

Toronto Western Hospital ANTIBIOGRAM

Intensive Care Units

January 1, 2019 - December 31, 2019

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	158	—	11	18	31	34	32		19	29							83						
ALL GRAM-NEGATIVE BACTERIA	31	100	8	45	60	97	87		20	60	64					81	61	90	86	100			
<i>Escherichia coli</i>	12	39	12	58	67	100	100		17	83	83					83	42	75	75	100			
<i>Klebsiella pneumoniae</i>	6	19	0	67	67	100	100		67	67	67					67	67	100	83	100			
<i>Pseudomonas aeruginosa</i>	3	10			67	67					67					67		100	100	100			
<i>Enterobacter cloacae</i>	2	6	0	0	0	100	100		0	0	0					100	100	100	100	100			
<i>Serratia marcescens</i>	2	6	0	0	0	100	100		0	0	0					100	100	100	100	100			
<i>Klebsiella oxytoca</i>	2	6	0	100	100	100	100		0	100	100					100	100	100	100	100			
ALL GRAM-POSITIVE BACTERIA	127	100	12	12	2	25	19	19	15	19	22		15	15			89					99	
Coagulase-negative staphylococci	82	65				0	0	0	0	0			0	0	100		100					100	100
<i>Staphylococcus aureus</i> , all isolates	22	17				86	86	86	86	86			73	64	100		100					100	100
- methicillin-susceptible	19	15				100	100	100	100	100			74	74	100		100					100	100
- methicillin-resistant (MRSA)	3	2				0	0	0	0	0			67	0	100		100					100	100
<i>Enterococcus faecalis</i> , all isolates	9	7	100	100	100																	100	
- vancomycin-susceptible	9	7	100	100	100																	100	
- vancomycin-resistant (VRE)	0	0																					
<i>Enterococcus faecium</i> , all isolates	4	3	25	25	25																	75	
- vancomycin-susceptible	3	2	33	33	33																	100	
- vancomycin-resistant (VRE)	1	1	0	0	0																	0	100
- vancomycin-susceptible (vanA+)	0	0																					
Viridans group streptococci*	4	3									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, NICU.

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:

- * 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

		<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	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	175	—	10	22			79	90	59		35	59										68				
ALL GRAM-NEGATIVE BACTERIA	108	100	16	35			71	94	44		5	41			69				81		48	88	84	98		
<i>Pseudomonas aeruginosa</i>	36	33					86	83							86				92			92	97	97		
<i>Haemophilus influenzae</i> ^{^^}	16	15	69																							
<i>Klebsiella pneumoniae</i>	14	13	0	71			79	100	100		40	79			79				86		79	86	70	100		
<i>Escherichia coli</i>	13	12	17	38			38	100	100		0	46			46				62		54	69	44	100		
<i>Serratia marcescens</i>	6	6	0	0			0	100	100		0	0			0				83		100	100	100	100		
<i>Stenotrophomonas maltophilia</i> [†]	5	5																	100	100						
ALL GRAM-POSITIVE BACTERIA	67	100					91	84	84	84	84	87				82	70				98				100	
<i>Staphylococcus aureus</i> , all isolates	61	91					90	90	90	90	90					84	70	100			98				100	100
- methicillin-susceptible	55	82					100	100	100	100	100					84	76	100			98				100	100
- methicillin-resistant (MRSA)	6	9					0	0	0	0	0					83	17	100			100				100	100
<i>Streptococcus pneumoniae</i>	5	7			0	100							50	100		60	60			100					100	
Coagulase-negative staphylococci	1	1					100	100	100	100	100					100	100	100			100				100	100

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- Susceptibility to doxycycline was predicted based on tetracycline susceptibility testing results.
- ICUs include MSICU, NICU.

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.

