



KEY CONCEPTS

- ► Risk of transmission of infectious agents occurs in all settings
- ► Infections are transmitted from resident-to-resident via HCPs hands or medical equipment/devices
- Unidentified residents who are colonized or infected may represent risk to other residents
- ► Isolation precautions are only part of a comprehensive IP program



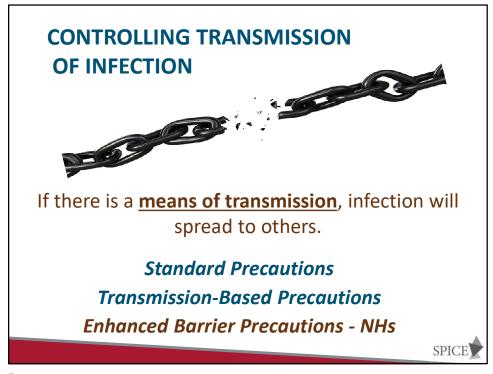


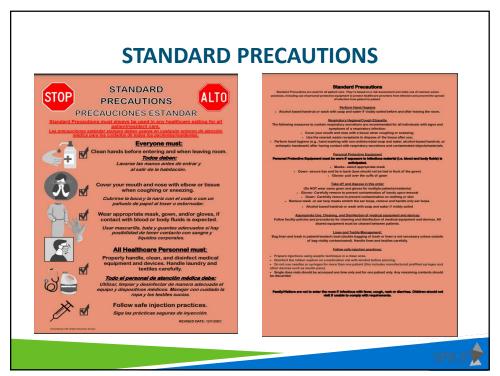
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FUNDAMENTAL ELEMENTS -

- ► Administrative support
- ► Adequate Infection Prevention staffing
- ► Good communication with clinical microbiology lab and environmental services
- ► A comprehensive educational program for HCPs, residents, and visitors
- ► Infrastructure support for surveillance, outbreak tracking, and data management







2007 Guideline for Isolation Precautions: Preventing Transmission of Infectious Agents in Healthcare Settings

Jane D. Siegel, MD; Emily Rhinehart, RN MPH CIC; Marguerite Jackson, PhD; Linda Chiarello, RN MS; the Healthcare Infection Control Practices Advisory

Acknowledgement: The authors and HICPAC gratefully acknowledge Dr. Larry Strausbaugh for his many contributions and valued guidance in the preparation of this guideline.

Suggested citation: Siegel JD, Rhinehart E, Jackson M, Chiarello L, and the Healthcare Infection Control Practices Advisory Committee. 2007 Guideline for Isolation Precautions: Preventing Transmission of Infections Agents in Healthcare Settings http://www.coc.gov/mcidod/dingplodifisolation/2007.pdf ► Implementation of
Standard Precautions
constitutes the primary
strategy for the
prevention of healthcareassociated transmission
of infectious agents
among residents and
healthcare personnel

Define and explain standard precautions and their application during resident care activities

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HAND HYGIENE

After touching blood, body fluids, secretions, excretions, contaminated items; immediately after removing gloves; between resident contacts.



When hands are visibly dirty or contaminated or are visibly soiled with blood or other body fluids, wash hands with either a nonantimicrobial soap and water or an antimicrobial soap and water







How to hand wash





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ALCOHOL BASED HAND RUB



- ➤ Put alcohol-based hand sanitizer with 60-95% alcohol in every resident room (ideally both inside and outside of the room) and other resident care and common areas (e.g., outside dining hall, in therapy gym).
- >Unless hands are visibly soiled, an alcohol-based hand sanitizer is preferred over soap and water in most clinical situations.





