SCHOOL OF PUBLIC HEALTH



Presented by the: Alabama Regional Center for Infection Prevention and Control Training and Technical Assistance & The Alabama Nursing Home and Long-Term Care Facility Strike Team

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WELCOME TO THE

JEFFERSON COUNTY MINI INFECTION PREVENTION BOOTCAMP FOR NURSING HOMES AND LONG-RSING HOMES AND TERM CARE FACILITIE

APRIL 3, 2024

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



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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

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Meet the UAB LTC Strike Team

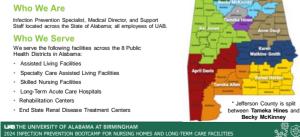
Who We Are

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



Primary Activities



ADPH/LTC Strike Team Partnership

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ADPH's Bureau of Communicable Disease - Infectious Diseases & Outbreaks Division

Disease suveillance/reporting
 Infectious disease outbreak investigations
 Work with facilities to implement plans to reduce
 the occurrence of infectious diseases
 Provide technical experiese consultation, and
 assistance (may ask I/IC Strike Team IP
 Specialist to dire outbreak I/CAR)
 Education

Primary POC: Your District Investigator https://www.alabamapublichealth.gov/infectiousdisea ses/investigators.html

Preventative ICAR Consultations (COVID or general) In-service training on IPC topics N-95 Fit testing for employees COVID-19 Line List Review and Outreach

LTC Strike Team

Primary POC: Infection Prevention Specialist who serve your county https://sites.uab.edu/ltcstriketeam/about/leade rship-and-staffing/

2020

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Free HEPA Air Purifiers Available



Mini-Regional Infection Prevention Bootcamps for LTC Facilities

- * April 11, 2024 in Etowah County
- * April 24, 2024 in Franklin County
- * April 26, 2024 in Mobile County

https://sites.uab.edu/ltcstriketeam



Coming to a County near you!

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Learn More About the Alabama Nursing Home

and Long-Term Care Facility Strike Team



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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



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Thank You to Our Co-Sponsors



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

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Housekeeping

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

CEUs approved for this bootcamp:

Nursing: The Deep South Center for OH&S is an approved provider of continuing education units for nurses by the AL Board of Nursing (Provider ABNPO420 Expiration Date 12/16/2026) and has awarded this program 3.6 ABN, 3.0 SW, J3 CEU's.

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2020

Nursing Home Administrator: The Board of Examiners of Nursing Home Administrators has reviewed and approved the seminar for continuing education credit for licensed nursing home administrators in the State of Alabama for **3.5 hours**. The University of Alabama at Briningham ALABAMA NURSING HOME & LONG TERM CARE FACILITY STRIKE TEAM



April 3, 2024

INFECTION SURVEILLANCE IN LONG-TERM CARE FACILITIES



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OBJECTIVES



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ANTIBIOTIC STEWARDSHIP IN NURSING HOMES

 4.1 million Americans are admitted to or reside in nursing homes during a year
 Up To 70% of nursing home residents received antibiotics during a year
 Up to 75% of antibiotics are prescribed incorrectly
 CDC Recommends 7 CORE ELEMENTS for antibiotic stewardship in nursing homes.

Your facility has an antibiotic stewardship program in place.

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Side Effects of Antibiotics



TRACKING AND REPORTING ANTIBIOTIC USE AND OUTCOMES

Process measures: Tracking how and why antibiotics are prescribed

Antibiotic use measures: Tracking how often and how many antibiotics are prescribed

Antibiotic outcome measures: Tracking the adverse outcomes and costs from antibiotics

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Surveillance Criteria for LTC Facilities

Clinical criteria are meant to assist with making informed decisions on individual residents when care is needed.
 Surveillance criteria are used to count true case events and to estimate the actual incidence/prevalence of disease conditions.

Loeb, McGeer and NHSN Criteria

Loeb Criteria are designed for Clinical Use

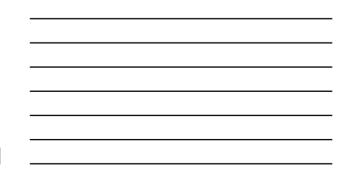
- Establish minimum criteria that should be present before initiating antibiotics
- *Useful for guiding patient care and clinical practice
- McGeer and NHSN Criteria are designed for Surveillance *Surveillance definitions are
- Surveillance definitions are highly specific for benchmarking across facilities
- Revised McGeer criteria often applied retrospectively to review and count cases
 Net von useful for diagnosis or
- Not very useful for diagnosis or necessity of treatment.

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Applying the Loeb Criteria



Urinary Tract Infection	Minimum Criteria for Collecting Urine starting Antibiotic Therapy
Resident without urinary catheter	Either one of the following criteria: • Acute dysuria (discomfort, pain, burning) OR • Temp >100° F or 2.4° F 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
LINE THE UNIVERSITY OF ALABAN	A AT BIRMINGHAM



Urinary Tract Infection	Minimum Criteria for Collecting Urine starting Antibiotic Therapy
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
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Costovertebral angle tenderness



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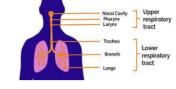
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Please Note



Respiratory Tract Infections

- Common cold or pharyngitis
- Influenza-like illness
- Pneumonia
- Bronchitis or Tracheobronchitis



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Temp 102°F	One of the following: Productive	Cough, Respiratory rate >25/minute
Temp 100°F or 2.4°F above baseline	Cough and one of the following c Pulse >100 beat/minute Rigors	riteria: Delirium (disorientation, agitation, hallucinations) Respiratory rate >25 breaths/minute
Afebrile with COPD and >65 YOA	Both of the following: • New or increased cough • Purulent sputum production	
Afebrile without COPD	All of the following: • New Cough • Purulent sputum production • At least one of the following: breaths/minute	Delirium and/or Respiratory rate >25
With new infiltrate on Chest X-Ray consistent with Pneumonia	At least one of the following: • Productive cough • Respiratory rate > 25 breaths/n • Temp > 100°F or 2.4°F above b	

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Cellulites, Skin Tissue, or Wound Infection

- Pus at wound, skin or soft tissue site
- · Heat (warmth) at affected site
- Swelling at affected site Tenderness or pain at affected
- site
- Serous drainage at the affected site (clear to yellow)
- Fever
- · Acute change in mental status
- Acute functional decline LISS THE UNIVERSITY OF ALABAMA AT BIRMINGHAM 2024 INFECTION PREVENTION BOOTCAMP FOR NURSING HOMES AND LONG-TERM CARE FACILITIES



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Scabies Maculopapular Rash(flat and raised parts) Itching Rash



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I HOMES AND LONG-TERM CARE FACILITIES

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Oral Candidiasis

 Raised white patches on inflamed oral mucosa



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2024 INFECTION PR

Conjunctivitis

- Pus from one or both eyes for > 24 hours
- New or increased conjunctival erythema (redness)
- may cause itching and/or pain

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ING HOMES AND LONG-TERM CARE FACILITIE

2024 INFECTION PR

Gastroenteritis

- Diarrhea with ≥ 3 liquid or watery stools above what is normal for the resident within a 24 hour period.
- Vomiting <u>></u> 2 episodes in 24 hour period
- · Abdominal Pain/tenderness



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Fever where the origin is UNKNOWN





Documentation

- Documentation is extremely important.
- The IPN must follow very specific criteria to decide if an infection was acquired at your facility.
- Bedside caregivers role is extremely important.

	ITY OF ALABAMA AT BIRMINGHAM EVENTION BOOTCAMP FOR NURSING HOMES AND LONG-TERM CARE FACILITIES		
McGee	er Surveillance Criteria		
619	To meet the criteria for definitive infection, more diagnostic information (lab results) are necessary.		
	Surveillance criteria are not intended for informing antibiotic initiation because they depend on information that might not be available when that decision must be made.		
	ITY OF ALABAMA AT BIRMINGHAM EVENTION BOOTCAMP FOR NURSING HOMES AND LONG-TERM CARE FACILITIES	*** ***	

NHSN Surveillance Criteria

- NHSN criteria are used for active, resident-based, prospective surveillance of events.
 - · Criteria might be based on lab results alone or include specific
 - Orienta implifute based on table to resolve anote of include specific signs/symptoms.
 Criteria are specifically designed to remove subjectivity and ensure accurate, reproducible & comparable surveillance data for a facility over time and across facilities.
 - Provides a way for facilities to benchmark infection rates with other US facilities.
 - NHSN criteria are not intended for clinical decision making.

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Hand Hygiene



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Source Control



UTI risk increase with age

- More than 1/3 of infections in Long term care facilities are UTI's
- More than 10% of women over 65 have a UTI each year.
- "L" [] A

experience UTIs as they age

Men also tend to

 This percentage increases to 30% in women over 85.



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How do you prevent UTI's in Seniors?

