

**References for Dr. Mylotte's Webinar
Infection Control in Long-Term Care: An Overview
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Infection Control in LTC

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Infection Surveillance Definition Worksheet

<http://www.health.state.mn.us/divs/idepc/dtopics/antibioticresistance/asp/ltc/apxk.pdf>

Norovirus Infections in Long-Term Care Facilities

S Rajagopalan, TT Yoshikawa J Am Geriatric Soc 2016;64:1097-1103
DOI: 10.1111/jgs.14085

Clinical Practice Guidelines for Clostridium difficile Infection in Adults: 2010 Update by the Society for Healthcare Epidemiology of America (SHEA) and the Infectious Diseases Society of America (IDSA) Infect Control Hosp Epidemiol 31, No. 5 (May 2010):431-455 <http://www.jstor.org/stable/10.1086/651706>

APIC Guide to Prevention of C. difficile infection

http://apic.org/Resource/_EliminationGuideForm/59397fc6-3f90-43d1-9325-e8be75d86888/File/2013CDiffFinal.pdf

Clostridium difficile in the Long-Term Care Facility: Prevention and Management

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A targeted infection prevention intervention in nursing home residents with indwelling devices: A randomized clinical trial. Mody et al. JAMA Intern Med 2015; 175:714-723.

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Antibiotic Stewardship in LTC

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Variability in antibiotic use across nursing homes and the risk of antibiotic-related adverse outcomes for individual residents
Daneman N, Bronskill SE, Gruneir A, et al. . JAMA Intern Med 2015; 175:1331-1339.

Patterns of antimicrobial use for respiratory tract infections in older residents of long-term care facilities.
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Journal of the American Geriatrics Society. 59(6):1093-8, 2011 Jun.
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CDC core elements of antibiotic stewardship for LTC

<http://www.cdc.gov/longtermcare/prevention/antibiotic-stewardship.html>

Checklist for core elements of antibiotic stewardship in nursing homes

<https://www.cdc.gov/longtermcare/pdfs/core-elements-antibiotic-stewardship-checklist.pdf>

Optimizing Antibiotic Stewardship in Nursing Homes: A Narrative Review and Recommendations for Improvement. Crnich et al. Drugs Aging (2015) 32:699–716 [http://doi 10.1007/s40266-015-0292-7]

Improving antibiotic stewardship by involving nurses. Gillespie E, Rodriguez A, Wright LL. Am J Infect Control 2013; 41:365–7. [DOI: [10.1016/j.ajic.2012.04.336](https://doi.org/10.1016/j.ajic.2012.04.336)]

Ten Clinical Situations in Long-Term Care for Which Antibiotics are Often Prescribed but Rarely Necessary Khandelwal et al

<http://www.annalsoflongtermcare.com/article/ten-clinical-situations-long-term-care-which-antibiotics-are-often-prescribed>

Improving the Management of Urinary Tract Infections in Nursing Homes: It's Time to Stop the Tail From Wagging the Dog. Drinka PJ, Crnich

CJ. <http://www.annalsoflongtermcare.com/article/improving-management-urinary-tract-infections-nursing-homes-it%E2%80%99s-time-stop-tail-wagging-dog>

Urinary tract infection in long-term care facilities. LE Nicolle. *Healthcare Infection*, 2014, **19**, 4–12 <http://dx.doi.org/10.1071/HI13043>

Antimicrobial stewardship in long-term care: Metrics and risk adjustment.

JM Mylotte. JAMDA 2016 [http://dx.doi.org/10.1016/j.jamda.2016.04.014]

Effects of excessive antibiotic use in nursing homes.

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WEBSITES with useful tools for Antibiotic Stewardship in LTC:

Minnesota Antimicrobial Stewardship Program Toolkit for Long-term Care Facilities

<http://www.health.state.mn.us/divs/idepc/dtopics/antibioticresistance/asp/ltc/>

Nursing Home Antimicrobial Stewardship Modules Agency for Healthcare Research and Quality, Rockville, MD. <http://www.ahrq.gov/professionals/quality-patient-safety/patient-safety-resources/resources/nh-aspguide/index.html>

Action Steps and Strategies for Implementing Antimicrobial Stewardship in Long-term Care Facilities [comes from Minnesota website above]

<http://www.health.state.mn.us/divs/idepc/dtopics/antibioticresistance/asp/ltc/apxb.pdf>

Reviews of published antibiotic stewardship programs for LTC:

Fleming A, Browne J, Byrne S. The effect of interventions to reduce potentially inappropriate antibiotic prescribing in long-term care facilities: A systematic review of randomized controlled trials. *Drugs Aging* 2013; 30:401-408.

