Long Term Care Facility

Infection Prevention and Control Resources, including focus on Clostridium Difficile Prevention and Control

Table of Contents

Infection Prevention and Control Program Resource List
Version date: 10/31/2017

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Note to user: the links below are used optimally with Microsoft Internet Explorer.

Resources	Description	Sources
Antibiotic Stewardship, *Clostridium difficile* **Infection (CDI) and Multidrug-Resistant Organisms (MDROs)**	CDC Core Elements of Antibiotic Stewardship for Nursing Homes	https://www.cdc.gov/longtermcare/prevention/antibiotic-stewardship.html
	CDC Implementation Resources for Antibiotic Stewardship	http://www.cdc.gov/getsmart/healthcare/implementation.html
	AHRQ Nursing Home Antimicrobial Stewardship Guide, which includes toolkits to: - Implement, monitor and sustain antimicrobial stewardship program - Determine whether it is necessary to treat a potential infection with antibiotics - Help prescribing clinicians choose the right antibiotic - Educate and engage residents and family members	https://www.ahrq.gov/nhguide/index.html
	AHRQ: Toolkit for How to Build a Nursing Home Antibiogram	https://www.ahrq.gov/nhguide/toolkits/help-clinicians-choose-the-right-antibiotic/toolkit2-concise-antibiogram-toolkit.html
	California Dept. of Health ASP in Nursing Homes	https://www.cdph.ca.gov/Programs/CHCQ/HAI/Pages/CA_Antimicrobial StewardshipProgramInitiative.aspx
	2006 Management of Multi-Drug Resistant Organisms in Healthcare Settings	http://www.cdc.gov/hicpac/pdf/guidelines/MDROGuideline2006.pdf
	2007 Guidelines for Isolation Precautions: Preventing Transmission of Infectious Agents in Healthcare Settings	http://www.cdc.gov/hicpac/pdf/isolation/Isolation2007.pdf

Resources	Description	Sources
	2015 Update Toolkit – Facility Guidance for Control of Carbapenem-resistant *Enterobacteriaceae* (CRE)	https://www.cdc.gov/hai/organisms/cre/cre-toolkit/index.html
	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)	https://www.idsociety.org/uploadedFiles/IDSA/Guidelines-Patient_Care/PDF_Library/cdiff2010a.pdf
	SHEA-IDSA Strategies to Prevention *Clostridium Difficile* Infections in Acute Care Hospitals: 2014 Update	http://www.jstor.org/stable/pdf/10.1086/676023.pdf
	National NH Quality Care Collaborative: *C. difficile* and Antibiotic Stewardship nursing home training resources	http://qioprogram.org/nursing-home-training-sessions
	National Nursing Home Quality Improvement Campaign, NNHQIC (formerly Advancing Excellence) *C. Difficile* and Antibiotic Stewardship resources	https://www.nhqualitycampaign.org/cdifficileAntibioticStewardship.aspx
	NNHQIC *C. Difficile* Identification and Assessment Checklist	https://www.nhqualitycampaign.org/files/EarlyID_Assessment.pdf
Catheter-Associated Urinary Tract Infection (CAUTI) Catheter-Associated Urinary Tract Infection (CAUTI) – cont.	CDC Catheter-Associated Urinary Tract Infection (CAUTI) Information	https://www.cdc.gov/hai/ca_uti/uti.html
	2009 Guideline for Prevention of Catheter-associated Urinary Tract Infections	https://www.cdc.gov/hicpac/pdf/CAUTI/CAUTIguideline2009final.pdf
	AHRQ Toolkit To Reduce CAUTI and Other HAIs in Long-Term Care Facilities	https://www.ahrq.gov/professionals/quality-patient-safety/quality-resources/tools/cauti-ltc/index.html
	2014 APIC Guide to Preventing Catheter-Associated Urinary Tract Infections	http://apic.org/Resource_/EliminationGuideForm/0ff6ae59-0a3a-4640-97b5-eee38b8bed5b/File/CAUTI_06.pdf
	Catheter-Associated Urinary Tract Infection Prevention ppt. California Dept. of Health	https://www.cdph.ca.gov/Programs/CHCQ/HAI/Pages/MonitoringAdherenceToHCPracticesThatPreventInfection.aspx
	American Nurses Association CAUTI Prevention Toolkit	http://nursingworld.org/CAUTI-Tool