HAND HYGIENE PROGRAM

ADDITIONAL ELEMENTS
CDC GUIDELINE FOR HAND HYGIENE IN HEALTHCARE SETTING

- ► Involve staff in evaluation and selection of hand hygiene products
- ► Provide employees with hand lotions/creams compatible with soap and/or ABHRs
- ► Do not wear artificial nails when providing direct clinical care
- ► Provide hand hygiene education to staff
- ► <u>Monitor staff adherence to</u> recommended HH practices







APPROACHES THAT SHOULD NOT BE CONSIDERED A ROUTINE PART OF HH

- ➤ Do not supply individual pocket-sized ABHS dispensers in lieu of accessible wall-mounted dispensers
- ▶ Do not refill or "top-off" soap dispensers, moisturizer dispensers or ABHS dispensers
- ▶ Do not use antimicrobial soaps formulated with triclosan
- ▶ Do not routinely double-glove
- ▶ Do not remove access to ABHS when responding to organisms such as C. difficile or norovirus
- ▶ Do not disinfect gloves during care

https://doi.org/10.1017/ice.2022.304



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STANDARD PRECAUTIONS

Component

Recommendation

Personal Protective Equipment (PPE)

Gloves

For touching blood, body fluids, secretions, excretions, contaminated items; for touching mucous membranes and non-intact skin

During procedures and resident-care activities when contact of clothing/exposed skin with blood/body fluids, secretions, and excretions is anticipated

Mask, eye protection

During procedures and resident-care activities likely to generate splashes or sprays of blood, body fluids, secretions, especially suctioning, endotracheal intubation

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USE OF PERSONAL PROTECTIVE EQUIPMENT (PPE)



- ▶ Perform and maintain an inventory of PPE – monitor daily PPE use
- Make necessary PPE available where resident care is provided
- ▶ Position trash can near the exit inside the room for disposal
- Implement strategies to optimize current PPE supply – even before shortages occur

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USE OF PERSONAL PROTECTIVE EQUIPMENT (PPE)

- Three overriding principals related to personal protective equipment (PPE)
 - Wear PPE when the nature of the anticipated resident interaction indicates that contact with blood or body fluids may occur
 - Prevent contamination of clothing and skin during the process of removing PPE
 - Before leaving the resident's room, remove and discard PPE –respirators removed after leaving





RESPIRATORS

- HCP who enter the room of a patient with suspected or confirmed SARS-CoV-2 infection should adhere to standard precautions and use a NIOSH Approved particulate respirator with N95 filters or higher, gown, gloves, and eye protection (i.e., goggles or a face shield that covers the front and sides of the face).
- ▶ Whenever respirators are required, employers must implement a written, worksite-specific respiratory protection program (RPP), including medical evaluation, fit testing, training, and other elements, as specified in OSHA's Respiratory Protection standard (29 CFR 1910.134).

https://www.cdc.gov/covid/hcp/infection-control/index.html https://www.osha.gov/sites/default/files/respiratory-protection-covid19-compliance.pdf

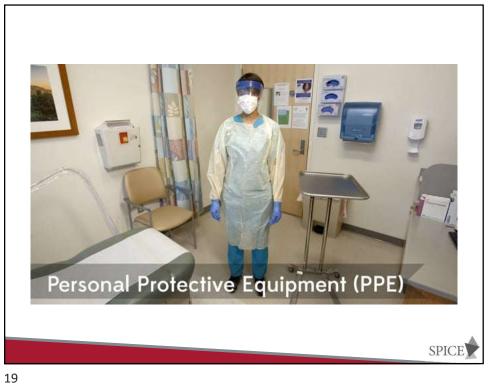
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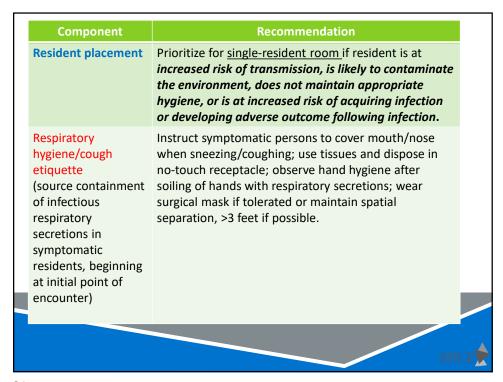
SAFE WORK PRACTICES (PPE USE)

- ✓ Keep hands away from face
- ✓ Work from clean to dirty
- ✓ Limit surfaces touched
- Change when torn or heavily contaminated
- ✓ Perform hand hygiene