- Women should always wipe from front to back. This moves bacteria away from the urethra.
- · Avoid urinary catheter usage. If resident must have a urinary catheter - insert catheter using the cleanest possible environmental and following aseptic technique.
- · Make sure seniors drink plenty of water to help flush out bacteria from the urethra.
- Avoid use of adult diapers change regularly
- Avoid Constipation
- Offer toileting frequently

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Look Before you Flush

The color of your urine can tell you if you are dehydrated

• Remember if a resident is feeling thirsty they are already dehydrated.

MES AND LONG-TERM CARE FACILITIES





Appropriate Collecting a Urine

Residents with a Urinary Catheter

Perform hand hygiene and don gloves. Occlude the catheter tubing a minimum of three inches below the collection port. When urine is visible under the sampling port - scrub the port with a disinfectant wipe.

Use aseptic technique to collect the specimen using a facility approved collection device.

LIFE THE UNIVERSITY OF ALABAMA AT BIRMING 2024 INFECTION PREVENTION BOOTCAMP FOR NURS

ne Specimen	ĺ
Have bed-ridden resident void into a clean bedpan or clean urinal.	
Ambulatory resident void into a clean specimen collection hat.	
Perform hand hygiene, don gloves and empty 120 cc of urine into a sterile container.	
Label appropriately and refrigerate if unable to send to lab immediately.	
OMES AND LONG-TERM CARE FACILITIES	202 202 202 202 202 202 202 202 202 202

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You are all part of a team to keep your residents safe and healthy!

- Hand Hygiene
- Observe your resident
- Document Document Document
- Report changes





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ALABAMA NURSING HOME & LONG TERM CARE FACILITY STRIKE TEAM



Long Term Care Facility Infection Prevention Mini-Bootcamp

ENVIRONMENTAL HYGIENE IN LTC WITH LIMITED RESOURCES APRIL 3, 2024 \$ 200

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Objectives

- Identify the role of preventing HAIs through environmental surface disinfection
 Identify ways to interrupt the Chain of Infection
 Define cleaning, contact time, low level disinfection, and the Spaulding Scheme and its relation to disinfection are important in the long-term care facility setting
 Describe Standard precautions and indications on when it is utilized
 List potential modes of infection transmission within LTC settings

- .
- List high touch surfaces in the LTC environment List important steps when performing cleaning and disinfection Discuss sequence and pattern for cleaning and disinfection of resident rooms Describe steps to clean and disinfect reusable equipment Describe the frequency the cleaning and disinfection should occur. Explain the importance of staff performing demonstrated competency List ways to perform continuous quality improvement
- .

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

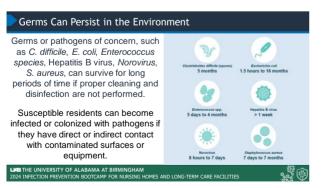
CHAIN OF INFECTION TRANSMISSION

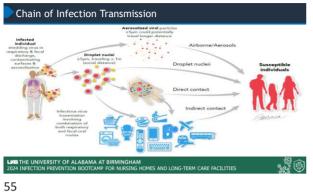
 Where are germs?
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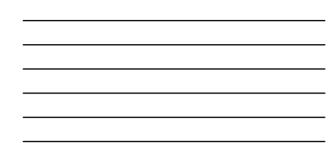
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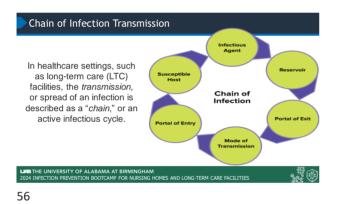


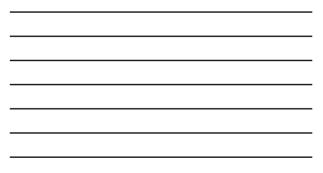


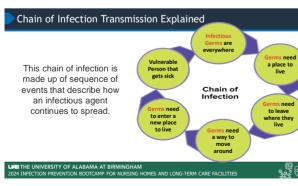




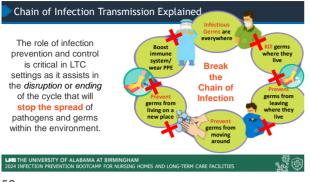












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Break the Chain of the Infection Cycle

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 rubHand washing with soap and water



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BASIC CONCEPTS OF **CLEANING AND DISINFECTION** IN LTC SETTINGS

Core Components of Environmental Cleaning and Disinfection in Hospitals



Importance of Cleaning and Disinfection Contaminated surfaces alone are not directly associated with transmission of infections to either residents or staff.

The organisms from contaminated surfaces are spread through hand contact with the surfaces.

Cleaning and disinfection environmental surfaces is fundamental in reducing the potential to contribute to the incidence of healthcareassociated infections.

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- Fomites
- Fomites are inanimate objects that are most likely to transfer the pathogens deposited by the infected host into a susceptible host.
- Examples of fomites are door handles, faucet handles, and bedside tables.
- Examples of diseases caused by fomite transmission are the common cold, influenza, Meningitis, and COVID-19

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Importance of Cleaning and Disinfection Housekeeping surfaces require regular cleaning and removal of soil and dust.

- Dry conditions favor the persistence of gram-positive cocci in dust and on surfaces.
- Moist, soiled environments favor the growth and persistence of gram-negative bacilli.
- Fungi are also present on dust and grow in moist, fibrous material.

Environmental Surfaces

In the long-term care facility setting, environmental surfaces refer to:

- · Surfaces of resident care equipment.
- Housekeeping surfaces, which are divided into two categories:
 - Surfaces with minimal hand contact (e.g., floors, ceilings, and windowsills).
 - Surfaces with frequent hand contact, also known as high-touch surfaces (e.g., frequently touched areas such as: doorknobs, bedrails, and light switches

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Characteristic	Selection guidance
Cleanable	Avoid items with hard-to-clean features (e.g., crevasses).
	Do not use carpet in patient care areas.
	Select material that can withstand repeated cleaning.
Easy to maintain and repair	Avoid materials that are prone to cracks, scratches, or chips, and quickly patch/ repair if they occur.
	Select materials that are durable or easy to repair.
Resistant to microbial growth	Avoid materials that hold moisture, such as wood or cloth, because these facilitate microbial growth.
	Select metals and hard plastics.
Non <mark>porous</mark>	Avoid items with porous surfaces, such as cotton, wood and nylon.
	Avoid porous plastics, such as polypropylene, in patient care areas.
Seamless	Avoid items with seams.
	Avoid upholstered furniture in patient care areas.



Basic Infection Control Concepts in Cleaning

- Cleaning is not the same as disinfection or sanitization. Cleaning should occur <u>before</u> disinfecting or sanitizing surfaces.
- . Cleaning is defined as the physical removal of all foreign material from objects
- · This may be achieved by using surfactants, detergents, soaps, enzymatic products, or mechanical action of washing or scrubbing the object.



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Basic Infection Control Concepts in Disinfection

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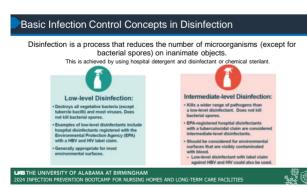
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- The Spaulding Classification System is the strategy of disinfection of inanimate objects and surfaces based on the degree of risk involved in their use.
- Per the Spaulding Classification System, environmental surfaces are considered a non-critical risk because they only contact intact skin.
- Non-critical resident equipment and environmental surfaces should be cleaned followed by either low- or intermediate-level disinfection.

assification of Objects	Application	Action Required
Critical	Entry or penetration into sterile tissue, cavity or bloodstream	Sterilization
Semi-critical	Contact with mucous membranes, or non-intact skin	Hgh-level Disinfection
Non-critical	Contact with intact skin or environmental surfaces	Low or Intermediate- level Disinfection





Disinfectant Selection

- Decisions about product selection should be made in consultation with environmenta services staff.
- Select and use disinfectants that are EPA-registered and labeled for use in healthcare settings.
 Typically have "hospital-
 - Typically have hospitalgrade disinfectant" or "hospital disinfectant" on the label.
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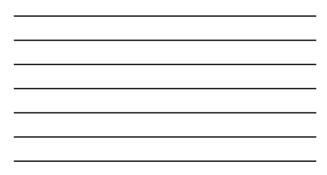
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LIPE THE UNIVERSITY OF 2024 INFECTION PREVENTION



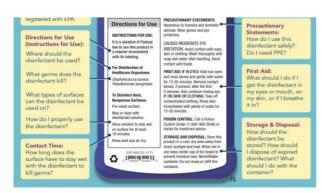


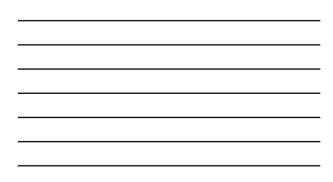






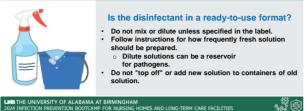
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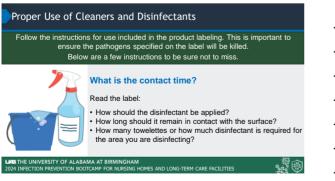
Proper Use of Cleaners and Disinfectants

Follow the instructions for use included in the product labeling. This is important to ensure the pathogens specified on the label will be killed. Below are a few instructions to be sure not to miss



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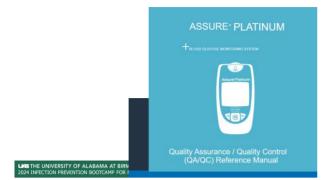






Follow the instructions for use included in the product ensure the pathogens specified on the lab Below are a few instructions to be sure	el will be killed.
Is the disinfectant compatible with the surface on which it will be used?	2
Ensure staff know which disinfectants are intended to be used on which surfaces and under which circumstances.	
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CLEANING AND DISINFECTION REVIEW WITH RESIDENT EQUIPMENT



Example of Reviewing the Instructions for Use

(Per the Instructions for Use)

To reduce the chance of infection:

Before performing a blood glucose test, observe the following safety precautions:

- All components that contact blood samples should be treated as biohazards capable of transmitting viral diseases between patients and healthcare professionals.
- A new pair of clean gloves should be worn by the user before testing each patient.
- Wash hands thoroughly with soap and water before putting on a new pair of gloves and performing the next patient test.
- Use only an auto-disabling, single-use lancing device for each patient.
- The meter should be cleaned and disinfected after use on each patient.

