

## Sault Area Hospital January - December 2021 Antibiogram report

### All Location Non-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>			# of isolates	Ampicillin	Amoxicillin-Clavulanic Acid	Penicillin	Cloxacillin	Piperacillin-Tazobactam	Ertapenem	Meropenem	Cefazolin	Ceftriaxone	Ceftazidime	Clindamycin	Erythromycin	Trimethoprim-Sulfamethoxazole	Ciprofloxacin	Levofloxacin	Gentamicin	Tobramycin	Amikacin	Doxycycline	Vancomycin	Linezolid		
Organism																												
<b>Gram-Negative</b>	<b>GRAM-NEGATIVE ORGANISMS</b>																											
	<i>Pseudomonas aeruginosa</i>	184					87			91					94					90	79*	98	99	100				
	<i>Escherichia coli</i>	129	53	77			83	100	100	80	87	87							81	62		89	92	100	86			
	<i>Klebsiella pneumoniae</i>	44	0	80			80	100	100	77	80	80							80	63		93	100	100	89			
	<i>Enterobacter cloacae cplx</i>	22	0	0			0	95	95	0									100	91		100	100	100	81			
	<i>Proteus mirabilis</i>	22	82	83			91	100	100	86	91	91							100	59		95	95	100	0			
<b>Gram-Positive</b>	<b>GRAM-POSITIVE ORGANISMS</b>																											
	Staphylococcus aureus, all isolates	707				70	70	70	70	70						77	58		100	66					96	100		
	-methicillin-susceptible	498				100	100	100	100	100						79	75		100	87					97	100		
	- methicillin-resistant (MRSA)	209				0	0	0	0	0						73	17		100	15					93	100	100	
	Coagulase-negative staphylococci	252				48	48	48	48	48						59	37		100	71					87	100		
	Group A streptococci	192			100												84	85								100		
	Streptococcus agalactiae	46			100												54	49								100		
	Group G streptococci	46			100												76	76								100		
	<i>Streptococcus pneumoniae</i>	36			95												97	86	97		100				89	100		
	<i>Enterococcus faecalis</i>	27	100	100	100		100																			100	100	
	<i>Streptococcus anginosus group</i>	17			100												88	88								100		
Group C streptococci	16			100												88	88								100			

**General Notes:**

- Statistical validity of estimates of percent susceptibility for organisms for which there are fewer than 30 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
- Patient duplicates excluded
- Non-urine Isolates includes all specimen types other than urine and surveillance
- \*Levofloxacin susceptibility results based on testing from respiratory isolates only
- Susceptibility to doxycycline was predicted based on tetracycline susceptibility testing results.

## Sault Area Hospital January - December 2021 Antibioqram report

### All Locations Urine Isolates – % Susceptible

Organism	# of isolates	Antibiotics																					
		Ampicillin	Amoxicillin-Clavulanic Acid	Penicillin	Cloxacillin	Piperacillin-Tazobactam	Ertapenem	Meropenem	Cephalexin	IV Cefazolin	Ceftriaxone	Ceftazidime	Clindamycin	Erythromycin	Trimethoprim-Sulfamethoxazole	Ciprofloxacin	Nitrofurantoin	Gentamicin	Tobramycin	Amikacin	Doxycycline	Vancomycin	Linezolid
<b>GRAM-NEGATIVE ORGANISMS</b>																							
<i>Escherichia coli</i>	779	63	83			90	100	100	90	85	94	94			83	71	96	95	96	100	84		
<i>Klebsiella pneumoniae</i>	154	0	92			94	100	100	92	91	94	94			95	81	25	97	98	100	91		
<i>Pseudomonas aeruginosa</i>	88					85		86				90				80		96	99	100			
<i>Proteus mirabilis</i>	68	88	93			100	100	100	97	93	100	100			88	69	0	90	94	100	0		
<i>Klebsiella oxytoca</i>	47	0	81			81	100	100		34	84	84			100	88	79	100	100	100	98		
<i>Enterobacter cloacae complex</i>	45	0	0			0	100	100		0					93	80	40	93	93	100	90		
<i>Citrobacter species</i>	40	0	0			0	100	100		0					92	79	88	100	100	100	88		
<i>Serratia marcescens</i>	27	0	0			0	100	100		0					89	59	0	100	93	100	14		
<i>Morganella morganii</i>	16	0	0			0	100	100		0					88	56	0	100	93	100	43		
<i>Klebsiella (Enterobacter) aerogenes</i>	13	0	0			0	100	100		0					100	100	8	100	100	100	100		
<b>GRAM-POSITIVE ORGANISMS</b>																							
<i>Enterococcus faecalis</i>	108	100	100	100		100										67	99				25	100	100
Staphylococcus aureus, all isolates	33				73	73	73	73	73	73					100	46	100				97	100	
-methicillin-susceptible	24				100	100	100	100	100	100					100	63	100				96	100	
- methicillin-resistant (MRSA)	9				0	0	0	0	0	0					100	0	100				100	100	
Coagulase-negative staphylococci	40				52	52	52	52		52					75	50	100				100	100	
<i>Enterococcus faecium</i>	24	8	8	8		8										4	17				17	100	100

