Toronto Western Hospital ANTIBIOGRAM
All Inpatients
January 1, 2021 - December 31, 2021

Blood Isolates – % Susceptible

≥80% Susceptible
70-79% Susceptible
≤69% Susceptible

	#	%	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	**516**	–	10	16	50	51	48		38	48						67					
ALL GRAM-NEGATIVE BACTERIA	**100**	**100**	19	49	64	98	86		35	58	69				86	73	90	94	99		
Escherichia coli	**38**	**38**	39	61	71	100	100		50	82	82				66	63	79	89	97		
Klebsiella pneumoniae	**18**	**18**	0	82	83	100	100		59	88	88				100	100	100	100	100		
Enterobacter cloacae	**13**	**13**	0	0	0	100	92		0	0	0				100	85	85	85	100		
Pseudomonas aeruginosa	**11**	**11**			100	82					100				91		100	100	100		
Klebsiella oxytoca	**7**	**7**	0	100	100	100	100		71	100	100				100	100	100	100	100		
ALL GRAM-POSITIVE BACTERIA	**416**	**100**	8	8	47	39	39	39	39	45		42	24			66				99	
Coagulase-negative staphylococci	**288**	**69**			38	38	38	38	38			42	19	96		69				100	100
Staphyloccocus aureus, all isolates	**60**	**14**			92	92	92	92	92			75	67	98		100				100	100
- methicillin-susceptible	**55**	**13**			100	100	100	100	100			78	69	100		100				100	100
- methicillin-resistant (MRSA)	**5**	**1**			0	0	0	0	0			40	40	80		100				100	100
Enterococcus faecalis	**30**	**7**	100	100	100															100	
Viridans group streptococci°	**22**	**5**								91										100	
Enterococcus faecium	**10**	**2**	30	30	30															100	
Streptococcus anginosus group°°	**6**	**1**								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.

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

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.

°° 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 Western Hospital ANTIBIOGRAM
All Inpatients
January 1, 2021 - December 31, 2021

Respiratory Isolates — % Susceptible

≥80% Susceptible
70-79% Susceptible
≤69% Susceptible

	#	%	Ampicillin	Amoxicillin-Clavulanic acid	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
ALL BACTERIA	**356**	—	7	21			76	92	62		39	56									73					
ALL GRAM-NEGATIVE BACTERIA	**232**	**100**	10	32			66	95	48		13	38			65				86		59	94	97	96		
Pseudomonas aeruginosa	**74**	**32**					86	87							89				96			90	96	94		
Klebsiella pneumoniae	**31**	**13**	0	84			84	100	100		67	87			87				100		94	100	100	100		
Escherichia coli	**24**	**10**	9	57			65	100	100		27	70			70				83		79	96	100	100		
Haemophilus influenzae^^	**24**	**10**	75																							
Stenotrophomonas maltophilia‘	**15**	**6**																		100	100					
Serratia marcescens	**14**	**6**	0	0			0	100	100		0	0			0				100		100	100	100	100		
Enterobacter cloacae	**12**	**5**	0	0			0	100	100		0	0			0				100		92	100	100	100		
Klebsiella aerogenes	**11**	**5**	0	0			0	91	91		0	0			0				91		100	100	100	100		
Klebsiella oxytoca	**8**	**3**	0	88			75	100	100		50	88			88				88		88	100	100	100		
Citrobacter koseri	**5**	**2**	0	0			0	100	100		0	0			0				100		100	100	100	100		
ALL GRAM-POSITIVE BACTERIA	**124**	**100**					92	86	86	86	86	86				78	70				97				98	
Staphyloccocus aureus, all isolates	**115**	**93**					93	93	93	93	92					78	72	96			99				100	100
- methicillin-susceptible	**107**	**86**					100	100	100	100	99					81	76	97			99				100	100
- methicillin-resistant (MRSA)	**8**	**6**					0	0	0	0	0					43	14	86			100				100	100
Streptococcus pneumoniae	**7**	**6**			100	100							0	100		100	57			100					100	
Coagulase-negative staphylococci	**1**	**1**					100	100	100	100	100					100	100	100			100				100	100
Mycobacterium tuberculosis complex	**1**	**1**																								
Staphylococcus lugdunensis	**1**	**1**					100	100	100	100	100					100	100	100			100				100	100

General Notes:

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- Susceptibility to doxycycline was predicted based on tetracycline susceptibility testing results.

Organism-Specific Notes:

^^ 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.

Prepared by University Health Network/Mount Sinai Hospital Department of Microbiology

May 13, 2022

Toronto Western Hospital ANTIBIOGRAM
All Inpatients
January 1, 2021 - December 31, 2021

