



Antibiotic % Susceptibility Patterns: Blood Cultures
Emergency and Community - Calgary
January - December 2019

Data derived from routine susceptibility tests performed by Alberta Precision Laboratories

	n	Penicillin (IV)	Ampicillin	Cloxacillin	Piperacillin-Tazobactam	Cefazolin	Ceftriaxone	Ceftazidime	Trimethoprim-Sulfamethoxazole	Vancomycin	Ciprofloxacin ^{b,c}	Levofloxacin	Gentamicin	Tobramycin	Ertapenem	Meropenem
<i>Enterococcus faecalis</i>	56		100			R	R	R	R	100						
<i>Staphylococcus aureus</i>	All	339		85		85				100						
	MSSA	288		100		100				100						
	MRSA	53		R		R				100						
Coagulase-negative <i>Staphylococcus</i>	146			59		59				100						
GP <i>Streptococcus anginosus</i> group	52	83					100			100						
<i>Streptococcus viridans</i> group (other than <i>S. anginosus</i>)	58	59					96			100						
Group A <i>Streptococcus</i>	86	100				100	100			100						
Group B <i>Streptococcus</i>	52	100				100	100			100						
<i>Streptococcus pneumoniae</i>	meningitis	109	96				99			100						
	non-meningitis	109	100				100			100		100				100
GN <i>Enterobacter cloacae</i> complex ^a	37		R			R			92		97		100	97	100	100
<i>Escherichia coli</i>	All	709	44		80	63	80		68		60		86	86		
	ESBL	125		R		R	R	R	48		6		55	50	100	100
<i>Klebsiella oxytoca</i>	43		R		100	21	91		93				93	93		
<i>Klebsiella pneumoniae</i> complex	139		R		98	85	91		84		88		94	94		
<i>Proteus mirabilis</i>	48		85		100	48	98		85		85		92	96		
<i>Pseudomonas aeruginosa</i>	36		R		100		R	100	R		86			100	R	97

^a These organisms usually produce inducible β-lactamase which can cause failure of 3rd generation β-lactam therapy, despite in vitro susceptibility

^b Revised (2019) CLSI Enterobacterales interpretive criteria for susceptible are being used for the first time to calculate %S; these are ≤ 0.25 µg/mL and ≥ 26 mm for ciprofloxacin. Previous CLSI interpretive criteria for susceptible were ≤ 1 µg/mL and ≥ 21 mm

^c Revised (2019) CLSI Pseudomonas aeruginosa interpretive criteria for susceptible are being used for the first time to calculate %S; these are ≤ 0.5 µg/mL and ≥ 25 mm for ciprofloxacin. Previous CLSI interpretive criteria for susceptible were ≤ 1 µg/mL and ≥ 21 mm

Note: Percent susceptible for each organism/antimicrobial combination was generated by including the first isolate of that organism recovered from a given patient during the time period analyzed.

ABBREVIATIONS: GP - Gram-positive; GN - Gram-negative; MSSA - methicillin-susceptible *Staphylococcus aureus*; MRSA - methicillin-resistant *Staphylococcus aureus*; ESBL - extended spectrum beta-lactamase; R - intrinsic resistance