

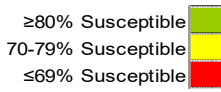
# Toronto Western Hospital ANTIBIOGRAM

## Intensive Care Units

### January 1, 2021 - December 31, 2021

#### Blood Isolates – % 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



<b>ALL BACTERIA</b>	263	—	10	16		45	43	40		32	41							66					
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<b>ALL GRAM-NEGATIVE BACTERIA</b>	39	100	15	54		68	100	85		31	58	72				90		74	95	97	97		
<i>Escherichia coli</i>	10	26	50	90		90	100	100		50	90	90				70		50	90	100	100		
<i>Klebsiella pneumoniae</i>	10	26	0	80		80	100	100		40	90	90				100		100	100	100	100		
<i>Enterobacter cloacae</i>	6	15	0	0		0	100	100		0	0	0				100		100	100	100	100		
<i>Pseudomonas aeruginosa</i>	5	13				100	100					100				100			100	100	100		
<i>Klebsiella oxytoca</i>	3	8	0	100		100	100	100		100	100	100				100		100	100	100	100		

<b>ALL GRAM-POSITIVE BACTERIA</b>	224	100	9	9	0	41	33	33	32	33	38		43	14				65					99	
Coagulase-negative staphylococci	162	72				31	31	31	31	31			46	8	92			69					100	100
<i>Staphylococcus aureus</i> , all isolates	25	11				88	88	88	88	88			64	60	96			100					100	100
- methicillin-susceptible	22	10				100	100	100	100	100			73	68	100			100					100	100
- methicillin-resistant (MRSA)	3	1				0	0	0	0	0			0	0	67			100					100	100
<i>Enterococcus faecalis</i>	18	8	100	100		100																	100	
Viridans group streptococci*	7	3								100													100	
<i>Enterococcus faecium</i>	5	2	40	40		40																	100	
<i>Streptococcus anginosus</i> group**	5	2			0					100													80	

**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.
- \*\* 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  
Intensive Care Units  
January 1, 2021 - December 31, 2021**

**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

<b>ALL BACTERIA</b>	284	—	9	25				74	95	63		38	58									78					
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<b>ALL GRAM-NEGATIVE BACTERIA</b>	189	100	11	34				65	97	49		11	42		62					82	67	96	89	90		
<i>Pseudomonas aeruginosa</i>	44	23						95	91						98					95		95	95	98		
<i>Klebsiella pneumoniae</i>	28	15	0	82				82	100	100		57	86		86					96		93	100	100	100	
<i>Escherichia coli</i>	22	12	10	55				64	100	100		20	68		68					82		77	95	100	100	
<i>Haemophilus influenzae</i> <sup>^^</sup>	20	11	75																							
<i>Stenotrophomonas maltophilia</i> <sup>†</sup>	15	8																		100	100					
<i>Klebsiella aerogenes</i>	12	6	0	0				0	92	92		0	0		0					83		100	100	100	100	
<i>Serratia marcescens</i>	12	6	0	0				0	100	100		0	0		0					100		100	100	100	100	
<i>Enterobacter cloacae</i>	10	5	0	0				0	100	100		0	0		0					100		90	100	100	100	
<i>Klebsiella oxytoca</i>	8	4	0	88				75	100			0	88		88					88		88	100			
<i>Citrobacter koseri</i>	5	3	0	0				0	100	100		0	0		0					100		100	100	100	100	

<b>ALL GRAM-POSITIVE BACTERIA</b>	95	100	5	5	5			91	91	91	85	91	85			76	67				99				99	
<i>Staphylococcus aureus</i> , all isolates	87	92						94	94	94	94	94				76	70	98			100				100	100
- methicillin-susceptible	82	86						100	100	100	100	100				79	74	99			100				100	100
- methicillin-resistant (MRSA)	5	5						0	0	0	0	0				20	0	80			100				100	100
<i>Streptococcus pneumoniae</i>	8	8				62	62							0	67	88	50			100					100	
<i>Staphylococcus lugdunensis</i>	1	1						100	100	100	100	100				100	100	100			100				100	100

**General Notes:**

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- 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.

**Organism-Specific Notes:**

<sup>^^</sup> *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.

<sup>†</sup> *S. maltophilia*: Susceptibility to moxifloxacin was predicted based on levofloxacin susceptibility testing results.

