

Toronto Western Hospital ANTIBIOGRAM
Wards other than ICUs/Emergency
January 1, 2016 - December 31, 2016

Blood Isolates – % Susceptible

	#	%	Antibiotics																						
			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		
≥80% Susceptible ■ 70-79% Susceptible ■ ≤69% Susceptible ■																									
ALL BACTERIA	294	—	16	27	59	67	63	47	55								75								
ALL GRAM-NEGATIVE BACTERIA	109	100	23	53	72	100	90	46	63	73						72	74	94	91	100					
<i>Escherichia coli</i>	58	53	33	64	78	100	100	57	79	79						57	76	90	86	100					
<i>Klebsiella pneumoniae</i>	12	11	0	83	83	100	100	75	92	92						67	92	100	92	100					
<i>Pseudomonas aeruginosa</i>	11	10			100	100				100						91		100	100	100					
<i>Enterobacter cloacae</i>	8	7	0	0	0	100	100	0	0	0						100	88	100	100	100					
<i>Proteus mirabilis</i>	7	6	86	86	100	100	100	100	100	100						86	71	86	86	100					
<i>Klebsiella oxytoca</i>	5	5	0	100	100	100	100	20	100	100						100	100	100	100	100					
ALL GRAM-POSITIVE BACTERIA	185	100	11	11	6	52	47	47	41	47	51			53	29							99			
Coagulase-negative staphylococci	117	63				36	36	36	36	36				50	18	91					77		100	100	
<i>Staphylococcus aureus</i> , all isolates	38	21				87	87	87	87	87				70	60	92					97		100	100	
- methicillin-susceptible	33	18				100	100	100	100	100				75	69	94					100		100	100	
- methicillin-resistant (MRSA)	5	3				0	0	0	0	0				40	0	80					80		100	100	
Group B streptococci**	7	4			100									57	43								100		
Viridans group streptococci*	7	4									100												100		
<i>Enterococcus faecalis</i> , all isolates	7	4	100	100	100																		100		
- vancomycin-susceptible	7	4	100	100	100																		100		
- vancomycin-resistant (VRE)	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 vancomycin. If you have any questions, please contact the UHN/MSH Department of Microbiology.

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.
- * 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.

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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
ALL BACTERIA	84	—	14	23			70	88	45		49								51					
ALL GRAM-NEGATIVE BACTERIA	55	100	16	29			70	98	33		43	75					72		37	85	90	95		
<i>Pseudomonas aeruginosa</i>	21	38					62	95				86					86			90	95	100		
<i>Haemophilus influenzae</i> ^^	8	15	88																					
<i>Escherichia coli</i>	7	13	29	57			86	100	100		86	86					71		57	71	71	100		
<i>Moraxella catarrhalis</i> ^	4	7																						
<i>Klebsiella pneumoniae</i>	3	5	0	67			67	100	100		67	67					33		67	67	67	100		
ALL GRAM-POSITIVE BACTERIA	29	100	10	10	10		69	69	69	59	69	59		65	58				76				79	
<i>Staphylococcus aureus</i> , all isolates	19	66					89	89	89	89	89			79	73	89			100				100	100
- methicillin-susceptible	17	59					100	100	100	100	100			88	82	88			100				100	100
- methicillin-resistant (MRSA)	2	7					0	0	0	0	0			0	0	100			100				100	100
<i>Mycobacterium tuberculosis</i> complex	6	21																						
<i>Streptococcus pneumoniae</i>	4	14				75	75							100	75			100					100	

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.

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

≥80% Susceptible ■ 70-79% Susceptible ■ ≤69% Susceptible ■	#	%	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
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ALL BACTERIA	225	—	15	20	72	79	65				57							72					
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ALL GRAM-NEGATIVE BACTERIA	79	100	16	32	64	100	59				35	67				83	53	93	97	100		
<i>Pseudomonas aeruginosa</i>	27	34			85	100						93				85		93	100	100		
<i>Escherichia coli</i>	18	23	39	61	67	100	100				72	72				67	72	94	100	100		
<i>Enterobacter cloacae</i>	12	15	0	0	0	100	100				0	0				100	100	100	100	100		
<i>Proteus mirabilis</i>	7	9	71	100	100	100	100				100	100				86	71	100	100	100		
<i>Klebsiella pneumoniae</i>	6	8	0	83	83	100	100				83	83				100	83	83	83	100		

ALL GRAM-POSITIVE BACTERIA	146	100	14	14	5	76	68	68	62	68	69		73	62			83					99	
<i>Staphylococcus aureus</i> , all isolates	91	62				88	88	88	88	88			85	76	100		99					100	100
- methicillin-susceptible	80	55				100	100	100	100	100			84	82	100		99					100	100
- methicillin-resistant (MRSA)	11	8				0	0	0	0	0			91	36	100		100					100	100
Coagulase-negative staphylococci	30	21				37	37	37	37	37			70	43	90		77					100	100
<i>Enterococcus faecalis</i> , all isolates	12	8	100	100		100																100	
- vancomycin-susceptible	12	8	100	100		100																100	
- vancomycin-resistant (VRE)	0	0																					
Group A streptococci**	4	3			100								100	100								100	
<i>Enterococcus faecium</i> , all isolates	2	1	0	0		0																100	
- vancomycin-susceptible	2	1	0	0		0																100	
- vancomycin-resistant (VRE)	0	0																					
- vancomycin-susceptible (vanA+)	0	0																					
Group G streptococci**	2	1			100								100	100								100	
Viridans group streptococci°	2	1									100											100	

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Year-Specific Notes:

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Organism-Specific Notes:

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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		
ALL BACTERIA	610	—	38	69		80	78	73				37	60		8	75	58	75						
ALL GRAM-NEGATIVE BACTERIA	464	100	25	66		77	99	93				45	76	81		78	73	70	92	92	100			
<i>Escherichia coli</i>	302	65	29	70		78	100	100				40	83	83		71	73	96	92	91	100			
<i>Klebsiella pneumoniae</i>	59	13	0	88		86	100	98				83	90	90		92	90	25	95	93	100			
<i>Proteus mirabilis</i>	37	8	78	100		100	100	100				92	100	100		89	84	0	95	97	100			
<i>Pseudomonas aeruginosa</i>	25	5				92	92							92		88			92	100	100			
<i>Enterobacter cloacae</i>	13	3	0	0		0	100	85				0	0	0		100	92	38	100	100	100			
<i>Klebsiella oxytoca</i>	8	2	0	100		100	100	100				88	100	100		100	100	100	100	100	100			
<i>Morganella morganii</i>	6	1	0	0		0	100	100				0	0	0		67	67	0	67	83	100			
ALL GRAM-POSITIVE BACTERIA	146	100	79	79		89	10	10	10	10	10	10	10		31	66	11	90					100	
<i>Enterococcus faecalis</i> , all isolates	111	76	99	99		99									16	84		97					100	100
- vancomycin-susceptible	111	76	99	99		99									16	84		97					100	100
- vancomycin-resistant (VRE)	0	0																						
<i>Enterococcus faecium</i> , all isolates	17	12	18	18		18									76	12		35					100	100
- vancomycin-susceptible	17	12	18	18		18									76	12		35					100	100
- vancomycin-resistant (VRE)	0	0																						
- vancomycin-susceptible (vanA+)	0	0																						
<i>Staphylococcus aureus</i> , all isolates	15	10				93	93	93	93	93	93				93		100	100					100	100
- methicillin-susceptible	14	10				100	100	100	100	100	100				93		100	100					100	100
- methicillin-resistant (MRSA)	1	1				0	0	0	0	0	0				100		100	100					100	100

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