

Sault Area Hospital January - December 2017 Antibiogram report

All Location Non-Urine Isolates – % Susceptible

		≥80% Susceptible ■ 70-79% Susceptible ■ ≤69% Susceptible ■																					
Organism		# of isolates	Ampicillin	Clavulanic Acid-Amoxicillin	Penicillin	Cloxacillin	Piperacillin-Tazobactam	Meropenem	Cefazolin	Ceftriaxone	Ceftazidime	Clindamycin	Erythromycin	Trimethoprim-Sulfamethoxazole	Ciprofloxacin	Levofloxacin	Gentamicin	Tobramycin	Amikacin	Doxycycline	Vancomycin	Linezolid	
Gram-Negative	ALL GRAM-NEGATIVE ORGANISMS																						
	<i>Pseudomonas aeruginosa</i>	132				83	89			85					85		94	97	100				
	<i>Escherichia coli</i>	93	58	72		81	100	75	86	86				81	78		85	86	95	79			
	<i>Klebsiella pneumoniae</i>	23	0	91		100	100	100	100	100				100	100		100	100	100	95			
	<i>Enterobacter species</i>	21	0	0		0	100	0						100	100		100	100	100	94			
Gram-Positive	ALL GRAM-POSITIVE ORGANISMS																						
	Staphylococcus aureus, all isolates	434			68							73	54	99	67						97	100	
	-methicillin-susceptible	295			100							84	76	99	91						96	100	
	- methicillin-resistant (MRSA)	139			0							51	6	100	16						98	100	
	Coagulase-negative staphylococci	136			60							61	38	70	68						88	100	
	Group B streptococci	69			100							43	44									100	
	Group A streptococci	50			100							76	80									100	
	<i>Streptococcus pneumoniae</i>	27			100							96	78	85		100					92	100	
	Other Beta Streptococci	41			100							64	64									100	
	<i>Enterococcus faecalis</i>	17	100		100																12	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

Prepared by Marianne Cuglietta, Senior Technologist Bacteriology

Jan-18

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All Locations Urine Isolates – % Susceptible

			≥80% Susceptible ■ 70-79% Susceptible ■ ≤69% Susceptible ■			# of isolates	Ampicillin	Clavulanic Acid-Amoxicillin	Penicillin	Cloxacillin	Piperacillin-Tazobactam	Meropenem	Cephalexin	IV Cefazolin	Ceftriaxone	Ceftazidime	Clindamycin	Erythromycin	Trimethoprim-Sulfamethoxazole	Ciprofloxacin	Norfloxacin	Nitrofurantoin	Gentamicin	Tobramycin	Amikacin	Doxycycline	Vancomycin	Linezolid
Organism																												
Gram-Negative	ALL GRAM-NEGATIVE ORGANISMS																											
	<i>Escherichia coli</i>	1113	56	79		89	100	92	87	94	94				82	82			96	90	90	100	78					
	<i>Klebsiella pneumoniae</i>	210	0	93		94	100	98	96	98	98				92	94			36	99	98	100	89					
	<i>Pseudomonas aeruginosa</i>	108				84	81									87			67			85	96	93				
	<i>Enterobacter species</i>	80	0	0		0	97		0										91	95	37	93	91	98	87			
	<i>Proteus mirabilis</i>	74	85	97		97	100	97	87	97	97								85	86		0	81	82	97	0		
	<i>Klebsiella oxytoca</i>	61	0	88		88	100		57	93	95								100	100		72	100	100	100	98		
	<i>Citrobacter species</i>	59	0	0		0	100		0										80	86		87	92	84	100	81		
	<i>Serratia species</i>	11	0	0		0	100		0										100	100		9	100	90	100	18		
Gram-Positive	ALL GRAM-POSITIVE ORGANISMS																											
	<i>Enterococcus faecalis</i>	128	100			100														63		99				15	100	100
	Coagulase-negative staphylococci	28				41													43	29	32	100				86	100	
	Staphylococcus aureus, all isolates	40				73													100	52	60	100				100	100	
	-methicillin-susceptible	29				100													100	79	79	100				100	100	
	- methicillin-resistant (MRSA)	11				0													100	0	9	100				100	100	
	<i>Enterococcus faecium</i>	14	0			0														0		29				21	100	100

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In-Patient Non-Urine Isolates – % Susceptible

