

Saskatoon Health Region ANTIBIOGRAM 2016
ADULT OUTPATIENTS - Urinary Isolates
January 1, 2016 - December 31, 2016

Outpatients – % Susceptible

# Isolates tested	Penicillin PO/IV	Ampicillin/Amoxicillin	Cloxacillin	Amoxicillin-Clavulanic acid	Piperacillin-Tazobactam	Cephalexin	Cefazolin	Cefoxitin	Cefuroxime	Ceftriaxone	Ceftazidime	Meropenem	Ertapenem	Clindamycin	Azithromycin	Erythromycin	Tetracycline/Doxycycline	Ciprofloxacin	Moxifloxacin	Trimethoprim-Sulfamethoxazole	Nitrofurantoin (urine only)	Gentamicin ³	Tobramycin	Vancomycin
GRAM-NEGATIVE BACTERIA																								
<i>Escherichia coli</i> ¹	11671	59		87	97		88	95		94	95	100	100					85		79	98	93	94	
<i>Enterobacter aerogenes</i> ²	121	30		R	92		32	R		89	88	100	100					100		99	28	100	100	
<i>Enterobacter cloacae</i> ²	241	R		R	86		R	R		83	83	100	92					98		90	47	97	97	
<i>Klebsiella pneumoniae</i> ¹	1463	R		96	96		94	95		96	96	100	100					97		93	62	98	98	
<i>Klebsiella oxytoca</i>	315	R		91	91		45	98		94	100	100	100					99		91	92	98	98	
<i>Pseudomonas aeruginosa</i> ²	254				98						97	96						91					96	97
<i>Morganella morganii</i> ²	58	R		R	100		R	43		95	97	100	100					95		81	R	88	97	
<i>Proteus mirabilis</i>	450	84		97	100		89	99		98	99	100	100					97		90	R	96	98	
<i>Citrobacter freundii</i> ²	139	R		66	92		R	R		89	89	100	99					98		88	96	98	99	
<i>Citrobacter koseri</i> ²	157	R		99	100		97	97		99	98	100	100					99		100	95	99	99	
<i>Serratia marcescens</i> ²	40	R		28	100		R	30		100	97	100	100					93		100	R	98	98	

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GRAM-POSITIVE BACTERIA																								
<i>Staphylococcus aureus</i> , all																								
- methicillin-susceptible (MSSA)	218		100											84		83	95	91	93	96	100	99		100
- methicillin-resistant (MRSA)	30	R	R	R	R	R	R	R	R	R	R	R	R	63		47	97	57	57	100	97	100		100
<i>Enterococcus faecalis</i> , urine	1563		99			R	R	R	R	R	R					R	R	85	87		99			100
<i>Enterococcus faecium</i> , urine	97	R				R	R	R	R	R	R					R	60	R	R		38			95

R - intrinsically resistant or less than 25% empiric susceptibility

† 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 4.3 % of E.coli (n = 505) and 3.6 % of K.pneumoniae (n= 52) were +ESBL (extended spectrum beta-lactamase)

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

³ susceptibility to gentamicin in gram positive organisms refers to combination synergy treatment only