

Saskatchewan Health Authority - Saskatoon Area AntibioGram 2018

PEDIATRIC INPATIENTS - All Isolates (including Urinary isolates)

January 1, 2018 - December 31, 2018

Inpatients – % Susceptible

	# Isolates tested	Penicillin PO/IV	Penicillin IV - meningitis	Ampicillin/Amoxicillin	Cloxacillin	Amoxicillin-Clavulanic acid	Piperacillin-Tazobactam	Cefazolin	Cefoxitin	Cefuroxime	Ceftriaxone	Ceftriaxone - meningitis	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	95			36		83	98	50	95		55		54	100	100					97		76	97	88	93	
<i>Escherichia coli</i> ¹ , blood isolates only‡	25			33		90	96	50	96		100		84	100	100					96		82		100	100	
<i>Enterobacter cloacae</i> ²	33			R		R	R	R	R		R		R	97	61					84		84	41	100	100	
<i>Haemophilus influenzae</i> †	20			85						89	100			100			100				100	64				
<i>Klebsiella pneumoniae</i> ¹ †	16			R		93	100	75	93		94		93	100	100					100		93	69	93	93	
<i>Klebsiella oxytoca</i> †	24			R		100	100	38	88				100	100	100					100		100	96	100	100	
<i>Pseudomonas aeruginosa</i> †	27						84						89	89						96				88	88	

	# Isolates tested	Penicillin PO/IV	Penicillin IV - meningitis	Ampicillin/Amoxicillin	Cloxacillin	Amoxicillin-Clavulanic acid	Piperacillin-Tazobactam	Cefazolin	Cefoxitin	Cefuroxime	Ceftriaxone	Ceftriaxone - meningitis	Ceftazidime	Meropenem	Ertapenem	Clindamycin	Azithromycin	Erythromycin	Tetracycline/Doxycycline	Ciprofloxacin	Moxifloxacin	Trimethoprim-Sulfamethoxazole	Nitrofurantoin (urine only)	Gentamicin ³	Tobramycin	Vancomycin
GRAM-POSITIVE BACTERIA																										
<i>Staphylococcus aureus</i> , all																										
- methicillin-susceptible (MSSA)	115				100		100									79			98	95	95	89	99	100		100
- methicillin-resistant (MRSA)	62	R	R	R	R	R	R	R	R	R	R	R	R	R	R	63		48	100	69	69	100	100	100		100
<i>Staphylococcus epidermidis</i> †	24				R				14							38		33	100	74	75	83	100	67		100
<i>Streptococcus pneumoniae</i> †	11	82	73							82	91	82		100		80		82			100					100
<i>Enterococcus faecalis</i> , all	64			100				R	R	R	R	R	R					R	R	100	100		100	84		100

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 4.4 % 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