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Reviewing the Instructions for Use

- The meter should be cleaned and disinfected after use on each patient.
 The cleaning procedure is needed to clean dirt, blood and other bodily fluids off the exterior of the meter <u>before</u> performing the disinfecting procedure. The disinfecting procedure is needed to prevent the transmission of blood-borne pathogens.
- Always wear the appropriate protective gear, including disposable gloves.
 Select a wipe from the table below and carefully review the manufacturer's
- instructions.
 Clean and disinfect the meter following step-by-step instructions in this QA/QC Reference Manual. Use caution as to not allow moisture to enter the test strip port, data port or battery compartment, as it may damage the meter.
- ARKRAY has tested and validated the durability and functionality of the Assure Platinum meter with the most used EPA-registered wipes. Our testing confirmed the wipes listed below will not damage the functionality or performance of the meter through 3,650 cleaning and disinfecting cycles.

Reviewing the Instructions for Use

MIFU LISTED ACCEPTABLE DISINFECTANTS

Manufacturer	Disinfectant Brand Name	EPA#
Clorox® Professional	Clorox® Healthcare Bleach Germicidal Wipes	67619-12
Products Company	Dispatch® Hospital Cleaner Disinfectant Towels with Bleach	56392-8
Professional Disposables International, Inc. (PDI)	Super Sani-Cloth® Germicidal Disposable Wipes	9480-4
Metrex® Research	CaviWipes™	46781-8

rk of PDI. Metrex and CaviWipes are tra irks or regis

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Reviewing the Instructions for Use

Additional options for cleaning and disinfecting the Assure Platinum meter. If you choose to follow Options 1 or 2 below, we recommend you create supporting documentation to justify your choice. Choosing a product not listed in the table above could shorten use life or affect performance of the Assure Platinum meter.

anoten use in so a large performance on the Assure Phantan meter. Option 1 • Obtain a commercially available EPA-registered disinfectant detergent or germicide wipe. A list of EPA registered disinfectants can be found at the following website: www.epa.gov/pesticide-registration/selected-epa-registered-disinfectants Carefully review the manufacturer's instructions.
 Remove wipe from the container and gently squeeze out excess liquid.

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Clean and disinfect the meter following step-by-step instructions listed below in this QA/QC Reference Manual.

Use caution as to not allow moisture to enter the test strip port, data port or battery compartment, as it may damage the meter.

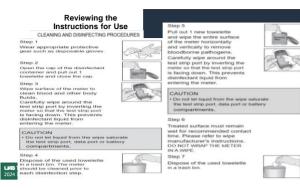
86

Reviewing the Instructions for Use



Option 2

- Clean the outside of the blood glucose meter with a lint-free cloth dampened with soapy water or isopropyl alcohol (70-80%).
- Disinfect the meter by diluting 1mL of household bleach (5-6% sodium hypochlorite solution) in 9mL water to achieve a 1:10 dilution.
- · Use a lint-free cloth dampened with the solution to thoroughly wipe down the meter.
- · Use caution as to not allow moisture to enter the test strip port, data port or battery compartment, as it may damage the meter.
- If you have any questions, please contact Technical Customer Service at 800.818.8877,
- option 5. LINE THE UNIVERSITY OF ALABAMA AT BIRMINGHAM 2024 INFECTION PREVENTION BOOTCAMP FOR NURSING HOMES AND LONG-TERM CARE FACILITIES an



Reviewing the Instructions for Use

CLEANING AND DISINFECTING FAQ

If a blood glucose meter is assigned to an individual resident and not shared, does it still need to be

cleaned and disinfected? To ensure compliance ARKRAY recommends that blood glucose meters be cleaned and disinfected after each use. Each meter in use is subject to QC testing per the facility's policy.

Can cleaning and disinfecting be accomplished with one wipe? Many wipes act as both a cleaner and disinfectant. If blood is visibly present on the meter, two wipes must be used; one wipe to clean and a second wipe to disinfect.

What will happen if a blood glucose meter is not cleaned and disinfected after use? Per the CMS F-Tag 880 guideline, surveyors may issue a citation if they observe no cleaning and disinfecting of meters after a blood glucose test as they would not follow CMS F-Tag 880.

It is important that an LTC facility establish a program for infection control and identify a key individual responsible for the overall program oversight. The program should include addressing the cleaning and disinfecting of blood gluccee meters along with other equipment and environmental surfaces. The program should involve establishing goals and priorities, planning, strategiv implementation, post-surveillance and more. Additionally, staff redes and responsibilities should be identified, and training should be documented. It is also important to provide education on infection control used and the program can be found in the CMS Infection Control Guidance Document.

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Reviewing the Instructions for Use

F-TAG 880 The CMS has implemented phase 2 of cleaning and disinfecting standards in the facility assessment code 483.70

INFECTION CONTROL REQUIREMENTS FOR BLOOD GLUCOSE MONITORING

What is the Centers for Medicare and Medicaid Services (CMS) F-Tag 880? F-Tag 880 is an interpretive guideline tor infection control programs in Long Term Care facilities. It is put in place to prevent, recognize and control the onset and spread of infection. F-Tag 880 is used for guidance by CMS Regional Offices and State Survey Agencies for [re-]centification and complaint investigations.

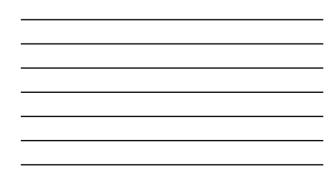
Does F-Tag 880 only apply to blood glucose meters? No, F-Tag 880 applies to all resident care equipment and environmental surfaces, including blood glucose meters.

Why is Cleaning and Disinfecting of blood glucose meters such a high priority? Blood glucose meters are at high risk of becoming contaminated with bloodborne pathogens such as Hepatitis B Virus (HBV), Hepatitis C Virus (HCV) and Human Immunodeficiency Virus (HIV). Transmission of these viruses from resident to resident has been documented due to contaminated blood glucose devices. According to the Centers for Disease Control and Prevention, cleaning and disinfecting of meters between resident use can prevent the transmission of these viruses through indirect contact.









Reviewing the Safety Data Sheet for the Disinfectant

	Reference and Incoments	Restoration 1	Appropriate engineering control	2
Medification			Engineering controls	General ventilation is adequate under normal conditions of use.
the sector.			Engineering controls	General versialuri la avegala a lubar ruma curvaturi a u use.
and there	New York Cart Contractor March			
te mana si detti hadar.				
due l'adec	KR ISH-D PELIN			
-	Term .			
(Restor Restor(s)	14814		Individual protection measures,	such as personal protective equipment
a Manufact	the last #2.00 little and on equipme.			
onwild as Phy Della	Contractivity of an		The Real Providence of the Pro	No special protective equipment required under normal use conditions.
or which as	Use and derivative an local new person and each weat and finding any disc any scientific physical devices. This was the product in a sparse incomplete to later devices.	ala di sena di secondo di secondo Secondo di secondo di se	Eye/face protection	If needed defer to facility protocol to avoid eye contact.
different and	Topological activipations.		Hand protection	
shatte again of the sets	a test attract.		Hand protection	No special protective equipment required under normal use
Contraction of the local	c			conditions. If needed defer to facility protocol to avoid skin contact.
			Skin and body protection	No special protective equipment required under normal use conditions. If needed defer to facility protocol for suitable protective clothing.
			Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or initiation is experienced, ventilation and evacuation may be required.
			Other protective equipment	None required under normal conditions of use.

