

Sault Area Hospital January - December 2020 Antibigram report

All Location Non-Urine Isolates – % Susceptible

		≥80% Susceptible ■ 70-79% Susceptible ■ ≤69% 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	
Organism																										
Gram-Negative	GRAM-NEGATIVE ORGANISMS																									
		<i>Pseudomonas aeruginosa</i>	141						94		94				97				92	89	96	99	99			
		<i>Escherichia coli</i>	108	52	70				79	100	100	69	79	79				80	67		89	85	97	79		
		<i>Klebsiella pneumoniae</i>	37	0	78				78	97	97	76	81	81				84	70		94	97	97	78		
		<i>Enterobacter cloacae cplx</i>	26	0	0				0	100	100	0						100	81		100	100	100	100		
		<i>Serratia marcescens</i>	12	0	0				0	100	100	0						100	82		100	100	100	33		
		<i>Proteus mirabilis</i>	11	100	100				100	100	100	91	100	100				100	100		100	100	100	0		
Gram-Positive	GRAM-POSITIVE ORGANISMS																									
		Staphylococcus aureus, all isolates	564				69	69	69	69	69				74	55	99	63						96	100	
		-methicillin-susceptible	387				100	100	100	100	100				76	72	99	88						96	100	
		- methicillin-resistant (MRSA)	177				0	0	0	0	0				69	17	99	9						97	100	100
		Coagulase-negative staphylococci	270				59	59	59	59	59				60	36	74	66						85	100	
		Group A streptococci	125			100									18	18									100	
		Streptococcus agalactiae	55			100									51	47									100	
		<i>Enterococcus faecalis</i>	46	100	100	100			100																100	100
		<i>Streptococcus pneumoniae</i>	33			100									97	97	87		97					90	100	
		Group G streptococci	33			100									88	88									100	
	Group C streptococci	17			100									76	76									100		

General Notes:

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

Prepared by Marianne Cuglietta, Senior Technologist Microbiology

Sault Area Hospital January - December 2020 Antibigram 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	
GRAM-NEGATIVE ORGANISMS																								
<i>Escherichia coli</i>	745	60	84			90	100	100	90	85	91	91			82	73	95	93	95	100	84			
<i>Klebsiella pneumoniae</i>	156	0	92			92	99	100	91	91	92	92			96	81	36	99	95	100	88			
<i>Pseudomonas aeruginosa</i>	90					86		85				99				79		93	94	100				
<i>Proteus mirabilis</i>	68	75	94			96	100	100	92	85	96	96			79	60	0	87	99	100	0			
<i>Enterobacter species</i>	49	0	0			0	90	100		0					92	83	26	100	99	100	92			
<i>Citrobacter species</i>	39	0	0			0	95	100		0					95	85	90	100	97	100	94			
<i>Klebsiella oxytoca</i>	25	0	88			88	100	100		36	88	88			100	85	84	100	100	100	96			
<i>Serratia marcescens</i>	14	0	0			0	100	100		0					100	92	0	93	93	100	36			
<i>Morganella species</i>	12	0	0			0	100	100		0					100				100	100				
GRAM-POSITIVE ORGANISMS																								
<i>Enterococcus faecalis</i>	81	100	100	100		100										88	98				28	100	100	
Staphylococcus aureus, all isolates	37				70	70	70	70	70	70					100	49	97				100	100		
-methicillin-susceptible	26				100	100	100	100	100	100					100	69	96				100	100		
- methicillin-resistant (MRSA)	11				0	0	0	0	0	0					100	0	100				100	100		
Coagulase-negative staphylococci	29				62	62	62	62		62					65	48	100				96	100		
<i>Enterococcus faecium</i>	18	11	11	11		11										11	6				17	100	100	

General Notes:

