

Sault Area Hospital January - December 2022 Antibioqram report

All Location Non-Urine Isolates – % Susceptible

		# 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	
			<div style="display: flex; justify-content: space-between; font-size: small;"> ≥80% Susceptible ■ 70-79% Susceptible ■ ≤69% Susceptible ■ </div>																					
GRAM-NEGATIVE ORGANISMS																								
Gram-Negative	<i>Pseudomonas aeruginosa</i>	209					85		89			93				81	78*		98	100				
	<i>Escherichia coli</i>	128	48	69			90	100	100	78	90	90			75	59		87	90	100	83			
	<i>Klebsiella pneumoniae</i>	29	0	90			90	100	100	90	88	88			89	74		100	100	100	86			
	<i>Enterobacter cloacae complex</i>	22	0	0			0	81	96	0					95	78		100	89	89	100			
	<i>Proteus mirabilis</i>	17	82	82			100	100	100	94	100	100			100	93		100	100	100	0			
	<i>Klebsiella oxytoca</i>	16	0	63			60	100	100	13	62	62			63	56		100	100	100	50			
	<i>Stenotrophomonas maltophilia</i>	16													88		73							
	<i>Serratia marcescens</i>	14	0	0			0	100	100	0					100	81		96	98	100	15			
	<i>Acinetobacter species</i>	10					75		100			89			100	100		100	100	100				
GRAM-POSITIVE ORGANISMS																								
Gram-Positive	Staphylococcus aureus, all isolates	700				64	64	64	64	64			74	55	99	64					96	100		
	-methicillin-susceptible	451				100	100	100	100	100			82	75	99	87					97	100	100	
	- methicillin-resistant (MRSA)	249				0	0	0	0	0			60	20	100	21					95	100	100	
	Coagulase-negative staphylococci	95				39	39	39	39	39			59	34	62	61					91	100		
	Streptococcus agalactiae	94			100								60	56								100		
	Group A streptococci	72			100								93	94								100		
	<i>Enterococcus faecalis</i>	42	100	100	100		100															100	100	
	<i>Streptococcus pneumoniae</i>	39			92								97	95	92		100				91	100		
	<i>Streptococcus anginosus group</i>	30			100								89	86								100		
	Group G streptococci	26			100								73	69								100		
	Group C streptococci	21			100								67	76								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 2022 Antibiogram report

All Locations Urine Isolates – % Susceptible

			<div style="display: flex; align-items: center; gap: 5px;"> ≥80% Susceptible 70-79% Susceptible ≤69% Susceptible </div>																	# of isolates	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
Organism																																										
GRAM-NEGATIVE ORGANISMS																																										
Gram-Negative	<i>Escherichia coli</i>	753	64	81		89	100	100	88	84	91	91			83	75	98	94	93	100	84																					
	<i>Klebsiella pneumoniae</i>	155	0	86		91	99	100	91	90	91	91			90	75	35	97	99	100	99																					
	<i>Pseudomonas aeruginosa</i>	118				89		88					94			80		97	99	99																						
	<i>Proteus mirabilis</i>	79	84	88		99	100	100	96	92	99	99			91	64	0	96	89	100	0																					
	<i>Enterobacter cloacae complex</i>	45	0	0		0	96	100		0					93	90	58	100	100	100	97																					
	<i>Klebsiella oxytoca</i>	37	0	92		92	97	97		35	89	89			97	95	95	97	97	100	100																					
	<i>Citrobacter freundii complex</i>	33	0	0		0	100	100		0					85	62	78	93	94	100	77																					
	<i>Serratia marcescens</i>	19	0	0		0	95	95		0					94	54	95	100	94	100	16																					
	<i>Citrobacter koseri</i>	13	0	0		0	100	100		0					92	44	85	100	100	100	100																					
	<i>Morganella morganii</i>	11	0	0		0	100	100		0					91	50	9	90	100	100	50																					
	<i>Klebsiella (Enterobacter) aerogenes</i>	10	0	0		0	91	100		0					100	91	9	100	100	100	82																					
	GRAM-POSITIVE ORGANISMS																																									
Gram-Positive	<i>Enterococcus faecalis</i>	104	100	100	100		100									75	99				0	100	100																			
	Coagulase-negative staphylococci	57				53	53	53	53	53					64	53	100				94	100	100																			
	Staphylococcus aureus, all isolates	39				87	87	87	87	87	87				100	54	100				100	100																				
	-methicillin-susceptible	34				100	100	100	100	100	100				100	62	100				100	100																				
	- methicillin-resistant (MRSA)	5				0	0	0	0	0	0				100	0	100				100	100																				
	<i>Enterococcus faecium</i>	28	7	7	7		7									4	12				4	96	100																			

