

**Antibiotic % Susceptibility Patterns: Lethbridge and area Data
January to December 2016**

(data derived from routine susceptibility tests performed by Chinook Regional Hospital)

ANTIBIOTIC SUSCEPTIBILITY PROFILE January to December 2016		Number Tested	Penicillin	Ampicillin / Amoxicillin	Amoxicillin - Clavulanic acid	Cloxacillin	Cephalexin (urine only)	Cefazolin	Cefuroxime	Ceftriaxone	Ceftazidime	Piperacillin - Tazobactam	Meropenem	Ciprofloxacin	Erythromycin	Clindamycin	Gentamicin	Tobramycin	Gentamicin Synergy +	Nitrofurantoin (urine only)	Tetracycline	TMP/SMX	Vancomycin
Escherichia coli		4546		59	83		93	88		94		96		85			93	93		97		81	
Citrobacter freundii		89		R			R	R	()	()	()			98			99	99		93		92	
Enterobacter aerogenes		43		R			R	R	()	()	()			100			100	100		14		100	
Enterobacter cloacae		178		R			R	R	()	()	()			96			100	98		38		93	
Klebsiella oxytoca		157		R	94		89	50		97		94		99			100	100		94		99	
Klebsiella pneumoniae		688		R	95		97	96		98		97		98			98	99		41		96	
Proteus mirabilis		276		74	95		95	74		95		96		89			94	93		R	R	84	
Serratia marcescens ¹		39		R			R	R	R	()	()			97			100	85		R		100	
Pseudomonas aeruginosa		267		R			R	R	R		97	95	94	89			95	99			R		
Haemophilus influenzae		88		67					93	100					R								85
Enterococcus faecalis ¹	Sterile sites only	47		100			R	R	R	R	R					R	R	R	74			R	99
Enterococcus faecium ¹	Sterile sites only	23		22			R	R	R	R	R					R	R	R	96			R	78
Enterococcus sp (NOS)		964		90			R	R	R	R	R			61 ²		R	R	R	77	94		R	99
Staphylococcus aureus (both MSSA and MRSA)		1562				81		81							69	77					98	98	100
Staphylococcus aureus MSSA	methicillin sensitive	1266				100		100							79	82					98	98	100
Staphylococcus aureus MRSA *	methicillin resistant	296				0		0							26	54					98	98	100
Staphylococcus Coag Negative		85				45									41	62					95	68	100
Streptococcus pyogenes Grp A ¹	sterile sites only	41	100												93	93							
Streptococcus agalactiae Grp B		65	100	100											55	64							
Streptococcus pneumoniae ¹	Blood & CSF (meningitis breakpoints)	59	95							100													100
	Other sites (oral PO breakpoints)	68	88							100					79	93					88	88	

R - Intrinsic resistance

() These organisms may produce inducible B-lactamases. Use of cephalosporins and B-lactam/beta lactam inhibitor combinations may result in clinical failure despite in vitro susceptibility

+ Synergy with cell wall active antibiotics predicted from susceptibility to 500 mg/L gentamicin

¹ Due to small number of annual isolates, analysis was performed using data obtained from Jan 1, 2014 to Dec 31, 2015

*17% of Staphylococcus aureus are MRSA (methicillin resistant)

² Ciprofloxacin results for Enterococcus are applicable to Urines only