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**Intensive Care Units**  
**January 1, 2021 - December 31, 2021**

**Skin, Wound and Abscess Isolates – % Susceptible**

	#	%	Ampicillin	Amoxicillin-Clavulanic acid	Piperacillin-Tazobactam	Meropenem	Ertapenem	Cloxacillin	Cefazolin	Ceftriaxone	Ceftazidime	Clindamycin	Erythromycin	Doxycycline	Ciprofloxacin	Trimethoprim-Sulfamethoxazole	Gentamicin	Tobramycin	Amikacin	Vancomycin	Linezolid
<div style="display: flex; align-items: center;"> <div style="width: 20px; height: 10px; background-color: #92d050; margin-right: 5px;"></div> <span>≥80% Susceptible</span>  <div style="width: 20px; height: 10px; background-color: #ffff00; margin-right: 5px; margin-top: 5px;"></div> <span>70-79% Susceptible</span>  <div style="width: 20px; height: 10px; background-color: #ff0000; margin-right: 5px; margin-top: 5px;"></div> <span>≤69% Susceptible</span> </div>																					

<b>ALL BACTERIA</b>	28	–	13	13	57	57	43	30	40							57					
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ALL GRAM-NEGATIVE BACTERIA	10	100	10	10	50	80	40		30	60			80	30	90	80	100		
<i>Pseudomonas aeruginosa</i>	6	60			50	67				50			67		100	100	100		
<i>Escherichia coli</i>	2	20	0	0	50	100	100		0	100	100		100	50	50	0	100		
<i>Enterobacter cloacae</i>	1	10	0	0	0	100	100		0	0	0		100	100	100	100	100		
<i>Proteus mirabilis</i>	1	10	100	100	100	100	100		0	100	100		100	100	100	100	100		

ALL GRAM-POSITIVE BACTERIA	18	100	15	15	60	45	45	45	45	45	56	44		72			85		
Coagulase-negative staphylococci	8	44			62	62	62	62	62		75	50	88		88			100	100
<i>Staphylococcus aureus</i> , all isolates	6	33			67	67	67	67	67		67	67	100		100			100	100
- methicillin-susceptible	4	22			100	100	100	100	100		100	100	100		100			100	100
- methicillin-resistant (MRSA)	2	11			0	0	0	0	0		0	0	100		100			100	100
<i>Enterococcus faecalis</i>	3	17	100	100	100													100	
<i>Streptococcus anginosus</i> group*°	2	11							100									100	
<i>Staphylococcus lugdunensis</i>	1	6			0	0	0	0	0		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:**

\*° *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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Intensive Care Units  
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**Urine Isolates – % Susceptible**

≥80% Susceptible <span style="color: green;">■</span> 70-79% Susceptible <span style="color: yellow;">■</span> ≤69% Susceptible <span style="color: red;">■</span>		#	%	Ampicillin	Amoxicillin-Clavulanic acid	Piperacillin-Tazobactam	Meropenem	Ertapenem	Cloxacillin	Cefazolin	Cephalixin	Ceftriaxone	Ceftazidime	Doxycycline	Ciprofloxacin	Trimethoprim-Sulfamethoxazole	Nitrofurantoin	Gentamicin	Tobramycin	Amikacin	Vancomycin	Linezolid
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<b>ALL BACTERIA</b>	145	—	24	63	76	71	51		7	43	44		7	78	47	71						
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<b>ALL GRAM-NEGATIVE BACTERIA</b>	103	100	55	71	99	71		8	58	60	73		80	64	65	92	75	90				
<i>Escherichia coli</i>	61	59	0	66	72	98	88		0	72	75	75		70	64	95	89	75	100			
<i>Pseudomonas aeruginosa</i>	13	13			100	100						100		100			92	100	100			
<i>Proteus mirabilis</i>	8	8	0	88	88	100	100		100	88	88	88		88	75	0	100	100	100			
<i>Klebsiella pneumoniae</i>	7	7	0	100	100	100				100	100	100		100	100	14	100					
<i>Enterobacter cloacae</i>	4	4	0	0	0	100	100		0	0	0	0		100	100	50	100	100	100			

<b>ALL GRAM-POSITIVE BACTERIA</b>	42	100	83	83	88	4	4	4	4	4	4		24	73	2	85					100	
<i>Enterococcus faecalis</i>	34	81	100	100	100								26	85		97					100	
<i>Enterococcus faecium</i>	5	12	0	0	0								0	0		0					100	100
<i>Enterococcus species</i>	1	2	100	100	100								0	100		100					100	
<i>Staphylococcus aureus</i>	1	2			100	100	100	100	100	100			100		100	100					100	100
<i>Staphylococcus saprophyticus</i> <sup>†</sup>	1	2																				

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- ICUs include MSICU, NICU.

**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.