

Sault Area Hospital January - December 2018 Antibiogram report

All Locations Urine Isolates – % Susceptible

Organism	# of isolates	Antibiotics																					
		Ampicillin	Amoxicillin-Clavulanic Acid	Penicillin	Cloxacillin	Piperacillin-Tazobactam	Ertapenem	Meropenem	Cephalixin	IV Cefazolin	Ceftriaxone	Ceftazidime	Clindamycin	Erythromycin	Trimethoprim-Sulfamethoxazole	Ciprofloxacin	Nitrofurantoin	Gentamicin	Tobramycin	Amikacin	Doxycycline	Vancomycin	Linezolid
GRAM-NEGATIVE ORGANISMS																							
<i>Escherichia coli</i>	971	60	82			91	100	100	91	88	93	93			81	84	94	90	90	100	83		
<i>Klebsiella pneumoniae</i>	206	0	97			97	100	100	97	97	98	98			96	97	36	99	98	100	89		
<i>Pseudomonas aeruginosa</i>	99					89		91				92				85		91	97	97			
<i>Proteus mirabilis</i>	83	94	99			100	100	100	100	97	100	100			89	90	0	98	98	100	0		
<i>Enterobacter species</i>	66	0	0			0	98	97		0					93	95	32	96	90	100	92		
<i>Klebsiella oxytoca</i>	54	0	89			89	100	100		51	96	96			98	100	83	98	98	100	98		
<i>Citrobacter species</i>	49	0	0			0	98	98		0					96	96	96	96	96	98	90		
<i>Serratia species</i>	12	0	0			0	91	100		0					100	75	0	100	73	100	33		
GRAM-POSITIVE ORGANISMS																							
<i>Enterococcus faecalis</i>	123	99	99	99		99										72	99				18	100	100
Staphylococcus aureus, all isolates	38				74	74	74	74	74	74					100	68	100				100	100	
-methicillin-susceptible	28				100	100	100	100	100	100					100	89	100				100	100	
- methicillin-resistant (MRSA)	10				0	0	0	0	0	0					100	10	100				100	100	
Coagulase-negative staphylococci	27				67	67	67	67		67					63	59	100				85	100	
<i>Enterococcus faecium</i>	14	7	7	7		7										15	23				54	100	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

Sault Area Hospital January - December 2018 Antibiogram 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
GRAM-NEGATIVE ORGANISMS																						
Gram-Negative																						
<i>Pseudomonas aeruginosa</i>	56					75		83			86				84	75	86	95	96			
<i>Escherichia coli</i>	26	44	62			68	100	100	64	71	71			67	71		85	79	100	71		
<i>Enterobacter species</i>	13	0	0			0	100	93	0					92	92		100	100	100	92		
<i>Klebsiella pneumoniae</i>	11	0	91			91	100	100	91	90	90			91	100		91	100	100	80		
GRAM-POSITIVE ORGANISMS																						
Gram-Positive																						
Staphylococcus aureus, all isolates	134					57	57	57	57	57				53	39	99	55				99	100
-methicillin-susceptible	77					100	100	100	100	100				68	64	99	83				99	100
- methicillin-resistant (MRSA)	57					0	0	0	0	0				33	5	100	16				100	100
Coagulase-negative staphylococci	60					53	53	53	53	53				60	43	69	62				93	100
Group A streptococci	13					100								92	100							100
Group B streptococci	11					100								27	25							100

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- Patient duplicates excluded
- Non-urine Isolates includes all specimen types other than urine and surveillance