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RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT FOR ENVIRONMENTAL CLEANING TASKS / CLEANING IN SPECIFIC AREAS

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USE PERSONAL PROTECTIVE EQUIPMENT



- Follow the cleaner and or disinfectant's instructions for use or the safety data sheets recommendations regarding PPE
- Use PPE based upon the anticipated tasks to be performed or based Standard Precautions upon anticipated exposures to
- upon anticipated exposures to blood and body fluids.Follow all posted transmissionbased precautions.
- LONG-TERM CARE FACILITIES

Type of cleaning task	Required personal protective equipment for cleaning staff
Routine cleaning (standard precautions)	None (unless spills or contamination risk-see below)
Terminal cleaning (standard precautions)	Reusable rubber gloves
Blood and body fluid spills and high contamination risk areas (e.g., cleaning bed of an incontinent patient, labor and delivery wards)	Gown and/or plastic apron Reusable rubber gloves
Droplet precautions (routine and terminal cleaning)	Face mask with either goggles or face shield Gown and/or plastic apron
Contact precautions (routine and terminal cleaning)	Reusable rubber gloves Face mask with either goggles or face shield Gown and/or plastic apron
Airborne precautions (routine and terminal cleaning)	Reusable rubber gloves Respirator (N95 or FPP2), fit tested
Preparation of disinfectant products and solutions	Reusable rubber gloves. According to specifications in SDS (manufacturer instructions)
	If SDS not available, then: Chemical-resistant gloves (e.g., nitrile) Gown and/or apron Face mask with either goggles or face shield

PROCESS FOR CLEANING AND DISINFECTION

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Process for Cleaning and Disinfection



Develop a standardized process to ensure that you are cleaning and disinfecting surfaces appropriately.

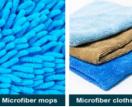
- Always work from the cleanest surfaces to the dirtiest surfaces.
- Work from top to bottom.
 Consider establishing a consistent process or pattern for cleaning and disinfecting surfaces in the room.
- · Wipe surfaces in a manner to prevent recontamination.
- HAM ING HOMES AND LONG-TERM CARE FACILITIES

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- · Change cleaning cloths frequently. Change microfiber mop heads after use in each room.
- use in each room. Environmental services carts should not enter resident rooms, and supplies brought into the room should be limited to the minimum necessary for that space.



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Tightan, A. N., Manidam, K., & Ma, M. J. (2015). Morelizer doths reduce the transfer of Clostifictum difficilespores to environmental acdets. *American-Journal of Indexing Conf.*, 437, 684-68. UMB THE UNIVERSITY OF ALABAMA AT BIRMINGHAM 2024 INFECTION PREVENTION BOOTCAMP FOR NURSING HOMES AND LONG-TERM CARE FACILITIES

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Using Cleaning Equipment Appropriately



Routine cleaning and disinfection for resident rooms: +High-touch surfaces are those most likely to be touched by residents and staff and therefore pose the highest risk for pathogen transmission. • Examples include bedralls, doorknobs, light switches, call buttons, bedside tables, remote controls and surfaces in the bathroom, particularly those around the toilet. +Horizontal surfaces with infrequent hand contact, like floors and window sills, should be cleaned: • On a regular basis (e.g., daily) • When spills occur, and • If the surfaces become visibly soiled • Walls, bildns, and window curtains should be cleaned when visibly soiled. Routine cleaning and disinfection for resident rooms

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Terminal Cleaning

Terminal cleaning (also referred to as "deep cleaning") of a room is performed when a resident has been discharged or transferred and the room is being prepared for use by another resident.

- · All high-touch surfaces should be cleaned and disinfected.
- · Horizontal surfaces with infrequent hand contact, like floors and windowsills, should also be cleaned and disinfected.
- · All linens, including sheets, towels, and privacy curtains, should be bagged and removed for laundering.

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Invasive procedure and treatment areas:

High-touch surfaces in rooms where invasive procedures are performed should be cleaned and disinfected after each procedure.

Non-invasive procedure and treatment areas: • High-touch surfaces in other common treatment areas (e.g., therapy gyms) where invasive procedures are not performed should be cleaned and disinfected:

- o When visibly solled. When visibly solled. At least daily. Immediately after use by residents colonized or infected with highly resistant organisms (e.g., C. difficile or carbapenem-resistant Enterobacteriaceae).
- High-touch surfaces in the facility's common areas (e.g., family room or lounge) should be cleaned
- and disinfected:
 When soiled.
 On a regular basis (e.g., daily).

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Breaking the Chain of Transmission in the Environment

A colonized or infected resident can contaminate environmental surfaces and noncritical equipment. Microorganisms from these contaminated environmental surfaces and noncritical equipment can be transferred to a susceptible resident in two ways:



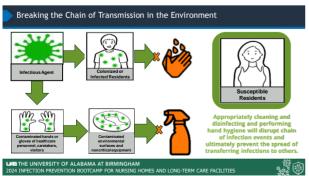
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 If the susceptible resident directly meets the contaminated surfaces. · If a healthcare personnel, caretaker, or

visitor meets the contaminated surfaces and then transfers the microorganisms to the susceptible resident.

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Cleaning Carpeting

- Harder to keep clean and cannot be reliably disinfected, especially after spills of blood or body fluids.
- Recommended practices:

 Minimize use in high-traffic zones within resident

 care areas or where spills are likely.
 - Vacuum on a regular basis with equipment designed to minimize dust dispersion.
 - Periodically deep clean using a method that minimizes production of aerosols and leaves little to no residue.
 - Promptly spot clean spills of blood or body fluids.



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Cleaning Upholstered Furnishings

- Pose challenges with cleaning and disinfection.
- · Recommended practices: $_{\odot}\,$ Minimize use in areas with increased potential for body substance contamination.
 - Maintain in good repair; promptly repair tears and holes.
 - o If furniture in a resident's room requires cleaning to remove visible soil or body substance contamination, promptly move that item to a maintenance area.



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The Policies & Procedures clearly define the terms like "cleaning" and "disinfection." It also identifies the following:

- Purpose
- Responsibility
- Procedures (to include instructions from the Manufacturer) Process
 - Including the supplies that are necessary for cleaning and disinfecting environmental surfaces
 - PPE needed

 - Process for exposure or spill
 Process when variations to procedure are to be performed

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nental Cleaning

Environ and Disinfection

At a minimum, your policy should address:

- the types of cleaning and disinfection products used in the facility, considering their label claims and compatibility with different surfaces
- surfaces frequency with which cleaning and disinfection of environmental surfaces in different locations in the facility should be performed. For example, immediately if surfaces are visibly soiled, or daily for high-touch surfaces in resident rooms the locations in the facility where carpeting and upholstered furnishings are and are not allowed
- allowed
- and the proper storage and maintenance of cleaning and disinfection products and equipment.

Environmental Clean and Disinfection	ing Restant
Template	Cancilla
Define the inflation Provention and Control (PC))	Constant A
Counting when in the summad of visible sail from sur- structuring with a surfactant or detergion and same. To of organisms an a surface and remove foreign materix	his elect is important to reduce the unitaries
Law level distribution minute the use of or appro- tempt balance tracks, and more visual-studies print interarchildenergy Visco, mitty. These approximations to Complex of the level distribution include height of Distributions approximation for the studiest to be approximated distribution is approximate to the animated	padle III Virus, or HEV, and Human of all-technic against backetial approxi- liar-bectamic regulation with the V and HIV value claim. Low-level
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Environmental surfaces can be a source of pathogen surfaces are not properly cleaned and doublected, pathogenetic to watche to and staff. Proper cleaning are secondary to break the share of pathology.	thoose a from the surface can be
Responsibility plefore arts in majorable for full	lowing this pulity procedure)
is contracting Processing Socials (FUE) or in	a and exercise when the extension

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Resources:

 CDC, Guidelines for Environmental Infection Control in Health-Care Facilities (2003): https://www.cdc.gov/infectioncontrol/pdf/guidelines/ remoterial-guidelinea es/envi

ronmental-guidelines.pdf •CDC, Guideline for Isolation Precautions (2007): http ww.cdc.gov/infectioncontrol/pdf/gui nes.pd tion-guidelines.pdf
 EPA, Selected Disinfectants:

https: //www.epa.gov/pesticide-registration/selected-

 OSHA, Bloodborne Pathogens Standard: pathogens/inde https://www.osha.gov/SLTC/

<u>x.html</u> •OSHA, Guidance for Cleaning Industry Worker Safety Considerations: https://www.osha.gov/SLTC/cleaningindustry/index.htm

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Housekeeping Cleaning Carts

 Housekeeper's carts commonly used to transport supplies throughout the facility can serve as a source of pathogen transmission if they are not regularly cleaned and disinfected.

 For example, in an outbreak of drugresistant Enterobacteriaceae at a healthcare, the organism was identified on an environmental services cart, suggesting a potential role in transmission.

•Carts should not enter resident rooms and should be cleaned and disinfected at least daily.

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Utility Room Maintenance

 Dedicate space to store cleaning and disinfection products and equipment.
 Maintain separation between clean and dirty equipment.

these areas and restock, as appropriate.

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Cleaning and disinfection schedules should include clean and dirty utility areas.
Designate staff to monitor supply levels in



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TRAINING, COMPETENCY, AND PERFORMANCE MONITORING

Training should be provided:

- Upon hire.
- · Annually.
- When new products are introduced.
- · When new policies and procedures are developed.
- · In response to deviations from recommended practices.

