

Saskatoon Health Region ANTIBIOGRAM 2016
ADULT OUTPATIENTS - NON-Urine 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 ⁴	Tobramycin	Vancomycin
GRAM-NEGATIVE BACTERIA																								
<i>Escherichia coli</i> ¹	12144	58		86	97		86	95		93	93	100	100					85		79	97	93	94	
<i>Enterobacter aerogenes</i> ²	133	28		R	92		30			90	89	100	100					100		99	27	100	100	
<i>Enterobacter cloacae</i> ²	269	R		R	84		R	R		81	82	100	92					99		90	46	97	97	
<i>Haemophilus influenzae</i>	73	58							83	100					96				99	67				
<i>Klebsiella pneumoniae</i> ¹	1529	R		96	96		93	95		96	95	100	99					96		93	61	98	97	
<i>Klebsiella oxytoca</i>	338	R		90	91		45	99		94	99	100	100					99		92	92	99	99	
<i>Pseudomonas aeruginosa</i> ²	557				90						91	86						81				82	90	
<i>Morganella morganii</i> ²	80	R		R	99		R	43		91	97	100	100					94		80	R	86	96	
<i>Proteus mirabilis</i>	471		83		97	100		89	99		99	99	100	100					97		90	R	96	98
<i>Citrobacter freundii</i> ²	144	R		65	92		R	R		90	90	100	99					98		88	96	98	99	
<i>Citrobacter koseri</i> ²	167	R		99	100		97	96		99	98	100	100					99		100	94	99	99	
<i>Serratia marcescens</i> ²	59	R		R	100		R	R		95	98	100	100					92		100	R	98	98	

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GRAM-POSITIVE BACTERIA																								
<i>Staphylococcus aureus</i> , all																								
- methicillin-susceptible (MSSA)	1359		100				100							79		77	94	93	96	94	99	99		100
- methicillin-resistant (MRSA)	600	R	R	R	R	R	R	R	R	R	R	R	R	64		47	96	64	64	98	99	82		100
<i>Staphylococcus epidermidis</i>	119		34											52		40		50	49	48	100	86		100
<i>Streptococcus pneumoniae</i>	52	87							96	98		100		93		81			100					100
<i>Enterococcus faecalis</i> , excl. urine	1679		99			R	R	R	R	R	R					R	R	86	88		99			99
<i>Enterococcus faecium</i> , excl. urine	143	R				R	R	R	R	R	R					R	57	R	R		39			76

R - intrinsically resistant or less than 25% empiric susceptibility

¹ 4.3% of *E. coli* (n=518) and 3.5% of *K. pneumoniae* (n=54) 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 *Streptococcus anginosus* group includes: *S. anginosus*, *S. constellatus*, *S. intermedius*

⁴ susceptibility to gentamicin in gram positive organisms refers to combination synergy treatment only