Resources	Description	Sources
	SHEA/IDSA Practice Recommendations: Strategies to Prevent Catheter-Associated Urinary Tract Infections in Acute Care Hospitals: 2014 Update	http://www.jstor.org/stable/10.1086/675718 http://www.icpsne.org/SHEA%202014%20Updated%20CAUTI%20Prevention%20Guidelines%20(1).pdf
Central Venous Catheter Appropriate Use, Insertion and Maintenance	CDC Checklist for Prevention of Central Line-Associated Blood Stream Infections (CLABSI)	https://www.cdc.gov/hai/bsi/bsi.html
	2011 Guidelines for Prevention of Intravascular Catheter-related infections	https://www.cdc.gov/infectioncontrol/guidelines/bsi/index.html
	AHRQ Tools for Reducing CLABSIs	https://www.ahrq.gov/professionals/education/curriculum-tools/clabsitools/index.html
	SHEA/IDSA Practice Recommendation: Strategies to Prevent Central Line–Associated Bloodstream Infections in Acute Care Hospitals: 2014 Update	http://www.jstor.org/stable/10.1086/676533
Construction Infection Prevention	Infection Control Risk Assessment Matrix of Precautions for Construction & Renovation	http://www.premiersafetyinstitute.org/wp-content/uploads/ICRA-MatrixColorRevised-091109.pdf
Disinfection and Sterilization (General)	2008 Guideline for Disinfection and Sterilization in Healthcare Facilities	https://www.cdc.gov/hai/pdfs/disinfection_nov_2008.pdf
	Single Use Devices	https://www.cdc.gov/infectioncontrol/guidelines/disinfection/reuse-of-devices.html http://www.ast.org/uploadedFiles/Main_Site/Content/About_Us/Guideline_Single-Use_Devices.pdf
	CDC Infection Control – Frequently Asked Questions – Sterilization – Packaging and Storage	https://www.cdc.gov/oralhealth/infectioncontrol/faq/sterilization_cleaning.htm
Environmental Cleaning and Disinfection	2003 CDC Guidelines for Environmental Infection Control in Health Care Facilities	https://www.cdc.gov/mmwr/preview/mmwrhtml/rr5210a1.htm http://www.cdc.gov/hicpac/pdf/guidelines/eic_in_HCF_03.pdf https://www.cdc.gov/hai/prevent/tap/resources.html

