

About the Alabama Nursing Home and Long-Term Care Facility Strike Team (LTC Strike Team)

The goal of the LTC Strike Team is to provide nursing homes and long-term care facilities in Alabama with up-to-date guidance and technical assistance for the prevention and surveillance of infectious disease outbreaks including COVID-19.

- Established in Spring 2022 through funding from the Alabama Department of Public Health (ADPH) Bureau of Communicable Disease Infectious Diseases & Outbreaks Division via the CDC's Epidemiology and Laboratory Cooperative Agreement (ELC CoAg).
- The ADPH Bureau of Communicable Disease Infectious Diseases & Outbreaks Division is completely separate from Bureau of Health Provider Standards Long-Term Care Division
- Intent of the LTC Strike Team is to be a resource for all nursing homes and long-term care facilities in the state of Alabama.
- Funded until 6/30/2026





SCHOOL OF PUBLIC HEALTH

LIGHTHE UNIVERSITY OF ALABAMA AT BIRMINGHAM
2024 INFECTION PREVENTION BOOTCAMP FOR NURSING HOMES AND LONG-TERM CARE FACILITIES



Meet the UAB LTC Strike Team

Who We Are

Infection Prevention Specialist, Medical Director, and Support Staff located across the State of Alabama; all employees of UAB.

Who We Serve

We serve the following facilities across the 8 Public Health Districts in Alabama:

- Assisted Living Facilities
- Specialty Care Assisted Living Facilities
- Skilled Nursing Facilities
- Long-Term Acute Care Hospitals
- Rehabilitation Centers
- End State Renal Disease Treatment Centers

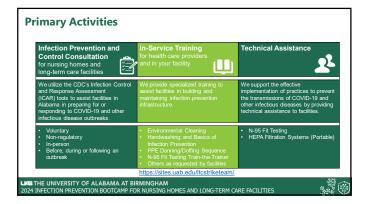
Transica Hines Additions April Davis

Jefferson County is shared between Tameka Hines and Becky McKinney

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ADPH/LTC Strike Team Partnership ADPH's Bureau of Communicable Disease - Infectious Diseases & Outbreaks Division Diseases & Outbreaks Division Disease surveillance/reporting Infectious disease outbreak investigations Work with facilities to implement plans to reduce the occurrence of infectious diseases Provide technical expertise, consultation, and assistance (may ak LTC Strike Team IP) Specialist to offer outbreak ICAR) Education Primary POC: Your District Investigator https://www.alabamapublicheatth.gov/infectiousdiseases/investigators.htm Primary POC: Infection Prevention Specialist who serve your county https://sites.uab.edu/itcstriketeam/about/leaders hip-and-staffing/

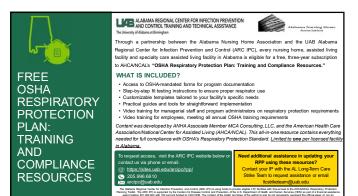
Free HEPA Air Purifiers Available

- Available for resident and common rooms within your facility
- Continuous use, portable units
- · Hospital-grade filters
- · Lifetime warranty





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2024 INFECTION PREVENTION BOOTCAMP FOR NURSING HOMES AND LONG-TERM CARE FACILITIES



Mini-Regional Infection Prevention Bootcamps for LTC Facilities

Coming to a county near you!

- · October 16, 2024 in Oxford
- · October 24, 2024 in Dothan
- November 5, 2024 in Shelby/Jefferson County



Use the QR Code to view more information about these bootcamps and to register!

https://sites.uab.edu/ltcstriketeam/upcoming-regional-bootcamps/



Learn More About the Alabama Nursing Home and Long-Term Care Facility Strike Team REQUEST A FREE IP CONSULTATION, TRAINING OR TECHNICAL ASSISTANCE ON OUR WEBSITE OR EMAIL US LICANTINE UNIVERSITY OF ALABAMA AT BIRMINGHAM 2024 INFECTION PREVENTION BOOTCAMP FOR NURSING HOMES AND LONG-TERM CARE FACILITIES	
About the Alabama Regional Center for Infection Prevention and Control Training and Technical Assistance (ARC IPC) • The ELC CoAg tasked ADPH with the creation of a regional center for infection prevention and control consultation and support services in Alabama • Purpose of this regional center: • Enhance capacity for infection control and prevention • Build infection prevention and control and outbreak response expertise	
Learn More About the Alabama Regional Center for Infection Prevention and Control Training and Technical Assistance	
WEBSITE https://uab.edu/arcipc https://uab.edu/arcipc	

Thank You to Our Co-Sponsors



Learn more: https://sites.uab.edu/dsc/

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2024 INFECTION PREVENTION BOOTCAMP FOR NURSING HOMES AND LONG-TERM CARE FACILITIES



Housekeeping

- Please make sure you signed in!
- CEs
- Training Evaluation
- Certificates of Participation
- Questions
- Restrooms

CEUs approved for this bootcamp:

Nursing: AL Statewide AHEC Program is an approved provider of continuing hours for nurses by the AL Board of Nursing (Provider ABNP1584 Expiration Date 6/14/2028) and has awarded this program 3.3 contact hours.

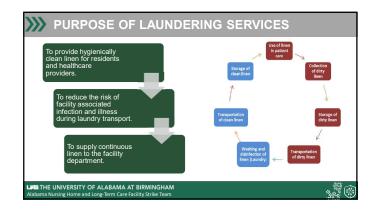
Nursing Home Administrator: The Board of Examiners of Nursing Home Administrators has reviewed and approved the seminar entitled 'Mini Infection Prevention Bootcamp for West Central Alabama LTC Facilities in Tuscaloosa' for 2.5 hours of continuing education credit for licensed nursing home administrators in the State of Alabama.

2024 INFECTION PREVENTION BOOTCAMP FOR NURSING HOMES AND LONG-TERM CARE FACILITIE





OBJECTIVES	
OBJECTIVES Identify steps to minimize the spread of infections during linen transport. Describe how improper personnel handling, laundering, and storage of solled linen can pose a risk of exposure to infectious materials. LIMB THE UNIVERSITY OF ALABAMA AT BIRMINGHAM. Alabama Nursing Home and Long-Term Care Facility Strike Team	
HEALTHCARE LAUNDRY	







Centers for Medicare & Medicaid Services (CMS) ASP Regulations in Long-Term Care Facilities



- 42 CFR § 483.80 (e) states, "personnel must handle, store, process, and transport linens so as to prevent the spread of infection."
 42 CFR § 483.10 (i)(3) states that facilities must
- 42 CFR § 483.10 (i)(3) states that facilities must provide, "clean bed and bath linens that are in good condition."
- 42 CFR § 483.470 (g)(3) The facility must, "provide adequate clean linen and dirty linen storage areas."

