



### Slide 5

## ADPH/LTC Strike Team Partnership ADPH's Bureau of Communicable Disease - Infectious Diseases & Outbreaks Division - Disease surveillance/reporting - Infectious disease outbreak investigations (Infectious disease outbreak investigations - Work with facilities to implement plans to reduce the occurrence of infectious diseases - Privade technical expertise, consultation, and assistance (many saft CF Strike Team!) Specialist to offer outbreak ICAR | Foundation | Primary POC: Your District Investigator | Primary POC: Your Battering Poc: Your District Investigator | Primary POC: Your District Investigator | Primary POC: Your District Investigator | Primary POC: Your Battering Poc: Your District Investigator | Primary POC: Your Battering Poc: Your District Investigator | Primary POC: Your Battering Poc: Your District Investigator | Primary POC: Your Battering Poc: Your District Investigator | Primary POC: Your Battering Poc: Your District Investigator | Primary POC: Your Battering Poc: Your District Investigator | Primary POC: Your Battering Poc: Your Batte



Slide 7	Mini-Regional Infection Prevention Bootcamps for LTC Facilities  April 26, 2024 in Mobile County  Coming to a County near you!  Registration for the bootcamps will be available on our website at least one month prior to the bootcamp.  Least the UNIVERSITY OF ALABAMA AT BIBMINGHAM 2024 INVECTION PREVENTION BOOTCAMP FOR NURSING-HOMES AND LONG-TERM CARE FACILITIES	
Slide 8	Learn More About the Alabama Nursing Home and Long-Term Care Facility Strike Team  REQUEST A FREE IN CONSULTATION	
	WEBSITE  https://sites.uab.edu/ftcstriketeam/.  Lestriketeam@uab.edu.  Lestriketeam.edu.  Lestriketeam.edu.  Lestriketeam.edu.  Lestriketeam.edu.  Lestriketeam.	
Slide 9	About the Alabama Regional Center for Infection Prevention and Control Training and Technical Assistance (ARC IPC)  The Epidemiology and Laboratory Cooperative Agreement (ELC CoAg) tasked ADPH with the creation of a <u>regional center for</u> 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	
	LIMB THE UNIVERSITY OF ALABAMA AT BIRMINGHAM 2004 INFECTION PREVENTION BOOTCAMP FOR NURSING HOMES AND LONG-TERM CARE FACILITIES	

Slide 10	Learn More About the Alabama Regional Center for	
	Infection Prevention and Control Training and Technical Assistance	
	WEBSITE EMAIL SIGN UP FOR OUR NEWSLETTER https://uab.edu/arcipc arcipc@uab.edu https://uab.edu/arcipc	
	LPBTHE UNIVERSITY OF ALABAMA AT BIRMINGHAM 2024 INFECTION PREVENTION BOOTCAMP FOR NURSING HOMES AND LONG-TERM CARE FACILITIES	
Slide 11		
Silde II	Thank You to Our Co-Sponsors	
	Deep South Center A	
	Learn more: https://sites.uab.edu/dsc/	
	LPBTHE UNIVERSITY OF ALABAMA AT BIRMINGHAM 2024 INFECTION PREVENTION BOOTCAMP FOR NURSING HOMES AND LONG-TERM CARE FACILITIES	
Slide 12		
Slide 12	Housekeeping  Nursing: The Deep South Center for OH&S is an anyproved provider of continuing of ducation units for nurses by the AL Board of Nursing: The OHAS is an anyproved provider of continuing of ducation units for nurses by the AL Board of Nursing (Provider ABMPOSE) Expriation	
	CEs Date 12/16/2026) and has awarded this program 4.5 CEUs. All other professionals are awarded 3.8 CEUs and the swarded 3.8 CEUs Certificates of Participation Wursing Home Administrator: The Board of Examiners of Nursing Home Administrators	
	Questions     has reviewed and approved the seminar for continuing education credit or to continuing education credit or licensed rurning home administrators in the State of Alabama for 3.5 hours.	
	LINE THE UNIVERSITY OF ALABAMA AT BIRMINGHAM 2024 INFECTION PREVENTION BOOTCAMP FOR NURSING HOMES AND LONG-TERM CARE FACILITIES	

# Lori Lloyd, BSN, RN Infectious Disease and Outbreaks Division Emergency Management Division EST. BALIC HEALTH THE UNIVERSITY OF ALABAMA AT BIRMINGHAM AND REPORT ON PRESENTION BEOTTAMP FOR KINSING HOVES AND LONG TERM CAME FACILITIES

### Slide 14





Slide 16	OBJECTIVES	
Slide 17	OBJECTIVES  Review processes used in healthcare laundy services on premises or offsite.  Describe how improper personnel handling, linen transport.  Describe how improper personnel handling.  Describe how improper personnel	
Slide 18	HEALTHCARE LAUNDRY	



### Slide 20





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 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

### Slide 23

### MINIMIZE TRANSMISSION OF INFECTION

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





- - 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.