Resources	Description	Sources
	M.M. Quinn et al. / *American Journal of Infection Control* 43 (2015) 424-34. Cleaning and Disinfecting Environmental Surfaces in Health Care: Toward an Integrated Framework for Infection and Occupational Illness Prevention	http://www.ajicjournal.org/article/S0196-6553%2815%2900075-9/pdf
	CDC Environmental Checklist for Monitoring Terminal Cleaning	http://www.cdc.gov/HAI/toolkits/Environmental-Cleaning-Checklist-10-6-2010.pdf
	CDC Options for Evaluating Environmental Cleaning	https://www.cdc.gov/hai/toolkits/evaluating-environmental-cleaning.html
	NNHQIC – Appropriate Cleaning/Disinfection of Equipment and the Environment Checklist	https://www.nhqualitycampaign.org/files/EnvironmentalCleaning_Assessment.pdf
	EPA listing of disinfectant products with sporicidal activity against C. difficile	https://www.epa.gov/pesticide-registration/list-k-epas-registered-antimicrobial-products-effective-against-clostridium
	CDC Norovirus Prevention Toolkit	https://www.cdc.gov/HAI/organisms/norovirus.html http://public.health.oregon.gov/DiseasesConditions/CommunicableDisease/Outbreaks/Documents/cleanup.pdf
	CDC Infection Prevention during Blood Glucose Monitoring and Insulin Administration	https://www.cdc.gov/injectionsafety/blood-glucose-monitoring.html
	Selected EPA-registered Disinfectants	https://www.epa.gov/pesticide-registration/selected-epa-registered-disinfectants
	FDA Information for Healthcare Professionals: Risk of Transmission of Blood-borne Pathogens from Shared Use of Insulin Pens	https://www.fda.gov/Drugs/DrugSafety/PostmarketDrugSafetyInformationforPatientsandProviders/DrugSafetyInformationforHeathcareProfessionals/ucm133352.htm
	Infection Prevention during Blood Glucose Monitoring and Insulin Administration	https://www.cdc.gov/injectionsafety/blood-glucose-monitoring.html
	Frequently Asked Questions (FAQs) regarding Assisted Blood Glucose Monitoring and Insulin Administration	http://www.cdc.gov/injectionsafety/providers/blood-glucose-monitoring_faqs.html http://www.ascquality.org/Library/pointofcaredevicestoolkit/ASCP%20Summary%20of%20Glucometer%20Cleaning%20Guidelines.pdf

Resources	Description	Sources
	2008 CDC Guideline for Disinfection and Sterilization in Healthcare Facilities	http://www.cdc.gov/hicpac/pdf/guidelines/Disinfection_Nov_2008.pdf
	FDA: Reprocessing of Reusable Medical Devices	https://www.fda.gov/MedicalDevices/ProductsandMedicalProcedures/ReprocessingofReusableMedicalDevices/default.htm
General LTC Infection Prevention Program Resources	CDC Infection Prevention Resources for Long-Term Care	http://www.cdc.gov/longtermcare
	High reliability Principles of Infection prevention in LTC	https://www.jointcommission.org/hripcltc.aspx
Hand Hygiene	2002 CDC Hand Hygiene in Healthcare Settings	https://www.cdc.gov/handhygiene/index.html
	2009 WHO Guidelines on Hand Hygiene in Health Care	http://www.who.int/gpsc/5may/tools/9789241597906/en/
	APIC Hand Hygiene page	http://www.apic.org/Resources/Topic-specific-infection-prevention/hand-hygiene
	The Joint Commission – Measuring Hand Hygiene Adherence: Overcoming the Challenges	http://www.jointcommission.org/assets/1/18/hh_monograph.pdf https://www.jointcommission.org/topics/hai_hand_hygiene.aspx
	Hand hygiene monitoring (iScrub)	https://itunes.apple.com/us/app/iscrub-lite/id329764570?mt=8
	NNHQIC– Hand Hygiene Checklist	https://www.nhqualitycampaign.org/files/HandHygiene_Assessment.pdf
Healthcare Personnel Safety	CDC Vaccine Information for Adults: Recommended Vaccines for Healthcare Workers	http://www.cdc.gov/vaccines/adults/rec-vac/hcw.html
	Influenza: A Toolkit for Long-Term Care Employers – Increasing Influenza Vaccination among Health Care Personnel in Long-Term Care Settings	https://www.cdc.gov/flu/toolkit/long-term-care/
	Occupational Safety and Health Administration (OSHA) Bloodborne Pathogens and Needlestick Prevention Standard	https://www.osha.gov/SLTC/bloodbornepathogens/gen_guidance.html
	Hospital Respiratory Protection Program Toolkit	https://www.osha.gov/Publications/OSHA3767.pdf