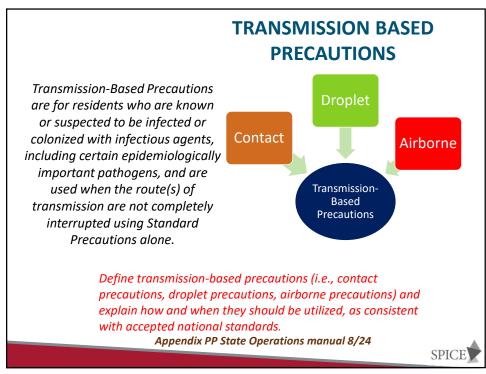




Component	Recommendation	
Soiled equipment	Handle in a manner that prevents transfer of microorganisms to others and to the environment; wear gloves if visibly contaminated; perform hand hygiene	
Environmental Control	Develop procedures for routine care, cleaning, and disinfection of environmental surfaces, especially frequently touched surfaces in resident-care areas	
Laundry	Handle in a manner that prevents transfer of microorganisms to others and to the environment	
Needles and sharps	Do not recap, bend, break, or hand-manipulate used needles; if recapping is required, use a one-handed scoop technique only; use safety features when available; place used sharps in puncture-resistant container	
Resident Resuscitation	Use mouthpiece, resuscitation bag, other ventilation devices to prevent contact with mouth and oral secretions	



Component	Recommendation
Safe Injection Practices	 Apply to the use of needles, cannulas that replace needles, and, where applicable intravenous delivery systems Use aseptic technique Needles, cannulae and syringes are sterile, single-use items Use single-dose vials for parenteral medications whenever possible Do not administer medications from single-dose vials or ampules to multiple residents Do not keep multidose vials in the immediate resident treatment area Do not use bags or bottles of IV solution as a common source of supply for multiple residents
Special Lumbar Procedures	Wear a surgical mask when placing a catheter or injecting material into the spinal canal or subdural space



TRANSMISSION BASED PRECAUTIONS

- ► The facility should initiate transmission-based precautions for a constellation of new symptoms consistent with a communicable disease. Empirically initiated transmission-based precautions may be adjusted or discontinued when additional clinical information becomes available (e.g., confirmatory laboratory results).
- Residents on transmission-based precautions should remain in their rooms except for medically necessary care.
- ► Least restrictive possible

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TRANSMISSION BASED PRECAUTIONS

▶ Place signage that includes instructions for use of specific PPE in a conspicuous location outside the resident's room (e.g., on the door or on the wall next to the doorway), wing, or facility-wide. Additionally, either the CDC category of transmission-based precautions (e.g., contact, droplet, or airborne) or instructions to see the nurse before entering should be included in signage.

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CONTACT PRECAUTIONS

- ► Common conditions:
 - ► MRSA,
 - ▶ VRE,
 - ► CRE,
 - ► ESBL-GNR,
 - Candida auris,
 - ► Scabies,
 - <u>Uncontained</u> draining wounds or abscesses

- ► Private room if available
- ► Don gown and gloves when entering the room
- ▶ Disposable or dedicated equipment



CONTACT PRECAUTIONS

➤ Contact precautions should also be used in situations when a resident is experiencing wound drainage, fecal incontinence or diarrhea, or other discharges from the body that cannot be contained and suggest an increased potential for extensive environmental contamination and risk of transmission of a pathogen, even before a specific organism has been identified.

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CONTACT PRECAUTIONS

- ► Contact Precautions:
 - All residents with an MDRO when there is <u>acute diarrhea</u>, <u>draining</u> wounds or other sites of secretions/excretions that cannot be contained or covered
 - On units or in facilities where ongoing transmission is documented or suspected
 - ► C. difficile infection
 - ▶ Norovirus
 - Shingles when resident is immunocompromised, and vesicles cannot be covered
 - ► Other conditions as noted in Appendix A- Type and Duration of Precautions Recommended For Selected Infections and Conditions
- Gown and gloves upon ANY room entry
- ▶ Room restriction except for medically necessary care





ENTERIC PRECAUTIONS

- ► Common conditions:
 - Clostridioides difficile,
 - ▶ Norovirus,
 - ▶ Rotovirus
- ► USE ABHR for routine care.
- During an outbreak, HCP should consider using soap & water routinely

- ▶ Private room if possible
- ► Gown and gloves
- Disposable or dedicated equipment
- ► Use EPA agent from the K list of disinfectants: Dilute Bleach, sporicidal disinfectants.