THE LAUNDRY PROCESS

### Slide 26



### Slide 27

### 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.
- point of use.

  Solied laundry should be contained in bags or containers that clearly indicate they are solied at the point of use. Hamper covers are not required in patient 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.





### Slide 32

PARAMETERS OF THE LAUNDRY PROCESS

### Slide 33

# Paper St. Laundry Overview 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.

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### 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

### Slide 35

### 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.



### Slide 36

### 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 soilingmodel/availability of commercial washers and dryers


### THE LAUNDRY PROCESS: WASHING PARAMETERS

- . The antimicrobial action of the laundering process results from a combination of mechanical, thermal, 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.

### Slide 38

### 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.

  Washing in low water temperatures of 71°E
  - ntamination.

    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.





### Slide 39

### 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.
- ratinities.

  \*\* The use of chlorine bleach assures an extra margin of safety.

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

  \*\* Other 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.
  It inactivates some microorganisms.
  It reduces the risk for skin reactions among residents.
- Damp laundry is not left in machines overnight.

### Slide 41

### 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 action.
- 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.

### Slide 42

### 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.





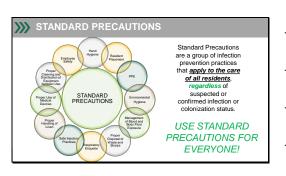
Slide 43	THE LAUNDRY PROCESS: CLEAN LINENS	
	Bed and bath linens must be maintained in good condition.  Linens are inspected and replaced if any holes, tears, and physical defects are found.	
Slide 44	THE LAUNDRY PROCESS: CLEAN LINENS	
	Clean linens provided by an off-site laundry must be packaged prior 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 and covering the cart with disposable material that can be accured to the cart; and wapping individual burdles of clean textiles in plastic or other suitable material and sealing or taping the bundles.	
!		

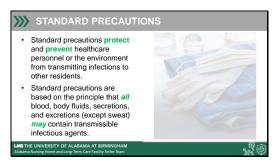
INFECTION CONTROL PREVENTION STRATEGIES

>>>> BASIC INFECTION PREVENTION	ON & CONTROL STRATEGIES
Standard Precautions     Hand Hygiene     Minimize Transmission of Infection     Disinfection of Surfaces	INFECTION PREVENTION
LIFE THE UNIVERSITY OF ALABAMA AT BIRMINGHAM Alabama Nursing Home and Long-Term Care Facility Strike Team	**************************************