Resources	Description	Sources
	Updated USPHS Guidelines for the Management of Occupational Exposures to HIV and recommendations for post-exposure prophylaxis, 2013	https://stacks.cdc.gov/view/cdc/20711
Infection Control Program Risk Assessment	Using the Risk Assessment to Set Goals and Develop the Infection Prevention and Control Plan. The Joint Commission,2010	http://www.jcrinc.com/using-the-risk-assessment-to-set-goals-and-develop-the-infection-prevention-and-control-plan/
	Risk Assessment Tool	https://spice.unc.edu/infection-control-tools-policy-risk-assessment-competency-and-more/
	Larson E, Aiello A. Systematic risk assessment methods for the infection control professional. Am J Infect Control 2006; 34:323-6	https://deepblue.lib.umich.edu/bitstream/handle/2027.42/55416/Larson%20E,%20Systematic%20risk%20assessment%20methods.pdf?sequence=1
Infection Surveillance (Long-Term Care)	Tracking Infections in Long Term Care	https://www.cdc.gov/nhsn/ltc/index.html http://www.fadona.org/2017/116%20Surveillance%20Definitions%20of%20Infections%20in%20Long-Term%20Care%20Facilities.pdf Tips for Surveillance: http://www.health.state.mn.us/divs/idepc/dtopics/antibioticresistance/asp/ltc/apxj.pdf
Interfacility Transfer Form	CDC Example 1	https://www.cdc.gov/hai/pdfs/toolkits/InfectionControlTransferFormExample1.pdf
	CDC Example 2	https://www.cdc.gov/hai/pdfs/toolkits/InfectionControlTransferFormExample2.pdf
	AHRQ Medical Care Referral Form	https://www.ahrq.gov/sites/default/files/wysiwyg/nhguide/4_TK2_T1-Medical_Care_Referral_Form.pdf
Narcotic Diversion	2016 Hospital ASHP Guidelines on Preventing Diversion of Controlled Substances	http://ajhp.org/content/early/2016/12/22/ajhp160919
Personal Protective Equipment (PPE) and Transmission based precautions	2007 CDC Guidelines for Isolation Precautions: Preventing Transmission of Infectious Agents in Healthcare Settings	https://www.cdc.gov/infectioncontrol/guidelines/isolation/index.html
	CDC Guidance for the Selection and Use of Personal Protective Equipment in Healthcare Settings	https://www.cdc.gov/HAI/prevent/ppe.html

Resources	Description	Sources
	CDC Sequence for Donning and Removing Personal Protective Equipment	http://www.cdc.gov/hai/pdfs/ppe/PPE-Sequence.pdf
Personal Protective Equipment (PPE) and Transmission based precautions – cont.	Washington State transmission-based precautions signage	http://www.wsha.org/quality-safety/projects/standardization/
Pneumonia Prevention	2003 CDC Guidelines for Preventing Healthcare-associated Pneumonia	http://www.cdc.gov/hicpac/pdf/guidelines/CDCpneumo_guidelines.pdf
	Bronchoscopy Suite Infection Prevention	http://www.atsjournals.org/doi/full/10.1164/rccm.200208-797CC#readcube-epdf
	APIC Resource guides to prevention of Pneumonia	http://www.apic.org/Resource_/TinyMceFileManager/Periodical_Images/Preventing_HAP_Fall2015.pdf http://www.apic.org/Resource_/EliminationGuideForm/18e326ad-b484-471c-9c35-6822a53ee4a2/File/VAP_09.pdf
Resources to Assist with Evaluation and Response to Breaches in Infection Control	Patel PR, Srinivasan A, Perz JF. Developing a broader approach to management of infection control breaches in health care settings. Am J Infect Control. 2008 Dec; 36(10); 685-90	http://www.ajicjournal.org/article/S0196-6553(08)00683-4/abstract
	Steps for Evaluating an IC Breach	http://www.cdc.gov/hai/outbreaks/steps_for_eval_IC_breach.html
	Patient Notification Toolkit	http://www.cdc.gov/injectionsafety/pntoolkit/index.html
Respiratory Hygiene/Cough Etiquette	2007 CDC Guidelines for Isolation Precautions: Preventing Transmission of Infectious Agents in Healthcare Settings	https://www.cdc.gov/infectioncontrol/guidelines/isolation/index.html
	Recommendations for Preventing the Spread of Influenza	http://www.cdc.gov/flu/professionals/infectioncontrol/
	CDC Interim Guidance for Influenza Outbreak Management in LTCFs	https://www.cdc.gov/flu/professionals/infectioncontrol/ltc-facility-guidance.htm
Safe Injection Practices	CDC training video and related Safe Injection Practices Campaign materials	http://oneandonlycampaign.org
	2007 CDC Guidelines for Isolation Precautions: Preventing Transmission of Infectious Agents in Healthcare Settings	https://www.cdc.gov/infectioncontrol/guidelines/isolation/index.html

