



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

**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>	<b>49</b>	<b>—</b>	<b>23</b>	<b>38</b>			<b>80</b>	<b>85</b>	<b>26</b>			<b>54</b>									<b>37</b>					
<b>ALL GRAM-NEGATIVE BACTERIA</b>	<b>34</b>	<b>100</b>	<b>29</b>	<b>50</b>			<b>85</b>	<b>97</b>	<b>12</b>			<b>53</b>			<b>88</b>				<b>61</b>		<b>11</b>	<b>89</b>	<b>94</b>	<b>100</b>		
<i>Haemophilus influenzae</i> ^^	15	44	67																							
<i>Pseudomonas aeruginosa</i>	14	41					79	93							86				64				93	100	100	
<i>Escherichia coli</i>	2	6	0	50			50	100	100			50		50					0		0	50	50	100		
<i>Klebsiella pneumoniae</i>	1	3	0	100			100	100	100			100		100					100		100	100	100	100		
<i>Serratia marcescens</i>	1	3	0	0			0	100	100			0		0					100		100	100	100	100		
<i>Moraxella catarrhalis</i> ^	1	3																								
<b>ALL GRAM-POSITIVE BACTERIA</b>	<b>15</b>	<b>100</b>	<b>10</b>	<b>10</b>	<b>13</b>		<b>67</b>	<b>57</b>	<b>57</b>	<b>47</b>	<b>57</b>	<b>57</b>			<b>53</b>	<b>40</b>					<b>75</b>				<b>80</b>	
<i>Staphylococcus aureus</i> , all isolates	9	60					78	78	78	78	78				66	44	89				100				100	100
- methicillin-susceptible	7	47					100	100	100	100	100				71	57	100				100				100	100
- methicillin-resistant (MRSA)	2	13					0	0	0	0	0				50	0	50				100				100	100
<i>Streptococcus pneumoniae</i>	3	20			67	100						50	100		67	67				100					100	
<i>Mycobacterium tuberculosis complex</i>	3	20																								

**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 ceftazidime 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.

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

		<div style="display: flex; align-items: center;"> <div style="margin-right: 10px;"> <p>≥80% Susceptible <span style="display: inline-block; width: 10px; height: 10px; background-color: #90EE90; border: 1px solid black;"></span></p> <p>70-79% Susceptible <span style="display: inline-block; width: 10px; height: 10px; background-color: #FFFF00; border: 1px solid black;"></span></p> <p>≤69% Susceptible <span style="display: inline-block; width: 10px; height: 10px; background-color: #FF0000; border: 1px solid black;"></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>	5	—	20	100	100	100			100							100						
<b>ALL GRAM-NEGATIVE BACTERIA</b>	1	100	100	100	100	100			100	100						100				100		
<i>Escherichia coli</i>	1	100	0	100	100	100			100	100					0	100	0	0	100			
<b>ALL GRAM-POSITIVE BACTERIA</b>	4	100			100	100	100	100	100	100	75	75				100					100	
<i>Staphylococcus aureus</i> , all isolates	4	100			100	100	100	100	100		75	75	0			100					100	100
- methicillin-susceptible	4	100			100	100	100	100	100		75	75	0			100					100	100
- methicillin-resistant (MRSA)	0	0																				

**General Notes:**

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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.

# Toronto General Hospital ANTIBIOGRAM Emergency Department January 1, 2017 - December 31, 2017

## Urine Isolates – % Susceptible

		<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: left;"> <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="text-align: center;"> <p>#      %</p> </div> </div>														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>		853	—	33	66	78	80	75		50	59		8	74	55	76																			
<b>ALL GRAM-NEGATIVE BACTERIA</b>		663	100	21	63	75	99	93		60	71	76		76	65	72	89	88	100																
<i>Escherichia coli</i>		421	63	29	72	80	100	100		67	82	82		69	63	96	86	86	100																
<i>Klebsiella pneumoniae</i>		100	15	0	80	84	99	99		83	86	86		89	77	31	92	88	99																
<i>Pseudomonas aeruginosa</i>		38	6			87	92					92		87			95	100	100																
<i>Proteus mirabilis</i>		24	4	71	96	100	100	100		100	100	100		83	75	0	92	88	100																
<i>Enterobacter cloacae</i>		17	3	0	0	0	100	88		0	0	0		94	88	59	100	94	94																
<i>Klebsiella oxytoca</i>		12	2	0	92	92	100	100		92	100	100		100	100	100	100	100	100																
<i>Citrobacter freundii</i>		10	2	0	0	0	100	100		0	0	0		80	70	100	90	80	100																
<i>Serratia marcescens</i>		9	1	0	0	0	100	89		0	0	0		89	100	0	100	78	100																
<i>Citrobacter koseri</i>		8	1	0	0	0	100	100		0	0	0		100	100	88	100	100	100																
<i>Enterobacter aerogenes</i>		7	1	0	0	0	100	100		0	0	0		86	100	0	100	100	100																
<i>Morganella morganii</i>		6	1	0	0	0	100	100		0	0	0		83	100	17	100	100	100																
<b>ALL GRAM-POSITIVE BACTERIA</b>		190	100	75	75	90	15	15	15	15	15	15		35	66	15	91			99															
<i>Enterococcus faecalis</i> , all isolates		140	74	99	99	99								22	84		98			100															
- vancomycin-susceptible		140	74	99	99	99								22	84		98			100															
- vancomycin-resistant (VRE)		0	0																																
<i>Staphylococcus aureus</i> , all isolates		27	14			89	89	89	89	89	89			100	100	100				100	100														
- methicillin-susceptible		24	13			100	100	100	100	100	100			100	100	100				100	100														
- methicillin-resistant (MRSA)		3	2			0	0	0	0	0	0			100	100	100				100	100														
<i>Enterococcus faecium</i> , all isolates		14	7	7	7	7								36	7		7			86	100														
- vancomycin-susceptible		12	6	8	8	8								42	8		8			100	100														
- vancomycin-resistant (VRE)		2	1	0	0	0								0	0		0			0	100														
- vancomycin-susceptible (vanA+)		0	0																																
<i>Staphylococcus saprophyticus</i> "		5	3																																
<i>Enterococcus</i> species		3	2	100	100	100								0	100		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:

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