### Slide 47



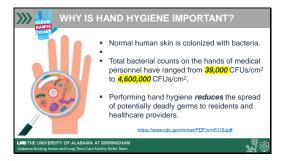




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### Slide 53







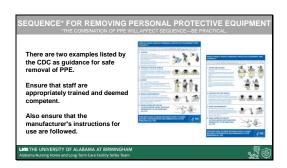
### Slide 56

PERSONAL PROTECTIVE EQUIPMENT





### Slide 59

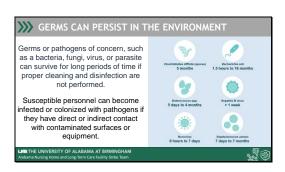


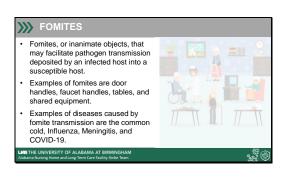
### Slide 60

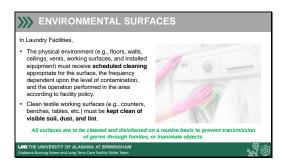
CLEANING AND DISINFECTION IN LONG-TERM CARE LAUNDRY FACILITIES



### Slide 62

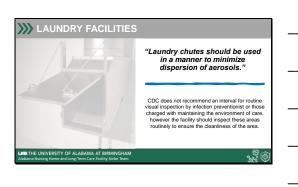


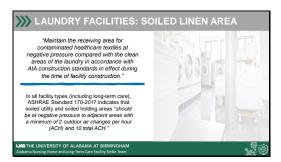




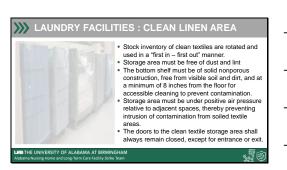
### Slide 65







### Slide 68







### Slide 71





# RESOURCES Itta://monto.or/socional/past/dolones/. Accentration/accent



Slide 76		
	OBJECTIVES	
	OBJECTIVES	
Slide 77		
	Objectives	
	<ul> <li>Identify the functions and responsibilities of the nurse/medication tech during</li> </ul>	
	medication pass.  * Identify items of preparation for Medication administration.	
	<ul> <li>Discuss ideal Medication Administration practices utilizing food and beverages.</li> <li>Review areas of concentration during Infection Prevention consultations</li> </ul>	
	<ul> <li>Describe strategies for assessing the adherence to infection control procedures during medication administration.</li> </ul>	
	LMB THE UNIVERSITY OF ALABAMA AT BIRMINGHAM Alabama Nursing Home and Long-Term Care Facility Strike Team	
Slide 78		
	HISTORICAL PROCESS	

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### Historical Process Review

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



### Slide 80



### Slide 81

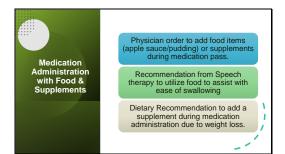
THE MEDICATION CART

# Slide 82 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 container BP cuff Medication Disinfectant wipes

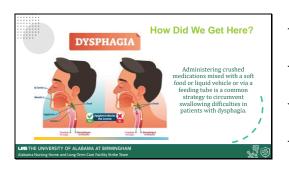
### Slide 83

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





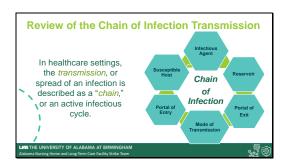
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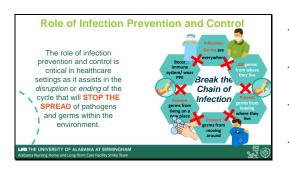




**BASICS IN INFECTION PREVENTION** 

### Slide 89





### So, What's The Infection Control Issue?

Medication administration is often fraught with many potential infection control risk.

Let's highlight a few!



### Slide 92

### **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.



### Slide 93

### **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.)



### Slide 95

### **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
- Ensure that these surfaces are **cleaned and disinfected** on a routine basis and as needed when soiled or contaminated.



### Slide 96

### **Point of Care POC Device**

- Glucometer
   Is the device for single resident use
   Cleaning and Disinfection per IPU
   Proper Disinfectant Used
   Where to clean and disinfect
   Proper storage procedure followed
   Insulin Pins/ Multidose Insulin Vials
   Needles Single use
   Lancet
   Insule Single use

- Lancet

  O 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



### **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

- Surfaces intact without, rust, or breaks in it 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)



### Slide 98



### **Infection Prevention and Medication Administration**

- edication Administratic

  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.

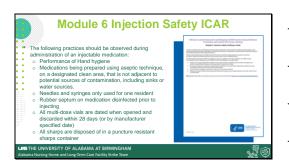
  Utilize appropriate PPE

  Care should be given for proper cart cleaning and disinfection (Example: between shift change or daily)

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### Injection safety includes practices intended to prevent transmission of infectious diseases between one patient and another, or between a resident and healthcare provider. Injection safety further helps to prevent harm to the healthcare provider, injury.

### Slide 101



### Slide 102

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:

- 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.

### Slide 104



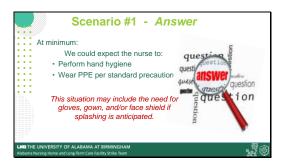
### Slide 105

### Scenario #1 - Question

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?