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Verify competency following each training.

Hands-on training and direct observation of practices are particularly important when assessing competency for environmental cleaning.

Maintain documentation that education and competency assessment were performed.

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Performance Monitoring

- · Performance monitoring and feedback ensure adherence to facility policies and procedures. • Frequency and locations of audits should be
- informed by your annual IPC risk assessment. More frequent monitoring may be performed
- on higher acuity units or the rooms of residents on Transmission-Based Precautions. • Results of performance monitoring should be documented and shared to reinforce adherence to
- recommended practices. Self-assessment checklists and signoff sheets can be helpful reminders, but these alone are not
- sufficient.

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Auditing

- · Methods for auditing cleaning and disinfection practices vary.
 There are pros and cons to each of these
- methods. Facilities could consider implementing more than one approach to performance monitoring.
- Visually inspecting the cleanliness of a room after cleaning and disinfection has been performed.
- Visual assessment, alone, is not sufficient to ensure that all surfaces have been properly cleaned and disinfected.
- Just because a surface appears clean does not mean that it was disinfected.



Methods for Assessment of Cleaning and Cleanliness

It is best practice to perform routine, standardized assessments of environmental cleaning (i.e., practices, level of cleanliness) in order to:

- ensure that environmental cleaning procedures are being performed according to best practices and facility policy
- use results to inform program improvement (e.g., training resource allocation)



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Direct Performance Observations

- Observe staff practices with the assistance of a checklist.
 - Confirm they have prepared and applied cleaners and disinfectants in accordance with facility polici and procedures.
 - Confirm they have addressed all required surfaces in the room.

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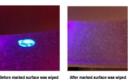
• Staff may modify their typical practices if they are aware they are being observed.



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Fluorescent Markers

- Apply fluorescent markers before cleaning and assess the markers using special lighting after cleaning.
- If the marker is still present after cleaning, it objectively indicates the surface was not adequately cleaned.
- This method would not identify deviations in preparation of cleaning and disinfection products or in how products were applied.



Methods for Assessing the Level of Cleanliness

•Adenosine triphosphate (ATP) bioluminescence assay systems measure residual organic matter, both microbial and nonmicrobial, that is left on a surface after cleaning.

•Provides objective quantitative results that can be used to track and document improvement in daily cleaning practices.

•Method would not identify deviations in preparation and use of cleaning and disinfection products.

•Method is unable to measure virus, bacteria, fungus or parasites.

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Bacterial Culture of Surface

 Not recommended for routine use; This method lacks a defined threshold or benchmark for determining the level or status of cleanliness (e.g., colony-forming units per surface area

•Environmental cultures--the only direct measurement of levels of microbial contamination after cleaning. In this process, cultures are taken (by swabbing or use of RODAC or contact agar plates) after an item is cleaned. Swabbing can indicate the presence of a specific bacteria on a surface. Contact agar plates can show the level of bacterial contamination on an area of a large, filat surface.



•May be useful for identifying source of outbreaks and/or environmental reservoirs – use only with the direction of ADPH

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Provide Performance Feedback

Results of monitoring should be documented and shared. •Additional information about options for evaluating environmental cleaning available on CDC website.

CDC Options for Evaluating Environmental Cleaning

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RESOURCES

Environmental Cleaning Procedures | Environmental Cleaning in RLS | HAI | CDC

*Nursing Home COVID-19 Infection Control Assessment and Response (ICAR) Tool Facilitator Guide, version 3.1 (cdc.gov)

- Environmental Cleaning in RLSs | HAI | CDC
- ARKRAY ASSURE PLATINUM REFERENCE MANUAL Pdf Download | ManualsLib

Super-Sani-Cloth-IFU-0821-UPDATE_05168539.pdf (pdihc.com)

SuperSaniCloth_EnglishFrench_LCan_.pdf (pdihc.com)

SDS-0020-00-English-REV-5-10.6.22_Super.pdf (pdihc.com)

CDC Options for Evaluating Environmental Cleaning

https://www.cdc.gov/infectioncontrol/pdf/guidelines/environmental-guidelines.pdf

https://www.osha.gov/SLTC/bloodbornepathogens/index.html

https://www.epa.gov/pesticide-registration/selected-epa-registered-disinfectants





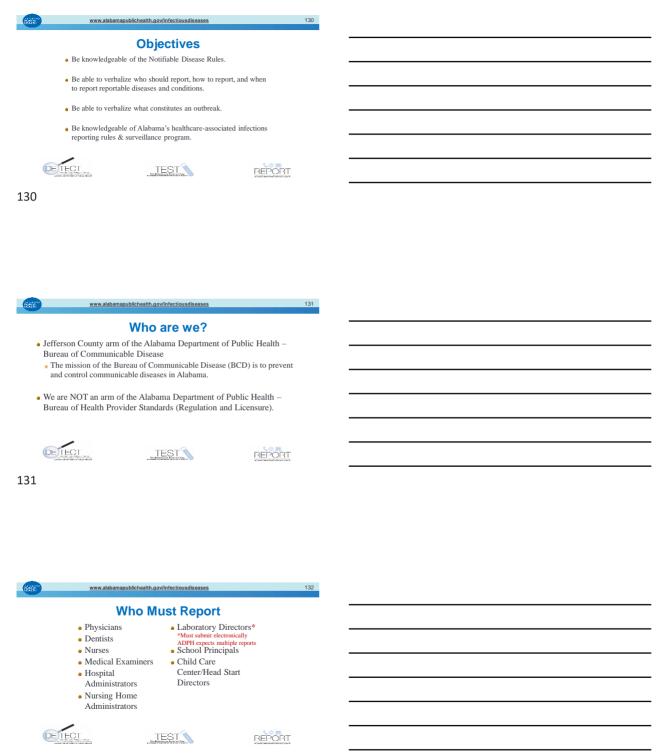
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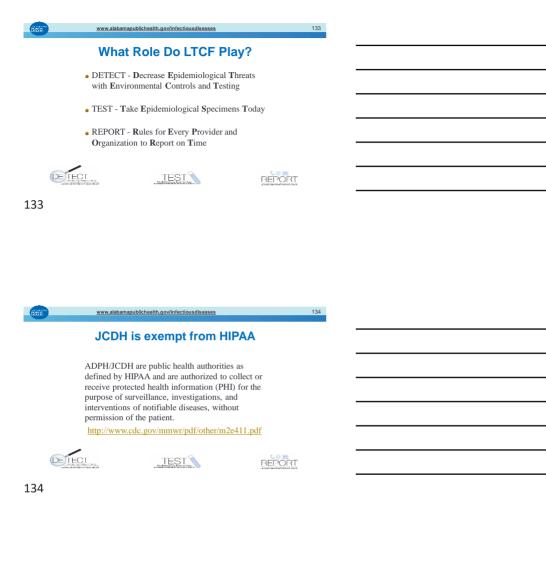
 Detect, Test, & Report Awareness Campaign Devon Sims, MPH, MBA
 Cases of Potential Public Health Importance – MDROs

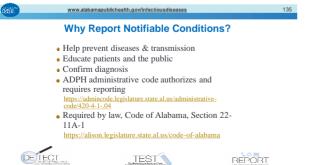
Cases of Potential Public Health Importance – MDROs LyTasha Crum, MPH

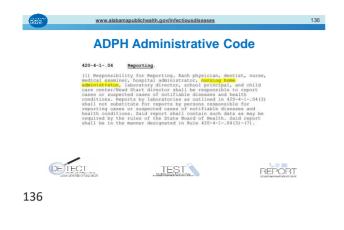
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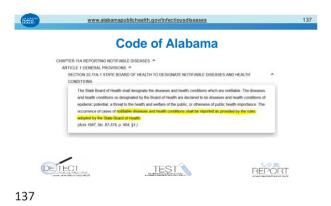


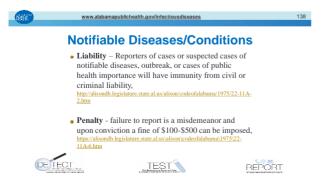




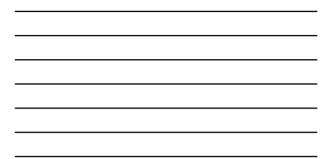






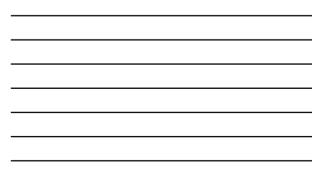




















Cases related to nuclear, biological,

REPORT

or chemical terroristic agents

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Poliomyelitis, paralytic

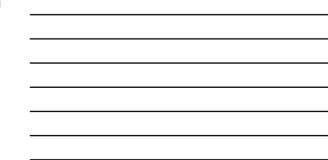
DETECT

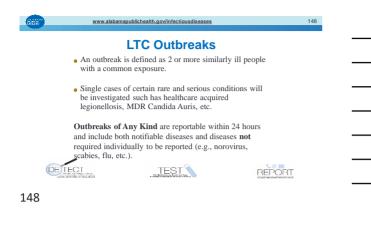
Severe Acute Respiratory Syndrome-

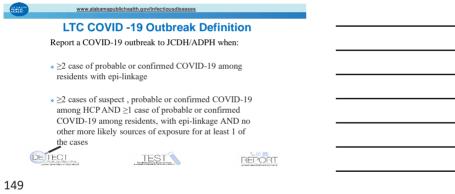
associated Coronavirus (SARS-CoV)



