

Antibiotic % Susceptibility Patterns: Urine - Females > 40 years **Emergency and Community Patients** January - December 2022

Data derived from routine susceptibility tests performed by Alberta Precision Laboratories

96

R R

R

100

R

R

84

95

99

100 100

93

100

R

100

LABORATORIES  Leaders in Laboratory Medicine		N	Ampicillin / Amoxicillin	Cloxacillin	Amoxicillin-Clavulanate	Piperacillin-Tazobactam	Cephalexin	Cefazolin	Cefixime	Ceftriaxone	Ceftazidime	Trimethoprim-sulfamethoxazole	Vancomycin	Tetracycline <sup>c</sup>	Doxycycline	Nitrofurantoin	Fosfomycin (PO)	Ciprofloxacin	Gentamicin	Tobramycin	Ertapenem	Meropenem
Gram-positive																						
Enterococcus faecalis		1684	100				R	R	R	R	R	R	100	24		99		93				
Enterococcus faecium		121	53				R	R	R	R	R	R	88	44		22		36				
Enterococcus species - other <sup>d</sup>		33	94				R	R	R	R	R	R	82	42		61		100				
Staphylococcus aureus <sup>a</sup>	All	110		91				91					100									
	MSSA	100		100				100					100									
Gram-negative	1																					
Citrobacter freundii complex <sup>b</sup>		213	R		R		R	R				89				96		90	95	96	100	100
Citrobacter koseri		170	R		99	100	97	97	99	99		99				88		99	100	100		
Enterobacter cloacae complex <sup>b</sup>		286	R		R		R	R				91				36		94	100	99	97	100
Escherichia coli	All	12129	65		89	92	90	87	91	92		82				98		72	93	94		
	ESBL	840	R				R	R	R	R	R	49			53	94	97	7	71	67	100	100
Klebsiella (Enterobacter) aerogenes <sup>b</sup>		156	R		R		R	R				98				21		97	99	100	100	100
Klebsiella oxytoca		298	R		91	93	86	50	98	94		94				93		95	99	98		
Klebsiella pneumoniae complex	All	1777	R		96	97	96	96	97	97		93				38		90	99	99		
	ESBL	47	R				R	R	R	R	R	24			28	20		11	61	67	100	100
Morganella morganii <sup>b</sup>		67	R		R		R	R				67				R		72	91	91	99	100
Proteus mirabilis		523	85		98	98	97	81	98	98		86		R	R	R		91	93	95		
Providencia species <sup>b,d</sup>		42	R		R		R	R				95		R	R	R		98			100	100

97

R R

R

R

Pseudomonas aeruginosa

Serratia marcescens<sup>b</sup>

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.

R

R

188

38

Abbreviations: MSSA - methicillin-susceptible Staphylococcus aureus; ESBL - extended spectrum beta-lactamase; R - intrinsic resistance

<sup>&</sup>lt;sup>a</sup> Staphylococcus aureus bacteriuria may be associated with blood stream or other systemic infection. Clinical correlation required.

<sup>&</sup>lt;sup>b</sup> These organisms usually produce β-lactamase which can cause failure of 3rd generation cephalosporin therapy, despite in vitro susceptibility

<sup>&</sup>lt;sup>c</sup> Susceptibility to doxycycline can be inferred from susceptibility to tetracycline

<sup>&</sup>lt;sup>d</sup> Combined data (January - December 2021 and January - December 2022) due to the small number of isolates in 2022