Facilities must have structures and processes that provide oversight of contracted services.

MINIMIZE TRANSMISSION OF INFECTION

- Disease transmission is attributed to healthcare laundry that involves contaminated fabrics that were handled inappropriately (i.e., the shaking of soiled linens).
- Bacteria (Salmonella spp., Bacillus cereus), viruses (hepatitis B virus [HBV]), fungi (Microsporum canis), and ectoparasites (scabies) presumably have been transmitted from contaminated textiles and fabrics to workers via direct contact or aerosols of contaminated lint generated from sorting and handling contaminated textilize.



When heavily contaminated, soiled linen can contain bacterial loads of 1,000,000 - 100,000,000 CFU/100 cm² of fabri

MINIMIZE TRANSMISSION OF INFECTION



- Contaminated laundry can be rendered hygienically clean through a combination of soil removal and pathogen inactivation.
- Hygienically clean laundry carries a negligible risk to HCPs and residents, provided that the linen is maintained in a manner to prevention contamination.

Alabama Nursing Home and Long-Term Care Facility Strike Team







THE LAUNDRY PROCESS: CONTAINMENT

- Used linens should be handled in a manner that avoids contamination of the environment and healthcare personnel clothing. They should not be shaken, sorted, or prerinsed at the point of use.
- Soiled laundry should be contained in bags or containers that clearly indicate they are soiled at the point of use. Hamper covers are not required in resident care areas.
- Contaminated textiles and fabrics are placed into bags or other appropriate containment in this location; these bags are then securely tied or otherwise closed to prevent leakage.



TRANSPORTING LAUNDRY	
THE LAUNDRY PROCESS: TRANSPORTING LINEN	
Contaminated textiles and fabrics in bags can be transported by cart or chute.	
Bags containing contaminated laundry are	
clearly identified with labels, color-coding, or other methods so that health-care workers	
handle these items safely, regardless of whether the laundry is transported within the	
facility or destined for transport to an off-site laundry service.	
Laundry carts used to transport textiles	
offsite should be cleaned and disinfected with EPA-registered healthcare disinfectants.	
This is usually done when soiled carts are	
emptied, prior to restocking them with laundered textiles for return to the facility.	
	-
	
SORTING LAUNDRY	

Health-care facilities should determine the point in the laundry process at which textiles and fabrics should be sorted. Sorting laundry before washing protects both the machinery and fabrics from hard objects (e.g., needles, syringes, and residents' property) and reduces the potential for recontamination of clean textiles.
machinery and fabrics from hard objects (e.g., needles, syringes, and residents' property) and reduces the potential for recontamination of clean textiles.
SORTING
Sorting <i>after</i> washing minimizes the exposure of laundry workers to infective material in soiled fabrics, reduces airborne microbial contamination in the laundry area, and helps to prevent potential percutaneous injuries to personnel.

PARAMETERS OF THE LAUNDRY PROCESS

Fabrics, textiles, and clothing used in health-care settings are disinfected during laundering and generally rendered free of vegetative pathogens (i.e., hygienically clean), but they are not sterile. Laundering cycles consist of flush, main wash, bleaching, rinsing, and souring. Cleaned wet textiles, fabrics, and clothing are then dried, pressed as needed, and prepared (e.g., folded and packaged) for distribution back to the facility.

THE LAUNDRY PROCESS: LAUNDRY OVERVIEW

THE LAUNDRY PROCESS: LAUNDRY OVERVIEW

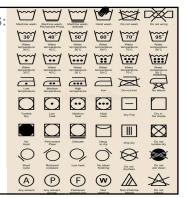


- Washing/drying processes includes the use of manufacturer's instructions for use (IFU) for laundry additives and equipment maintenance.
- Laundry equipment (washing machines and dryers) is used and maintained according to the manufacturer's IFU to prevent microbial contamination of the system

THE LAUNDRY PROCESS: LAUNDRY SYMBOL GUIDE

Ensure that staff are appropriately trained and deemed competent.

Also ensure that the manufacturer's instructions for use are followed.



THE LAUNDRY PROCESS: WASHING PARAMETERS

The effectiveness of the laundering process depends on many factors, including:

- time and temperature
- mechanical action
- · water quality (pH, hardness)
- volume of the load
- extent of soiling
- model/availability of commercial washers and dryers

	The antimicrobial action of the laundering process results from a combination of mechanical, thermal,
Alam Page	and chemical factors.
	 Dilution and agitation in water remove substantial quantities of microorganisms.
	 Soaps and detergents function to suspend soils and exhibit some microbiocidal properties.

THE LAUNDRY PROCESS: WASHING PARAMETERS Hot water provides an effective means of destroying microorganisms. Washing with hot-water, defined as 160°F (71°C) temperature, for a minimum of 25 minutes

- Water can be provided by steam jet or separate booster heater.
- Low-temperature laundry cycles rely heavily on the presence of chlorine- or oxygen-activated bleach to reduce the levels of microbial contamination.
 - contamination.

 Washing in low water temperatures of 71°F—

 77°F (22°C–25°C) can reduce microbial contamination when the cycling of the washer, the wash detergent, and the amount of laundry additive are carefully monitored and controlled.



THE LAUNDRY PROCESS: CHLORINE BLEACH Chlorine bleach is an economical.



- broad-spectrum chemical germicide that enhances the effectiveness of the laundering process.
- Chlorine bleach is not, however, an appropriate laundry additive for all fabrics.
- The use of chlorine bleach assures an
 - In e use of criorine bleach assures al extra margin of safety.

 A total available chlorine residual of 50–150 ppm is usually achieved during the bleach cycle.

 Chlorine bleach becomes activated at water temperatures of 135°F–145°F (57.2°C–62.7°C).

Always follow manufacturer's instructions for use.

THE LAUNDRY PROCESS: RINSE CYCLE



- The last of the series of rinse cycles is the addition of a mild acid (i.e., sour) to neutralize any alkalinity in the water supply, soap, or detergent.

 Let inactivates some

 - microorganisms.

 It reduces the risk for skin reactions among residents.
- Damp laundry is not left in machines overnight.

THE LAUNDRY PROCESS: DRYING PARAMETERS



- Regardless of whether hot or cold water is used for washing, the temperatures reached in drying and especially during ironing provide additional significant microbiocidal
- Dryer temperatures and cycle times are dictated by the materials in the fabrics
- Man-made fibers (i.e., polyester and polyester blends) require shorter times and lower temperatures.