		# of isolates	Ampicillin	Clavulanic Acid-Amoxicillin	Penicillin	Cloxacillin	Piperacillin-Tazobactam	Meropenem	Cefazolin	Ceftriaxone	Ceftazidime	Clindamycin	Erythromycin	Trimethoprim-Sulfamethoxazole	Ciprofloxacin	Levofloxacin	Gentamicin	Tobramycin	Amikacin	Doxycycline	Vancomycin	Linezolid					
Gram-Negative	GRAM-NEGATIVE ORGANISMS																										
	<i>Pseudomonas aeruginosa</i>	61				76	83				77			80			87	93	100								
	<i>Escherichia coli</i>	21	77	82			86	100	82	95	95			86	73			91	95	95	90						
Gram-Positive	GRAM-POSITIVE ORGANISMS																										
	<i>Staphylococcus aureus</i> , all isolates	118				66						62	48	100	58								98	100			
	-methicillin-susceptible	78				100						79	73	100	85								97	100			
	- methicillin-resistant (MRSA)	40				0						30	0	100	5								100	100			
	Coagulase-negative staphylococci	45				41						51	36	62	55								93	100			
	Group B streptococci	15				100						47	58											100			
	<i>Streptococcus pneumoniae</i>	11				100						100	82	100		100							100	100			

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In-Patient Urine Isolates – % Susceptible

			≥80% Susceptible	70-79% Susceptible	≤69% Susceptible																			
		# of isolates	Ampicillin	Clavulanic Acid-Amoxicillin	Penicillin	Cloxacillin	Piperacillin-Tazobactam	Meropenem	Cephalexin	IV Cefazolin	Ceftriaxone	Ceftazidime	Clindamycin	Erythromycin	Trimethoprim-Sulfamethoxazole	Ciprofloxacin	Norfloxacin	Nitrofurantoin	Gentamicin	Tobramycin	Amikacin	Doxycycline	Vancomycin	Linezolid
Organism																								
GRAM-NEGATIVE ORGANISMS																								
Gram-Negative	<i>Escherichia coli</i>	170	58	77		85	100	89	85	91	91				80	80		95	86	87	100	74		
	<i>Klebsiella pneumoniae</i>	50	0	98		96	100	98	98	98	98				90	94		34	100	98	100	90		
	<i>Pseudomonas aeruginosa</i>	46				86	82					87				84			82	98	91			
	<i>Enterobacter species</i>	25	0	0		0	92		0						87	87		32	87	87	100	75		
	<i>Proteus mirabilis</i>	21	95	95		95	100	95	92	95	95				95	90		0	76	76	90	0		
	<i>Citrobacter species</i>	21	0	0		0	100		0						76	75		81	95	76	100	74		
	<i>Klebsiella oxytoca</i>	12	0	83		83	100		50		82	82			100	100		91	100	100	100	100		
GRAM-POSITIVE ORGANISMS																								
Gram-Positive	<i>Enterococcus faecalis</i>	64	100		100											64		100				15	100	100
	Coagulase-negative staphylococci	10			44										20	20	25	100				80	100	
	Staphylococcus aureus, all isolates	10			70										100	58	58	100				100	100	
	-methicillin-susceptible	6			100										100	83	83	100				100	100	
	- methicillin-resistant (MRSA)	3			0										100	0	0	100				100	100	

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ED Non-Urine Isolates – % Susceptible

			<div style="display: flex; justify-content: space-between; font-size: small;"> ≥80% Susceptible ■ 70-79% Susceptible ■ ≤69% Susceptible ■ </div>																				
	Organism	# of isolates	Ampicillin	Clavulanic Acid-Amoxicillin	Penicillin	Cloxacillin	Piperacillin-Tazobactam	Meropenem	Cefazolin	Ceftriaxone	Ceftazidime	Clindamycin	Erythromycin	Trimethoprim-Sulfamethoxazole	Ciprofloxacin	Levofloxacin	Gentamicin	Tobramycin	Amikacin	Doxycycline	Vancomycin	Linezolid	
Gram-Negative	ALL GRAM-NEGATIVE ORGANISMS																						
	<i>Escherichia coli</i>	58	53	71			83	100	76	87	87			82	80		84	81	94	75			
	<i>Pseudomonas aeruginosa</i>	32					82	97			94				91		100	100	100				
	<i>Enterobacter species</i>	10	0	0			0	100	0	0	0			100	100		100	100	100	100			
Gram-Positive	ALL GRAM-POSITIVE ORGANISMS																						
	Staphylococcus aureus, all isolates	219				63						78	52	99	66						96	100	
	-methicillin-susceptible	138			100							87	79	99	93						95	100	
	- methicillin-resistant (MRSA)	81			0							62	7	100	20						99	100	
	Coagulase-negative staphylococci	72			62							60	33	70	73						82	100	
	Group A streptococci	32			100							75	78									100	
	Other Beta Streptococci	22			100							68	68									100	
	Group B streptococci	20			100							25	26									100	
<i>Streptococcus pneumoniae</i>	12			100								75	75		100					83	100		

