

Sault Area Hospital January - December 2019 Antibiogram 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						80		91			89					78	81	90	96	98				
		<i>Escherichia coli</i>	93	52	79				86	100	100	82	89	93				79	73		89	91	100	77			
		<i>Klebsiella pneumoniae</i>	26	0	96				96	100	100	86	96	96				96	83		100	100	100	95			
		<i>Proteus mirabilis</i>	20	100	100				100	100	100	89	100	100				95	70		100	100	100	0			
		<i>Enterobacter cloacae cplx</i>	12	0	0				0	100	100	0						85	85		93	85	100	93			
		<i>Serratia marcescens</i>	10	0	0				0	100	100	0						100	50		100	100	100	33			
Gram-Positive	GRAM-POSITIVE ORGANISMS																										
		<i>Staphylococcus aureus, all isolates</i>	543				66	66	66	66	66				77	50	100	82						97	100		
		-methicillin-susceptible	359				100	100	100	100	100				83	71	100	88						97	100		
		- methicillin-resistant (MRSA)	184				0	0	0	0	0				65	10	100	70						97	100	100	
		Coagulase-negative staphylococci	192				51	51	51	51	51				62	39	70	71						86	100		
		<i>Streptococcus agalactiae</i>	61			100									44	50									100		
		Group A streptococci	50			100									64	59									100		
		Group G streptococci	36			100									86	86									100		
		Group C streptococci	15			100									83	83									100		
		<i>Streptococcus pneumoniae</i>	40			100									90	79	90		100					90	100		
		<i>Enterococcus faecalis</i>	28	100	100	100			100																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
- Non-urine Isolates includes all specimen types other than urine and surveillance
- *Revised lower 2019 CLSI breakpoints for testing of Ciprofloxacin and Levofloxacin with Enterobacteriaceae and P. aeruginosa may result in lower % Susceptible rates. Please take this into consideration when interpreting the reported results

Sault Area Hospital January - December 2019 Antibiogram report

All Locations Urine Isolates – % Susceptible

Organism	# of isolates	<div style="display: flex; justify-content: space-between; font-size: small;"> ≥80% Susceptible ■ 70-79% Susceptible ■ ≤69% Susceptible ■ </div>																				
		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
GRAM-NEGATIVE ORGANISMS																						
<i>Escherichia coli</i>	914	63	82			93	100	100	93	87	95	96			84	81	96	93	94	100	84	
<i>Klebsiella pneumoniae</i>	141	0	95			94	100	100	96	94	95	95			91	91	30	96	97	100	88	
<i>Pseudomonas aeruginosa</i>	72					91		96				92			81		89	96	97			
<i>Proteus mirabilis</i>	82	91	96			100	100	100	99	84	100	100			96	89	0	99	92	100	0	
<i>Enterobacter species</i>	61	0	0			0	100	100		0					84	85	42	96	92	100	92	
<i>Klebsiella oxytoca</i>	37	0	82			77	100	100		29	84	84			98	87	73	98	100	100	95	
<i>Citrobacter species</i>	53	0	0			0	100	100							93	86	95	97	98	100	82	
<i>Serratia marcescens</i>	18	0	0			0	100	100		0					100	100	0	100	94	100	33	
GRAM-POSITIVE ORGANISMS																						
<i>Enterococcus faecalis</i>	104	100	100	100		100									70	99				23	100	100
Staphylococcus aureus, all isolates	27				85	85	85	85	85	85					97	66	97			100	100	
-methicillin-susceptible	23				100	100	100	100	100	100					96	78	96			100	100	
- methicillin-resistant (MRSA)	4				0	0	0	0	0	0					100	0	100			100	100	
Coagulase-negative staphylococci	27				52	52	52	52		52					60	48	90			90	100	
<i>Enterococcus faecium</i>	14	0	0	0		0									0	0				50	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
- *Revised lower 2019 CLSI breakpoints for testing of Ciprofloxacin and Levofloxacin with Enterobacteriaceae and P. aeruginosa may result in lower % Susceptible rates. Please take this into consideration when interpreting the reported results

Sault Area Hospital 2019 Antibiogram report

All Locations Blood 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	Linezolid		
Gram-Negative	GRAM-NEGATIVE ORGANISMS																								
		<i>Escherichia coli</i>	67	55	81		89	100	100	86	90	94			78	73		84	89	100	79				
		<i>Klebsiella pneumoniae</i>	19	0	100		100	100	100	95	100	100			100	85		100	100	100	94				
		<i>Pseudomonas aeruginosa</i>	17				75		100			82				94		100	100	100					
Gram-Positive	GRAM-POSITIVE ORGANISMS																								
		<i>Coagulase-negative staphylococci</i>	162			51	51	51	51	51			63	38	70	69						84	100		
		<i>Staphylococcus aureus</i> , all isolates	56			75	75	75	75	75			71	55	100	71						100	100		
		-methicillin-susceptible	42			100	100	100	100	100			76	69	100	95						100	100		
		- methicillin-resistant (MRSA)	14			0	0	0	0	0			57	14	100	0						100	100	100	
		<i>Enterococcus faecalis</i>	16	100	100	100	100																100	100	
		<i>Group B streptococci</i>	14	100	100	100	100							46	46								100		
		<i>Group G streptococci</i>	12	100	100	100	100							92	92								100		
	<i>Streptococcus pneumoniae</i>	11			100								82	65	91		100				82	100			