THE LAUNDRY PROCESS: DISINFECTION OF MACHINES

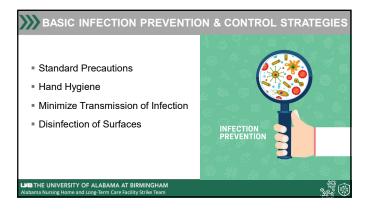
- Disinfection of the tubs and tumblers of these machines is unnecessary when proper laundry procedures are followed; these
- procedures involve:

 the physical removal of bulk solids (e.g., feces) before the wash/dry cycle **and**
- proper use of temperature, detergent, and laundry additives.
- Infection has not been linked to laundry procedures in residential-care facilities, even when consumer versions of detergents and laundry additives are used.

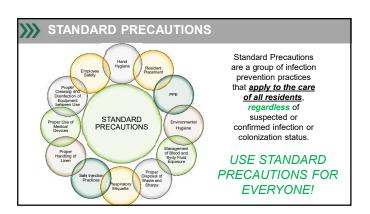


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THE LAUNDRY PROCESS: CLEAN LINENS	
Bed and bath linens must be maintained in good condition. Linens are inspected and replaced if any holes, tears, and physical defects are found.	
THE LAUNDRY PROCESS: CLEAN LINENS	
Clean linens provided by an off-site laundry must be packaged prior to transport to prevent inadvertent contamination from dust and dirt during loading, delivery, and unloading. Functional packaging of laundry can be achieved in several ways, including: placing clean linen in a hamper lined with a previously unused liner, which is then closed or covered placing clean linen in a properly cleaned cart and covering the cart with disposable material or a properly cleaned reusable textile material that can be secured to the cart, and wrapping individual bundles of clean textiles in plastic or other suitable material and sealing or taping the bundles.	
INFECTION CONTROL PREVENTION STRATEGIES	

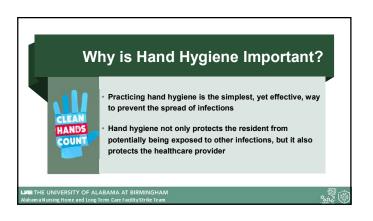


STANDARD PRECAUTIONS



Standard precautions protect and prevent healthcare personnel or the environment from transmitting infections to other residents. Standard precautions are based on the principle that all blood, body fluids, secretions, and excretions (except sweat) may contain transmissible infectious agents. LIGHTHE UNIVERSITY OF ALABAMA AT BIRMINGHAM Alabama Nursing Home and Long-Term Care Facility Strike Team

HAND HYGIENE





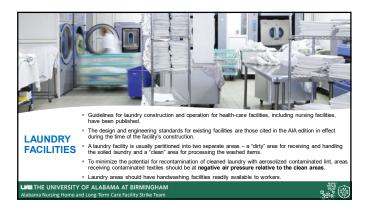
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CLEANING AND DISINFECTION IN LONG-TERM CARE LAUNDRY FACILITIES



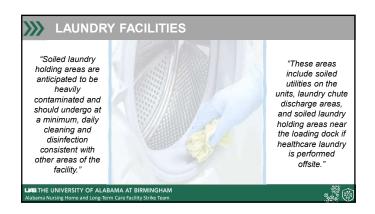
Germs or pathogens of concern, such as a bacteria, fungi, virus, or parasite can survive for long periods of time if proper cleaning and disinfection are not performed. Susceptible personnel can become infected or colonized with pathogens if they have direct or indirect contact with contaminated surfaces or equipment. Description of concern, such as a bacteria, fungi, virus, or parasite can survive for long periods of time if 5 months Susceptible personnel can become infected or colonized with pathogens if they have direct or indirect contact with contaminated surfaces or equipment. Description of concern, such as a bacteria, fungi, virus, or parasite can survive 5 months Susceptible personnel can become infected or colonized with pathogens if they have direct or indirect contact with contaminated surfaces or equipment. Susceptible personnel can become infected or colonized with pathogens if they have direct or indirect contact with contaminated surfaces or equipment. Susceptible personnel can become infected or colonized with pathogens if they have direct or indirect contact with contaminated surfaces or equipment. Susceptible personnel can become infected or colonized with pathogens if they have direct or indirect contact with contaminated surfaces or equipment. Susceptible personnel can become infected or colonized with pathogens if they have direct or indirect contact with contaminated surfaces or equipment.

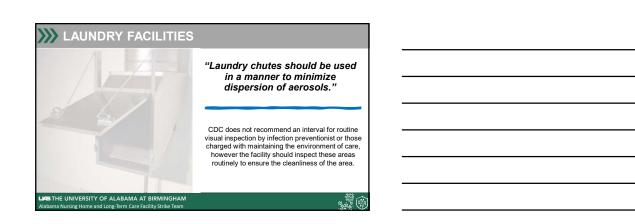
In Laundry Facilities, The physical environment (e.g., floors, walls, ceilings, vents, working surfaces, and installed equipment) must receive scheduled cleaning appropriate for the surface, the frequency dependent upon the level of contamination, and the operation performed in the area according to facility policy. Clean textile working surfaces (e.g., counters, benches, tables, etc.) must be kept clean of visible soil, dust, and lint.

All surfaces are to be cleaned and disinfected on a routine basis to prevent transmission of germs through fomites, or inanimate objects.

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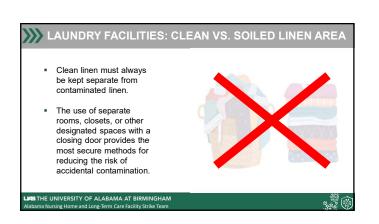






"Maintain the receiving area for contaminated healthcare textiles at negative pressure compared with the clean areas of the laundry in accordance with AIA construction standards in effect during the time of facility construction." In all facility types (including long-term care), ASHRAE Standard 170-2017 indicates that soiled utility and soiled holding areas "should be at negative pressure to adjacent areas with a minimum of 2 outdoor air changes per hour (ACH) and 10 total ACH."

Stock inventory of clean textiles are rotated and used in a "first in – first out" manner. Storage area must be free of dust and lint The bottom shelf must be of solid nonporous construction, free from visible soil and dirt, and at a minimum of 8 inches from the floor for accessible cleaning to prevent contamination. Storage area must be under positive air pressure relative to adjacent spaces, thereby preventing intrusion of contamination from soiled textile areas. The doors to the clean textile storage area shall always remain closed, except for entrance or exit.