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

Prepared by Senior Technologist Microbiology

Nov-22

## Sault Area Hospital January - December 2021 Antibigram report

### In-Patient Non-Urine Isolates – % Susceptible

Organism	# of isolates	Antibiotics																				
		Ampicillin	Amoxicillin-Clavulanic Acid	Penicillin	Cloxacillin	Piperacillin-Tazobactam	Ertapenem	Meropenem	Cefazolin	Ceftriaxone	Ceftazidime	Clindamycin	Erythromycin	Trimethoprim-Sulfamethoxazole	Ciprofloxacin	Levofloxacin	Gentamicin	Tobramycin	Amikacin	Doxycycline	Vancomycin	Linezolid
<b>GRAM-NEGATIVE ORGANISMS</b>																						
<i>Pseudomonas aeruginosa</i>	63					86		90			92				91	83*	97	98	100			
<i>Escherichia coli</i>	34	47	71			82	100	100	76	84	84			85	63		91	93	100	97		
<i>Klebsiella pneumoniae</i>	11	0	70			70	100	100	73	70	70			82	57		91	100	100	80		
<b>GRAM-POSITIVE ORGANISMS</b>																						
Staphylococcus aureus, all isolates	121				84	84	84	84	84			71	62	100	73					97	100	
-methicillin-susceptible	102				100	100	100	100	100			76	73	100	84					98	100	
- methicillin-resistant (MRSA)	19				0	0	0	0	0			47	5	100	16					89	100	100
Coagulase-negative staphylococci	88				27	27	27	27	27			48	33	56	66					93	100	
<i>Streptococcus pneumoniae</i>	19			89								95	84	95		100				95	100	
<i>Enterococcus faecalis</i>	16	100	100	100		100															100	100
<i>Streptococcus agalactiae</i>	15			100								43	36								100	
Group A streptococci	14			100								90	90								100	

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- Patient duplicates excluded
- Non-urine Isolates includes all specimen types other than urine and surveillance
- \*Levofloxacin susceptibility results based on testing from respiratory isolates only
- Susceptibility to doxycycline was predicted based on tetracycline susceptibility testing results.

## Sault Area Hospital January - December 2021 Antibigram report

### In-Patient 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>		# of isolates	Ampicillin	Amoxicillin-Clavulanic Acid	Penicillin	Cloxacillin	Piperacillin-Tazobactam	Ertapenem	Meropenem	Cephalalexin	IV Cefazolin	Ceftriaxone	Ceftazidime	Clindamycin	Erythromycin	Trimethoprim-Sulfamethoxazole	Ciprofloxacin	Nitrofurantoin	Gentamicin	Tobramycin	Amikacin	Doxycycline	Vancomycin	Linezolid	
Organism																											
<b>GRAM-NEGATIVE ORGANISMS</b>																											
Gram-Negative	<i>Escherichia coli</i>	149	63	85					89	100	100	86	84	90	90			77	70	94	95	94	100	80			
	<i>Klebsiella pneumoniae</i>	46	0	93					93	95	95	93	89	93	93			91	80	28	96	100	100	91			
	<i>Pseudomonas aeruginosa</i>	30							87		81				94				83		97	97	97				
	<i>Enterobacter species</i>	20	0	0					0	100	100		0						100	89	45	100	100	100	84		
	<i>Proteus mirabilis</i>	13	100	100					100	100	100	92	92	100	100				100	86	0	100	100	100	0		
	<i>Citrobacter species</i>	11	0	0					0	100	100		0						100	75	90	100	100	100	87		
<b>GRAM-POSITIVE ORGANISMS</b>																											
Gram-Positive	<i>Enterococcus faecalis</i>	44	100	100	100				100										67	98				16	100	100	
	<i>Enterococcus faecium</i>	16	6	6	6				6										0	19				27	100	100	
	Coagulase-negative staphylococci	11							55	55	55	55		55					73	55	100				100	100	

