

Antibiotic % Susceptibility Patterns: Urine - Females 16 - 40 years
Emergency and Community Patients
January - December 2019

Data derived from routine susceptibility tests performed by Alberta Precision Laboratories

	n	Ampicillin / Amoxicillin	Cloxacillin	Amoxicillin-Clavulanate (PO)	Piperacillin-Tazobactam	Cephalexin (urine)	Cefazolin	Ceftriaxone	Ceftazidime	Trimethoprim-Sulfamethoxazole	Vancomycin	Tetracycline ^a	Nitrofurantoin	Fosfomycin	Ciprofloxacin ^d	Gentamicin	Tobramycin	Ertapenem	Meropenem
GP <i>Enterococcus faecalis</i>	869	100				R	R	R	R	R	100	21	98		94				
<i>Staphylococcus aureus</i> ^b	91		92				92				100								
<i>Citrobacter koseri</i>	114	R		100	100	100	99	100		100			92		100	100	100		
<i>Enterobacter cloacae</i> complex ^c	67	R		R		R	R			100			10		99	100	100	100	100
<i>Escherichia coli</i>	All	8865	61	88	94	93	89	94		78			98		78	93	94		
	ESBL	509	R			R	R	R		41			94	97	13	69	63	100	100
<i>Klebsiella (Enterobacter) aerogenes</i> ^c	90	R		R		R	R			100			13		100	100	100	100	100
<i>Klebsiella oxytoca</i>	44	R		98	98	89	59	95		98			91		98	100	100		
<i>Klebsiella pneumoniae</i> complex	516	R		96	98	95	95	95		92			31		93	97	97		
<i>Proteus mirabilis</i>	219	83		99	100	99	85	100		84		R	R		90	91	95		

^a Susceptibility to doxycycline can be inferred from susceptibility to tetracycline

^b *Staphylococcus aureus* bacteriuria may be associated with blood stream or other systemic infection. Clinical correlation required.

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

^d Revised (2019) CLSI Enterobacterales interpretive criteria for susceptible are being used for the first time to calculate %S; these are $\leq 0.25 \mu\text{g/mL}$ and $\geq 26 \text{ mm}$ for ciprofloxacin. Previous CLSI interpretive criteria for susceptible were $\leq 1 \mu\text{g/mL}$ and $\geq 21 \text{ mm}$

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

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