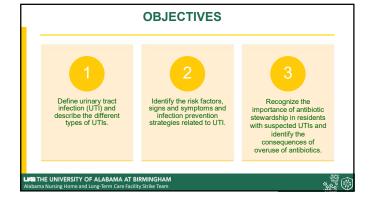


>>>	RESOURCES
https://hlacnet.org/wp-content/uploads/2023/0	6/HLAC_AccreditationStandards_05-31-2023.pdf
Guidelines for laundry in health care facilities - U	JniMac
LTCF laundry standards cdc - Google Search	
https://hlacnet.org/wp-content/uploads/2023/0	09/HLAC_AccreditationStandards_09-21-2023.pdf
https://hlacnet.org/standards/	
https://www.google.com/search?q=image+of+setDDFMQ2-	oiled+laundry+in+healthcare&tbm=isch&ved=2ahUKEwjsiNm29PyEAxWeK2IAHS
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	PgAaoEqgECMTC4AQPIAQD4AQGKAgtnd3Mtd2I6LWItZ4gGAQ&sclient=img&ei=U &rlz=1C1CHBF_enUS1039US1039#imgrc=XP5yDqz8UnnRdM
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https://www.cdc.gov/infectioncontrol/guideline	s/environmental/index.html



OBJECTIVES





According to Centers for Disease and Control

- Healthcare Associated Infections (HAIs)
 - 1 to 3 million serious infections occur every year in nursing homes, skilled nursing and assisted living facilities.
 - Infections include urinary tract infection, diarrheal diseases, antibiotic-resistant staph infections, and many others.
 - Infections are a major cause of hospitalization and death; as many as 380,000 people die of infections in LTCFs every year.

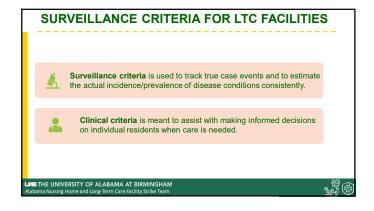
Reducing HAIs is critical to improving resident safety and controlling healthcare costs.

Alabama Nursing Home and Long-Term Care Facility Strike Team



ANTIBIOTIC USAGE IN NURSING HOMES 4.1 million Americans are admitted to or reside in nursing homes during a year 12% of LTCF residents have an infection at any given time 12% of LTCF residents have an infection at any given time Up To 70% of nursing home residents received one or more antibiotics during a year Up to 75% of antibiotics are prescribed incorrectly Having an effective Antimicrobial Stewardship Program is important in this setting

In a 1945 interview with *The New York Times*, Alexander Fleming, who won a Nobel Prize that year for his discovery of penicillin, warned that misuse of the drug could result in selection for resistant bacteria. $\ref{eq:condition}$ The judicious use of antibiotics is necessary considering the growth of antimicrobial resistance and escalating costs in health care. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2702430/ **Antimicrobial Stewardship is Mandated by CMS** Centers for Medicare & Medicaid **Services** CMS (CMS) ASP Regulations in Long-Term Regulations (F881; 42 CFR 483.80(a)(3)) requiring an ASP that includes: **Care Facilities** Antibiotic use protocols System to monitor antibiotic use Be reviewed on an annual basis and as needed



MCGEER, NHSN, AND LOEB CRITERIA

McGeer and NHSN Criteria are designed for Surveillance

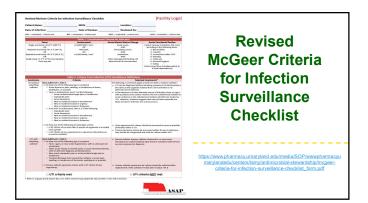
- Surveillance definitions are highly specific for setting benchmarks across facilities
- Revised McGeer criteria often applied retrospectively to review and count cases
- Not very useful for diagnosis or necessity of treatment.

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Loeb Criteria is designed for Clinical Use

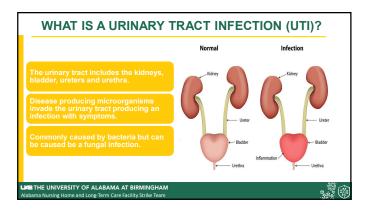
- Establish minimum criteria that should be present before initiating antibiotics
- Useful for guiding resident care and clinical practice

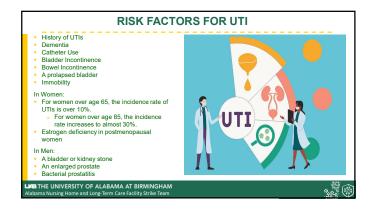


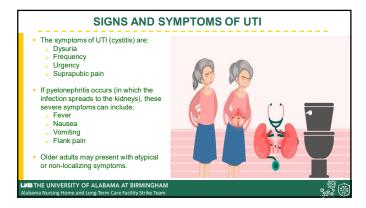


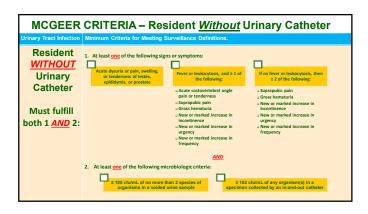
APPLYING THE LOEB CRITERIA				
	*	Loeb Criteria is applied prospe cases in which antibiotic initiati	ctively, in "real time" to identifion is appropriate in LTCF	fy
~	>	Loeb Criteria developed for:	Urinary Tract Infections (UTIs) Skin and Soft-Tissue Infections Respiratory Infections Fewer of Unknown Origin	
			, and the second	
		OF ALABAMA AT BIRMINGHAM nd Long-Term Care Facility Strike Team		3572 (i)

URINARY TRACT INFECTION (UTI

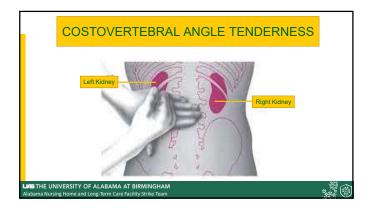








LOEB CRITERIA – Resident <u>Without</u> Urinary Catheter				
Urinary Tract Infection	Minimum Criteria for Collecting Urine & Starting Antibiotic Therapy			
Resident WITHOUT	Either one of the following criteria:			
Urinary Catheter	Acute dysuria (discomfort, pain, burning) OR			
	• Temp >100°F (>37.9°C) or 2.4°F (1.5°C) increase above baseline.			
	<u>AND</u>			
	>1 of the following new or worsening symptoms:			
	 Urgency (sudden desire to void) 			
	 Suprapubic pain 			
	 Urinary incontinence 			
	 Frequency (needing to urinate 8 or more times a day) 			
	 Gross hematuria 			
	 Costovertebral angle tenderness 			
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Alabama Nursing Home and Long-Term Ca				



CATHETER ASSOCIATED URINARY TRACT INFECTION

INDWELLING URINARY CATHETER

A drainage tube that is inserted into the urinary bladder through the urethra, is left in place, and is connected to a drainage bag/collection system to drain the urine from the bladder. (Example: Foley catheter.)



The risk of a catheter associated urinary tract infection (CAUTI) is directly related to the duration of catheterization!

