					58	83				75					78			94	97	97		
<i>Haemophilus influenzae</i> <sup>^^</sup>	28	24	68																					
<i>Klebsiella pneumoniae</i>	12	10	0	83			83	100	100			83	83				92		83	100	92	100		
<i>Escherichia coli</i>	10	8	20	50			60	100	100			60	60				40		70	80	80	100		
<i>Stenotrophomonas maltophilia</i> <sup>‘</sup>	7	6															57	100						
<i>Enterobacter cloacae</i>	6	5	0	0			0	100	83			0	0				100		100	100	100			
<b>ALL GRAM-POSITIVE BACTERIA</b>	76	100	7	7	7		91	91	91	84	91	84		81	79				99				100	
<i>Staphylococcus aureus</i> , all isolates	71	93					90	90	90	90	90			80	79	97			99				100	100
- methicillin-susceptible	64	84					100	100	100	100	100			84	84	100			100				100	100
- methicillin-resistant (MRSA)	7	9					0	0	0	0	0			43	29	71			86				100	100
<i>Streptococcus pneumoniae</i>	5	7					100	100						100	80			100					100	

**General Notes:**

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- 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:**

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

**Organism-Specific Notes:**

<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, 2016 - December 31, 2016

#### Skin, Wound and Abscess 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	Piperacillin-Tazobactam	Meropenem	Ertapenem	Cloxacillin	Cefazolin	Ceftriaxone	Ceftazidime	Clindamycin	Erythromycin	Doxycycline	Ciprofloxacin	Moxifloxacin	Trimethoprim-Sulfamethoxazole	Gentamicin	Tobramycin	Amikacin	Vancomycin	Linezolid
<b>ALL BACTERIA</b>	25	—	8	20		79	79	60			58						75						
<b>ALL GRAM-NEGATIVE BACTERIA</b>	9	100		33		88	100	44			38	78				78		56	100	88	100		
<i>Pseudomonas aeruginosa</i>	4	44				100	100					100				100			100	100	100		
<i>Escherichia coli</i>	3	33	0	67		67	100	100			67	67				67		100	100	67	100		
<i>Klebsiella pneumoniae</i>	1	11	0	100		100	100	100			100	100				100		100	100	100	100		
<i>Stenotrophomonas maltophilia</i> <sup>1</sup>	1	11														0	100						
<b>ALL GRAM-POSITIVE BACTERIA</b>	16	100	13	13	6	75	69	69	62	69		75	69					87				100	
<i>Staphylococcus aureus</i> , all isolates	11	69				82	82	82	82	82		82	82	100				100				100	100
- methicillin-susceptible	9	56				100	100	100	100	100		78	78	100				100				100	100
- methicillin-resistant (MRSA)	2	13				0	0	0	0	0		100	100	100				100				100	100
Coagulase-negative staphylococci	3	19				33	33	33	33	33		67	33	100				67				100	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:**

<sup>1</sup> *S. maltophilia*: Susceptibility to moxifloxacin was predicted based on levofloxacin susceptibility testing results.

# Toronto Western Hospital ANTIBIOGRAM

## Intensive Care Units

### January 1, 2016 - December 31, 2016

#### 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	
<b>ALL BACTERIA</b>	129	—	41	62		76	73	60			27	44		5	76	46	72						
<b>ALL GRAM-NEGATIVE BACTERIA</b>	93	100	23	51		69	100	82			35	58	71		78	62	63	94	93	99			
<i>Escherichia coli</i>	54	58	39	70		80	100	98			48	81	81		70	69	96	93	91	98			
<i>Pseudomonas aeruginosa</i>	14	15				79	100						86		93			100	100	100			
<i>Klebsiella pneumoniae</i>	9	10	0	78		67	100	100			67	78	78		78	78	33	78	78	100			
<i>Enterobacter cloacae</i>	7	8	0	0		0	100	86			0	0	0		100	71	29	100	100	100			
<i>Proteus mirabilis</i>	2	2	0	100		100	100	100			0	100	100		50	50	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	100			0	0	0		100	100	0	100	100	100			
<b>ALL GRAM-POSITIVE BACTERIA</b>	36	100	89	89		94	6	6	6	6	6	6		17	69	6	94					97	
<i>Enterococcus faecalis</i> , all isolates	31	86	100	100		100								13	77		100					100	
- vancomycin-susceptible	31	86	100	100		100								13	77		100					100	
- vancomycin-resistant (VRE)	0	0																					
<i>Enterococcus faecium</i> , all isolates	2	6	0	0		0								50	0		0					50	
- vancomycin-susceptible	1	3	0	0		0								100	0		0					100	
- vancomycin-resistant (VRE)	1	3	0	0		0								0	0		0					0	
- vancomycin-susceptible (vanA+)	0	0																					
<i>Staphylococcus aureus</i> , all isolates	2	6				100	100	100	100	100	100			50		100	100					100	100
- methicillin-susceptible	2	6				100	100	100	100	100	100			50		100	100					100	100
- methicillin-resistant (MRSA)	0	0																					

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