Resources	Description	Sources
	APIC Position paper 2016: Safe Injection, Infusion, and medication vial practices	http://www.apic.org/Resource_/TinyMceFileManager/Position_Statements/2016APICSIPPositionPaper.pdf
Textiles	Hospital Hygienically Clean Reusable Textiles	2011 HLAC Standards http://sourceamericalaundry.mindtouch.us/@api/deki/files/572/2011_HLAC_Standards_-_Released_June__15_2011.pdf 2015 HLAC Update http://www.trsa.org/sites/default/files/uploads/documents/hygienic_trsa_standard.pdf
Water Management /Legionella prevention	CDC resources for Developing a Water Management Program to Reduce *Legionella* Growth & Spread in Buildings	https://www.cdc.gov/legionella/clinicians.html https://www.cdc.gov/legionella/maintenance/wmp-toolkit.html https://www.cdc.gov/legionella/downloads/toolkit.pdf
State IP Resources for LTCF	Minnesota IPC resources Long-term care	http://www.health.state.mn.us/divs/idepc/dtopics/infectioncontrol/guidelines.html#ltc
	University of Rochester Medical Center CDI Prevention in NHs	http://www.rochesterpatientsafety.com/index.cfm?Page=For%20Nursing%20Homes
	NC Statewide Program for Infection Control, Long-term Care	https://spice.unc.edu/ltc/
	Oregon HAI Tool-kit for LTC	http://public.health.oregon.gov/DiseasesConditions/CommunicableDisease/HAI/Pages/Long-Term-Care-Facilities.aspx
	Wisconsin HAI resources for LTCF	https://www.dhs.wisconsin.gov/regulations/nh/hai-resources.htm

QIN NCC and CMS Training Session on Communication, Antibiotic Stewardship, and C Difficile Prevention

The Quality Innovation Network National Coordinating Center (QIN NCC), under contract with the Centers for Medicare & Medicaid Services (CMS), developed six nursing home training sessions to enhance understanding of important concepts and practices that promote team communication, antibiotic stewardship, and C. *difficile* prevention. You may access the sessions on the QIO Program website, via this link:

http://qioprogram.org/nursing-home-training-sessions

QIN-QIOs are utilizing these training sessions and resources to support nursing homes with tracking *C. difficile* infections (CDI), implementing antibiotic stewardship, and effectively preventing and managing *C. difficile* infections.

Currently, QIN-QIOs are working with nursing homes to report CDI data to the NHSN database, so the majority of their focus is on tools and resources to support training and reporting to NHSN.

Other tools that come to mind include:

- The National Nursing Home Quality Improvement Campaign has developed a CDI infections tracking tool available here: https://www.nhqualitycampaign.org/files/tools/InfectionsTrackingTool_v2.1_11-22-16.xls

- The QIN NCC developed a CDI bundle as an attachment to the National Nursing Home Quality Care Collaborative Change Package, available here: http://qioprogram.org/system/files_force/resources/documents/C2_Change_Package_20170511_508.pdf (the CDI bundle is Attachment 5)