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Prepared by Senior Technologist Microbiology

Nov-22



## Sault Area Hospital January - December 2021 Antibiogram report

### ED 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>																					
Organism	# of isolates	Ampicillin	Amoxicillin-Clavulanic Acid	Penicillin	Cloxacillin	Piperacillin-Tazobactam	Ertapenem	Meropenem	Cephalexin	V Cefazolin	Ceftriaxone	Ceftazidime	Clindamycin	Erythromycin	Trimethoprim-Sulfamethoxazole	Ciprofloxacin	Nitrofurantoin	Gentamicin	Tobramycin	Amikacin	Doxycycline	Vancomycin	Linezolid
<b>GRAM-NEGATIVE ORGANISMS</b>																							
Gram-Negative	<i>Escherichia coli</i>	470	61	83		97	100	100	92	86	96	96			86	73	98	95	97	100	86		
	<i>Klebsiella pneumoniae</i>	71	0	91		94	99	100	94	93	95	95			97	83	25	97	99	100	92		
	<i>Proteus mirabilis</i>	35	89	89		100	100	100	97	94	100	100			89	72	0	97	100	100	0		
	<i>Pseudomonas aeruginosa</i>	31				88		83				97				87		97	100	100			
	<i>Klebsiella oxytoca</i>	27	0	78		78	100	100		41	81	81			100	86	74	100	100	100	96		
	<i>Citrobacter species</i>	18	0	0		0	100	100		0					82	82	82	100	100	100	82		
	<i>Enterobacter species</i>	10	0	0		0	100	100		0					86	78	38	85	100	100	89		
<b>GRAM-POSITIVE ORGANISMS</b>																							
Gram-Positive	<i>Enterococcus faecalis</i>	42	100	100	100	100										60	100				24	100	100
	Coagulase-negative staphylococci	21				75	75	75	75	75					88	56	100				100	100	

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Nov-22

## Sault Area Hospital 2021 Antibigram report

### ICU Non-Urine Isolates – % Susceptible

Organism	# of isolates	Ampicillin	Amoxicillin-Clavulanic Acid	Penicillin	Cloxacilin	Piperacillin-Tazobactam	Ertapenem	Meropenem	Cefazolin	Ceftriaxone	Ceftazidime	Clindamycin	Erythromycin	Trimethoprim-Sulfamethoxazole	Ciprofloxacin	Levofloxacin	Gentamicin	Tobramycin	Amikacin	Doxycycline	Vancomycin	Linezolid
<b>GRAM-POSITIVE ORGANISMS</b>																						
<b>Gram-Positive</b>	Staphylococcus aureus, all isolates	28			86	86	86	86	86			71	57	100	82					100	100	100
	-methicillin-susceptible	24			100	100	100	100	100			75	67	100	92					100	100	100
	- methicillin-resistant (MRSA)	4			0	0	0	0	0			50	0	100	25					100	100	100
	Coagulase-negative staphylococci	28			14	14	14	14	14			40	13	41	46					86	100	
	<i>Streptococcus pneumoniae</i>	14		89									93	86	93		100				93	100

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- Patient duplicates excluded
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Nov-22

## Sault Area Hospital 2021 Antibiogram report

### All Locations Blood Isolates – % Susceptible

Organism	# of isolates	Antibiotics																					
		Ampicillin	Amoxicillin-Clavulanic Acid	Penicillin	Cloxacillin	Piperacillin-Tazobactam	Ertapenem	Meropenem	Cefazolin	Ceftriaxone	Ceftazidime	Clindamycin	Erythromycin	Trimethoprim-Sulfamethoxazole	Ciprofloxacin	Levofloxacin	Gentamicin	Tobramycin	Amikacin	Doxycycline	Vancomycin	Linezolid	
<b>GRAM-NEGATIVE ORGANISMS</b>																							
<i>Escherichia coli</i>	107	53	78			83	100	100	79	88	88			80	65		86	91	99	84			
<i>Klebsiella pneumoniae</i>	38	0	82			82	100	100	79	82	82			82	66		92	100	100	91			
<i>Pseudomonas aeruginosa</i>	18					90		81			94				90		100	100	100				
<i>Proteus mirabilis</i>	10	100	100			100	100	100	100	100	100				25		100	100	100	0			
<b>GRAM-POSITIVE ORGANISMS</b>																							
<i>Coagulase-negative staphylococci</i>	179				45	45	45	45	45					59	34	73	67				87	100	
Staphylococcus aureus, all isolates	69				87	87	87	87	87					73	66	97	77				92	100	
-methicillin-susceptible	60				100	100	100	100	100					75	76	97	88				93	100	
- methicillin-resistant (MRSA)	9				0	0	0	0	0					56	0	100	0				89	100	100
<i>Enterococcus faecalis</i>	15	100	100	100		100															100	100	
Group B streptococci	11	100	100	100		100								55	55							100	
Group A streptococci	18	100	100	100		100								78	94							100	
<i>Streptococcus pneumoniae</i>	13			100										100	77	92		100			100	100	