TEST











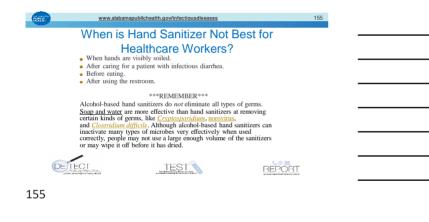










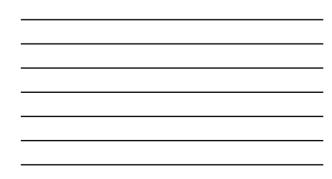


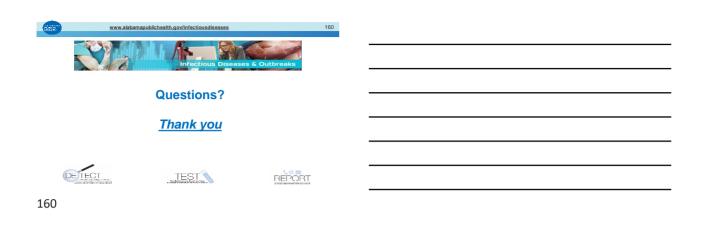














What are Multidrug-Resistant Organisms (MDROs)?





BACTERIA

MDRO is an Umbrella Term



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Who is at risk?

Hospital patients and long-term care facility residents, especially those who:

- Received complex medical care, including intensive care unit admission or having invasive devices
 Have recent antibiotic exposure
 Need help with activities of daily living such as toileting, bathing, and dressing
 Have severe or chronic wounds
 Were admitted to the same unit of a healthcare facility as a person with CRE, CRPA, or CRAB
 Anyone who had medical procedures or was admitted to a hospital outside the U.S. in the past 6 months

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Carbapenem-Resistant Organisms (CRO)

- CRE: Carbapenem-resistant Enterobacterales Escherichia coli (E.coli) and Klebsiella pneumoniae
- CRPA: Carbapenem-resistant Pseudomonas aeruginosa
- CRAB: Carbapenem-resistant Acinetobacter baumannii



Carbapenem-Resistant Enterobacterales (CRE)

Do not respond to common antibiotics

Spreads through direct or indirect contact







Can cause a variety of infections:
 BSI
 UTI
 SSI
 Pneumonia

• Uncommon in the U.S.



Spreads through direct or indirect contact



- Spreads through direct or indirect contact
- Can persist in the environment for a very long time

Carbapenemase-Producing Organisms (CPO)

- <u>CP-CRE</u>: Carbapenemase-Producing Carbapenem-resistant Enterobacterales
- <u>CP-CRPA</u>: Carbapenemase-Producing Carbapenem-resistant *Pseudomonas aeruginosa*
- <u>CP-CRAB</u>: Carbapenemase-Producing Carbapenem-resistant Acinetobacter baumanni



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Candida auris (C. auris)



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C. auris

 Mostly affects patients with severe underlying medical conditions

 Patients with invasive medical devices like breathing tubes, feeding tubes, catheters in a vein, or urinary catheters tend to be at increased risk for getting. *C auris* and developing an infection



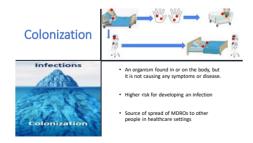
C. auris Control Measures

- Use gown and gloves to care for patients infected or colonized
- Place in private room/isolate from other patients
 Reinforce hand hygiene
- Use EPA disinfectant with claim for C. auris for routine and terminal cleaning
- Screen contacts to identify additional cases; use same IPC measures
- Communicate upon transfer/discharge
 Flag medical record if possible









Colonization Principles – Body Sites and MDROs

- MDROs can be found in many different locations both in and on the body
- Different MDROs colonize different body sites
- Examples:
 C. auris axilla, groin, nares, hands, toes, and other body sites
 CRE – digestive tract
 CRPA – respiratory and digestive tract, wounds
 CRAB – respiratory and digestive tract, skin, wounds

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Colonization Screening Guidance







Objectives

- Identify/List different Transmission-based Precautions
- Discuss Current Impact of MDROs in LTC Facilities
- Discuss why EBP are recommended to be used in nursing homes
- Describe Enhanced Barrier Precautions (EBP)
- Explain process for successful implementation of EBP
- Review of concerns when implementing EBP

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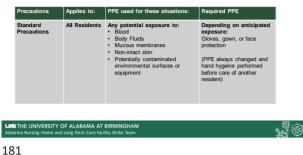
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Overview of Standard Precautions and Transmission Based Precautions

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Standard Precautions



Standard Precautions also include:





What PPE To Wear Based On Risk Of Exposure



Drawing blood? Wear Gloves

- Performing incontinence care, changing pad/diaper?
- Wear gloves and possibly a gown
 Collecting a respiratory specimen?
- N-95 respirator (if suspect COVID)
 Always wear a mask

Transmission Based Precautions

Transmission-based precautions are used in addition to Standard Precautions for specified patients. It is designed for the care of patients or residents known or suspected to be infected by epidemiologically important pathogens spread by airborne, droplet, or contact transmission. Other Possible TBP's CONTACT ST Contact Enteric Precautions . DROPLET C. difficile, Norovirus Special Respiratory Precautions

 COVID-19

 fat an plane before sum entry fut an pose before room only. **Contact/Droplet Precautions** . COVID-19 PPE is used to prevent the spread of transmissible infections. LIGS THE UNIVERSITY OF ALABAMA AT BIRMINGHAM 2010 184

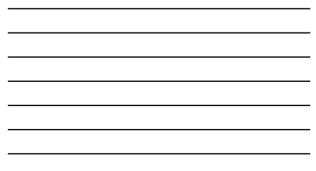
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 Airborne • Bristeater Bristeater • Ailk Room
 Droplet • Surgical • Ailk Room
 Droplet • Surgical • Ailk Room
 Droplet • Surgical • Bristeater • Bristeat

PPE is used to prevent the spread of transmissible infections.

Appendix A – CDC Guidelines for Isolation Precautions, Preventing Transmission of Infectious Agents in Healthcare Settings (update coming this year, hopefully)

Infection/Condition	Type of Precaution	Duration of Precaution	Precautions/Comments
Gastroenteritis - Norovirus	Standard + Contact		Minimal of 48 hours after resolution of symptoms
Scabies	Contact + Standard	Until 24 hours after initiation of treatment	
UTI	Standard		
Severe Acute Respiratory Syndrome (SARS)	Airborne Contact Droplet	10 days	Airborne deferred; Droplet if AIIR unavailable, etc.
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Why do we need additional Isolation Precautions?

ng implemented	Standard precautions no in accordance with guide	
annot be applied for ng-term colonizatio	Challenges with maintaining contact precautions in LTC setting	▲
esting of all resident ay be costly and is of recommended by DC	Lack of knowledge of who is colonized within the facility	<u>.</u>
olonization may solve and then pontaneously return	Persons can be colonized for extended periods of time	֍լթ

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MDROs Have Significant Impact in Nursing Homes

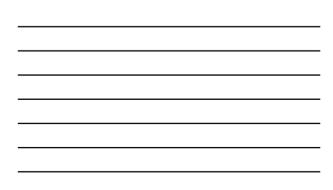
- Many nursing home residents are unknowingly colonized with an MDRO, especially residents with risk factors like indwelling medical devices or wounds
- MDRO transmission is common in skilled nursing facilities, contributing to significant morbidity and mortality for residents and increased costs for the health care system.
- Residents who have an MDRO can develop serious infections, remain colonized for long time periods, and spread MDROs to others through Healthcare staff contaminated hands and clothing and improperly disinfected surfaces.

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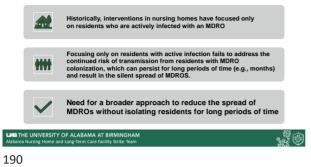
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The Large Burden of MDROs in Nursing Homes

FACILITY TYPE	DOCUMENTED MDRO	ACTUAL MDRO
Nursing Homes	17%	58%
	<u>†</u> <u>†</u> †††††††††	†††††††† ††††
Ventilator- Capable Nursing	20%	76%
Homes	<u>††</u> ††††††††	<u>ŧŧŧŧŧŧ</u> ŧ
McKinnell JA et al, Clin Infect D	is. 2019; 69(9):1566-1573	
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The Need for Enhanced Barrier Precautions (EBP)



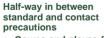
Need for Enhanced Barrier Precautions (EBP)

- Facilities needed an approach to gown/glove use that was less restrictive than Contact Precautions and could be sustained for a longer period
- EBP also addresses care of residents at risk for acquiring colonization
- EBP may be applied (when Contact Precautions do not otherwise apply) to residents with any of the following:
 - Wounds or indwelling medical devices, regardless of MDRO colonization status
 - Infection or colonization with an MDRO

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Enhanced Barrier Precautions



 Gowns and gloves for high-contact care activities

 Residents can leave room

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- $\quad \Longleftrightarrow \quad$
- Only applicable to longterm care

What does Enhanced Barrier Precautions Involve?