DROPLET PRECAUTIONS



Applies when <u>respiratory droplets</u> contain pathogens which may be spread to another susceptible individual

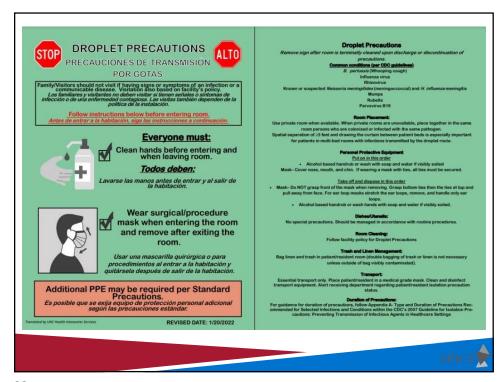
► Common conditions:

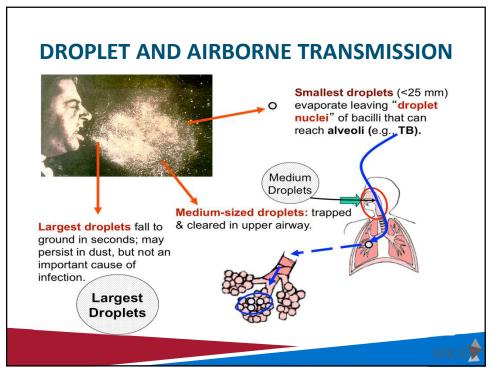
- Pertussis,
- Influenza,
- ▶ Rhinovirus,
- ► Neisseria meningitides,
- ► Mumps,
- ► Rubella,
- ▶ Parvovirus B19

- ► Surgical or procedure mask upon entering the room
- ▶ Private room when available
- Transport resident in a medical grade mask.

https://www.cdc.gov/flu/hcp/testing-methods/nursing-homes.html









AIRBORNE PRECAUTIONS

Occurs when pathogens are so small, they can easily be dispersed in the air over long distances by air currents.

- Common conditions:
 - Tuberculosis,
 - Measles

- Private room only
- Room requires Negative airflow pressure
- Doors must remain closed
- Everyone must wear an N-95 respirator
- Limit the movement and transport of the Resident
- > Hand hygiene before and after



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DON AND DOFFING N95 RESPIRATOR ted respirator e, mouth and chin e piece over nose bridg d with elastic neck — or should collapse r leakage around fa

TUBERCULOSIS OR MEASLES

Facility does not have a dedicated negative pressure room:

- Transfer resident to a facility capable of managing and evaluating resident
- ▶ Place a mask on the resident (if tolerated), place in room with door closed pending transport
- ▶ Be sure policy is included in your plan

Facility does have negative pressure room:

▶ Follow Airborne Precautions

*Rooms that had been occupied by a suspect or confirmed measles patient should not be used for two hours after the patient leaves.



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MEASLES



JOSH STEIN • Governor

DEVDUTTA SANGVAI • Secretary

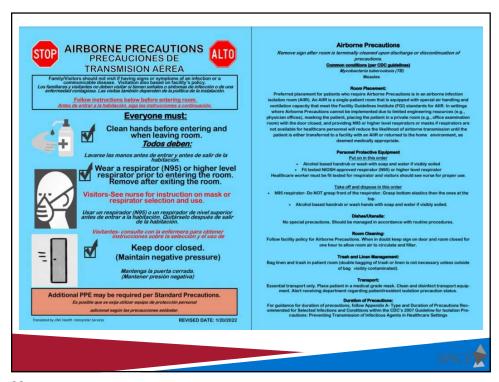
KAREN BURKES • Acting Deputy Secretary for Health

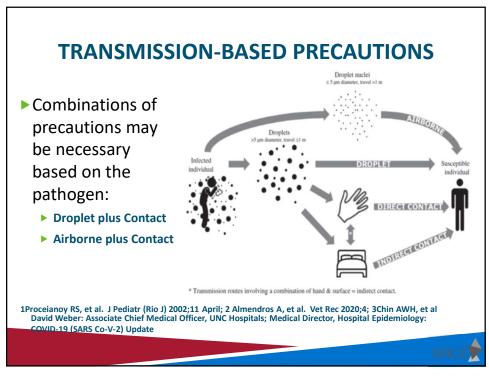
KELLY KIMPLE • Acting Director, Division of Public Health

