

Saskatchewan Health Authority - Saskatoon Area - ANTIBIOGRAM 2019

Adult Outpatients - URINE Isolates

January 1, 2019 - December 31, 2019

Outpatients – % Susceptible

	# Isolates tested	Penicillin PO/IV	Ampicillin/Amoxicillin	Cloxacillin	Amoxicillin-Clavulanic acid	Piperacillin-Tazobactam	Cephalexin	Cefazolin	Cefoxitin	Cefuroxime	Ceftriaxone	Ceftazidime	Meropenem	Ertapenem	Ciprofloxacin	Moxifloxacin	Trimethoprim-Sulfamethoxazole	Nitrofurantoin (urine only)	Fosfomycin (urine only)	Gentamicin	Tobramycin	Vancomycin
GRAM-NEGATIVE BACTERIA																						
<i>Escherichia coli</i> ¹ -	8091	59		83	99		90	94		94	94	100	100	77		77	97	100	93	92		
<i>Enterobacter aerogenes</i> ² -	72	R		R	R		R	R		R	R	100	100	93		99	R	73	100	100		
<i>Enterobacter cloacae</i> ² -	167	R		R	R		R	R		R	R	99	85	89		87	48	60	94	92		
<i>Klebsiella pneumoniae</i> ¹ -	937	R		96	99		96	94		97	97	100	100	87		93	45	82	99	98		
<i>Klebsiella oxytoca</i> -	213	R		94	94		77	97		96	100	100	100	96		96	89	77	100	100		
<i>Pseudomonas aeruginosa</i> -	227				98						96	96			83				92	100		
<i>Morganella morganii</i> ² -	58	R		R	100		R	R		R	92	100	100	69		67	R	R	76	100		
<i>Proteus mirabilis</i> -	346	92		99	100		97	98		99	99	100	100	96		94	R	87	97	97		
<i>Citrobacter freundii</i> ² -	79	R		R	R		R	R		R	R	100	98	87		84	92	98	94	92		
<i>Citrobacter koseri</i> ² -	86	R		100	100		100	97		100	100	100	100	100		100	97	100	100	100		
<i>Citrobacter braakii</i>	33	R		R	94		R	R		91	91	100	100	91		94	97	100	97	100		
<i>Serratia marcescens</i> ² -	38	R		R	95		R	R		92	R	100	100	92		100	R	97	100	100		

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GRAM-POSITIVE BACTERIA																						
<i>Staphylococcus aureus</i> , all																						
- methicillin-susceptible (MSSA) -	125			100				100							89		100	100				100
- methicillin-resistant (MRSA) †-	19	R	R	R	R	R	R	R	R	R	R	R	R	R	R		100	100				100
<i>Aerococcus urinae</i>	106	97									93											100
<i>Enterococcus faecalis</i> , urine	1494		100				R	R	R	R	R				87			98	90			100
<i>Enterococcus faecium</i> , urine ³	75	40					R	R	R	R	R				R	R		R				87

R - intrinsically resistant

† Isolates containing less than 30 reported specimens should be interpreted using presented data ALONG WITH clinical judgement and/or input from infectious diseases service

¹ Overall extended spectrum beta-lactamase (ESBL) activity was seen in a weighted average of 6.2% of samples of *E.coli*, *K.pneumoniae* and *P.mirabilis*

² These organisms may produce inducible beta-lactamase (AmpC) enzymes. Use of beta-lactams can result in clinical failure despite in vitro susceptibility

³VRE (vancomycin-resistant Enterococci) isolated from clinical specimens: *E. faecium* 13% (N = 10)