EBP are used in conjunction with standard precautions and expand the use of PPE to donning of gown and gloves during high-contact resident care activities that provide opportunities for transfer of MDROs to staff hands and clothing.

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Account Accoun	
EBP Are Indicated For Residents With Any Of The Following:	
• Infection or colonization with a CDC-targeted MDRO when Contact Precautions do not otherwise apply; or	
• Wounds and/or indwelling medical devices even if the resident is not known to be infected or colonized with a MDRO.	
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Enhanced Barrier Precautions

Additional epidemiologically important MDROs may include, but are not limited to;

- Methicillin-resistant Staphylococcus aureus (MRSA),
- ESBL-producing Enterobacteriaceae, Vancomycin-resistant Enterococci (VRE),
- Multidrug-resistant Pseudomonas aeruginosa, and
- Drug-resistant Streptococcus pneumoniae.

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Wounds

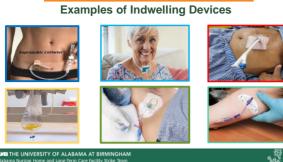
- Wounds generally include chronic wounds, not shorter-lasting wounds, such as skin breaks or skin tears covered with an adhesive bandage (e.g., Band-Aid®) or similar dressing.
- Examples of chronic wounds include, but are not limited to, pressure ulcers, diabetic foot ulcers, unhealed surgical wounds, and venous stasis ulcers.

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Indwelling Medical Devices

 Examples include central lines, urinary catheters, feeding tubes, and tracheostomies. A peripheral intravenous line (not a peripherally inserted central catheter) is not considered an indwelling medical device for the purpose of EBP.





Facility Discretion

 Facilities have discretion in using EBP for residents who do not have a chronic wound or indwelling medical device and are infected or colonized with an MDRO that is not currently targeted by CDC.

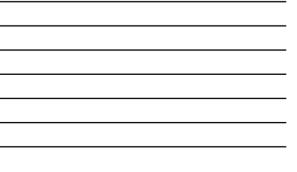


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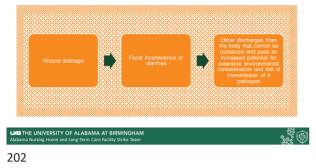
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Implement Contact vs Enhanced Barrier Precautions

Residents Status	Contact	EBP
Infected or colonized with any MDRO and has secretions or excretions that are unable to be covered or contained.	YES	NO
Infected or colonized with a CDC-targeted MDRO without a wound, indwelling medical device or secretions or excretions that are unable to be covered or contained.	NO	YES
Infected or colonized with a non-CDC targeted MDRO without a wound, indwelling medical device, or secretions or excretions that are unable to be covered or contained	NO	At facility discretion
Has a wound or indwelling medical device, and secretions or excretions that are unable to be covered or contained and are not known to be infected or colonized with any MDRO.	YES	YES
Has a wound or indwelling medical device, without secretions or excretions that are unable to be covered or contained and are not known to be infected or colonized with any MDRO.	NO	YES
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Examples of Secretions/Excretions



Which High Contact Resident Activities Require EBP?

- Dressing
 Bathing/Showering
 Transferring
 Providing hygiene
 Changing Linens

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

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High-Contact Resident Care Activities



What is the Duration of EBP?



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Contact Precautions

MUST STILL BE IMPLEMENTED FOR

- Acute diarrhea
 Draining wounds or other sites of secretions or excretions that are unable to be covered or contained
- Contained
 On units or in facilities where, despite attempts to control the spread of the MDRO, ongoing transmission is occurring
 Any other infection listed in Appendix A that requires contact precautions (Norovirus, *C.diff*, Scabies

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Differences In Contact Precautions & EBP

Contact Precautions	Enhanced Barrier Precau
 Resident stays in room Gowns & gloves for every room entry Consider how to designate when specific disinfectants need to be used and when soap and water is needed (i.e., <i>C. difficile</i>) Dedicated Equipment 	 Resident can leave roo Gowns & gloves for hi contact care Consider how to desig when specific disinfec needed (i.e., <i>C. auris</i>)
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EBP allows high-risk SNF residents to participate in activities outside of the room under specified conditions.

Facility?

EBP will help to reduce the spread of MDROs



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Process For Implementation of EBP in Your Facility

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Example EBP Implementation Timeline

NAME OF FACILITY 10/5/23 10/6/23 10/3/23 10/9/23 10/10/23 10/11/23 10/15/23 AUDITING OF PROCESS IMPLEMENT EBP PROCESS IMPLEMENTED FACILITY-WIDE PLANNING NOTIFY NOTIFY FAMILY/VISITORS /RESIDENTS SIGNAGE Review EBP Po Review of Training Vid why As LISE THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

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Implementation Approaches

- The application of EBP to routine care of residents with wounds or indwelling medical devices requires that staff participate in initial and ongoing training on the facility's expectations about hand hygiene and gown and glove use, along with proof of competency regarding appropriate use and donning and doffing technique for PPE.
- Facilities should develop a method to identify residents with wounds or indwelling medical devices
- Facilities with rooms containing multiple residents should provide staff with training and resources to ensure that they change their gown and gloves and perform hand hygiene in between care of residents in the same room.

Help Keep Our Residents Safe

- A letter for staff from CDC that addresses:

- Why EBP are being implemented?
- What are EBP?
- How to know when to use EBP?
- CDC has created a comprehensive, free, online training course for addressing development and implementation of an infection control program

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Provide Education to Residents and Visitors



Letter to Nursing Home Residents, Families, Friends and Volunteers Explanation of EBP Signage

Enhanced Barrier Precautions

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- Hand Hygiene
- Glove and Gown Usage

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Implementation of Enhanced Barrier Precautions

- · Facilities have discretion on how to communicate to staff which residents require the use of EBP.
- CMS supports facilities in using creative (e.g., subtle) ways to alert staff when EBP use is necessary to help maintain a home-like environment, if staff are aware of which residents require the use of EBP prior to providing high-contact care activities.
- Make PPE, including gowns and gloves easily available.
- Ensure access to alcohol-based hand rub in every resident room (ideally both inside and outside of the room).
- Position a trash can inside the resident room and near the exit for discarding PPE after removal, prior to exit of the room or before providing care for another resident in the same room.

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Personal Protective Equipment

 PPE, including gowns and gloves, should be available for easy access.







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Hand Hygiene

- Ensure access to alcoholbased hand rub at every resident room
- Ideally located both inside and outside of room
- Makes performing hand hygiene easy!



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Trash can

 Position a trash can inside resident room and near exit for discarding PPE

• Large enough trash can to hold discarded PPE



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Cleaning and Disinfection of Shared Equipment



- Ensure access to cleaning supplies/wipes
- Educated Housekeeping and Nursing on Contact Time For disinfectant

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Auditing Practices and Education

- Incorporate periodic monitoring and assessment of adherence to determine need for additional training and education
- Set a targeted number of observations and designate what you will monitor and who will do the monitoring

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Concerns For Implementing EBP

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What is downside/upside of Implementing EBP?

Implementation of routine EBP would incur costs including:

- PPE (gowns/gloves)
- Training
 Staff time to don and doff PPE
- Stan time to don an
 Signage materials.
- Signage materials.
 Centers for Medicaid and Medicare and private insurers/commercial plans may need to consider the implementation and cost of EBP in payment models.
- Potential savings would include:

 Avoidance of infections and hospitalizations
 - An economic analysis of a randomized controlled trial involving the use of EBP in a bundle to prevent catheter-associated urinary tract infections estimated net savings of approximately \$15,000 per year per facility.
 - The savings would accrue to payers and not to skilled nursing facilities.

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Which Residents Should Be Placed Into EBP?

Residents:

 Infection or colonization with an MDRO when Contact Precautions does not apply

 With wounds and/or indwelling medical devices

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The safest practice would be to wear a gown and gloves for any care (e.g., dressing changes) or use (e.g., injecting or infusing medications or tube feeds) of the indwelling medical device

The guidance advises using EBP for the "care and use" of indwelling medical device. What does that mean?

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Facilities should define these limited contact activities in their policies and procedures and educate healthcare personnel to ensure consistent application of Enhanced Barrier Precautions

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What is the definition of an "indwelling medical device"?

