

Saskatchewan Health Authority - Saskatoon Area ANTIBIOGRAM 2019
Adult Inpatients - Urinary Isolates
January 1, 2019 - December 31, 2019

Inpatients – % Susceptible

	# Isolates tested	Penicillin PO/IV	Ampicillin/Amoxicillin	Cloxacillin	Amoxicillin-Clavulanic acid	Piperacillin-Tazobactam	Cefazolin	Cefoxitin	Cefuroxime	Ceftriaxone	Ceftazidime	Meropenem	Ertapenem	Erythromycin	Tetracycline/Doxycycline	Ciprofloxacin	Moxifloxacin	Trimethoprim-Sulfamethoxazole	Nitrofurantoin (urine only)	Fosfomycin PO (urine only)	Gentamicin	Tobramycin	Vancomycin
GRAM-NEGATIVE BACTERIA																							
<i>Escherichia coli</i> ¹ -	1074	53	76	96	82	91		88	88	100	100					70		76	96	99	90	90	
<i>Enterobacter aerogenes</i> ² †-	17	R	R	R	R	R		R	R	100	88					77		100	R	91	100	100	
<i>Enterobacter cloacae</i> ² -	58	R	R	R	R	R		R	R	100	88					91		91	R	60	100	97	
<i>Klebsiella pneumoniae</i> ¹ -	190	R	94	97	94	92		95	95	100	100				79	86		90	46	87	96	97	
<i>Klebsiella oxytoca</i> -	48	R	88	92	67	100		92	100	100	100					100		96	94	72	100	100	
<i>Pseudomonas aeruginosa</i> -	128				95					94	96					87						98	100
<i>Morganella morganii</i> ² †-	21	R	R	95	R	R		R	90	100	100					95		86	R		91	89	
<i>Proteus mirabilis</i> -	83	88	95	100	95	94		99	100	100	100					93		92	R	84	92	94	
<i>Citrobacter freundii</i> ² †-	19	R	R	R	R	R		R	R	100	100					90		95	95	100	100	100	
<i>Citrobacter koseri</i> ² †-	15	R	100	100	100	100		100	100	100	100					87		100	87	100	100		

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GRAM-POSITIVE BACTERIA																								
<i>Staphylococcus aureus</i> , all																								
- methicillin-susceptible (MSSA) -	42		100			100										100	86		95	100				100
- methicillin-resistant (MRSA) †-	10	R	R	R	R	R	R	R	R	R	R	R	R			80	R		100	100				100
<i>Aerococcus urinae</i>	39	97								90														100
<i>Enterococcus faecalis</i> , urine -	412	100					R	R	R	R	R			R	R	82			100					100
<i>Enterococcus faecium</i> , urine ³ -	141	R					R	R	R	R	R			R	67	R			R					67

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 5.9 % 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

³ VRE (vancomycin-resistant Enterococci) isolated from clinical specimens: *E.faecalis* 33% (N= 95)