### Slide 107

### 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?

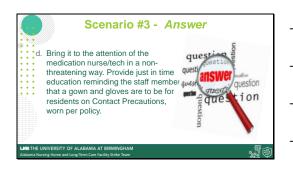
Alabama Nursing Home and Long-Term Care Facility Strike Team

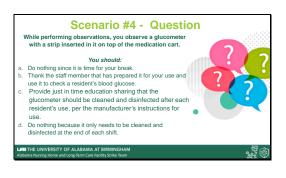
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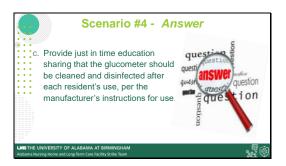
# Scenario #2 - Answer At minimum: You would: Inform nursing leadership of the issue in a non-confrontational, non-judgmental way. Encourage them to notify the appropriate staff to discard the applesauce. The new applesauce will be dated and timed and discarded after each medication pass. Provide just in time education of the importance of proper storage and maintenance of proper storage and maintenance of the importance of the importanc

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### Slide 113

PREVENTION IS KEY





### Slide 116



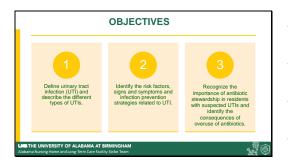




Slide 119

**OBJECTIVES** 





### Slide 122

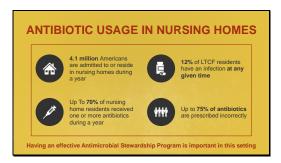
### **According to Centers for Disease and Control**

- 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 the infections in LTCFs every year.

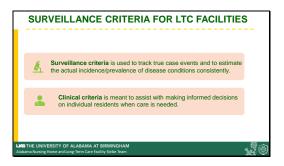
Reducing HAIs is critical to improving patient safety and controlling healthcare costs.

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311GC 12 1		
	6 6 In a 1945 interview with <i>The New York Times</i> , 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. ??	
	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/	
	LIFE THE UNIVERSITY OF ALABAMA AT BIRMINGHAM Alabama Nursing Home and Long-Term Care Facility Strike Team	
Slide 125	Antimicrobial Stewardship is	
	Mandated by CMS	
	Centers for Medicare ad Medicare in Medicare and Medicare in Medic	
	Medicare & If surveyors basen't visited facility etc. they likely will in 2019 to assess the 7 CDC Core.  Elements of Nursing Home Antimicrobial Stewardship Programs are in place.	
	Services CMS	
	(CMS) ASP	
	Regulations in Long-Term Regulations (F881; 42 CFR 483.80(a)(3))	
	Care Facilities requiring an ASP that includes:	
	Antibiotic use protocols     System to monitor antibiotic use	
	Be reviewed on an annual basis and as needed	
Slide 126		
	SURVEILLANCE VERSUS CLINICAL CRITERIA FOR LTCFS	
	POR LIGIS	



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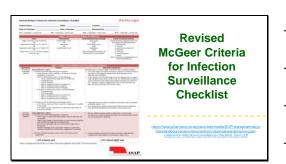
### MCGEER, NHSN, AND LOEB CRITERIA

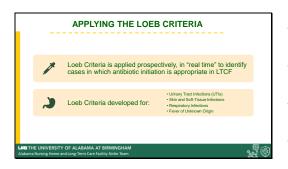
### designed for Surveillance

- 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.

### McGeer and NHSN Criteria are Loeb Criteria is designed for Clinical Use

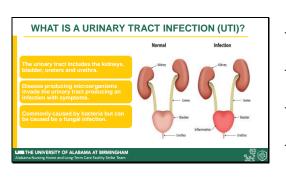
- Establish minimum criteria that should be present **before** initiating antibiotics
- Useful for guiding resident care and clinical practice

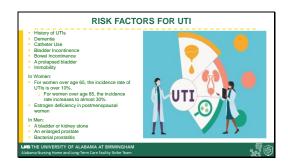




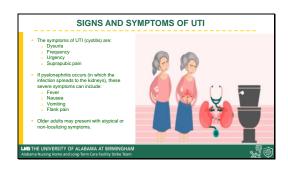
### Slide 131

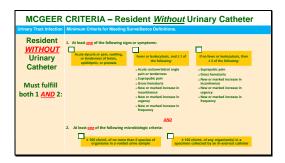
**URINARY TRACT INFECTION (UTI)** 





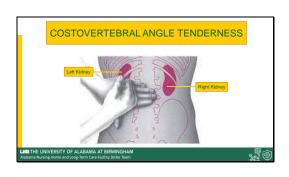
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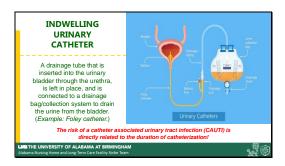
### LOEB CRITERIA — Resident Without Urinary Catheter Urinary Track Infection Resident WITHOUT Urinary Catheter Minimum Criteria for Collecting Urine & Starting Antibloids Thorapy Either one of the following criteria: - Acute dysuria (discomfort, pain, burning) OR - Temp >100°F (>37.9°C) or 2.4°F (1.5°C) increase above baseline. AND >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