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BACKGROUND: PATHOGENESIS OF CAUTI

Infections can either occur early due to contamination at insertion or later due to improper

Extraluminal (Outside of the closed catheter system)

- Early, at insertion

 Endogenous- Meatal, rectal, or vaginal colonization
- Exogenous- Health care providers hands or equipment
 Late, by capillary action

Intraluminal (Inside the closed catheter system)

- Break in closed drainage Ascension of fecal or skin flora
- Balloon prevents complete bladder emptying
- Biofilm formation
- Contamination of collection bag urine



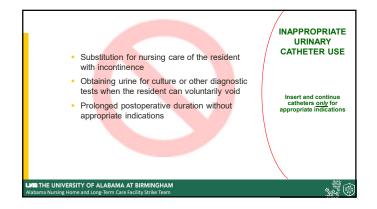
APPROPRIATE URINARY CATHETER USE

Insert and continue catheters only for appropriate indications

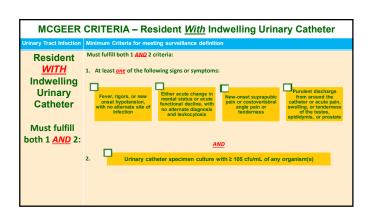
- Acute urinary retention or bladder outlet obstruction.
- Critically III with need for accurate urinary output monitoring
- Perioperative for certain surgeries
 - Urologic surgery or other surgery on the contiguous structures of the genitourinary systems

 - Prolonged duration of surgery (should be removed post-op) Anticipation of large-volume infusions or diuretics during surgery
 - Need for intraoperative monitoring of urinary output
- Assist in open sacral or perineal wound healing in the incontinent resident
- Prolonged imm obilization End-of-life comfort, if needed





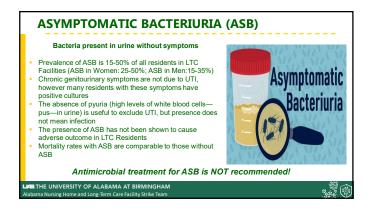


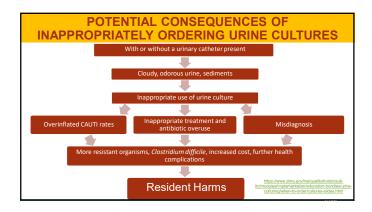


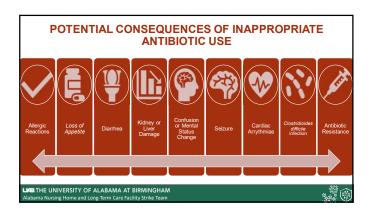
LOEB CRITER	RIA – Resident <u><i>With</i></u> Urinary Catheter	
Resident <u>WITH</u> Urinary Catheter	Minimum Criteria for Collecting Urine & Starting Antibiotic Therapy At Least One of the following criteria: Rigors – an episode of shaking or exaggerated shivering with a rise in temperature New onset delirium – confusion	
	 Temp > 100° F or 2.4° F above baseline New costovertebral angle tenderness 	
LIGE THE UNIVERSITY OF ALAB Alabama Nursing Home and Long-Terr	AMA AT BIRMINGHAM n Care Facility Strike Team	
	PLEASE NOTE:	
Residents wit an <u>indwelling</u> <u>urinary</u> <u>catheter</u> should be categorized a	an indwelling urinary catheter: Intermittent/Straight in-and-out catheters Suprapubic catheters Condom catheters External urinary drainage devices.	
'with catheter	Nephrostomy tube(s)	
Alabama Nursing Home and Long-Ten		

DETERMINING WHEN TO ORDER AN

LOEB CRITERIA – Resident <u>Without</u> Urinary Catheter Resident <u>WITHOUT</u> Either <u>one</u> of the following criteria: Urinary Catheter • Acute dysuria (discomfort, pain, burning) OR • Temp >100°F (>37.9°C) or 2.4°F (1.5°C) increase above baseline. >1 of the following new or worsening symptoms: Urgency (sudden desire to void) Suprapubic pain Urinary incontinence Frequency (needing to urinate 8 or more times a day) Gross hematuria Costovertebral angle tenderness LOEB CRITERIA – Resident With Urinary Catheter Resident WITH At Least One of the following criteria: **Urinary Catheter** □ Rigors — an episode of shaking or exaggerated shivering with a rise in temperature New onset delirium – confusion Temp > 100° F or 2.4° F above baseline New costovertebral angle tenderness







PLEASE NOTE:

- Urine cultures should **not** be performed on a scheduled basis (e.g., monthly).
- Urine cultures should **not** be used to identify UTIs in the absence of symptoms.
- Smelly or cloudy urine is **not** a symptom of a UTI.
- Residents with an intermittent catheter or a condom catheter should be evaluated as "not catheterized" because the catheter is not indwelling.
- Urine cultures should be used to identify the most appropriate antibiotic.
- For residents with acute dysuria, it may be appropriate to initiate empirical antibiotic therapy; but for all other symptoms, wait for a urine culture.
- For residents that regularly run a lower temperature, use a temperature of 2°F (1°C) above the baseline as a definition of a fever.

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COULD IT BE SEPSIS?

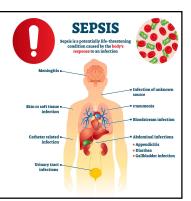
- The urinary tract infection can lead to can lead to cystitis, pyelonephritis, bacteremia, and septic shock, resulting in decreased functionality, possible acute care hospitalization and mortality.
- Management of sepsis is a complicated clinical challenge requiring early recognition and management of infection, hemodynamic issues, and other organ dysfunctions.

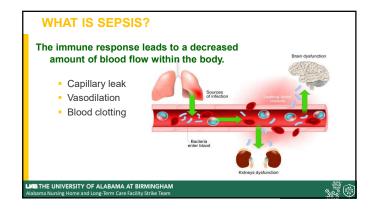


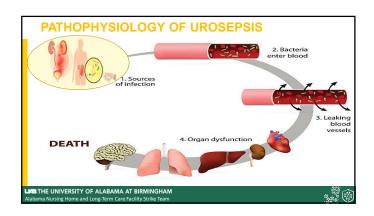
https://jamanetwork.com/journals/jama/article-abstract/2598892

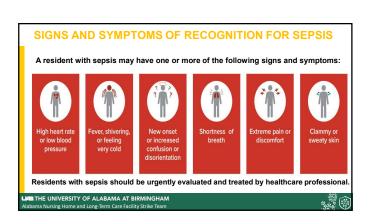
WHAT IS SEPSIS?

- Sepsis is the body's extreme response to an infection. It is a lifethreatening medical emergency.
- Without timely treatment, sepsis can rapidly lead to tissue damage, organ failure, and death.