- An indwelling medical device provides a direct pathway for pathogens in the environment to enter the body and cause infection
- Examples include, but are not limited to, central vascular lines (including hemodialysis catheters), indwelling urinary catheters, feeding tubes, and tracheostomy tubes

Devices that are fully embedded in the body, without components that communicate with the outside, such as pacemakers, would not be considered an indication for Enhanced Barrier Precautions





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 In general, gowns and gloves would not be recommended when performing transfers in common areas such as dining or activity rooms, where contact is anticipated to be shorter in duration

 Outside the resident's rooms, EBP should be followed when performing transfers or assisting during bathing in a shared/common shower room and when working with residents in the therapy gym, specifically when anticipating close physical contact while assisting with transfers and mobility

High-Contact Care

Is Physical or Occupational Therapy considered a "high-contact" resident care activity?

Yes. Therapists should use gowns and gloves when working with residents on Enhanced Barrier Precautions in the therapy gym or in the resident's room if they anticipate close physical contact while assisting with transfers, mobility, or any high contact activity.

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Housekeeping Staff

Is changing linen considered a "high-contact" resident care activity?

- Changing linen is considered a high contact resident care activity, gowns and gloves should be worn by EVS personnel if they are changing the linen of residents on Enhanced Barrier Precautions.
- Gown and glove use by EVS should be based on facility policy and for anticipated exposures to body fluids, chemicals, or contaminated surfaces.

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List the	Perform hand hygiene - Don PPE when enter room to prepare resident to transfer to take to shower room.
Stepsion	Doff PPE before leaving the room – Perform hand hygiene
Donning 3) and Doffing	After arriving in shower room Don PPE and shower resident
PPE when ⁴⁾ showering a	Doff PPE after completing shower and dressing resident and Perform hand hygiene
	Do not wear PPE in the hallway
resident on 6 EBP	Perform hand hygiene - Don PPE to transfer resident back into clean bed
7)	Doff PPE before leaving resident room - Perform hand hygiene
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Updates On EBP

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CDC Updates Guidance On Enhanced Barrier Precautions For Nursing Homes

- AHCA American Health Care Association
- NCAL National Center for Assisted Living
- Published July 12, 2022
- CMS Stakeholder call July 13, 2022



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Posted 3/20/24 - CMS QSO-24-08 NH

Effective: April 1, 2024

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- Incorporated into F880 483.80
 Surveyors will evaluate the use of EBP when reviewing sampled residents for whom EBP are indicated and focus their evaluation of EBP use
- as it relates to CDC-targeted MDROs. CMS will update associated survey documents which will be located under the "Survey Resources" and to the Long-Term Care Survey Process software application

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Resources for Implementation of EBP

- Information regarding CDC-targeted MDROs and current recommendations on EBP are available on the CDC's webpage, "Implementation of Personal Protective Equipment (PPE) Use in Nursing Homes to Prevent Spread of Multidrug-resistant Organisms (MDROs)," at https://www.cdc.gov/hai/containment/PPE-Nursing-Homes.html.
- Pre-implementation Tool Enhanced Barrier Precautions: https://www.cdc.gov/hair/pdfs/containmen/Pre-implementation-Tool-for-Enhanced-Barrier-Precautions-308.pdf
- Observations Tool Enhanced Barrier Precautions Implementation: https://www.cdc.gov/hai/pdfs/containment/Observations-Tool-for-Enhanced-Barrier-Precautions-Implementation-508.pdf
- Observations Tool Summary
 Spreadsheet: https://www.cdc.gov/hai/excel/containment/Spreadsheet-to-Capture-and-Summarize-EBP-Observations.xix
- Enhanced Barrier Precautions Letter to Nursing Home Leadership: https://www.cdc.gov/hai/bdfs/containment/Enhanced-Barrier-Precautions-Letter-for-Nursing-Home-Leadership-508.pdf

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Resources for Enhanced Barrier Precautions

- Implementation of Personal Protective Equipment (PPE) Use in Nursing Homes to Prevent Spread of Multidrug-resistant Organisms (MDROs) <u>https://www.cdc.gov/hai/containment/PPE-Nursing-Homes.html</u>
- Frequently Asked Questions (FAQs) about Enhanced Barrier Precautions in Nursing Homes <u>https://www.cdc.gov/hai/containment/faqs.html</u>
- Considerations for Use of Enhanced Barrier Precautions in Skilled Nursing Facilities https://www.cdc.gov/hicpac/workgroup/EnhancedBarrierPrecautions.html?m scikid=39038417aed311ec8c868e1e03c50297
- Enhanced Barrier Precautions Letter to Nursing Home Residents, Families, Friends, and Volunteers <u>https://www.cdc.gov/hai/pdfs/containment/Letter-Nursing-Home-Residents-Families-Friends.pdf</u>

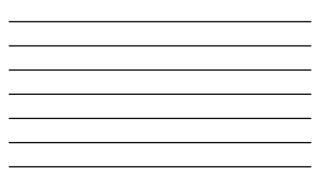
Enhanced Barrier Precautions Letter to Nursing Home Staff https://www.cdc.gov/hai/pdfs/containment/Letter-Nursing-Home-Staff.pdf

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Additional EBP Resour	How We Keep Our Residents Safe	
Print Resources - Facility Poster-Enhanced Barrier Precaultons Steps	Enhanced Barrier Precautions In Nursing Homes	<section-header></section-header>
Staff Pocket Guide-Enhanced Barrier Precautions Resident and Loved Ones Poster- How We Keep Our Residents Safe Videos	Malificação de la constancia de la const	Enhanced Barrier Processions
Enhanced Barrier Precautions in Nursing Homes	Hard to the second seco	







Objectives

- 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 the 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.



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Factors That Affect Medication Administration



THE MEDICATION CART



· List of resident names and medication list

- Report Sheet/Worksheet (for documentation of vital signs that are
- required for meds) Computer (documentation) .
- · Gloves

Medication Cart Items

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



Medication Cart Items

- Pill crusher (silent knight)
- . Drinking cups
- Medication cups •

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- 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 •





Medication Administration By Route . Oral Intravenous (Peripheral IV/ Midline/ Central (PICC) Line • Eye Drops/Ointments • Ear Drops Topical Medications (Creams, Ointments, or Patches) . . Suppositories Gastrostomy/PEG Tube ٠

- . Subcutaneous Injections
- . Intramuscular Injections
- Intranasal
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Common Food Used With Medication Administration

- Apple Sauce
- Pudding
 Ice Cream
- Ice Cream
 Juices/Punch
- Milk Supplements
- Thicken Liquids



BASICS IN INFECTION PREVENTION

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Review of the Chain of Infection Transmission







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So, What's The Infection Control Issue?

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

Let's highlight a few!



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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.

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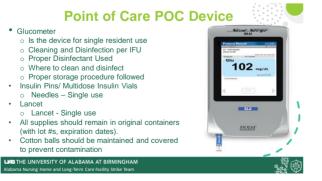
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- Fomites are inanimate objects that can be contaminated with germs.
- Germs can be spread when the fomites are touched.
- Examples of fomites are medication drawer handles, surface of medication cart, touch screen monitors, and bedside tables.
- Ensure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

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

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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.

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

WHAT TO LOOK FOR DURING OBSERVATIONS

Module 6 Injection Safety ICAR

 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, such as a needlestick . injury.

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Module 6 Injection Safety ICAR The following practices should be observed during 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 dena area, that is not adjacent to potential sources of contamination, including sinks or water sources.

 Meoralee and suringes only used for one resident 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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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.

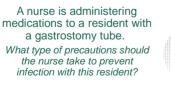
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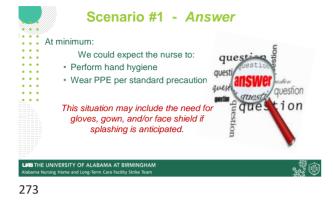
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Scenario #1 - Question



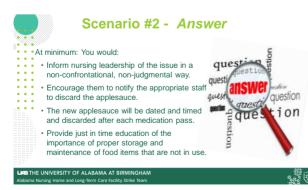


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Scenario #2 - Question





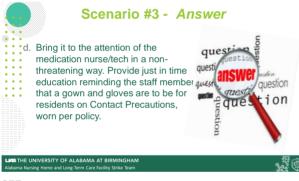
Scenario #3 - Question

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 nonthreatening 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.



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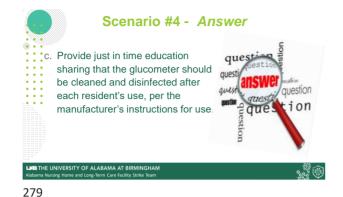
Scenario #4 - Question

While performing observations, you observe a glucometer with a strip inserted in it on top of the medication cart.

You should:

- a. Do nothing since it is time for your break. b. Thank the staff member that has prepared it for your use and use it to check a resident's blood glucose.
- c. Provide just in time education sharing that the glucometer should be cleaned and disinfected after each resident's use, per the manufacturer's instructions for use.
- d. Do nothing because it only needs to be cleaned and disinfected at the end of each shift.

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Let's Be Mindful!





QUESTIONS?

