

All Specimens – % Susceptible

ALL BACTERIA	629	—	12	22				59	70	50		29	20	39					33	44		54	53				
--------------	-----	---	----	----	--	--	--	----	----	----	--	----	----	----	--	--	--	--	----	----	--	----	----	--	--	--	--

ALL GRAM-NEGATIVE BACTERIA	334	100	5	24				58	93	52	12	31		61			74	51	28	88	83	95		
<i>Pseudomonas aeruginosa</i>	113	34					82	85						84			78			91	97	97		
<i>Escherichia coli</i>	72	22	16	51			57	99	97		25	61		61			44	54	90	79	63	100		
<i>Klebsiella pneumoniae</i>	37	11	0	73			73	97	95		60	81		81			73	78	14	84	79	95		
<i>Stenotrophomonas maltophilia</i> ⁺	30	9															90	86	0					
<i>Enterobacter cloacae</i>	29	9	0	0			0	100	93		0	0	0	0			93	90	31	97	97	97		
<i>Haemophilus influenzae</i> ^{+,A}	0	0	####																					
<i>Serratia marcescens</i>	16	5	0	0			0	100	100		0	0	0	0			94	100	0	100	94	100		
<i>Klebsiella oxytoca</i>	13	4	0	85			69	92	75		0		92	92			92	92	85	92	75	100		
<i>Klebsiella aerogenes</i>	10	3	0	0			0	100	100		0	0	0	0			100	100	0	100	100	100		
<i>Moraxella catarrhalis</i> ⁺	0	0																						
<i>Proteus mirabilis</i>	6	2	100	100			100	100				100		100			100	100	0	100				

ALL GRAM-POSITIVE BACTERIA	295	100	20	20	8			59	47	47	39	47	41	48			46	39	69	12		58	84			91
Coagulase-negative staphylococci	282	96						35	35	35	35	35					41	29	86			61	100			100
<i>Staphylococcus aureus</i> , all isolates	130	44						78	78	78	78	78	78	78			80	70	98			99	99			100
- methicillin-susceptible	101	34						100	100	100	100	100	100	100			80	77	99			99	99			100
- methicillin-resistant (MRSA)	29	10						0	0	0	0	0	0	0			79	45	93			97	100			100
<i>Enterococcus faecium</i> , all isolates	54	18	2	2				2											38	0		27				61
- vancomycin-susceptible	33	11	3	3				3											62	0		25				100
- vancomycin-resistant (VRE)	19	6	0	0				0											0	0		33				0
- vancomycin-susceptible (vanA+)	2	1	0	0				0																		0
<i>Enterococcus faecalis</i>	35	12	100	100				100										0	92			100				100
<i>Streptococcus anginosus</i> group**	11	4			100									100												100
Viridans group streptococci*	9	3			78									100												100
<i>Streptococcus pneumoniae</i>	5	2					100	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, CCU, CVICU.

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.
- All specimens exclude surveillance samples.

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
- ^ 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.
- ^ S. maltophilia: Susceptibility to moxifloxacin was predicted based on levofloxacin susceptibility testing results.
- ^^ S. anginosus group: 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
Intensive Care Units
January 1, 2024 - December 31, 2024

Blood Isolates – % Susceptible

	#	%
<div><div>≥80% Susceptible</div><div>70-79% Susceptible</div><div>≤69% Susceptible</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		

ALL BACTERIA	353	—	8	10		32	35	32		23	25						59				
--------------	-----	---	---	----	--	----	----	----	--	----	----	--	--	--	--	--	----	--	--	--	--

ALL GRAM-NEGATIVE BACTERIA	58	100	7	17		36	95	71		17	23	40				69		59	85	87	96		
<i>Escherichia coli</i>	19	33	21	26		26	95	95		26	32	32				42		42	68	68	100		
<i>Pseudomonas aeruginosa</i>	11	19				73	82					91				100			91	100	91		
<i>Enterobacter cloacae</i>	6	10	0	0		0	100	100		0	0	0						100	100	100	100		
<i>Klebsiella pneumoniae</i>	5	9	0	80		100	100	100		100	100	100				100		80	100	100	100		
<i>Serratia marcescens</i>	5	9	0	0		0	100	100		0	0	0				80		100	100	100	100		
<i>Stenotrophomonas maltophilia</i>	4	7														100		75					

[illegible]

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, CCU, CVICU.

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:

- ^d *S. maltophilia*: Susceptibility to moxifloxacin was predicted based on levofloxacin susceptibility testing results.