Classic signs and symptoms, such as fever and pain, that may be *subtle* in older adults and not conform to the expected inflammation/infection response. Lethargy, changes in level of consciousness, weakness, blood pressure changes, shortness of breath, and decreased oxygenation can indicate an infectious or noninfectious process

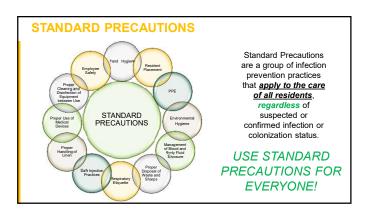
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When it comes to sepsis, remember IT'S ABOUT TIME™. Watch for: **TEMPERATURE** INFECTION MENTAL DECLINE **EXTREMELY ILL** higher or lower confused, sleepy, may have signs severe pain, than normal and symptoms of difficult to rouse discomfort, an infection shortness of breath

BASIC INFECTION PREVENTION & CONTROL STRATEGIES

 Standard Precautions Hand Hygiene Proper Specimen Collection Use Infection Prevention Strategies 	INFECTION PREVENTION
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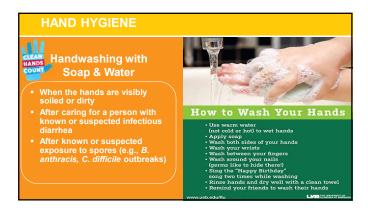
STANDARD PRECAUTIONS

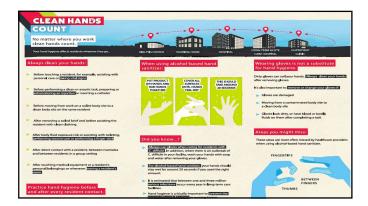


HAND HYGIENE

Germs are primarily spread through the hands of healthcare providers. Therefore, hand hygiene remains the #1 way to prevent the spread of infection. Hand hygiene includes: Hand sanitizing with an alcohol-based hand rub (with 60-95% alcohol content) Hand washing with soap and water

HAND HYGIENE Alcohol-Based Hand Sanitizer Used for routine hand hygiene in most clinical situations (when hands are not visibly soiled or dirty) Immediately before touching a resident Before performing an aseptic technique (e.g., placing an indwelling device) or handling invasive medical devices Before moving from work on a soiled body site to a clean body site on the same resident- unless hands are visibly soiled After touching a resident or the resident's immediate environment After encountering possibly contaminated surfaces Immediately after glove removal





PROPER URINE SPECIMEN COLLECTION

Do Not collect from Sed Do Not
Intermittent, Straight Catheter From Sample Port of Catheter Catheter drainage bags
Catheter drainage hags
Catneter drainage bags
Intermittent Sample Port of straight catheter Indwelling Urinary
Catheter ■ THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

PREVENTION STRATEGIES TO REDUCE UTI IN LTCFS

- Perform hand hygiene
- Use gowns and gloves to protect staff and residents
 Only use catheters when they meet criteria
- Increase fluid intake, if appropriate: Older adults are subject to dehydration and over hydration. (Example: Offer 2-3 gulps of water every 30 minutes between the hours of 8am to 4pm (averages to approximately 64 oz))
- Offer scheduled toileting for each resident (Example: every 2 to 4 hours).
- Educating staff and residents to practice proper genital-urinal hygiene (Example: For women, wiping in a "front to back" method to prevent fecal contamination.
- For incontinent persons, use soap and water for cleansing the perineal area (do not use antiseptics).

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CAUTI PREVENTION

Enhanced Barrier Precautions Enhanced Barrier Precautions GOAL (EBP) are infection control measures designed to reduce the spread of resistant organisms by using personal protective equipment during high contact THE SPREAD resident care activities or with residents with an increased risk OF for acquiring a multidrug-resistant organism (such as, residents with wounds or indwelling medical devices).

Enhanced Barrier Precautions

Applies to all residents in Skilled Nursing Facilities with any of the following:



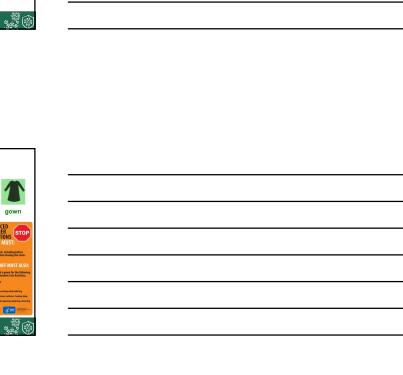


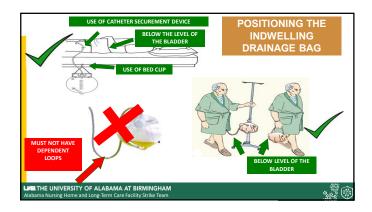


- Changing Linens
 Changing Linens
 Changing briefs or assisting with toileting
 Device care or use: central line, urinary catheter, feeding tube,
- tracheostomy/ventilator
 Wound care: any skin opening requiring a dressing

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SUMMARY OF CAUTI PREVENTION MEASURES*

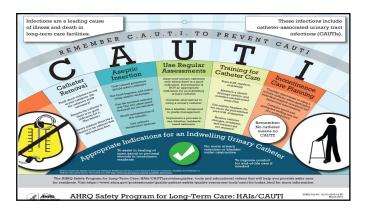
Best Practice

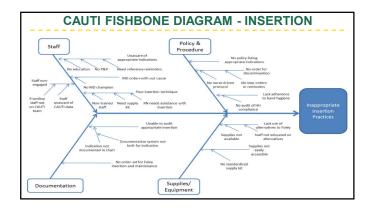
- Perform Hand hygiene and standard (or appropriate isolation) precautions
- Insert catheters only for appropriate indications
- Leave catheters in place only as long as needed
- Only properly trained persons insert and maintain catheters
- Insert catheters using aseptic technique and sterile equipment
- Maintain a closed drainage system
- Maintain unobstructed urine flow
- Prevent dependent loops in the catheter
- Position the drainage bag below the level of the bladder

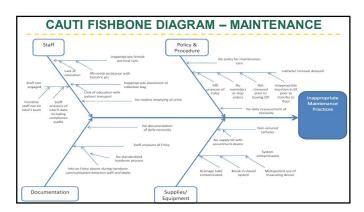
*All recommendations in HICPAC guidelines at: http://www.cdc.gov/hicpac/cauti/001_cauti.htm

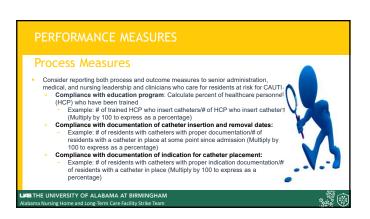
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Outcom	ne Measures	
RO	Consider reporting both process and outcome measures to senior administration, medical, and nursing leadership and clinicians who care for residents at risk for CAUTI. Rates of CAUTI: Example: # of CAUTIs/Total # of urinary catheter days for all residents with an indwelling urinary catheter (Multiply by 1,000 to express as cases per 1,000 catheter days)	
Y.Y.	Use Quality improvement programs as an active approach to accomplish recommendations and when process and outcome measure goals are not being met based on internal reporting.	