To: North Carolina Clinicians
From: Zack Moore, MD, MPH, State Epidemiologist
Carrie Blanchard, PharmD, MPH, Director, Immunization Branch
Subject: Increase in Measles Cases in the United States (3 pages)
Date: March 3, 2025

- ▶ Notify EMS and/or the receiving facility prior to transporting or referring patients with suspected or confirmed measles to avoid additional exposures.
- Only health care personnel with documented immunity to measles (written documentation of two doses of measles containing vaccine, or laboratory evidence of immunity) should attend to patients with suspected or confirmed measles. Healthcare personnel without evidence of immunity who are exposed to measles should be offered the first dose of MMR vaccine and excluded from work from day 5 after the first exposure to day 21 following their last exposure.
- ▶ Keep records of anyone who may have been exposed (e.g. other patients in the waiting room) and if possible, prevent exposures by making alternate testing arrangements (e.g. testing outside, using an alternate entrance, bringing the patient in as the last patient of the day).







AIRBORNE CONTACT PRECAUTIONS

- ► Common conditions:
 - ► Chicken Pox
 - ► Disseminated Shingles
 - ► Smallpox
 - Extrapulmonary tuberculosis (draining lesions)
- AIIR- single-resident room with special air handling and ventilation capacity that meet the Facility Guidelines Institute (FGI) standards.
- ▶ N95 or higher respirator
- Essential transport only, with resident wearing a medical grade mask
- ► Upon discharge allow at least one hour for air to circulate



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1. Airborne Contaminant Removal

Table B.1. Air changes/hour (ACH) and time required for airborne-contaminant removal by efficiency *

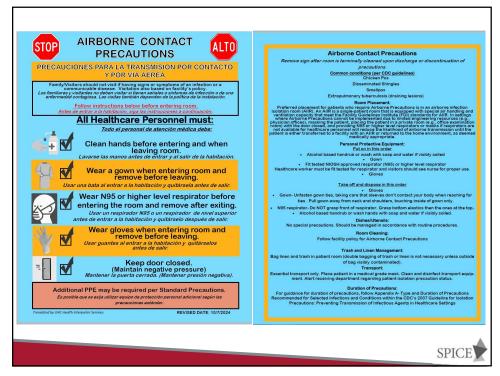
ACH § ¶	Time (mins.) required for removal 99% efficiency	Time (mins.) required for removal 99.9% efficiency	
2	138	207	
4	69	104	
6⁺	46	69	
8	35	52	
10 ⁺	28	41	
12+	23	35	
15*	18	28	
20	14	21	
50	6	8	

* This table is revised from Table S3-1 in reference 4 and has been adapted from the formula for the rate of purging airborne contaminants presented in reference 1435.

https://www.cdc.gov/infectioncontrol/guidelines/environmental/appendix/air.html#b1



Disease/Condition	Type and Duration of Isolation		
Chickenpox (varicella)	Airborne and Contact until lesions are dry and crusted		
Shingles (Herpes zoster. Varicella zoster)			
Localize in resident with intact immune system with lesions that can be contained/covered	Standard Precautions		
Disseminated disease in any resident	Airborne and Contact precautions for duration of illness		
Localized disease in immunocompromised resident until disseminated infection ruled out	Airborne and Contact precautions for duration of illness		



DROPLET CONTACT PRECAUTIONS

- ▶ Common conditions:
 - Rhinovirus if associated with copious secretions,
 - Invasive group A streptococcal infection associated with soft tissue involvement
 - ▶ Certain coronaviruses
 - RSV (infants and young children)
- ▶ Private room when available or keep >3 spatial separation
- ➤ Surgical or procedure mask when entering room
- Gown and gloves on room entry and remove when leaving room
- Essential transport with resident/resident in a medical grade mask and clean gown

