

Saskatchewan Health Authority - Saskatoon Area AntibioGram 2018

OUTPATIENTS - All Isolates (including Urinary isolates)

January 1, 2018 - December 31, 2018

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	Tobramycin	Vancomycin
GRAM-NEGATIVE BACTERIA																									
<i>Escherichia coli</i> ¹	9358		56		83	97		82	94		90	90	100	100					83		77	96	92	92	
<i>Enterobacter aerogenes</i> ²	94		R		R	R		R	R		R	R	100	100					99		99	R	100	100	
<i>Enterobacter cloacae</i> ²	266		R		R	R		R	R		R	R	100	95					93		87	44	100	94	
<i>Haemophilus influenzae</i>	59		58							86	98					93				100	72				
<i>Klebsiella pneumoniae</i> ¹	1271		R		95	97		93	96		95	95	100	100					96		93	40	98	98	
<i>Klebsiella oxytoca</i>	320		R		96	97		33	99		98	99	100	100					100		96	85	100	100	
<i>Pseudomonas aeruginosa</i>	480					91						93	91						77				83	92	
<i>Morganella morganii</i> ²	77		R		R	R		R	R		R	R	100	100					82		64	R	83	90	
<i>Proteus mirabilis</i> ¹	428		82		99	100		88	98		99	99	100	100					94		86	R	96	96	
<i>Citrobacter freundii</i> ²	89		R		R	R		R	R		R	R	100	100					96		85	91	99	98	
<i>Citrobacter koseri</i>	132		R		99	100		98	99		100	100	100	100					100		100	87	100	100	
<i>Citrobacter braakii</i>	33		R		42	88		R	R		82	81	100	97					100		94	97	100	100	
<i>Serratia marcescens</i> ²	51		R		R	R		R	R		R	R	100	98					100		100		100	100	

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GRAM-POSITIVE BACTERIA																									
<i>Staphylococcus aureus</i> , all																									
- methicillin-susceptible (MSSA)	1045			100				100							81		78	97	92	94	94	100	99		100
- methicillin-resistant (MRSA)	507	R	R	R	R	R	R	R	R	R	R	R	R	R	65		39	98	51	51	95	100	78		100
<i>Staphylococcus epidermidis</i>	128							100							62		37	90	67	68	59	100	58		100
<i>Staphylococcus lugdunensis</i>	96			72				100							89		89	95	98	98	100	100	100		100
<i>Streptococcus pneumoniae</i>	47	100								98	100		100		97		87			100					100
Group A Streptococcus †	19	100									100				63		63								100
Group B Streptococcus	38	100									100				42		40								100
Group C / Group G Strep	34	100									100				71		71								100
<i>Streptococcus anginosus</i> group ⁴	31	87									100				94		90								100
"Viridans group" Streptococci ⁵	36	50									86				79		R								100
<i>Enterococcus faecalis</i>	1772		100				R	R	R	R	R	R					R	R	86	88		99			100
<i>Enterococcus faecium</i>	163		37				R	R	R	R	R	R					R	72	R	R		40			60

R - intrinsically resistant or less than 25% empiric sensitivity

† 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 4.8 % of combined *E.coli*, *K.pneumoniae* and *P.mirabilis* isolates were ESBL (extended spectrum beta-lactamase) positive

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

⁴ *Streptococcus anginosus* group includes: *S. anginosus*, *S. constellatus*, *S. intermedius*

⁵ Viridans group Streptococci include *S.mitis/oralis*, *S.parasanguinis*, *S.salivarius*, *S.sanguinis*, *S.mutans*