USE SBAR TOOL FOR COMMUNICATION

SBAR is a *TeamSTEPPs* framework for team members to effectively communicate information to one another

Communicate the following information:

Situation—What is going on with the resident?

 $\underline{\textbf{B}} \text{ackground} \textbf{--} \textbf{What is the clinical background or context?}$

 $\underline{\textbf{A}} \textbf{ssessment} \textbf{--} \textbf{What do I think the problem is?}$

Recommendation—What would I recommend?

SBAR can be used with clinicians and with residents and families

https://www.ahrq.gov/hai/quality/tools/cauti-ltc/modules/implementation/education-bundles/urine-

Infection Prevention and Control is an important strategy to prevent urinary tract infections. PREVENTION IS KEY!

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RESOURCES
https://www.cdc.gov/infectioncontrol/guidelines/CAUTI/index.html
https://www.ahrq.gov/hai/quality/tools/cauti-ltc/resources.html
Fishbone Diagram (tnpatientsafety.com) https://www.tnpatientsafety.com/wp-content/uploads/2020/08/Fishbone-Diagram.pdf
https://www.ahrq.gov/nhguide/toolkits/determine-whether-to-treat/antibiotic-tool.html
Urinary Tract Infections (UTI) Module for Long-term Care Facilities (LTCFs) - Part 1 (youtube.com) https://www.youtube.com/watch?v=IFdOuVMKWaM
https://www.asn-online.org/education/distancelearning/curricula/geriatrics/Chapter32.pdf
https://www.cdc.gov/antibiotic-use/utl.html?CDC_AA_refVal=https%3A%2F%2Fwww.cdc.gov%2Fantibiotic-use%2Fcommunity%2Ffor-patients%2Fcommon-illnesses%2Futl.html
https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3878051/
https://www.ahrq.gov/hai/quality/tools/cauti-ltc/modules/implementation/education-bundles/urine-culturing/when-to-order/cultures-slides.html
D.A. Nace, S. PF. (2018). The Improving Outcomes of UTI Management in Long-Term Care Project Consensus Guidelines for the Diagnosis of Uncomplicate Cystitis in Nursing Home Residents. JAMDA, 765-769.
D.K. McMaughan, e. a. (2016). Impact of a decision-making aid for suspected urinary tract infections on antibiotic overuse in nursing homes. BMC Geriatrics, 16:81.
L.E. Nicolle, T.Y. (2000). Urinary Tract Infection in Long-Term Care Facility Residents. Clinical Infectious Diseases, 757-761.
Nelson, S., & Flynn, L. (2015). Relationship between missed care and urinary tract infections in nursing homes. Geriatric Nursing, 126-130.
S. Salem-Schatz, e. a. (2020). A Statewide Program to Improve Management of Suspected Urinary Tract Infection in Long-Term Care. JAGS, 68:62-69

RESOURCES (CONTINUATION) https://infectioncontrolma.org/docs/Loeb-and-Revised-McGeer-Criteria.pdf https://www.ahrq.gov/sites/default/files/wysiwyg/nhquide/4_TK3_T4-Letter_to_Prescribing_Clinicians.pdf https://www.pharmacy.umaryland.edu/media/SOP/wwwpharmacyumarylandedu/centers/lamy/antimicrobialstewardship/mcgeer-criteria-for-infection-surveillance-checklist_form.pdf CDC's Clean Hands Count Campaign: https://www.cdc.gov/handhygiene/campaign/index.html UAB Handwashing Video: https://www.youtube.com/watch?v=cViNneQbPyA https://www.cdc.gov/handhygiene/pdfs/Provider-LTC-Brochure-P.pdf Technical Resources & Guidelines | Sepsis | CDC Surviving Sepsis Campaign: International Guidelines for Mana...: Critical Care Medicine (lww.com) Management of Sepsis and Septic Shock | Guidelines | JAMA | JAMA Network https://jamanetwork.com/journals/jama/article-abstract/2598892







OBJECTIVES

Oh	io otivo c
UD	jectives

- Identify the functions and responsibilities of the nurse/medication tech during medication pass
- Identify items of preparation for Medication administration.
- Discuss ideal Medication Administration practices utilizing food and beverages.
- Review areas of concentration during Infection Prevention consultations.
- Describe strategies for assessing adherence to infection control procedures during medication administration.

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HISTORICAL PROCESS

Historical Process Review

The medication nurse/tech is responsible for administering the medications as they have been prescribed by their medical provider.



Factors	That Affect	ct Medicat	tion Admir	nistration
		0 0		· •
7	Resident appointment schedules (Example: dialysis, therapy, doctor, or dental appointment)	The number of prescribed medications that are to be administered to each resident	Performing an assessment (resident, lab values, or vital signs) prior to medication administration	Medication calculations
	Resident with a higher acuity, on isolation precautions, or with an urgent/emergent situation	Need for order clarification from ordering provider	Often working with limited staffing resources, increased staffing ratios or provider with multiple roles	Ensuring that the necessary equipment to complete medication administration is available
	pass medication	e it takes to prepare and in the morning, mid-day, ng and being timely when is at the appropriate times	To be informed and k each medication an knowledge of side eff and potential drug is medication	d to have a working ects, adverse effects, interactions of these
				9 =

Medication Cart Items



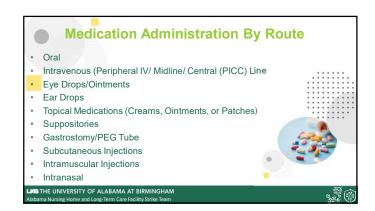
- List of resident names and medication list
- Report Sheet/Worksheet (for documentation of vital signs that are required for meds)

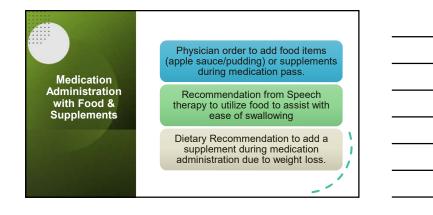
 Computer (documentation)

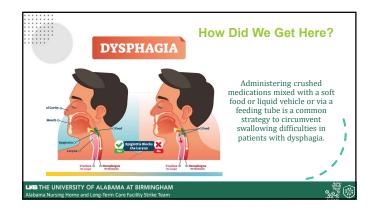
 Gloves

- Alcohol wipes OTC and Extra medications
- Trash Can
- Sharps containerBP cuff Medication
- · Disinfectant wipes