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

Prepared by Marianne Cuglietta, Senior Technologist Microbiology

Sep-21

Sault Area Hospital January - December 2020 Antibiogram report

In-Patient 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	
		# of isolates																						
		Organism																						
Gram-Negative	GRAM-NEGATIVE ORGANISMS																							
		<i>Pseudomonas aeruginosa</i>	58				93		93			95				90	84	96	98	98				
		<i>Escherichia coli</i>	24	38	46		63	100	100	46	67	67			74	50		83	80	87	83			
Gram-Positive	GRAM-POSITIVE ORGANISMS																							
		Staphylococcus aureus, all isolates	96			73	73	73	73	73			69	57	99	64						90	100	
		-methicillin-susceptible	70			100	100	100	100	100			78	74	99	88						88	100	
		- methicillin-resistant (MRSA)	26			0	0	0	0	0			46	12	100	0						96	100	
		Coagulase-negative staphylococci	57			44	44	44	44	44			54	30	56	53						79	100	
		<i>Streptococcus pneumoniae</i>	16			100							100	100	93		93					92	100	
	<i>Enterococcus faecalis</i>	15	100	100	100		100															100	100	

General Notes:

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- Patient duplicates excluded
- Non-urine Isolates includes all specimen types other than urine and surveillance
- Susceptibility to doxycycline was predicted based on tetracycline susceptibility testing results.

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Sault Area Hospital January - December 2020 Antibiogram report

In-Patient 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
GRAM-NEGATIVE ORGANISMS																							
Gram-Negative																							
<i>Escherichia coli</i>	128	55	77			85	100	100	83	78	86	86			87	72	91	92	92	100	81		
<i>Klebsiella pneumoniae</i>	37	0	100			100	100	100	100	100	100	100			97	90	41	97	97	100	97		
<i>Pseudomonas aeruginosa</i>	35					89		83				100				89		97	100	100			
<i>Enterobacter species</i>	15	0	0			0	81	100		0					100	77	19	100	93	100	93		
<i>Proteus mirabilis</i>	12	83	92			100	100	100	90	82	91	91			100	91	0	100	100	100	0		
GRAM-POSITIVE ORGANISMS																							
Gram-Positive																							
<i>Enterococcus faecalis</i>	25	100	100	100		100										96	96				9	100	100
<i>Enterococcus faecium</i>	13	8	8	8		8										0	8				15	100	100
Coagulase-negative staphylococci	10				40	40	40	40		40					40	30	100				100	100	

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ED Non-Urine Isolates – % Susceptible

		≥80% Susceptible ■ 70-79% Susceptible ■ ≤69% 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	
Gram-Negative	GRAM-NEGATIVE ORGANISMS																						
	<i>Escherichia coli</i>	73	55	74			79	100	100	72	77	77			73	70		87	83	100	78		
	<i>Pseudomonas aeruginosa</i>	46				92		96			98					94	96	96	98	98			
	<i>Klebsiella pneumoniae</i>	22	0	82			82	100	95	77	82	82			82	70		95	100	100	78		
Gram-Positive	GRAM-POSITIVE ORGANISMS																						
	Staphylococcus aureus, all isolates	309			60	60	60	60	60				75	50	99	58						95	100
	-methicillin-susceptible	186			100	100	100	100	100				77	72	100	88						96	100
	- methicillin-resistant (MRSA)	123			0	0	0	0	0				73	17	98	12						93	100
	Coagulase-negative staphylococci	183			62	62	62	62	62				61	39	78	71						89	100
	Group A streptococci	104			100								18	18									100
	Group G streptococci	22			100								86	86									100
	<i>Streptococcus pneumoniae</i>	17			100								94	94	82		100					88	100
	Group B streptococci	16			100								56	56									100
	Group C streptococci	12			100								75	75									100

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- Patient duplicates excluded
- Non-urine Isolates includes all specimen types other than urine and surveillance
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ED Urine Isolates – % Susceptible

