

Toronto Western Hospital ANTIBIOGRAM
Emergency Department
January 1, 2020 - December 31, 2020

Blood Isolates – % Susceptible

	#	%	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

ALL BACTERIA	541	—	9	30		65	65	64		53	64									61				
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ALL GRAM-NEGATIVE BACTERIA	158	100	6	77		87	100	94		56	82			87				85		77	95	96	99	
<i>Escherichia coli</i>	99	63	9	86		93	100	100		70	93			93				80		80	94	94	99	
<i>Klebsiella pneumoniae</i>	17	11	0	100		100	100	100		94	100			100				94		100	100	94	100	
<i>Proteus mirabilis</i>	17	11	0	88		88	100	100		12	88			88				82		76	100	100	100	
<i>Pseudomonas aeruginosa</i>	9	6				100	100							100				100			89	100	100	
<i>Klebsiella oxytoca</i>	4	3	0	100		100	100	100		25	100			100				100		100	75	100	100	

ALL GRAM-POSITIVE BACTERIA	383	100	11	11	7	56	51	51	45	51	56									53				99	
Coagulase-negative staphylococci	269	70				50	50	50	50	50								25	25	100		50		100	100
<i>Staphylococcus aureus</i> , all isolates	44	11				80	80	80	80	80								82	56	93		98		100	100
- methicillin-susceptible	35	9				100	100	100	100	100								80	71	91		100		100	100
- methicillin-resistant (MRSA)	9	2				0	0	0	0	0								89	0	100		89		100	100
<i>Enterococcus faecalis</i>	15	4	100	100		100																		100	
Viridans group streptococci*	14	4									100													100	
Group A streptococci**	13	3			100										82	82								100	
Group B streptococci**	7	2			100										67	67								100	
<i>Enterococcus faecium</i> , all isolates	6	2	17	17		17																		83	
- vancomycin-susceptible	5	1	20	20		20																		100	
- vancomycin-resistant (VRE)	1	0	0	0		0																		0	100
Group G streptococci**	5	1			100										60	60								100	
<i>Streptococcus pneumoniae</i>	5	1									100	100								60				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 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

	#	%	Ampicillin	Amoxicillin-Clavulanic acid	Penicillin	Piperacillin-Tazobactam	Meropenem	Ertapenem	Cloxacillin	Cefazolin	Ceftriaxone	Ceftazidime	Clindamycin	Erythromycin	Doxycycline	Ciprofloxacin	Trimethoprim-Sulfamethoxazole	Gentamicin	Tobramycin	Amikacin	Vancomycin	Linezolid	
ALL BACTERIA	14	—	14	29		79	86	43		36	50						40						
ALL GRAM-NEGATIVE BACTERIA	7	100		29		86	100	14			29	86					100	20	100	100	100		
<i>Pseudomonas aeruginosa</i>	4	57				100	100					100					100		100	100	100		
<i>Serratia marcescens</i>	1	14	0	0		0	100	100		0	0	0					100	100	100	100	100		
ALL GRAM-POSITIVE BACTERIA	7	100	29	29	29	71	71	71	43	71	71		40	40			60					71	
<i>Staphylococcus aureus</i>	3	43				100	100	100	100	100			67	67	67		100					100	100
<i>Mycobacterium tuberculosis complex</i>	2	29																					
Viridans group streptococci ^o	2	29			100						100											100	

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Organism-Specific Notes:

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Skin, Wound and Abscess Isolates – % Susceptible