### Slide 137



Slide 138

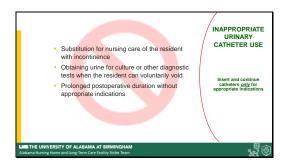
CATHETER ASSOCIATED URINARY TRACT INFECTION



### Slide 140

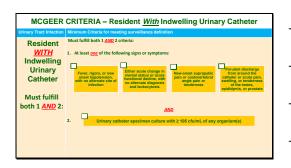
## Infections can either occur early due to contamination at insertion or later due to improper maintenance techniques. Extraluminal (Outside of the closed catheter system) Extraluminal (Outside of the closed catheter system) Extraluminal (Insertion) Extraluminal (Insertion) Extraluminal (Insertion) Extraluminal (Insertion) Extraluminal (Insertion) Extraluminal (Insertion) Intraluminal (Insertion) Break in closed drainage Assent in closed drainage Assent in closed drainage Balloon prevents complete bladder emptying Bioclimi formation Contamination of collection bag urine





### Slide 143





### LOEB CRITERIA – Resident With Urinary Catheter Urinary Treat Infection Resident WITH Urinary Catheter 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

### Slide 146

## Residents with an indwelling urinary catheter: an indwelling urinary catheter: an indwelling urinary catheter: Intermittent/Straight in-and-out catheters Suprapubic catheters Condom catheters External urinary drainage devices. Nephrostomy tube(s)

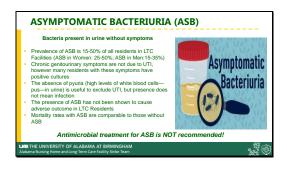
### Slide 147

DETERMINING WHEN TO ORDER AN URINE CULTURE

# LOEB CRITERIA — Resident Without Urinary Catheter Urinary Treet Infection Resident WITHOUT Urinary Catheter Lither one of the following criteria: - Acute dysuria (discomfort, pain, burning) OR - Temp > 100°F (>37.9°C) or 2.4°F (1.5°C) increase above baseline. AND >1 of the following new or worsening symptoms: - Urgency (sudden desire to void) - Suprapubic pain - Urinary incontinence - Prequency (needing to urinate 8 or more times a day) - Gross hematuria - Costovertebral angle tenderness - Costovertebral angle tenderness

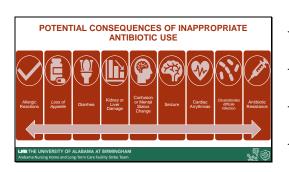
### Slide 149

## LOEB CRITERIA – Resident With Urinary Catheter Urinary Tract Infection Resident WITH Urinary Catheter 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





### Slide 152



### Slide 153

### 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.

**PLEASE NOTE:** 

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**COULD IT BE SEPSIS?** 

### Slide 155

### **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/259889

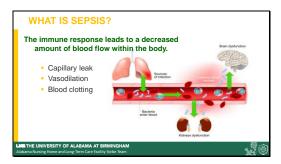
### Slide 156

### WHAT IS SEPSIS?

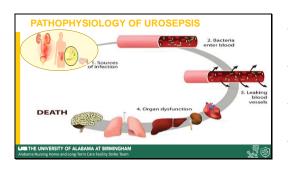
- Sepsis is the body's extreme response to an infection. It is a lifethreatening medical emergency.
- Without timely treatment, sepsis can rapidly lead to tissue damage, organ failure, and death.

