

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

Blood Isolates – % Susceptible

Antibiotic Isolates		% Susceptible	
		#	%
	<div> <div></div> <div>≥80% Susceptible</div> </div> <div> <div></div> <div>70-79% Susceptible</div> </div> <div> <div></div> <div>≤69% Susceptible</div> </div>		
	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		
	Vancomycin		
	Linezolid		

[illegible]

ALL GRAM-NEGATIVE BACTERIA	43	100	9	26		49	98	72		21	29		49			81		65	95	100	100		
<i>Escherichia coli</i>	9	21	44	44		44	100	100		44	44		44			67		56	100	100	100		
<i>Enterobacter cloacae</i>	9	21	0	0		11	100	100		0	11		11			100		100	100	100	100		
<i>Pseudomonas aeruginosa</i>	8	19				100	100						100			100			88	100	100		
<i>Klebsiella pneumoniae</i>	7	16	0	86		71	86	86		71	86		86			71		71	86	100	100		
<i>Stenotrophomonas maltophilia</i>	2	5															100	100					
<i>Klebsiella aerogenes</i>	2	5	0	0		0	100	100		0	0		0			50		50	100	100	100		

[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, 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

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

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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
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ALL BACTERIA	149	—	18	50	62	77	68			1	1	40		7	65	45	59					
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ALL GRAM-NEGATIVE BACTERIA	113	100	2	45	59	100	88					52	62		65	59	55	94	81	100		
<i>Escherichia coli</i>	57	50	4	48	58	100	100			0		61	61	0	44	61	89	95	75	100		
<i>Klebsiella pneumoniae</i>	22	19	0	73	68	100	100			0		77	77		86	68	36	95	67	100		
<i>Pseudomonas aeruginosa</i>	13	12			85	100						85			92			92	100	100		
<i>Enterobacter cloacae</i>	9	8	0	0	11	100	100			0	0	0	0	0	100	100	33	100	100	100		
<i>Proteus mirabilis</i>	7	6	0	100	100	100	100			0		100	100		71	71	0	71	100	100		

ALL GRAM-POSITIVE BACTERIA	36	100	67	67	69	3	3	3	3	3	3				31	68	3	69				89
<i>Enterococcus faecalis</i>	23	64	100	100	100										26	96		100				100
<i>Enterococcus faecium</i> , all isolates	12	33	8	8	8										34	19		8				67
- vancomycin-susceptible	8	22	12	12	12										38	29		12				100
- vancomycin-resistant (VRE)	4	11	0	0	0										25	0		0				0
<i>Staphylococcus aureus</i>	1	3			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.
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All Specimens – % Susceptible

ALL BACTERIA	534	—	14	33				68	81	62				32	28	54						44	81		66	63					
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ALL GRAM-NEGATIVE BACTERIA	306	100	11	43			64	99	66	14	51		63		15	79	64	44	94	96	100		
<i>Escherichia coli</i>	78	25	16	51			61	100	100	21	64		64		50	52	60	90	94	90	100		
<i>Pseudomonas aeruginosa</i>	50	16					88	96					90			90			90	100	100		
<i>Klebsiella pneumoniae</i>	45	15	0	84			82	98	93	53	0	87	87			89	80	31	96	92	100		
<i>Haemophilus influenzae</i> ^{^^}	33	11	52																				
<i>Enterobacter cloacae</i>	30	10	0	0			7	100	97	0	0	3	3		0	97	97	43	100	100	100		
<i>Klebsiella aerogenes</i>	13	4	0	0			0	100	100	0	0	0	0			92	92	15	100	100	100		
<i>Stenotrophomonas maltophilia</i> [†]	13	4														92	100	0					
<i>Proteus mirabilis</i>	12	4	25	100			100	100	100	25		100	100			75	67	0	75	100	100		
<i>Klebsiella oxytoca</i>	9	3	0	89			89	100	100	0		100	100			100	100	100	100	100	100		
<i>Citrobacter koseri</i>	5	2	0	0			0	100	100	0	0	0	0			100	100	80	100	100	100		

ALL GRAM-POSITIVE BACTERIA	228	100	19	19	6			73	58	58	53	57	66	58				57	50	77	84		67	86				97	100
Coagulase-negative staphylococci	166	73						40	40	40	40	40						43	29	94	100		58	97				100	100
<i>Staphylococcus aureus</i> , all isolates	123	54						87	87	87	87	84	84					83	78	97	87		99	93				100	100
- methicillin-susceptible	107	47						100	100	100	100	97	97					84	79	96	100		99	94				100	100
- methicillin-resistant (MRSA)	16	7						0	0	0	0	0	0					75	69	100		100	88				100	100	
<i>Enterococcus faecalis</i>	31	14	100	100				100												26	96		100				100	100	
<i>Enterococcus faecium</i> , all isolates	22	10	5	5				5												34	20		8				68	96	
- vancomycin-susceptible	15	7	7	7				7												38	29		12				100	100	
- vancomycin-resistant (VRE)	7	3	0	0				0												25	0		0				0	86	
<i>Streptococcus pneumoniae</i>	7	3				100	100											60	80		100	50		100				100	
Group A streptococci**	6	3			100															67	50							100	

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Year-Specific Notes:

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- All specimens exclude surveillance samples.

Organism-Specific Notes:

^a 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

** 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.

⁴ *S. maltophilia*: Susceptibility to moxifloxacin was predicted based on levofloxacin susceptibility testing results.