			≥80% Susceptible	70-79% Susceptible	≤69% Susceptible																				
		# 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>	462	60	85			90	100	100	90	86	91	91			81	73	95	93	96	100	85			
	<i>Klebsiella pneumoniae</i>	79	0	94			94	100	100	92	92	94	94			95	88	38	99	97	100	91			
	<i>Pseudomonas aeruginosa</i>	32					85		85				97				72		91	91	100				
	<i>Proteus mirabilis</i>	20	85	100			100	100	100	100	90	100	100			86	86	0	100	100	100	0			
	<i>Enterobacter species</i>	18	0	0			0	89	100		0					83	89	39	100	95	100	95			
	<i>Citrobacter species</i>	17	0	0			0	100	100		0					100	89	100	100	100	100	100			
	<i>Klebsiella oxytoca</i>	15	0	93			93	100	100		47	93	93			100	93	87	100	100	100	93			
GRAM-POSITIVE ORGANISMS																									
Gram-Positive	<i>Enterococcus faecalis</i>	27	100	100	100		100										85	96				38	100	100	
	Staphylococcus aureus, all isolates	16				75	75	75	75	75	75					100	69	100				100	100		
	-methicillin-susceptible	12				100	100	100	100	100	100					100	92	100				100	100		
	- methicillin-resistant (MRSA)	4				0	0	0	0	0	0					100	0	100				100	100		
	Coagulase-negative staphylococci	13				77	77	77	77	77	77					77	59	100				93	100		

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Sault Area Hospital 2020 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		
		Organism	# of isolates																						
Gram- Negative	GRAM-NEGATIVE ORGANISMS																								
		<i>Pseudomonas aeruginosa</i>	11				91		88			100				91		100	100	100					
Gram- Positive	GRAM-POSITIVE ORGANISMS																								
		Staphylococcus aureus, all isolates	18				89	89	89	89	89			89	84	100	79						100	100	100
		-methicillin-susceptible	16				100	100	100	100	100			88	88	100	89						100	100	100
		- methicillin-resistant (MRSA)	2				0	0	0	0	0			100	50	100	0						100	100	100
	Coagulase-negative staphylococci	18				39	39	39	39	39			50	27	44	44						83			

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- Non-urine Isolates includes all specimen types other than urine and surveillance
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Sep-21

Sault Area Hospital 2020 Antibiogram report

All Locations Blood Isolates – % Susceptible

≥80% Susceptible ■ 70-79% Susceptible ■ ≤69% 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	
Organism																								
Gram-Negative	GRAM-NEGATIVE ORGANISMS																							
	<i>Escherichia coli</i>	88	53	74			78	100	100	71	77	77			77	68		89	85	97	77			
	<i>Klebsiella pneumoniae</i>	31	0	74			100	96	97	71	77	77			81	65		93	96	100	77			
	<i>Pseudomonas aeruginosa</i>	20					90		88			100				85		90	100	93				
	<i>Enterobacter cloacae cplx</i>	14	0	0			0	100	100	0	0	0				86		100	100	100	100			
Gram-Positive	GRAM-POSITIVE ORGANISMS																							
	<i>Coagulase-negative staphylococci</i>	229				57	57	57	57	57			58	37	74	65						85	100	
	Staphylococcus aureus, all isolates	60				77	77	77	77	77			81	65	100	71						92	100	
	-methicillin-susceptible	46				100	100	100	100	100			80	78	100	90						94	100	
	- methicillin-resistant (MRSA)	14				0	0	0	0	0			86	21	100	7						86	100	100
	<i>Enterococcus faecalis</i>	25	100	100	100		100																100	100
	Group B streptococci	11	100	100	100		100							64	64								100	
	Group A streptococci	11	100	100	100		100							36	36								100	
<i>Streptococcus pneumoniae</i>	11			100									91	100	82		100				80	100		

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Blood Isolates ALL Patients – % Susceptible

Organism	# of isolates	Fluconazole	Voriconazole	Caspofungin	Micagungin	Anidulafungin
ALL Candida	14					
<i>Candida albicans</i>	5	100	100	100	100	100
<i>Candida parapsilosis</i>	4	100	100	100	100	100
<i>Candida tropicalis</i>	2	100	0	100	100	100
<i>Candida dubliniensis</i> *	2					
<i>Candida lusitanae</i> *	1					

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- *There are no interpretative breakpoints for *Candida dubliniensis* and *Candida lusitanae*