



Long-term Care Formulary		AS	XX-	
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Antimicrobial Stewardship	P&T Position Statement on Antibiotic Use in Long-term Care	1 of	4	
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1. Bugs in LTC are NOT the same as Bugs in the Community

Bottom Line:			np C																								е	S	ar	ne	ì	n	th	е	Ca	alç	ја	ry
	Ampicillin/	Amoxicillin	aillio and	Cloxacillin	Amoxicillin/	Clavulanate	T, cig	03016	Cephalexin	(urine)	oferolin			certriaxone		ertazidime		Clindamycin	a ion constant	- rychromych			Norfloxacin	(urine)	ā	Cipronoxacin	Nitrofurantoin	(urine)	Fosfomycin	(Urine)		vancomycin		Sentamon		obraymycın	orilo ment	פוופלארוווע
	Community An	Nursing Home An		Nursing Home		Nursing Home Cla		Nursing Home	Community Ce	Nursing Home (ur	Community	Nursing Home		Nursing Home	Community	Nursing Home		me	Community	Nursing Home	Community	Nursing Home		Nursing Home (ur		Nursing Home	Community Nit	Nursing Home (ur	Community Fo	Nursing Home (U		ле		Nursing Home		me	Community	Nursing Home
Enterococcus faecalis		100		z	Ö	Z	Ö	Z	Ö	Z	Ö	Z	Ö	Z	Ü	Z	Ö	Z	Ö	Z	Ö	Z	Ö	Z	ت 87	70	99			z	_	100		Z	Ö	Z	Ö	Z
Staphylococcus aureus (ALL)	100	100	85	77							85						84	83	74	74	94	97			68						_	100					96	99
•MSSA			100	100							100						86	_	81	85	95	98									_	100					96	98
•MRSA			0	0							0						74	60		32	88	97									100	100					93	
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 antibiog	gram:	fron	Calg	jary l	ab S	ervic	es (h	ttp://	vvv.	calg	aryla	ser	vices	.com	/edu	catio	on-r	esea	chłp	ublic	atio	ns/m	icrob	oiolo	gy-A	ntibi	ogra	ms.a	spx)									
*These organisms usually pr	oduc	e ind	lucible	e B-la	actar	nase	whic	h cau	ise fa	ilure	of 3	d ge	nera	tion	B-la	ctam	the	rapy,	des	pite i	in vit	ro su	scep	tibili	ity in	dicat	ed f	or tr	eatn	nent	pur	oose	ś.					
Note: Please refer to the Cale	arv l	ab S	ervice	es we	bsite	for t	he co	damo	ete L	TC ar	ntibio	grar	n an	d oth	ers																							

As indicated by 2017 Calgary Lab Services data, there is significant variation in susceptibility amongst the same organisms in a nursing home setting. There is concern that overuse of currently effective antimicrobials may lead to the evolution of resistant mechanisms.

See AS-04 for in-depth discussion and references.





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2. Don't Treat Asymptomatic Bacteriuria

Bottom	In the majority of cases, asymptomatic bacteriuria should not be treated
Line:	with antibiotics.

To reduce unnecessary antibiotic treatment of ASB:

- 1. UTI must be diagnosed clinically by patient symptoms and signs
- 2. Send urine for culture only AFTER a clinical diagnosis of UTI is made
- 3. Do NOT order "ROUTINE" or screening urinalysis or urine culture in patients without symptoms/signs of UTI

See <u>Appropriateness of Care: Asymptomatic Bacteriuria</u> and <u>Antimicrobial Stewardship Backgrounder "Understanding Asymptomatic Bacteriuria"</u> for in-depth discussion and references.

3. Don't Use UTI Prophylaxis

Bottom	There is no evidence-based support for antibiotic prophylaxis for urinary
Line:	tract infections in the geriatric population

While there is *some* evidence for antibiotic prophylaxis in recurrent urinary tract infection, such recommendations are based off of evidence that includes younger, less medically complex clients and excludes those with significant and common co-morbidities seen in the LTC population (e.g. impaired renal function).

As well, there are concerns that long-term use of antibiotics will artificially select for resistance organisms to cause infections in the future.

See AS-02 for in-depth discussion and references.





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4. Bacterial Conjunctivitis is just Short Term

Bottom	For treatment of bacterial conjunctivitis, ophthalmic antibiotic products
Line:	should be used for a maximum of 7 days

True bacterial conjunctivitis should typically be treated for 5-7 days, with a therapeutic response seen in 1-2 days

Bacterial infection marked by thick, purulent discharge that appears spontaneously and continuously throughout the day. Viral or non-infectious conjunctivitis is typically more watery, with sensation of burning/itching/grittiness.

See AS-03 for in-depth discussion and references.

5. Review Early/Prescribe Surely

Bottom The clinical pharmacist and medical team should optimally be reviewing each antibiotic order by Day 3 for the following:

- Reassess initial diagnosis
- Review all microbiology results (C&S)
- Tailor antimicrobials:
 - Redirect empiric therapy
- Switch IV/IM to oral (if applicable)

See <u>Antimicrobial Stewardship Backgrounder "The "Day 3 Bundle": Tailoring Empriric Antimicrobial Therapy for Inpatients on Day 3"</u> for in-depth discussion (modify for LTC clients).





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6. Don't use IV or IM when you can use oral

Bottom	IV to PO conversion is a simple but important antimicrobial stewardship
Line:	strategy

Moving from IM/IV to oral antibiotics has many advantages:

- · Less invasive care for the client
- Reduced risk of line-related infection and adverse events
- No IV related mobility restrictions for patients, nor pain associated with IM injections
- Decreased costs (\downarrow medication preparation and administration time, \downarrow IV supplies, \downarrow drug costs

Switch (or don't start!) therapy to PO when the oral form has rapid absorption and high oral bioavailability

See <u>Antimicrobial Stewardship Backgrounder "Intravenous to Oral Antimicrobial Therapy Conversion"</u> for in-depth discussion and references.