

**Toronto General Hospital ANTIBIOGRAM
Emergency Department
January 1, 2020 - December 31, 2020**

Blood Isolates – % Susceptible

		≥80% Susceptible ■ 70-79% Susceptible ■ ≤69% Susceptible ■																							
#	%	Ampicillin	Amoxicillin-Clavulanic acid	Penicillin	Piperacillin-Tazobactam	Meropenem	Ertapenem	Cloxacillin	Cefazolin	Ceftriaxone	Ceftriaxone (meningitis)	Ceftriaxone (non-meningitis)	Ceftazidime	Clindamycin	Erythromycin	Doxycycline	Ciprofloxacin	Moxifloxacin	Trimethoprim-Sulfamethoxazole	Gentamicin	Tobramycin	Amikacin	Vancocycin	Linezolid	
ALL BACTERIA	714	—	13	33	60	64	61		46	59									66						
ALL GRAM-NEGATIVE BACTERIA	250	100	6	62	77	99	90		49	71			79				79		69	93	93	99			
<i>Escherichia coli</i>	128	51	4	73	83	100	100		62	88			88				64		66	88	88	99			
<i>Klebsiella pneumoniae</i>	50	20	0	92	92	100	100		82	92			92				94		84	98	98	100			
<i>Pseudomonas aeruginosa</i>	22	9			95	91							95				95			100	100	100			
<i>Enterobacter cloacae</i>	20	8	0	0	0	100	95		0	0			0				95		95	100	100	100			
<i>Proteus mirabilis</i>	10	4	100	90	100	100	100		20	100			100				90		100	100	100	100			
<i>Klebsiella oxytoca</i>	8	3	0	88	88	100	100		0	88			88				100		88	100	100	100			
ALL GRAM-POSITIVE BACTERIA	464	100	17	17	10	51	45	45	34	45	53			46	34				64					100	
Coagulase-negative staphylococci	275	59				36	36	36	36	36				43	21	93			64					100	100
<i>Staphylococcus aureus</i> , all isolates	65	14				92	92	92	92	92				78	71	94			98					100	100
- methicillin-susceptible	60	13				100	100	100	100	100				78	72	95			98					100	100
- methicillin-resistant (MRSA)	5	1				0	0	0	0	0				80	60	80			100					100	100
<i>Enterococcus faecalis</i> , all isolates	26	6	100	100		100																		100	
- vancomycin-susceptible	26	6	100	100		100																		100	
- vancomycin-resistant (VRE)	0	0																							
Viridans group streptococci ^o	25	5								92															100
Group A streptococci**	23	5			100									100	95										100
<i>Streptococcus pneumoniae</i>	15	3									93	100			73			100							100
Group B streptococci**	12	3			100									45	45										100
Group G streptococci**	10	2			100									33	33										100
<i>Enterococcus faecium</i> , all isolates	10	2	30	30		30																			100
- vancomycin-susceptible	10	2	30	30		30																			100
- vancomycin-resistant (VRE)	0	0																							
- 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.

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 ampicillin.

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.
- ^o 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 General Hospital ANTIBIOGRAM
Emergency Department
January 1, 2020 - December 31, 2020

Respiratory Isolates – % Susceptible

	#	%	Antibiotics																		
			Ampicillin	Amoxicillin-Clavulanic acid	Piperacillin-Tazobactam	Meropenem	Ertapenem	Cloxacillin	Cefazolin	Ceftriaxone	Ceftazidime	Clindamycin	Erythromycin	Doxycycline	Ciprofloxacin	Trimethoprim-Sulfamethoxazole	Gentamicin	Tobramycin	Amikacin	Vancomycin	Linezolid
ALL BACTERIA	32	—		75	69	28		25	34						34						
ALL GRAM-NEGATIVE BACTERIA	20	100		80	70	5			10	85				77	6	89	100	94			
<i>Pseudomonas aeruginosa</i>	17	85		82	65					88				76		88	100	94			
<i>Moraxella catarrhalis</i> [^]	2	10																			
<i>Serratia marcescens</i>	1	5	0	0	0	100	100		0	0	0			100	100	100	100	100			
ALL GRAM-POSITIVE BACTERIA	12	100		67	67	67	67	67	75		73	73			82					83	
<i>Staphylococcus aureus</i> , all isolates	8	67		88	88	88	88	88			88	88	100		100					100	100
- methicillin-susceptible	7	58		100	100	100	100	100			100	100	100		100					100	100
- methicillin-resistant (MRSA)	1	8		0	0	0	0	0			0	0	100		100					100	100
<i>Mycobacterium tuberculosis complex</i>	2	17																			

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.