Prepared by Marianne Cuglietta, Senior Technologist Bacteriology

Apr-19

Sault Area Hospital January - December 2018 Antibigram report

In-Patient Urine Isolates – % Susceptible

		≥80% Susceptible ■ 70-79% Susceptible ■ ≤69% Susceptible ■																						
Organism		# of isolates	Ampicillin	Amoxicillin-Clavulanic Acid	Penicillin	Cloxacillin	Piperacillin-Tazobactam	Ertapenem	Meropenem	Cephalixin	IV Cefazolin	Ceftriaxone	Ceftazidime	Clindamycin	Erythromycin	Trimethoprim-Sulfamethoxazole	Ciprofloxacin	Nitrofurantoin	Gentamicin	Tobramycin	Amikacin	Doxycycline	Vancomycin	Linezolid
Gram-Negative	GRAM-NEGATIVE ORGANISMS																							
	<i>Escherichia coli</i>	164	55	80			88	100	100	89	85	90	90			80	76	91	88	91	99	79		
	<i>Klebsiella pneumoniae</i>	63	0	97			97	100	100	97	97	97	97			95	95	30	98	98	100	87		
	<i>Pseudomonas aeruginosa</i>	37					84		89				89				92		92	97	97			
	<i>Proteus mirabilis</i>	19	95	95			100	100	100	100	100	100	100			89	100	0	100	100	100	0		
	<i>Enterobacter species</i>	16	0	0			0	100	94		0					82	88	32	88	82	100	100		
	<i>Citrobacter species</i>	12	0	0			0	100	100	0						92	100	100	92	100	100	92		
Gram-Positive	GRAM-POSITIVE ORGANISMS																							
	<i>Enterococcus faecalis</i>	46	100	100	100		100										67	98				11	100	100

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Prepared by Marianne Cuglietta, Senior Technologist Bacteriology

Jan-18

Sault Area Hospital January - December 2018 Antibiogram report

ED Non-Urine Isolates – % Susceptible

		<div style="display: flex; align-items: center;"> <div style="margin-right: 10px;"> <p>≥80% Susceptible ■</p> <p>70-79% Susceptible ■</p> <p>≤69% Susceptible ■</p> </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
Gram-Negative	GRAM-NEGATIVE ORGANISMS																					
	<i>Escherichia coli</i>	58	53	72			90	100	100	82	91	91			83	81		88	86	100	80	
	<i>Pseudomonas aeruginosa</i>	43				86		93				93				83	90	98	100	100		
	<i>Klebsiella pneumoniae</i>	22	0	96			87	100	100	91	95	95			86	100		100	100	100	75	
	<i>Enterobacter species</i>	11	0	0			0	100	100	0	0	0			73	100		82	73	100	91	
Gram-Positive	GRAM-POSITIVE ORGANISMS																					
	Staphylococcus aureus, all isolates	253				66	66	66	66	66			73	43	99	60					99	100
	-methicillin-susceptible	166				100	100	100	100	100			75	64	99	86					100	100
	- methicillin-resistant (MRSA)	87				0	0	0	0	0			68	2	100	11					98	100
	Coagulase-negative staphylococci	124				58	58	58	58	58			58	42	72	74					90	100
	Group A streptococci	55				100							85	87								100
	<i>Streptococcus pneumoniae</i>	26				96							96	85	84		96				100	100
	Other Beta Streptococci	21				100							86	86								100
Group B streptococci	13				100							85	69								100	

General Notes:

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Apr-19

Sault Area Hospital January - December 2018 Antibiogram report

ED 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	Cephalixin	V Cefazolin	Ceftriaxone	Ceftazidime	Clindamycin	Erythromycin	Trimethoprim-Sulfamethoxazole	Ciprofloxacin	Nitrofurantoin	Gentamicin	Tobramycin	Amikacin	Doxycycline	Vancomycin	Linezolid
Organism																																										
Gram-Negative	GRAM-NEGATIVE ORGANISMS																																									
	<i>Escherichia coli</i>	397	62	86		93	100	100	93	90	95	95				84	87	96	91	91	100	86																				
	<i>Klebsiella pneumoniae</i>	62	0	95		95	100	100	97	97	97	97				95	97	32	97	97	100	88																				
	<i>Citrobacter species</i>	10	0	0		0	100	100		0						100	88	88	100	100	100	88																				
	<i>Pseudomonas aeruginosa</i>	25				88		81					92				75		88	96	100																					
	<i>Proteus mirabilis</i>	19	95	100		100	100	100	100	100	100	100				89	84	0	100	100	100	0																				
	<i>Enterobacter species</i>	17	0	0		0	100	100	0							94	94	35	94	88	100	83																				
	<i>Klebsiella oxytoca</i>	12	0	100		100	100	100	53	100	100					100	100	83	100	100	100	100																				
Gram-Positive	GRAM-POSITIVE ORGANISMS																																									
	<i>Enterococcus faecalis</i>	24	100	100	100	100											83	100				13	100	100																		
	Coagulase-negative staphylococci	10				70	70	70	70		70						50	50	100			80	100																			