Medication Cart Items Pill crusher (silent knight) Drinking cups Medication cups Spoons Applesauce (comes from kitchen) Water pitcher (Dated and Labeled) Thickened Water Juice (If resident prefers) Protein Supplement Straws Diabetes Management supplies Lancet, strips, glucometer Hand sanitizer Facility provided lotion

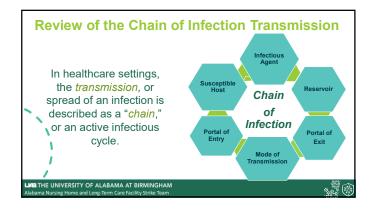


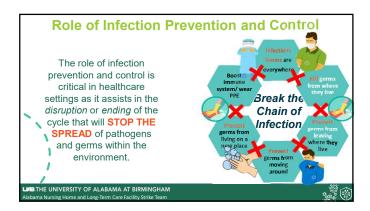




Common Food Used With Medication Administration • Apple Sauce • Pudding • Ice Cream • Juices/Punch • Milk Supplements • Thicken Liquids

BASICS IN INFECTION PREVENTION







Infection Prevention Plan

- The IP must address the potential increased risk of pathogen transmission associated with these additional activities and services.
- A comprehensive IPC plan must now include measures to prevent environmental contamination of items such as in-room computers, computer keyboards, touch screens, and equipment.
- In addition, the plan must anticipate an increasing traffic flow to the LTC facility by visitors and service providers who support these activities.



Infection Prevention Plan



- The IP should collaborate with the pharmacy provider to ensure that medications are dispensed and delivered to the facility in a manner that prevents possible contamination.
- Periodic observation of medication administration will provide realtime, useful data regarding the safe handling and administration of commonly prescribed drugs.

Perform Hand Hygiene Between Care of Residents

Germs are primarily thought to be spread through the hands of healthcare providers. Therefore, *hand hygiene* remains the #1 way to prevent the spread of infection.

Use the appropriate hand hygiene based upon the situation (wash hands with soap and water when visibly soiled or dirty or when caring for resident with C. difficile or Norovirus.)



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Prevent Infection Transmission From Fomites

- Fomites are inanimate objects that can be contaminated with germs.
- Germs can be spread when the fomites are touched.
- Examples of fomites are medication drawer handles, surface of medication cart, touch screen monitors, and bedside tables.
- Ensure that these surfaces are cleaned and disinfected on a routine basis and as needed when soiled or contaminated.

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Glucometer	STAT STEET
o Is the device for single resident use Cleaning and Disinfection per IFU Proper Disinfectant Used Where to clean and disinfect Proper storage procedure followed Insulin Pins/ Multidose Insulin Vials Needles – Single use Lancet Lancet - Single use All supplies should remain in original containers (with lot #s, expiration dates). Cotton balls should be maintained and covered to prevent contamination	Policies Resident Son Transport Contracting Contractin

Infection Prevention with Supplies on Medication Cart

- Items are to be maintained as single use
- Items are to be protected from being contaminated (cups turned downward)
- Water pitcher (labeled and dated)
- Foods used (labeled and dated)
- Surfaces intact without, rust, or breaks in its
- integrity

 Medications should not be touched with bare hands
- No personal drinks or items should be on the medication cart
- Items are used before expiration date
- Outdate checks (shift older items to the front or top)

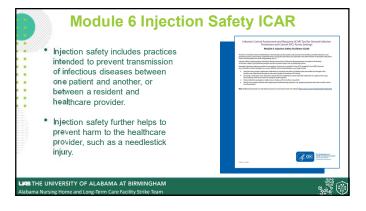




Infection Prevention and Medication Administration

- Care should be planned based on the type of medication being administered
- Take care to scrub the hub prior to administering intravenous medications
- Note IV access: Site intact, flushes with ease, without redness, without signs of infiltration
- For all creams and drops, ensure that these do not get contaminated.
- Utilize appropriate PPE
- Care should be given for proper cart cleaning and disinfection (Example: between shift change or daily)

WHAT TO LOOK FOR DURING OBSERVATIONS



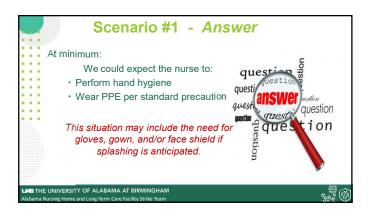
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Module 6 Injection Safety ICAR	1
The following practices should be observed during administration of an injectable medication: Performance of Hand hygiene Medications being prepared using aseptic technique, on a designated clean area, that is not adjacent to potential sources of contamination, including sinks or water sources. Needles and syringes only used for one resident Rubber septum on medication disinfected prior to injecting All multi-dose vials are dated when opened and discarded within 28 days (or by manufacturer specified date)	
All sharps are disposed of in a puncture resistant sharps container	
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DOCUMENTATION OF FINDINGS	
Description of Findings • Be as descriptive without making assumptions • Even if it looks as if it is mold or blood, do not call it such.	
Describe it as: "Brown or black debris noted on"	
 "Appears to be dark red-like debris" "White dust like debris on surface of" 	
 All items should appear neat and orderly. Any areas of clutter are a magnet for drawing further attention to it. All items should be stored in a manner to prevent contamination. 	
If you know something is not right, but do not have the language for it, make a note of it and bring to the attention of nursing leadership.	

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A nurse is administering medications to a resident with a gastrostomy tube. What type of precautions should the nurse take to prevent infection with this resident?



Scenario #2 - Question

You are performing infection control observations at a SNF. You notice a small container of applesauce left unattended on the medication cart. This applesauce container is open, with a spoon in it, without a labeled time or date.



What would you do next?

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At minimum: You would: Inform nursing leadership of the issue in a non-confrontational, non-judgmental way. Encourage them to notify the appropriate staff to discard the applesauce. The new applesauce will be dated and timed and discarded after each medication pass. Provide just in time education of the importance of proper storage and maintenance of food items that are not in use.

Scenario #3 - Question While performing observations, you observe a medication nurse/tech getting ready to enter a resident's room that is on Contact Precaution without personal protective equipment. You should: a. Go about your business since you are not skilled in passing meds. b. Do nothing since PPE for this type of room is optional. c. Access the facility intercom and announce "Attention, you may not want to eat the potato salad that _______ brought today." d. Bring it to the attention of the medication nurse/tech in a non-threatening way. Provide just in time education reminding the staff member that a gown and gloves are to be for residents on Contact Precautions, worn per policy.

Scenario #3 - Answer d. Bring it to the attention of the medication nurse/tech in a non-threatening way. Provide just in time education reminding the staff member that a gown and gloves are to be for residents on Contact Precautions, worn per policy. WESTHE UNIVERSITY OF ALABAMA AT BIRMINGHAM Alabama Nursing Home and Long-Term Care Facility Strike Team