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

Sault Area Hospital January - December 2022 Antibigram report

In-Patient Non-Urine Isolates – % Susceptible

Organism	# 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
		≥80% Susceptible	70-79% Susceptible	≤69% Susceptible																		
GRAM-NEGATIVE ORGANISMS																						
Gram-Negative	<i>Pseudomonas aeruginosa</i>	71				83		86			100				85	60*		98	100			
	<i>Escherichia coli</i>	25	60	67		83	100	100	75	81	81			87	68		91	90	100	91		
	<i>Enterobacter cloacae cplx</i>	11	0	0		0	73	93	0					91	62		100	83	100	100		
Gram-Positive	Staphylococcus aureus, all isolates	110			78	78	78	78	78			63	58	100	73					98	100	
	-methicillin-susceptible	86			100	100	100	100	100			75	70	100	89					98	100	
	- methicillin-resistant (MRSA)	24			0	0	0	0	0			21	13	100	14					96	100	100
	Coagulase-negative staphylococci	30			40	40	40	40	40			80	50	74	63					97	100	
	<i>Streptococcus agalactiae</i>	18			100							72	67								100	
	<i>Enterococcus faecalis</i>	13	100	100	100	100														100	100	
	<i>Streptococcus anginosus group</i>	11			100							82	82								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 2022 Antibiogram report

In-Patient Urine Isolates – % Susceptible

		<div style="display: flex; align-items: center; gap: 5px;"> ≥80% Susceptible 70-79% Susceptible ≤69% Susceptible </div>																					
Organism	# 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
GRAM-NEGATIVE ORGANISMS																							
Gram-Negative	<i>Escherichia coli</i>	134	54	76		85	100	100	83	80	88	88			84	67	98	93	94	100	85		
	<i>Klebsiella pneumoniae</i>	38	0	79		87	100	100	89	84	86	86			84	80	26	97	100	100	86		
	<i>Pseudomonas aeruginosa</i>	35				94		91				94				92		97	97	97			
	<i>Proteus mirabilis</i>	32	78	85		100	100	100	94	91	100	100			84	74	0	94	87	100	0		
	<i>Enterobacter cloacae complex</i>	14	0	0		0	86	100		0					100	71	36	100	100	100	100		
	<i>Citrobacter species</i>	10	0	0		0	100	100		0					80	70	70	80	76	100	90		
GRAM-POSITIVE ORGANISMS																							
Gram-Positive	<i>Enterococcus faecalis</i>	47	100	100	100	100										66	100				29	100	100
	<i>Enterococcus faecium</i>	19	5	5	5	5										5	11				0	100	100
	Coagulase-negative staphylococci	16				44	44	44	44		44					50	44	100				94	100

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Prepared by Senior Technologist Microbiology

Apr-23

Sault Area Hospital January - December 2022 Antibiogram report

ED Non-Urine Isolates – % Susceptible

			<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="font-size: small;"> ≥80% Susceptible ■ 70-79% Susceptible ■ ≤69% Susceptible ■ </div> </div>																					
	Organism	# 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	
Gram-Negative	GRAM-NEGATIVE ORGANISMS																							
		<i>Escherichia coli</i>	90	44	70			94	100	100	80	93	93			73	55	86	88	100	82			
		<i>Pseudomonas aeruginosa</i>	44					85		89			91				77	63*		93	100			
		<i>Klebsiella pneumoniae</i>	19	0	95			95	100	100	95	95	95			94	89		100	100	100	100		
Gram-Positive	GRAM-POSITIVE ORGANISMS																							
		Staphylococcus aureus, all isolates	292			67	67	67	67	67				86	59	99	66					97	100	
		-methicillin-susceptible	197			100	100	100	100	100				88	78	98	86					97	100	
		- methicillin-resistant (MRSA)	95			0	0	0	0	0				82	20	100	26					96	100	100
		Group A streptococci	56		100									91	96								100	
		Coagulase-negative staphylococci	39			49	49	49	49	49				54	28	68	68					85	100	
		Group B streptococci	36		100									64	61								100	
		<i>Streptococcus pneumoniae</i>	24		88									96	92	96		100				85	100	
		Group G streptococci	18		100									78	78								100	
		Group C streptococci	10		100									60	80								100	
	<i>Streptococcus anginososus group</i>	10		100									89	78								100		

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ED Urine Isolates – % Susceptible

		≥80% Susceptible ■ 70-79% Susceptible ■ ≤69% Susceptible ■																					
Organism	# of isolates	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
GRAM-NEGATIVE ORGANISMS																							
Gram-Negative	<i>Escherichia coli</i>	489	66	83		91	100	100	91	86	92	92			84	80	98	94	94	100	84		
	<i>Klebsiella pneumoniae</i>	85	0	88		95	100	100	94	94	95	95			94	80	40	98	99	100	92		
	<i>Pseudomonas aeruginosa</i>	39				87		87				95				74		97	100	100			
	<i>Proteus mirabilis</i>	24	79	84		100	100	100	100	92	100	100			96	88	0	100	100	100	0		
	<i>Enterobacter cloacae complex</i>	21	0	0		0	100	100		0	0	0			86	100	71	100	100	100	94		
	<i>Klebsiella oxytoca</i>	13	0	100		100	100	100		46	100	100			100	100	92	100	100	100	100		
GRAM-POSITIVE ORGANISMS																							
Gram-Positive	<i>Enterococcus faecalis</i>	31	100	100	100	100										81	97				38	100	100
	Coagulase-negative staphylococci	28				50	50	50	50	50	50					64	54	100				93	100