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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
ALL BACTERIA	49	—	8	10	67	74	59		41	45							67					
ALL GRAM-NEGATIVE BACTERIA	19	100	11	16	63	90	53		5	16	63				79		42	95	84	100		
<i>Pseudomonas aeruginosa</i>	9	47			100	78					100				89			100	100	100		
<i>Klebsiella pneumoniae</i>	3	16	0	33	33	100	100		0	33	33				67		67	100	0	100		
<i>Escherichia coli</i>	2	11	50	50	50	100	100		50	50	50				100		50	100	100	100		
<i>Serratia marcescens</i>	2	11	0	0	0	100	100		0	0	0				100		100	100	100	100		
<i>Proteus mirabilis</i>	1	5	100	100	100	100	100				100	100			0		100	0	100	100		
<i>Morganella morganii</i>	1	5	0	0	0	100	100		0	0	0				100		100	100	100	100		
<i>Providencia stuartii</i>	1	5	0	0	0	100	100		0	0	0				0		100	100	100	100		
ALL GRAM-POSITIVE BACTERIA	30	100	7	7	70	63	63	63	63	63		64	53				83				97	
<i>Staphylococcus aureus</i> , all isolates	18	60			89	89	89	89	89		67	61	94				100				100	100
- methicillin-susceptible	17	57			94	94	94	94	94		71	65	94				100				100	100
- methicillin-resistant (MRSA)	1	3			0	0	0	0	0		0	0	100				100				100	100
Coagulase-negative staphylococci	8	27			38	38	38	38	38		88	62	100				88				100	100
<i>Enterococcus faecium</i> , all isolates	2	7	0	0	0																50	
- vancomycin-susceptible	1	3	0	0	0																100	
- vancomycin-resistant (VRE)	1	3	0	0	0																0	100
- vancomycin-susceptible (vanA+)	0	0																				
<i>Enterococcus faecalis</i> , all isolates	2	7	100	100	100																100	
- vancomycin-susceptible	2	7	100	100	100																100	
- vancomycin-resistant (VRE)	0	0																				

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- Susceptibility to doxycycline was predicted based on tetracycline susceptibility testing results.
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January 1, 2019 - December 31, 2019

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	153	—	32	57		72	72	61		3	39	40		9	73	40	70						
ALL GRAM-NEGATIVE BACTERIA	112	100	12	46		67	96	81		3	51	53	69		70	54	64	86	79	98			
<i>Escherichia coli</i>	63	56	15	57		67	100	100		5	65	68	68		60	59	100	81	72	100			
<i>Pseudomonas aeruginosa</i>	20	18				80	80						85		75			90	95	90			
<i>Klebsiella pneumoniae</i>	14	13	0	64		64	100	100		0	64	64	64		79	71	29	86	64	100			
<i>Proteus mirabilis</i>	6	5	75	100		100	100	100			100	100	100		100	83	0	100	100	100			
<i>Enterobacter cloacae</i>	2	2	0	0		0	100	100		0	0	0	0		100	100	0	100	100	100			
<i>Citrobacter freundii</i>	2	2	0	0		0	100	100		0	0	0	0		100	100	100	100	100	100			
<i>Citrobacter braakii</i>	2	2	0	0		0	100	100		0	0	0	0		100	100	100	100	100	100			
ALL GRAM-POSITIVE BACTERIA	41	100	85	85	2	88	5	5	2	5	5	5		33	80	3	85				95		
<i>Enterococcus faecalis</i> , all isolates	32	78	100	100		100									25	94		100				100	
- vancomycin-susceptible	32	78	100	100		100									25	94		100				100	
- vancomycin-resistant (VRE)	0	0																					
<i>Enterococcus faecium</i> , all isolates	6	15	17	17		17									50	17		0				83	100
- vancomycin-susceptible	5	12	20	20		20									60	20		0				100	100
- vancomycin-resistant (VRE)	1	2	0	0		0									0	0		0				0	100
- vancomycin-susceptible (vanA+)	0	0																					
<i>Staphylococcus aureus</i> , all isolates	1	2				100	100	100	100	100	100	100			100		100	100				100	100
- methicillin-susceptible	1	2				100	100	100	100	100	100	100			100		100	100				100	100
- methicillin-resistant (MRSA)	0	0																					
Group B streptococci**	1	2			100																	100	
<i>Enterococcus gallinarum</i>	1	2	100	100		100									100	100		100				0	

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- ICUs include MSICU, NICU.

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.