- Statistical validity of estimates of percent susceptibility for organisms for which there are fewer than 30 reported is limited.
- Some organisms for which there were only very small numbers have been excluded from this
- Patient duplicates excluded
- *Revised lower 2019 CLSI breakpoints for testing of Ciprofloxacin and Levofloxacin with Enterobacteriaceae and *P. aeruginosa* may result in lower % Susceptible rates. Please take this into consideration when interpreting the reported results

Sault Area Hospital January - December 2019 Antibiogram report

In-Patient Urine Isolates – % Susceptible

			≥80% Susceptible	70-79% Susceptible	≤69% Susceptible																			
		# 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
Organism																								
Gram-Negative	GRAM-NEGATIVE ORGANISMS																							
	<i>Escherichia coli</i>	123	56	76			89	100	100	89	79	96	96			83	77	93	92	92	100	82		
	<i>Klebsiella pneumoniae</i>	34	0	92			92	100	100	94	92	92	92			92	100	44	94	94	100	94		
	<i>Pseudomonas aeruginosa</i>	33					89		100				88				83		91	97	97			
	<i>Proteus mirabilis</i>	13	100	100			100	100	100	100	83	100	100			100	75	0	92	100	100	0		
	<i>Citrobacter species</i>	15	0	0			0	100	100		0					80	87	100	100	100	100	87		
	<i>Enterobacter species</i>	14	0	0			0	100	100		0					100	78	38	100	93	100	100		
	<i>Klebsiella oxytoca</i>	13	0	84			66	100	100		18		84			100	64	84	100	100	100	100		
Gram-Positive	GRAM-POSITIVE ORGANISMS																							
	<i>Enterococcus faecalis</i>	49	100	100	100		100										71	100				21	100	100
	Coagulase-negative staphylococci	11				46	46	46	46		46					36	36	100				82	100	

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
- Patient duplicates excluded
- *Revised lower 2019 CLSI breakpoints for testing of Ciprofloxacin and Levofloxacin with Enterobacteriaceae and P. aeruginosa may result in lower % Susceptible rates. Please take this into consideration when interpreting the reported results

Prepared by Marianne Cuglietta, Senior Technologist Microbiology

Jun-20

Sault Area Hospital January - December 2019 Antibiogram report

ED 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	Cephalixin	V Cefazolin	Ceftriaxone	Ceftazidime	Clindamycin	Erythromycin	Trimethoprim-Sulfamethoxazole	Ciprofloxacin*	Nitrofurantoin	Gentamicin	Tobramycin	Amikacin	Doxycycline	Vancomycin	Linezolid
Gram-Negative	GRAM-NEGATIVE ORGANISMS																						
	<i>Escherichia coli</i>	544	65	86		93	100	100	95	89	96	96			83	83	96	93	94	100	85		
	<i>Klebsiella pneumoniae</i>	75	0	96		94	100	100	98	94	98	98			92	87	27	98	98	100	88		
	<i>Citrobacter species</i>	22	0	0		0	100	100		0					97	82	91	100	100	100	99		
	<i>Pseudomonas aeruginosa</i>	22				100		87				100				87		96	100	100			
	<i>Proteus mirabilis</i>	37	97	100		100	100	100	100	90	100	100			97	98	0	100	98	100	0		
	<i>Enterobacter species</i>	22	0	0		0	100	100		0					89	89	59	89	89	100	100		
	<i>Klebsiella oxytoca</i>	13	0	77		77	100	100		30	77				93	100	77	100	100	100	92		
Gram-Positive	GRAM-POSITIVE ORGANISMS																						
	<i>Enterococcus faecalis</i>	31	100	100	100	100										66	97				26	100	100

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
- Patient duplicates excluded
- *Revised lower 2019 CLSI breakpoints for testing of Ciprofloxacin and Levofloxacin with Enterobacteriaceae and P. aeruginosa may result in lower % Susceptible rates. Please take this into consideration when interpreting the reported results

Prepared by Marianne Cuglietta, Senior Technologist Microbiology

Jun-20

Sault Area Hospital 2019 Antibiogram report

**2018-2019 ICU 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																						
<i>Pseudomonas aeruginosa</i>	34					65		71		77					82	75	79	85	100			
<i>E. coli</i>	15	64	86			93	100	100	86	93	93			93	86		100	93	100	86		
GRAM-POSITIVE ORGANISMS																						
Staphylococcus aureus, all isolates	60				78	78	78	78	78			75	61	100	69					100	100	
-methicillin-susceptible	47				100	100	100	100	100			83	74	100	88					100	100	
- methicillin-resistant (MRSA)	13				0	0	0	0	0			46	15	100	0					100	100	100
Coagulase-negative staphylococci	52				35	35	35	35	35			48	29	59	55					93	100	
<i>Streptococcus pneumoniae</i>	16			100								93	69	94		100				94	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
- *Revised lower 2019 CLSI breakpoints for testing of Ciprofloxacin and Levofloxacin with Enterobacteriaceae and *P. aeruginosa* may result in lower % Susceptible rates. Please take this into consideration when interpreting the reported results

Prepared by Marianne Cuglietta, Senior Technologist Microbiology

Jun-20

Sault Area Hospital January - December 2019 Antibiogram report

Blood Isolates ALL Patients – % Susceptible

Organism	# of isolates	Fluconazole	Voriconazole	Caspofungin	Micagungin	Anidulafungin
ALL Candida	12					
<i>Candida albicans</i>	8	100	100	100	100	100
<i>Candida tropicalis</i>	2	100	50	100	100	100
<i>Candida dubliniensis</i>	1	100	100	100	100	100
<i>Candida glabrata</i> *	1	100		100	100	100

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.
- 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.