Nicolle LE. Antimicrobial stewardship in long term care facilities: What is effective? *Antimicrobial Resistance and Infection Control* 2014; 3:6.

Dyar OJ, Pagani L, Pulcini C. Strategies and challenges of antimicrobial stewardship in long-term care facilities. *Clin Microbiol Infect* 2015; 21:10-19.

Rhee SM, Stone ND. Antimicrobial stewardship in long term care facilities. *Infect Dis Clin N Am* 2014; 28:237-246.

Crnich CJ, Jump R, Trautner B, Sloane PD, Mody L. Optimizing antibiotic stewardship in nursing homes: A narrative review and recommendations for improvement. *Drugs Aging* 2015;32: 699-716.

Morrill HJ, Caffrey AR, Jump RLP, Dosa D, LaPlante KL. Antimicrobial stewardship in long-term care facilities: A call to action. *J Am Med Dir Assoc* 2016;dx.doi.org/10.1016/j.jamda.2015.11.013.

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Short-course antibiotic therapy:

Antibiotic duration for treating uncomplicated, symptomatic lower urinary tract infections in elderly women. Lutters M, Vogt-Ferrier NB. Cochrane Database Syst Rev. 2008;(3):CD001535.

Comparison of short-course (5 days) and standard (10 days) treatment for uncomplicated cellulitis. Hepburn MJ, Dooley DP, Skidmore PJ, Ellis MW, Starnes WF, Hasewinkle WC.. Arch Intern Med. 2004;164(15):1669-1674.

Effectiveness of discontinuing antibiotic treatment after three days versus eight days in mild to moderate severe community-acquired pneumonia: randomised, double blind study. El Moussaoui R, de Borgie CA, van den Broek P, et al. BMJ.2006;332(7554):1355

Communication Tools

INTERACT <http://interact2.net/index.aspx>

Extensive tools for communicating change of condition or information for hospital transfer—free to download.

Agency for Healthcare Quality and Research

See: <https://www.ahrq.gov/nhguide/toolkits.html> for full information on all toolkits

Suspected UTI toolkit. To be used to collect resident data on suspected UTI prior to calling provider.

<https://www.ahrq.gov/nhguide/toolkits/determine-whether-to-treat/toolkit1-suspected-uti-sbar.html>

Minimum criteria for infections toolkit. Toolkits for suspected UTI, respiratory and skin/soft tissue infections. Toolkits are meant to help prescribing clinicians (physicians, nurse practitioners, and physician assistants) determine when antibiotics are truly needed.

<https://www.ahrq.gov/nhguide/toolkits/determine-whether-to-treat/toolkit3-minimum-criteria.html>

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Urinary Catheter Use in Long-Term Care

Guideline for prevention of catheter-associated UTI [published in 2009] and states criteria for appropriate use of urinary catheters.

https://www.cdc.gov/hicpac/cauti/002_cauti_sumorecom.html#table2

Gurwitz et al. Use of Indwelling Urinary Catheters in Nursing Homes: Implications for Quality Improvement Efforts. J Am Geriatr Soc 2016;64:2204-2209
DOI: 10.1111/jgs.14464

Rogers et al. Use of Urinary Collection Devices in Skilled Nursing Facilities in Five States. J Am Geriatr Soc 2008;56:854-861.
DOI: 10.1111/j.1532-5415.2008.01675.x

Use of Cranberry Juice/Tabs to Prevent UTI in NH residents

Juthani-Mehta et al. Effect of Cranberry Capsules on Bacteriuria Plus Pyuria Among Older Women in Nursing Homes: A Randomized Clinical Trial. JAMA 2016; 316 (18):1879-1887. doi:10.1001/jama.2016.16141 [Among older women residing in nursing homes, administration of cranberry capsules vs placebo resulted in no significant difference in presence of bacteriuria plus pyuria over 1 year]

LE Nicolle. Cranberry for Prevention of Urinary Tract Infection? Time to Move On. JAMA 2016;316 (18):1873-1874. doi:10.1001/jama.2016.16140 [Editorial comment of the Juthani-Mehta study by the leading expert on UTI in LTC residents]