PICE

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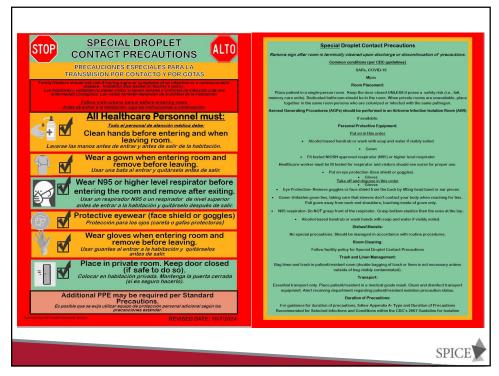


SPECIAL DROPLET CONTACT PRECAUTIONS

- ▶ Common conditions:
 - SARS,
 - ► SAR-CoV-2 (COVID-19)
 - ► Mpox
- Private room with door closed unless fall risk.
- ▶ AIIR- single-resident room with special air handling and ventilation capacity that meet the Facility Guidelines Institute (FGI) standards when performing AGPS
- ► Fit tested N95 or higher respirator
- ▶ Protective eyewear
- ► Gown and gloves
- ► Essential transport only with residentresident wearing a medical grade mask

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VIRAL RESPIRATORY PATHOGENS TOOLKIT FOR **NURSING HOMES CONTROL PREPARE RESPOND** Vaccinate • TBP based on • Notify the local/state pathogen PHD Allocate resources • Remain in room · Initial attempts Monitor and Mask Physical distancing · Additional measures Educate and face mask if Ventilate outside room Test and treat • PPE based on TBP • Non-punitive sick leave policies for HCP • Test if symptomatic • Treat • Investigate https://www.cdc.gov/long-term-care-facilities/hcp/respiratory-virus

WHEN TO DISCONTINUE TBP PRECAUTIONS

Nesume Standard Precautions once high-risk exposures or active symptoms have discontinued

Neser to Appendix A in the 2007 Isolation Guidelines-updated 2018

Type and Duration of Precautions Recommended for Selected Infections and Conditions

Guideline for Isolation Precautions: Preventing Transmission of Infectious Agents in Healthcare Selected Infections made to the table in Appendix A: Type and Duration of Precautions Recommended for Selected Infections and Conditions.

ABCDEESHIJKLMNDPRSILVYYZ

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Infection/Condition

Type of Precaution of Precautions/Comments

Contact + Standard

Duration of Precautions/Comments

Until drainage stops or can be contained by dressing.

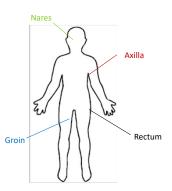
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MDRO- Organisms that develop resistance to one or more classes of antibiotics. This may result in typical antibiotic regimens not working or becoming less effective. Cause infections and/or colonization Infections caused by MDROs are: More difficult to treat Require more toxic antibiotics to treat Often have poor resident outcomes Are easily transmitted in healthcare settings

COLONIZATION VS INFECTION

- ► MDRO colonization can persist for long periods of time (e.g., months) and result in silent transmission.
- Common colonization sites for MDROs include:
 - Nares
 - Axilla
 - ▶ Groin
 - Rectum



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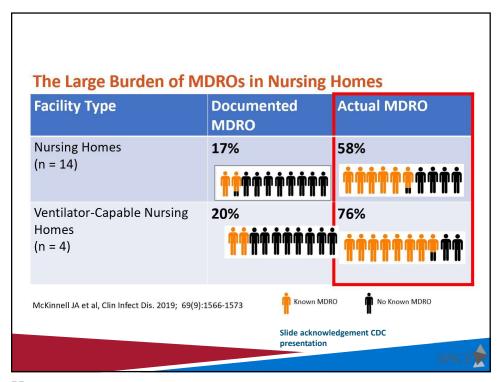
RISK FACTORS FOR DEVELOPING A MDRO

- ▶ Duration of hospitalization
- High rates of transfer in and between hospitals
- ► Local institution risk factors
- ► Long term care facilities
- ► Intensive care units
- ▶ High rate of device utilization
- ▶ Colonization
- ▶ Prior antibiotic use

"Age, comorbid illnesses, invasive medical devices, and dependence on setting of communal living, all nursing home residents infected with healthcare.

acquired bacterial (Dumyati, et. Al., 2017)