	#	%	Antibiotics																				
			Ampicillin	Amoxicillin-Clavulanic acid	Penicillin	Piperacillin-Tazobactam	Meropenem	Ertapenem	Cloxacillin	Cefazolin	Ceftriaxone	Ceftazidime	Clindamycin	Erythromycin	Doxycycline	Ciprofloxacin	Trimethoprim-Sulfamethoxazole	Gentamicin	Tobramycin	Amikacin	Vancomycin	Linezolid	
≥80% Susceptible ■ 70-79% Susceptible ■ ≤69% Susceptible ■																							
ALL BACTERIA	130	—	6	14	73	77	66	55	61							86							
ALL GRAM-NEGATIVE BACTERIA	34	100	3	32	71	97	56	12	32	71					85	59	97	79	94				
<i>Pseudomonas aeruginosa</i>	13	38			100	92				100					92		100	100	100				
<i>Klebsiella pneumoniae</i>	6	18	0	100	100	100	100	67	100	100					100	100	100	100	100				
<i>Escherichia coli</i>	4	12	0	75	75	100	100	0	75	75					50	100	75	0	100				
<i>Enterobacter cloacae</i>	3	9	0	0	0	100	100	0	0	0					67	67	100	67	100				
<i>Serratia marcescens</i>	2	6	0	0	0	100	100	0	0	0					100	100	100	100	100				
ALL GRAM-POSITIVE BACTERIA	96	100	7	7	3	74	70	70	67	70	71	80	60			96					99		
<i>Staphylococcus aureus</i> , all isolates	85	89				74	74	74	74	74		84	62	94		100					100	100	
- methicillin-susceptible	63	66				100	100	100	100	100		81	71	94		100					100	100	
- methicillin-resistant (MRSA)	22	23				0	0	0	0	0		91	36	95		100					100	100	
<i>Enterococcus faecalis</i>	3	3	100	100		100															100		
Coagulase-negative staphylococci	2	2				50	50	50	50	50					50	50	100				100	100	
Group A streptococci**	2	2				100									100	100					100		
Group B streptococci**	1	1				100									100	100					100		
<i>Enterococcus</i> species	1	1	100	100		100															100		
<i>Streptococcus anginosus</i> group ^{°°}	1	1				0				0											0		
Viridans group streptococci [°]	1	1								100											100		

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

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.
- °° *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.

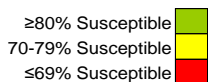
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Urine Isolates – % Susceptible

		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	673	—	19	72	82	86	74		7	65	68		###	68	77						
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ALL GRAM-NEGATIVE BACTERIA	#	%	7	71	80	100	86		5	75	78	82	79	78	73	92	61	90				
<i>Escherichia coli</i>	369	66	0	76	83	100	100		7	83	86	86	74	78	96	90	56	100				
<i>Klebsiella pneumoniae</i>	69	12	0	94	94	100	100		0	94	94	94	93	94	43	97	100	100				
<i>Proteus mirabilis</i>	39	7	97	95	97	100				95	97	97	82	87	0	95						
<i>Pseudomonas aeruginosa</i>	25	4			96	92						96	80			92	92	92				
<i>Klebsiella oxytoca</i>	14	3	0	93	93	100			0	64	93	93	100	93	86	100						
<i>Klebsiella aerogenes</i>	8	1	0	0	0	100	100		0	0	0	0	88	100	38	100	100	100				
<i>Morganella morganii</i>	7	1	0	0	0	100	100		0	0	0	0	86	71	0	100	100	100				
<i>Enterobacter cloacae</i>	6	1	0	0	0	100	100		0	0	0	0	80	83	50	100	100	100				
<i>Citrobacter koseri</i>	5	1	0	0	0	100	100		0	0	0	0	100	100	100	60	100	100	100			

ALL GRAM-POSITIVE BACTERIA	#	%	75	75	94	19	19	19	19	18	19		41	62	17	92				98	98
<i>Enterococcus faecalis</i>	85	73	100	100	100								28	75		96				100	100
<i>Staphylococcus aureus</i> , all isolates	17	15			82	82	82	82	82	82			94		100	94				100	100
- methicillin-susceptible	14	12			100	100	100	100	100	100			93		100	93				100	100
- methicillin-resistant (MRSA)	3	3			0	0	0	0	0	0			100		100	100				100	100
<i>Staphylococcus saprophyticus</i> *	9	8																			
<i>Enterococcus faecium</i> , all isolates	4	3	50	50	50								75	25		25				50	50
- vancomycin-susceptible	2	2	100	100	100								100	50		50				100	
- vancomycin-resistant (VRE)	2	2	0	0	0								50	0		0				0	100
Coagulase-negative staphylococci	1	1			100	100	100	100	100				100		100	100				100	100

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Organism-Specific Notes:

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