All Urine Isolates — % Susceptible

≥80% Susceptible
70-79% Susceptible
≤69% Susceptible

	#	%	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	**779**	—	20	60	75	78	64		7	46	49		6	80	55	67					
ALL GRAM-NEGATIVE BACTERIA	**600**	**100**	2	55	71	99	81		7	58	62	74		82	69	61	93	77	96		
Escherichia coli	**315**	**53**	1	69	76	100	96		3	74	80	80		75	73	97	89	62	96		
Pseudomonas aeruginosa	**77**	**13**			95	96						95		94			99	100	97		
Klebsiella pneumoniae	**61**	**10**	0	82	82	100	100		11	85	87	87		87	84	25	97	71	86		
Proteus mirabilis	**54**	**9**	17	89	94	100	100		33	91	94	94		91	83	0	96	100	100		
Enterobacter cloacae	**26**	**4**	0	0	0	96	92		0	0	0	0		92	92	31	96	88	96		
Klebsiella oxytoca	**17**	**3**	0	88	88	94	0		50	69	94	94		94	100	81	100	100	100		
Morganella morganii	**14**	**2**	0	0	0	100	100		0	0	0	0		64	79	0	93	100	93		
Klebsiella aerogenes	**11**	**2**	0	0	0	100	100		0	0	0	0		91	100	27	100	100	100		
Citrobacter koseri	**10**	**2**	0	0	0	100	100		0	0	0	0		100	100	100	100	100	100		
ALL GRAM-POSITIVE BACTERIA	**179**	**100**	78	78	86	8	8	8	8	8	8		26	72	8	87				98	
Enterococcus faecalis, all isolates	**141**	**79**	100	100	100								22	91		99				99	100
Enterococcus faecium, all isolates	**22**	**12**	0	0	0								5	0		10				95	100
- vancomycin-susceptible	**21**	**12**	0	0	0								5	0		10				100	100
- vancomycin-resistant (VRE)	**1**	**1**	0	0	0								0	0		0				0	100
Staphyloccocus aureus, all isolates	**15**	**8**			87	87	87	87	87	87			100		100	100				100	100
- methicillin-susceptible	**13**	**7**			100	100	100	100	100	100			100		100	100				100	100
- methicillin-resistant (MRSA)	**2**	**1**			0	0	0	0	0	0			100		100	100				100	100
Staphylococcus lugdunensis	**1**	**1**			100	100	100	100	100	100			100		100	100				100	100
Staphylococcus saprophyticus "	**1**	**1**																			

General Notes:

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- Susceptibility to doxycycline was predicted based on tetracycline susceptibility testing results.

Organism-Specific Notes:

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

Toronto Western Hospital ANTIBIOGRAM
All Inpatients
January 1, 2021 - December 31, 2021

All Non-Urine Isolates — % Susceptible

≥80% Susceptible
70-79% Susceptible
≤69% Susceptible

	#	%	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
ALL BACTERIA	**1283**	—	11	18				63	69	56		42	52									69					
ALL GRAM-NEGATIVE BACTERIA	**462**	**100**	13	34				67	96	58		21	40			66				85		58	94	96	98		
Pseudomonas aeruginosa	**138**	**30**						90	89							91				93			94	98	97		
Escherichia coli	**96**	**21**	29	62				72	99	98		49	78			78				71		70	87	88	95		
Klebsiella pneumoniae	**54**	**12**	0	81				83	100	100		65	85			85				96		94	100	100	100		
Enterobacter cloacae	**40**	**9**	0	0				5	100	95		0	0			0				95		89	89	89	100		
Haemophilus influenzae^^	**24**	**5**	75																								
Klebsiella oxytoca	**17**	**4**	0	94				88	100	100		67	94			94				94		94	100	100	100		
Proteus mirabilis	**17**	**4**	83	94				100	100	100		12	94			94				87		88	100	100	100		
Serratia marcescens	**17**	**4**	0	0				0	100	100		0	0			0				100		100	100	100	100		
Stenotrophomonas maltophilia'	**17**	**4**																			100	100					
Klebsiella aerogenes	**16**	**3**	0	0				0	94	94		0	0			0				94		100	100	100	100		
Citrobacter koseri	**10**	**2**	0	0				0	100	100		0	0			0				100		100	100	100	100		
Proteus vulgaris	**6**	**1**	0	0				17	100	100		0	0			0				80		80	80	100	100		
ALL GRAM-POSITIVE BACTERIA	**821**	**100**	10	10	3			61	54	54	52	54	59				61	43				75				97	
Coagulase-negative staphylococci	**400**	**49**						48	48	48	48	48					63	35	90			77				100	100
Staphyloccocus aureus, all isolates	**273**	**33**						90	90	90	90	89					78	69	96			99				100	100
- methicillin-susceptible	**249**	**30**						99	99	99	99	98					79	73	97			99				100	100
- methicillin-resistant (MRSA)	**24**	**3**						0	0	0	0	0					70	30	87			100				100	100
Enterococcus faecalis	**53**	**6**	100	100				100																		100	
Viridans group streptococci°	**29**	**4**											90													100	
Streptococcus anginosus group°°	**26**	**3**			35								100													100	
Enterococcus faecium, all isolates	**21**	**3**	29	29				29																		100	
Staphylococcus lugdunensis	**16**	**2**						88	88	88	88	88					94	94	94			100				100	100
Streptococcus pneumoniae	**8**	**1**				71	71							33	100		100	50			100					100	
Group A streptococci**	**6**	**1**			100												100	100								100	
Group B streptococci**	**6**	**1**			100												17	33								100	

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Organism-Specific Notes:

^^ 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.

****** Beta-hemolytic streptococci: Susceptibilty testing to penicillin is not routinely performed since resistant strains have not been recognized. All isolates are considered susceptible to penicillin.

° 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.