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Apr-19

Sault Area Hospital 2018 Antibiogram report

ICU Non-Urine Isolates – % Susceptible

Organism	# of isolates	Cloxacillin	Piperacillin-Tazobactam	Ertapenem	Meropenem	Cefazolin	Ceftazidime	Clindamycin	Erythromycin	Trimethoprim-Sulfamethoxazole	Ciprofloxacin	Gentamicin	Tobramycin	Amikacin	Doxycycline	Vancomycin	Linezolid
GRAM-NEGATIVE ORGANISMS																	
<i>Pseudomonas aeruginosa</i>	17		76		82		83				81	81	88	100			
GRAM-POSITIVE ORGANISMS																	
Staphylococcus aureus, all isolates	26	81	81	81	81	81		73	57	100	69				100	100	
-methicillin-susceptible	21	100	100	100	100	100		81	71	100	86				100	100	
- methicillin-resistant (MRSA)	5	0	0	0	0	0		40	0	100	0				100	100	100
Coagulase-negative staphylococci	23	43	43	43	43	43		52	35	70	61				96	100	

General Notes:

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April 2019

Sault Area Hospital 2018 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
GRAM-NEGATIVE ORGANISMS																					
<i>Escherichia coli</i>	63	52	71		84	100	100	77	85	84			79	71		87	84	100	80		
<i>Pseudomonas aeruginosa</i>	15				71		85			80				57		86	100	100			
<i>Klebsiella pneumoniae</i>	25	0	96		88	100	100	92	96	96			84	100		100	100	100	77		
<i>Klebsiella oxytoca</i>	10	0	90		90	100	100	64	90	90			100	90		100	100	100	100		
<i>Enterobacter species</i>	14	0	0		0	93	93	0	0	0			100	100		100	100	100	100		
GRAM-POSITIVE ORGANISMS																					
<i>Coagulase-negative staphylococci</i>	179				55	55	55	55				59	40	71	67					91	100
Staphylococcus aureus, all isolates	68				75	75	75	75				59	43	100	69					100	100
-methicillin-susceptible	51				100	100	100	100				67	57	100	88					100	100
- methicillin-resistant (MRSA)	17				0	0	0	0				35	0	100	12					100	100
<i>Enterococcus faecium</i>	12	17	17	17		17														100	100
<i>Enterococcus faecalis</i>	11	100	100	100		100														100	100
Group A streptococci	12	100	100	100		100						92	92							100	
<i>Streptococcus pneumoniae</i>	22			100								91	91	82		90				95	100
Other Beta Streptococci	16	100	100	100		100						81	63							100	

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- Patient duplicates excluded

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April 2019

Sault Area Hospital January - December 2018 Antibiogram report

Blood Isolates ALL Patients – % Susceptible

Organism	# of isolates	Fluconazole	Voriconazole	Caspofungin	Micagungin	Anidulafungin
ALL Candida	25	92	96	100	100	100
<i>Candida albicans</i>	14	100	100	100	100	100
<i>Candida tropicalis</i>	4	75	75	100	100	100
<i>Candida dubliniensis</i>	2	100	100	100	100	100
<i>Candida glabrata</i> *	2	50		100	100	100
<i>Candida parapsilosis</i>	2	100	100	100	100	100
<i>Candida krusei</i> **	1		100	100	100	100

General Notes:

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- Patient duplicates excluded
- **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.