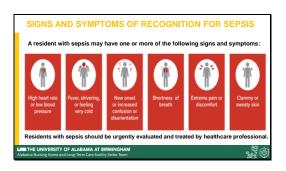


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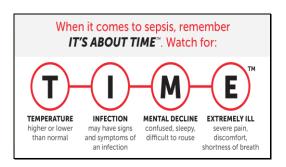
### Slide 158





### 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 THE UNIVERSITY OF ALABAMA AT BIBMINGRAM

### Slide 161



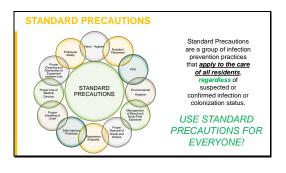
### Slide 162

CONTROL STRATEGIES

BASIC INFECTION PREVENTION 8	CONTROL STRATEGIES
<ul> <li>Standard Precautions</li> <li>Hand Hygiene</li> <li>Proper Specimen Collection</li> <li>Use Infection Prevention Strategies</li> </ul>	INFECTION PREVENTION
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Slide 164

STANDARD PRECAUTIONS



HAND HYGIENE	
Germs are primarily spread through the It Therefore, hand hygiene remains the #1 way the Hand hygiene includes:  Hand sanitizing with an alcohol-based hand Hand washing with soap and water	to prevent the spread of infection.
COUNT RANGE	
LMB THE UNIVERSITY OF ALABAMA AT BIRMINGHAM Alabama Nursing Home and Long-Term Care Facility Strike Team	3. C



### Slide 170





Slide 172	PROPER URINE SPECIMEN COLLECTION	
Slide 173	URINE SPECIMEN COLLECTION SAMPLES  Do	
Slide 174	UTI PREVENTION IN LONG-TERM CARE FACILITIES	

### 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 guips of water every 30 minutes between the hours of 8 am to 4pm (averages to approximately 64 oz))
  Offer scheduled toleling 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).

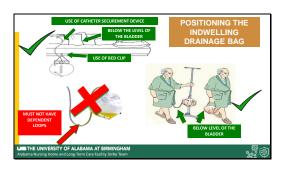


### Slide 176



### Enhanced Barrier Precautions Applies to all residents in Skilled Nursing Facilities with any of the following: Infection or colonization with an MDRO when Contact Precautions do not otherwise apply Wounds and/or indwelling medical devices (e.g., central line, urinary catheter, feeding tube, tracheostomy/verillator) regardless of MDRO colonization status PPE used for these situations during high-contact resident care activities: Dressing Bathing/Showering Transferring Providing hygiene Changing Linens Changing Linens Changing Linens Changing these or use: central line, urinary catheter, feeding tube, tracheostomy/verillator Wound care: any skin opening requiring a dressing

### Slide 179



### Slide 180

### 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

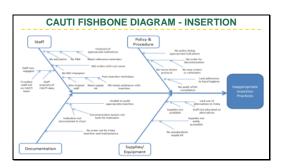
\*All recommendations in HICPAC guidelines at: http://www.cdc.gov/hicpac/caudi/000\_caudi.ht

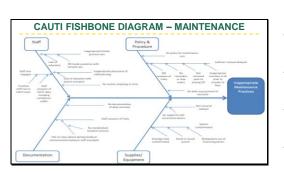
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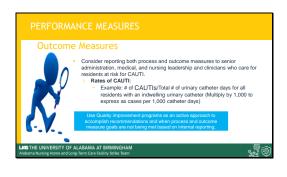
### Slide 182





### PERFORMANCE MEASURES Process Measures \*\*Consider reporting both process and outcome measures to senior administration, marked, and muring leadership and definicians who care for residents at risk for CAUTI, and an insuring leadership and definicians who care for residents at risk for CAUTI, and the complete of the

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L.E. Nicole, T. Y. (2000). Uninary Tract Infection in Long-Term Care Facility Residents. Clinical Infectious Diseases, 757-761.

Nelson, S., & Plynn, L. (2015). Relationship between missed care and urinary tract infections in nursing homes. Geriatric Nursing, 126-130.

 McMaughan, e. a. (2016). Impact of a decision-making aid for suspected urinary tract infections on antibiotic overuse in nursing hor teriplatics. 16:81.

RESOURCES

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

### Slide 189

### RESOURCES (CONTINUATION)

https://infectioncontrolma.org/docs/Loeb-and-Revised-McGeer-Criteria.pdf

 $https://www.ahrq.gov/sites/default/files/wysiwyg/nhguide/4\_TK3\_T4-Letter\_to\_Prescribing\_Clinicians.pdf$ 

https://www.pharmacy.umaryland.edu/media/SOP/www.pharmacy.umaryland.edu/centers/lamy/antimicrobial-stewardship/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: <a href="https://www.youtube.com/watch?v=cViNneQbPyA">https://www.youtube.com/watch?v=cViNneQbPyA</a>

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 (Iww.com)

Management of Sepsis and Septic Shock | Guidelines | JAMA | JAMA Network

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



### Slide 191



