

# Saskatchewan Health Authority - Saskatoon Area Antibiogram 2018

## ADULT INPATIENTS - Urinary Isolates

January 1, 2018 - December 31, 2018

### Inpatients – % Susceptible

	# Isolates tested	Penicillin PO/IV	Ampicillin/Amoxicillin	Cloxacillin	Amoxicillin-Clavulanic acid	Piperacillin-Tazobactam	Cephalixin	Cefazolin	Cefoxitin	Cefuroxime	Ceftriaxone	Ceftazidime	Meropenem	Ertapenem	Ciprofloxacin	Trimethoprim-Sulfamethoxazole	Nitrofurantoin (urine only)	Gentamicin	Tobramycin	Vancomycin
<b>GRAM-NEGATIVE BACTERIA</b>																				
<i>Escherichia coli</i> <sup>1</sup>	684	55		80	96			83	91		91	91	100	100	75	76	97	90	89	
<i>Enterobacter aerogenes</i> <sup>2 ‡</sup>	14	R		R	R			R	R		R	R	100	93	100	93	R	100	100	
<i>Enterobacter cloacae</i> <sup>2</sup>	69	R		R	R			R	R		R	R	100	91	97	88	43	97	97	
<i>Klebsiella pneumoniae</i> <sup>1</sup>	157	R		94	96			93	92		96	96	100	100	93	91	45	96	96	
<i>Klebsiella oxytoca</i>	35			94	94			31	100		94	100	100	100	100	100	97	100	100	
<i>Pseudomonas aeruginosa</i>	102				93							88	90		90			97	100	
<i>Proteus mirabilis</i> <sup>1</sup>	70	86		96	100			90	97		97	99	100	100	90	84	R	91	91	
<i>Citrobacter freundii</i> <sup>2 ‡</sup>	14	R		R	R			R	R		R	R	100	100	100	79	93	86	93	
<i>Citrobacter koseri</i> <sup>‡</sup>	15	R		93	100			93	87		100	100	100	100	100	100	93	100	100	

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<b>GRAM-POSITIVE BACTERIA</b>																				
<i>Staphylococcus aureus</i> , all																				
- methicillin-susceptible (MSSA) -	41			100				100							93	95	98	100		100
- methicillin-resistant (MRSA) ‡	13	R	R	R	R	R	R	R	R	R	R	R	R	R	R	100	100	100		100
<i>Enterococcus faecalis</i>	401		100				R	R	R	R	R	R			80		100			100
<i>Enterococcus faecium</i>	143		R				R	R	R	R	R	R			R		R			78

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

<sup>1</sup> 7.4 % of combined *E.coli*, *K.pneumoniae* and *P.mirabilis* isolates were ESBL (extended spectrum beta-lactamase) positive

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

<sup>3</sup> susceptibility to gentamicin in gram positive organisms refers to combination synergy treatment only