General Notes:

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- Patient duplicates excluded
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ED Urine Isolates – % Susceptible

			<table border="0" style="font-size: small;"> <tr> <td style="width: 15px; height: 10px; background-color: #90EE90;"></td> <td>≥80% Susceptible</td> </tr> <tr> <td style="width: 15px; height: 10px; background-color: #FFFF00;"></td> <td>70-79% Susceptible</td> </tr> <tr> <td style="width: 15px; height: 10px; background-color: #FF0000;"></td> <td>≤69% Susceptible</td> </tr> </table>																		≥80% Susceptible		70-79% Susceptible		≤69% Susceptible
	≥80% Susceptible																								
	70-79% Susceptible																								
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Organism	# of isolates	Ampicillin	Clavulanic Acid-Amoxicillin	Penicillin	Cloxacillin	Piperacillin-Tazobactam	Meropenem	Cefazolin	Ceftriaxone	Ceftazidime	Clindamycin	Erythromycin	Trimethoprim-Sulfamethoxazole	Ciprofloxacin	Norfloxacin	Nitrofurantoin	Gentamicin	Tobramycin	Amikacin	Doxycycline	Vancomycin	Linezolid			
ALL GRAM-NEGATIVE ORGANISMS																									
Gram-Negative	<i>Escherichia coli</i>	688	56	80		90	100	87	94	94			82	83		97	91	91	100	79					
	<i>Klebsiella pneumoniae</i>	92	0	91		96	100	98	99	99			98	96		37	98	98	100	97					
	<i>Citrobacter species</i>	19	0	0		0	100	0					74	89		85	90	85	100	79					
	<i>Pseudomonas aeruginosa</i>	33				79	78			88				56			84	90	93						
	<i>Proteus mirabilis</i>	32	84	97		97	100	86	97	97			84	100		0	78	81	100	0					
	<i>Enterobacter species</i>	27	0	0		0	100	0					89	96		52	96	92	96	96					
	<i>Klebsiella oxytoca</i>	15	0	93		93	100	60	100	100			100	100		73	100	100	100	93					
	ALL GRAM-POSITIVE ORGANISMS																								
Gram-Positive	<i>Enterococcus faecalis</i>	29	100		100									66		100				18	100	100			
	Staphylococcus aureus, all isolates	13			77								100	46	46	100				100	100				
	-methicillin-susceptible	10			100								100	60	60	100				100	100				
	- methicillin-resistant (MRSA)	3			0								100	0	0	100				100	100				
	Coagulase-negative staphylococci	13			31								62	38	38	100				85	100				

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Sault Area Hospital 2016- 2017 Antibiogram report

ICU Non-Urine Isolates – % Susceptible

			Ampicillin	Clavulanic Acid- Amoxicillin	Penicillin	Methicillin	Piperacillin- Tazobactam	Meropenem	Cefazolin	Ceftriaxone	Ceftazidime	Clindamycin	Erythromycin	Trimethoprim- Sulfamethoxazole	Ciprofloxacin	Levofloxacin	Gentamicin	Tobramycin	Amikacin	Tetracycline	Vancomycin	Linezolid
		# of isolates																				
		Organism																				
Gram- Negative	ALL GRAM-NEGATIVE ORGANISMS																					
		<i>Pseudomonas aeruginosa</i>	16				60	69			53				69		69	79	100			
Gram- Positive	ALL GRAM-POSITIVE ORGANISMS																					
		Staphylococcus aureus, all isolates	23			78						92	63	100	70					95	100	
		-methicillin-susceptible	18			100						95	80	100	89					94	100	
		- methicillin-resistant (MRSA)	5			0						80	0	100	0					100	100	
		Coagulase-negative staphylococci	13			27						38	15	62	38					77	100	

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Blood Isolates ALL Patients – % Susceptible

Organism	# of isolates	Fluconazole	Voriconazole	Caspofungin	Micagungin	Anidulafungi
ALL Candida						
<i>Candida parapsilosis</i>	3	100	100	100	100	100
<i>Candida albicans</i>	2	100	100	100	100	100
<i>Candida glabrata</i> *	2	100		100	100	100
<i>Candida tropicalis</i>	1	100	100	100	100	100

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- **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.

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