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BACKGROUND

- ▶ Available evidence suggests routine use of EBP for residents with wounds or indwelling medical devices would reduce the transmission of *S. aureus* and MDROs (a randomized clinical trial¹).
- ▶ Quasi-experimental study² routine use of EBP during high-risk care of residents with wounds or indwelling devices reduced acquisition and transmission of both methicillin-susceptible and methicillin-resistant *S. aureus*

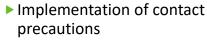
¹Mody L, Krein SL, Saint S, et al. A Targeted Infection Prevention Intervention in Nursing Home Residents with Indwelling Devices: A Randomized Clinical Trial. JAMA Internal Medicine 2015;175:714-23

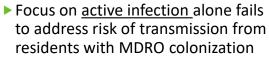
²Lydecker AD, Osei PA, Pineles L, et al. Targeted Gown and Glove Use to Prevent Staphylococcus aureus Acquisition in Community-Based Nursing Homes: A Pilot Study. Infection Control & Hospital Epidemiology 2020:1-7.

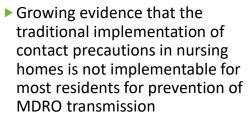


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CHALLENGES

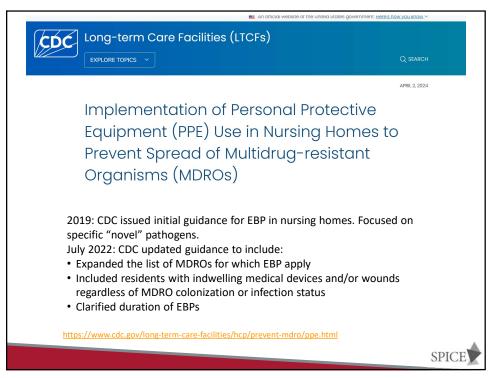














MDROs TARGETED BY CDC

- ▶ Pan-resistant organisms:
 - Resistant to all current antibacterial agents (for example: Acinetobacter, Klebsiella pneumonia, pseudomonas aeruginosa)
- Carbapenemase-producing Enterobacterales
- ► Carbapenemase-producing Pseudomonas spp.
- ► Carbapenemase-producing Acinetobacter baumannii and
- ► Candida auris



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ADDITIONAL EPIDEMIOLOGICALLY IMPORTANT MDROs

- Methicillin-resistant Staphylococcus aureus (MRSA),
- ▶ ESBL-producing Enterobacterales,
- Vancomycin-resistant Enterococci (VRE),
- Multidrug-resistant Pseudomonas aeruginosa,
- ► Drug-resistant *Streptococcus* pneumoniae



Photo credit: Public Health Image Library (PHIL)

Facility has discretion for MDROs not targeted by CDC



ENHANCED BARRIER PRECAUTIONS CDC AND CMS

- ▶ Applies to *ALL* residents with *ANY of the following:*
 - ► Infection <u>OR</u> colonization with a <u>MDRO</u> when <u>Contact Precautions do not apply</u>
 - Wounds and/or indwelling medical devices (e.g., central lines, urinary catheter, feeding tube, tracheostomy/ventilator) <u>REGARDLESS</u> of MDRO colonization status and regardless of wherever they reside in the facility
- ► Gown and gloves prior to the high contact care activity (cannot reuse gown, must change between residents)
 - ▶ Additional PPE (i.e., eye protection) based standard precautions.
- ► No room restriction and not restricted or limited from participation in group activities



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IMPLEMENTATION STRATEGIES

- ➤ CMS and CDC: Facility has clear expectations for staff related to hand hygiene, gown/glove use, initial and ongoing training and access to appropriate supplies
 - ► PPE and ABHR available
 - ► Communication with staff



- ► 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.
- ▶ Periodic monitoring and assessment of adherence to practice
- Educate residents and visitors

Other recommended practices-environmental cleaning and cleaning and disinfection resident care equipment



ENHANCED BARRIER PRECAUTIONS CDC AND CMS

- ► Examples of <u>high-contact</u> resident care activities <u>requiring</u> gown and glove use:
 - Dressing
 - ▶ Bathing/showering
 - ▶ Transferring
 - Providing hygiene (brushing teeth, combing hair, and shaving) primarily bundled with am or pm care
 - Changing linens
 - ▶ Changing briefs or assisting with toileting
 - ► Device care or use; central line, urinary catheter, feeding tube, tracheostomy/ventilator
 - ▶ Wound care: any skin opening requiring a dressing





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INDWELLING MEDICAL DEVICES CDC AND CMS

► CDC



 Examples of indwelling medical devices include central line, urinary catheter, feeding tube, and tracheostomy/ventilator;

► CMS

▶ Indwelling medical device 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.



