



Long-term Care Formulary				A	<u>S-04</u>
SECTION	SUBJECT		PA	GE	
Antimicrobial Stewardship	Antibiogram Comparison for LTC vs. Community		1 of	2	
		Original Last Update	YY 15 17	MM 06 12	DD 26 04

LTC Antibiogram Comparison

Choice of antibiotic for empiric treatment should differ in the LTC setting, based on the varied antibiotic resistance patterns seen in the LTC setting compared to both the general community and females above age 40.

Most Current Antibiogram: January - December 2016

https://www.calgarylabservices.com/files/HealthcareProfessionals/Micro_Antibiograms/NursingHome.pdf

	Ampicillin/	Amoxicillin	aillio chol	Cloxacillin	Amoxicillin/	Clavulanate	Die/Toro	0281 (6)1	Cephalexin	(urine)	Cefazolin		Cachejago	Celtilavolle	ceftazidime		Clindamucin		Frythromycin		LXS.		Norfloxacin	(urine)	Cinrofloxacin		Nitrofurantoin	(urine)	Fosfomycin	(Urine)	Vancomicin	in Among a	nontomorphic		ajor sams conque	l ODI dymycin	Tetracycline	
	Community	Nursing Home	Community	Nursing Home	Community	Nursing Home	Community	Nursing Home	Community	Nursing Home	Community	Nursing Home	Community	Nursing Home	Community	Nursing Home	Community	Nursing Home	Community	Nursing Home	Community	Nursing Home	Community	Nursing Home	Community	Nursing Home	Community	Nursing Home	Community	Nursing Home	Community	Nursing Home	Community	Nursing Home	Community	Nursing Home	Community	Nursing Home
Enterococcus faecalis	100	100																							87	70	99	99			100	100						
Staphylococcus aureus (ALL)			85	77							85						84	83	74	74	94	97			68						100	100					96	99
•MSSA			100	100							100						86	90	81	85	95	98									100	100					96	98
•MRSA			0	0							0						74	60	32	32	88	97									100	100					93	98
Escherichia Coli (ALL)	60	50			86	77	97	95	92	80			93	83							78	69	86	57	86	57	98	95					92	85				
•ESBL							94	90													41	39	29	2	29	2	93	88	97	95			66	56				
Klebsiella oxytoca					95	92	96	95	92	85			95	92							96	95	98	98	98	98	91	90					98	92				
Klebsiella pneumoniae					96	99	96	99	98	98			98	98							94	93	98	97	98	96	43	48					98	100				
Proteus mirabilis	76	65			98	99			97	97			98	100							85	72	97	85	97	83							94	95				
Pseudomonas aeruginosa							96	99							97	99									89	95							94	93	97	99		

All susceptibilities via antibiograms from Calgary Lab Services (http://www.calgarylabservices.com/education-research/publications/microbiology-Antibiograms.aspx)

*These organisms usually produce inducible B-lactamase which cause failure of 3rd generation B-lactam therapy, despite in vitro susceptibility indicated for treatment purposes.

Example – Urinary Tract Infection

- Ciprofloxacin *may* be a good option for empiric treatment for a UTI in the community, due to the ~90% susceptibility of likely culprit organisms (see below table).
- However, for empiric treatment of a UTI in the nursing home, environment, ciprofloxacin

© 2017 Alberta Health Services. This material is provided on an "as is", "where is" basis. Alberta Health Services does not make any representation or warranty, express, implied or statutory, as to the accuracy, reliability, completeness, applicability or fitness for a particular purpose of such information. This material is not a substitute for the advice of a qualified health professional. Alberta Health Services expressly disclaims all liability for the use of these materials, and for any claims, actions, demands or suits arising from such use.

^{*}These organisms usually produce inductible B-lactamase which cause failure or 3rd generation B-lactam therapy, despite in vitro susceptibility indicated for treatment purposes.

Note: Please refer to the Calgary Lab Services website for the complete LTC antibiogram and others



CALGARY ZONE

Long-term Care Formulary				Α	S-04
SECTION	SUBJECT		PA	GE	
Antimicrobial Stewardship	Antibiogram Comparison for LTC vs. Community		2 of	2	
		Original Last Update	YY 15 17	MM 06 12	DD 26 04

has a ~45% chance of resulting in a treatment failure.

Likely causative organisms in UTI	Community Susceptibility	LTC Susceptibility
E. Coli (All)	86	57
Enterrococcus	87	70
Proteus mirabillis	89	95