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

Prepared by Senior Technologist Microbiology

Apr-23

Sault Area Hospital 2022 Antibiogram report

ICU Non-Urine Isolates – % Susceptible

			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			
		≥80% Susceptible ■ 70-79% Susceptible ■ ≤69% Susceptible ■																								
		Organism	# of isolates																							
Gram-Negative	GRAM-NEGATIVE ORGANISMS																									
		<i>Pseudomonas aeruginosa</i>	11				77		78			91				91	90*	100	100	100						
Gram-Positive	GRAM-POSITIVE ORGANISMS																									
		Staphylococcus aureus, all isolates	23				91	91	91	91	91			78	76	100	82						95	100	100	
		-methicillin-susceptible	21				100	100	100	100	100			76	76	100	85							95	100	100
		- methicillin-resistant (MRSA)	2				0	0	0	0	0			100	50	100	50							100	100	100

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Apr-23

Sault Area Hospital 2022 Antibioqram report

All Locations Blood 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
GRAM-NEGATIVE ORGANISMS																						
<i>Escherichia coli</i>	109	48	69			91	100	100	78	89	89			75	57		86	88	100	82		
<i>Klebsiella pneumoniae</i>	22	0	91			100	100	100	91	91	91			90	82		100	100	100	94		
<i>Pseudomonas aeruginosa</i>	16					76		86			81				81		88	72	100			
<i>Klebsiella oxytoca</i>	13	0	54			100	100	100	15	54	54			54	47		100	100	100	42		
<i>Enterobacter cloacae</i> complex	10	0	0			0	90	100	0	0	0				67		100	100	100	100		
GRAM-POSITIVE ORGANISMS																						
<i>Staphylococcus aureus</i> , all isolates	75				72	72	72	72	72			79	68	95	77					95	100	100
-methicillin-susceptible	54				100	100	100	100	100			85	85	93	93					95	100	100
- methicillin-resistant (MRSA)	21				0	0	0	0	0			62	24	100	35					95	100	100
<i>Coagulase-negative staphylococci</i>	49				36	36	36	36	36			56	27	62	63					88	100	
<i>Enterococcus faecalis</i>	26	100	100	100		100															100	100
<i>Streptococcus pneumoniae</i>	24			92								96	91	96		100				84	100	
Group B streptococci	10	100	100	100		100						67	67								100	
Group A streptococci	10	100	100	100		100						70	80								100	

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- Some organisms for which there were only very small numbers have been excluded
- Patient duplicates excluded
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Sault Area Hospital January - December 2022 Antibiogram report

Blood Isolates ALL Patients – % Susceptible

Organism	# of isolates	Fluconazole	Voriconazole	Caspofungin	Micafungin	Anidulafungin
ALL Candida	14					
<i>Candida albicans</i> *	7					
<i>Candida glabrata</i> **	6	83		100	100	100
<i>Candida parapsilosis</i>	2	100	100	100	100	100
<i>Candida dubliniensis</i> ***	1					

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- Patient duplicates excluded
- **Candida albicans*: 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 dubliniensis*: There are no interpretative breakpoints for *this organism*

Sault Area Hospital 2022 ESBL Data

Location	Source	ESBL Rate	# Isolates
Facility	Non-Urine	12%	190
In-Patient	Non-Urine	19%	43
ED	Non-Urine	7%	120
Facility	Urine	9%	1024
In-Patient	Urine	12%	210
ED	Urine	7%	611

Sault Area Hospital January - December 2022 Antibiogram report

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

		≥80% Susceptible													
		70-79% Susceptible													
		≤69% Susceptible													
Organism	# of isolates	%	Ampicillin	Amoxicillin-Clavulanic Acid	Piperacillin-Tazobactam	Ertapenem	Meropenem	Cefazolin	Trimethoprim-Sulfamethoxazole	Ciprofloxacin	Gentamicin	Tobramycin	Amikacin	Doxycycline	
GRAM-NEGATIVE ORGANISMS															
Gram-Negative	<i>Enterobacter cloacae</i> complex	67	3.8	0	0	0	91	99	0	94	86	100	97	97	98
	<i>Citrobacter freundii</i> complex	36	2.0	0	0	0	97	97	0	82	61	89	90	100	70
	<i>Serratia marcescens</i>	33	1.8	0	0	0	97	97	0	97	70	100	97	100	15
	<i>Citrobacter koseri</i>	17	1.0	0	0	0	100	100	0	94	55	100	100	100	100
	<i>Morganella morganii</i>	16	0.9	0	0	0	100	100	0	94	63	93	100	100	60
	<i>Klebsiella (Enterobacter) aerogenes</i>	13	0.7	0	0	0	92	100	0	100	92	100	100	100	85
	<i>Providencia rettgeri</i>	10	0.6	0	0	0	100	100	0	100	89	100	100	100	0
	<i>Proteus vulgaris</i>	5	0.3	0	0	0	100	100	0	100	100	100	100	100	0
	<i>Pantoea species</i>	4	0.2	0	0	0	100	100	0	100	100	100	100	100	100

General Notes:

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

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Apr-23