Toronto General Hospital ANTIBIOGRAM
Intensive Care Units
January 1, 2024 - December 31, 2024

Respiratory Isolates – % Susceptible

<div> <div>≥80% Susceptible</div> <div>70-79% Susceptible</div> <div>≤69% Susceptible</div> </div>		#	%	Ampicillin	Amoxicillin-Clavulanic acid	Penicillin IV (meningitis)	Penicillin IV (non-meningitis)	Piperacillin-Tazobactam	Meropenem	Ertapenem	Cloxacillin	Cefazolin	Ceftriaxone	Ceftriaxone (meningitis)	Ceftriaxone (non-meningitis)	Cefazidime	Clindamycin	Erythromycin	Doxycycline	Ciprofloxacin	Moxifloxacin	Trimethoprim-Sulfamethoxazole	Gentamicin	Tobramycin	Amikacin	Vancomycin	Linezolid
--	--	---	---	------------	-----------------------------	----------------------------	--------------------------------	-------------------------	-----------	-----------	-------------	-----------	-------------	--------------------------	------------------------------	------------	-------------	--------------	-------------	---------------	--------------	-------------------------------	------------	------------	----------	------------	-----------

ALL BACTERIA	313	—	8	19				69	87	45		26	46									63					
---------------------	-----	---	---	----	--	--	--	----	----	----	--	----	----	--	--	--	--	--	--	--	--	----	--	--	--	--	--

ALL GRAM-NEGATIVE BACTERIA	223	100	9	24				65	91	32		5	33			69					65		49	88	82	91			
<i>Pseudomonas aeruginosa</i>	82	37						80	81							83					72				90	96	98		
<i>Stenotrophomonas maltophilia</i> [*]	28	13																				85	89						
<i>Escherichia coli</i>	22	10	10	64				64	100	100		20	73			73					55		59	82	57	100			
<i>Haemophilus influenzae</i> ^{^^}	20	9	75																										
<i>Enterobacter cloacae</i>	15	7	0	0				0	100	93		0	0			0					93		93	100	100	100	100		
<i>Klebsiella pneumoniae</i>	14	6	0	71				71	100	100		43	79			79					71	71	71	71	100	100			
<i>Serratia marcescens</i>	12	5	0	0				0	100	100		0	0			0					100		100	100	100	100			
<i>Klebsiella oxytoca</i>	7	3	0	100				71	100				100			100					100		100	100					
<i>Moraxella catarrhalis</i> [*]	6	3																											
<i>Klebsiella aerogenes</i>	5	2	0	0				0	100	100		0	0			0					100		100	100	100	100			

ALL GRAM-POSITIVE BACTERIA	90	100	4	4				78	78	78	73	78	73				77	72				95					
Staphylococcus aureus, all isolates	84	93						79	79	79	79	79					78	73	96			97			100	100	
- methicillin-susceptible	66	73						100	100	100	100	100	100				79	77	98			98			100	100	
- methicillin-resistant (MRSA)	18	20						0	0	0	0	0	0				72	56	89			94			100	100	
Streptococcus pneumoniae	4	4				100	100										100	100			100				100		
Mycobacterium tuberculosis complex	2	2																									

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, CCU, CVICU.

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.

Toronto General Hospital ANTIBIOGRAM
Intensive Care Units
January 1, 2024 - December 31, 2024

Urine Isolates – % Susceptible

	#	%
≥80% Susceptible		
70-79% Susceptible		
≤69% Susceptible		
Ampicillin		
Amoxicillin-Clavulanic acid		
Piperacillin-Tazobactam		
Mercopenem		
Ertapenem		
Cloxacillin		
Cefazolin		
Cephalexin		
Ceftriaxone		
Ceftazidime		
Doxycycline		
Ciprofloxacin		
Trimethoprim-Sulfamethoxazole		
Nitrofurantoin		
Gentamicin		
Tobramycin		
Amikacin		
Vancomycin		
Linezolid		

ALL BACTERIA	84	—	18	46	58	74	58		1	1	39		5	64	48	52				
--------------	----	---	----	----	----	----	----	--	---	---	----	--	---	----	----	----	--	--	--	--

ALL GRAM-NEGATIVE BACTERIA	62	100	5	44	58	98	77				52	65		69	63	49	90	27	95		
<i>Escherichia coli</i>	27	44	0	52	59	100	100		0		63	63		48	59	93	85	0	100		
<i>Klebsiella pneumoniae</i>	13	21	0	77	69	100	100		0		85	85		69	85	0	92	0	100		
<i>Pseudomonas aeruginosa</i>	9	15			89	100					89		100				100	100	100		
<i>Enterobacter cloacae</i>	3	5	0	0	0	100	100		0	0	0	0		100	100	33	100	100	100		
<i>Proteus mirabilis</i>	3	5	100	100	100	100					100	100		100	100	0	100				
<i>Klebsiella aerogenes</i>	2	3	0	0	0	100	100		0	0	0	0		100	100	0	100	100	100		
<i>Klebsiella oxytoca</i>	2	3	0	0	0	50	0		0		50	50		50	50	100	50	0	100		

ALL GRAM-POSITIVE BACTERIA	22	100	55	55	59	5	5	5	5	5	5		18	50	5	64				86	
<i>Enterococcus faecalis</i>	12	55	100	100	100								0	92		100				100	
<i>Enterococcus faecium</i> , all isolates	9	41	0	0	0								33	0		11				67	100
- vancomycin-susceptible	6	27	0	0	0								50	0		0				100	100
- vancomycin-resistant (VRE)	3	14	0	0	0								0	0		33				0	100
<i>Staphylococcus aureus</i> , all isolates	1	5			100	100	100	100	100	100			100			100	100			100	100
- methicillin-susceptible	1	5			100	100	100	100	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, CCU, CVICU.