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.

**Toronto General Hospital ANTIBIOGRAM
Emergency Department
January 1, 2020 - December 31, 2020**

Skin, Wound and Abscess Isolates – % Susceptible

		Ampicillin	Amoxicillin-Clavulanic acid	Piperacillin-Tazobactam	Meropenem	Ertapenem	Cloxacillin	Cefazolin	Ceftriaxone	Ceftazidime	Clindamycin	Erythromycin	Doxycycline	Ciprofloxacin	Trimethoprim-Sulfamethoxazole	Gentamicin	Tobramycin	Amikacin	Vancomycin	Linezolid	
≥80% Susceptible ■ 70-79% Susceptible ■ ≤69% Susceptible ■																					
	# %																				
ALL BACTERIA		5	—		40	60	60		40	40					60						
ALL GRAM-NEGATIVE BACTERIA		2	100		50	50				50						100	100	100			
<i>Pseudomonas aeruginosa</i>		1	50		0	0				100				0		100	100	100			
<i>Morganella morganii</i>		1	50	0	0	0	100	100		0	0	0		0	0	100	100	100			
ALL GRAM-POSITIVE BACTERIA		3	100		67	67	67	67	67	67		67			100					100	
<i>Staphylococcus aureus</i> , all isolates		3	100		67	67	67	67	67		67	0	33		100					100	100
- methicillin-susceptible		2	67		100	100	100	100	100		50	0	0		100					100	100
- methicillin-resistant (MRSA)		1	33		0	0	0	0	0		100	0	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.

Toronto General Hospital ANTIBIOGRAM
Emergency Department
January 1, 2020 - December 31, 2020

Urine 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>																			
#	%	Ampicillin	Amoxicillin-Clavulanic acid	Piperacillin-Tazobactam	Meropenem	Ertapenem	Cloxacillin	Cefazolin	Cephalexin	Ceftriaxone	Ceftazidime	Doxycycline	Ciprofloxacin	Trimethoprim-Sulfamethoxazole	Nitrofurantoin	Gentamicin	Tobramycin	Amikacin	Vancomycin	Linezolid	
ALL BACTERIA	819	—	20	65	77	79	72		6	52	56		71	51	71						
ALL GRAM-NEGATIVE BACTERIA	645	100	4	61	75	99	90		6	64	69	78		73	62	67	91	54	97		
<i>Escherichia coli</i>	396	61	1	70	77	100	100		7	76	81	81		66	63	95	88	43	100		
<i>Klebsiella pneumoniae</i>	96	15	0	85	84	100	100		14	84	88	88	0	85	74	22	98	50	83		
<i>Pseudomonas aeruginosa</i>	58	9			98	88						98		84			100	100	98		
<i>Proteus mirabilis</i>	24	4	100	96	100	100	100		0	96	100	100		79	83	0	92	100	100		
<i>Enterobacter cloacae</i>	17	3	0	0	0	100	94		0	0	0	0		82	76	24	100	100	100		
<i>Klebsiella oxytoca</i>	17	3	0	76	76	100	100		0	59	82	82		82	94	88	94	0	100		
<i>Citrobacter koseri</i>	12	2	0	0	0	100	100		0	0	0	0		92	92	67	92	92	92		
<i>Serratia marcescens</i>	7	1	0	0	0	100	100		0	0	0	0		86	100	0	100	100	100		
ALL GRAM-POSITIVE BACTERIA	174	100	77	77	84	7	7	7	7	7	7		36	63	10	85				98	99
<i>Enterococcus faecalis</i> , all isolates	128	74	100	100	100								30	81		98				100	100
- vancomycin-susceptible	128	74	100	100	100								30	81		98				100	100
- vancomycin-resistant (VRE)	0	0																			
<i>Enterococcus faecium</i> , all isolates	26	15	15	15									31	12		16				85	100
- vancomycin-susceptible	22	13	18	18	18								32	14		14				100	100
- vancomycin-resistant (VRE)	4	2	0	0	0								25	0		25				0	100
- vancomycin-susceptible (vanA+)	0	0																			
<i>Staphylococcus aureus</i> , all isolates	18	10		66	66	66	66	66	66	66			89	94	94					100	100
- methicillin-susceptible	13	7		92	92	92	92	92	92	92			85	92	92					100	100
- methicillin-resistant (MRSA)	5	3		0	0	0	0	0	0	0			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.