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Nov-22



## Sault Area Hospital January - December 2021 Antibiogram report

### Blood Isolates ALL Patients – % Susceptible

Organism	# of isolates	Fluconazole	Voriconazole	Caspofungin	Micafungin	Anidulafungin
<b>ALL Candida</b>	<b>14</b>					
<i>Candida albicans</i>	6*	100	100	100	100	100
<i>Candida glabrata</i>	4	100		100	100	100
<i>Candida parapsilosis</i>	1	100	100	100	100	100
<i>Candida tropicalis</i>	1	100	0	100	100	100
<i>Candida krusei</i>	1		100	100	100	100
<i>Candida dubliniensis*</i>	1					

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- Patient duplicates excluded
- \**Candida albicans*: Results based on testing of 4/6 isolates as routine susceptibility testing for this isolate was temporarily suspended by PHL. Isolate generally susceptible to all agents.
- *Candida glabrata*: There are no interpretative breakpoints for voriconazole. There are no susceptibility breakpoints for fluconazole, the percentage provided refers to the percentage of *Candida glabrata* that are susceptible dose-dependent.
- *Candida krusei* - There are no interpretative breakpoints for fluconazole
- *Candida dubliniensis*: There are no interpretative breakpoints for *this organism*

## Sault Area Hospital 2021 ESBL Data

<b>Location</b>	<b>Source</b>	<b>ESBL Rate</b>	<b># Isolates</b>
Facility	Non-Urine	14%	195
In-Patient	Non-Urine	21%	51
ED	Non-Urine	10%	115
Facility	Urine	6%	1048
In-Patient	Urine	9%	208
ED	Urine	4%	576

## Sault Area Hospital January - December 2021 Antibigram report

### All Locations -All Sources - All SPICE / AmpC Isolates – % Susceptible

				Ampicillin	Amoxicillin-Clavulanic Acid	Piperacillin-Tazobactam	Ertapenem	Meropenem	Cefazolin	Trimethoprim-Sulfamethoxazole	Ciprofloxacin	Gentamicin	Tobramycin	Amikacin	Doxycycline
Organism		# of isolates	%												
<div style="display: flex; align-items: center;"> <div style="margin-right: 10px;"> <p>≥80% Susceptible <span style="color: green;">■</span></p> <p>70-79% Susceptible <span style="color: yellow;">■</span></p> <p>≤69% Susceptible <span style="color: red;">■</span></p> </div> </div>															
<b>Gram-Negative</b>	<b>GRAM-NEGATIVE ORGANISMS</b>														
	<i>Enterobacter cloacae</i> complex	67	3.8	0	0	0	99	99	0	95	92	95	95	100	87
	<i>Citrobacter freundii</i> complex	37	2.1	0	0	0	100	100	0	91	77	100	100	100	84
	<i>Serratia marcescens</i>	34	1.9	0	0	0	100	100	0	91	67	100	94	100	14
	<i>Morganella morganii</i>	17	1	0	0	0	100	100	0	89	59	100	93	100	14
	<i>Klebsiella (Enterobacter) aerogenes</i>	13	0.7	0	0	0	100	100	0	100	100	100	100	100	100
	<i>Proteus species, not P. mirabilis</i>	13	0.7	0	0	0	100	100	0	85	85	100	100	100	0
	<i>Providencia rettgeri</i>	13	0.7	0	0	0	100	100	0	100	92	100	100	100	0
	<i>Citrobacter koseri</i>	11	0.6	0	0	0	100	100	0	100	100	100	100	100	100
	<i>Pantoea species</i>	3	0.2	0	0	0	100	100	0	100	100	100	100	100	100

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Apr-23