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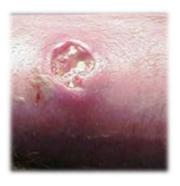
WOUNDS CDC AND CMS

▶ CDC

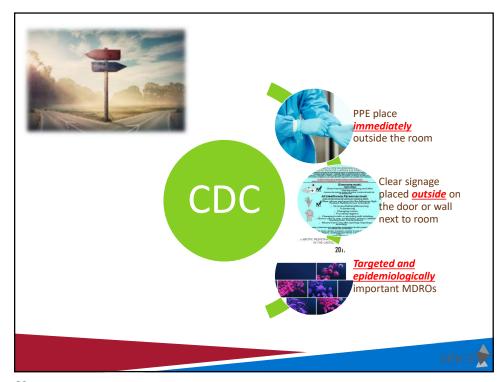
► Any skin opening requiring a dressing

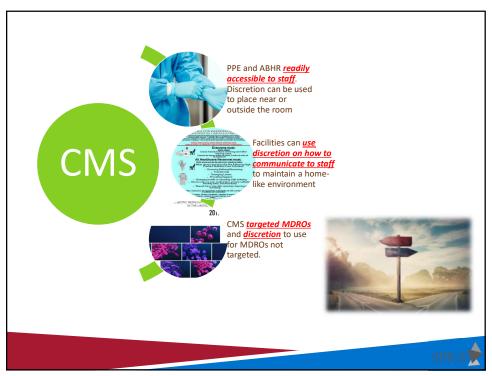
► CMS and CDC

▶ 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.









SHARED ROOMS

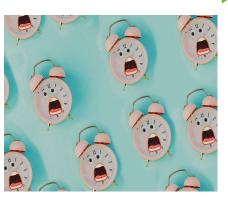


- When residents are placed in shared rooms, facilities must implement strategies to help minimize transmission of pathogens between roommates including:
 - maintaining spatial separation of at least 3 feet between beds to reduce opportunities for inadvertent sharing of items between the residents,
 - use of privacy curtains to limit direct contact,
 - cleaning and disinfecting any shared reusable equipment,
 - cleaning and disinfecting environmental surfaces on a more frequent schedule, and
 - changing personal protective equipment (if worn) and performing hand hygiene when switching care from one roommate to another.



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DURATION OF EBPS CDC AND CMS



- Because Enhanced Barrier Precautions do not impose the same activity and room placement restrictions as Contact Precautions, they are intended to be in place:
 - ► For the duration of a resident's stay in the facility or
 - Until resolution of the wound or discontinuation of the indwelling medical device that placed them at higher risk



CONSIDERATIONS DURING SHORTAGES OF GOWNS OR GLOVES-CDC

- ▶ When PPE supply chains are strained during extraordinary circumstances such as the COVID-19 pandemic, facilities may encounter shortages of gowns or gloves.
- ► <u>Neither extended use nor reuse of gowns and gloves is</u> recommended for mitigating shortages in the context of EBP.
- ➤ To optimize PPE supply, facilities can consider substituting disposable gowns with washable cloth isolation gowns that have long sleeves with cuffs.
- ► Healthcare personnel can reduce PPE consumption by bundling multiple care activities in the same resident interaction.

https://www.cdc.gov/hicpac/pdf/EnhancedBarrierPrecautionswh.pdf

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Table 1: Implementing Contact versus Enhanced Barrier Precautions

This table only applies to MDROs, not all pathogens that may require use of transmission-based precautions.

Resident Status	Contact Precautions	Use 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 the discretion of the facility	
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, unless/until a specific organism is identified.	Yes, if they do not meet the criteria for contact precautions.	
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	

Examples of secretions or excretions include wound drainage, fecal incontinence or diarrhea, or other discharges from the body that cannot be contained and pose an increased potential for extensive environmental contamination and risk of transmission of a pathogen.

Ref: QSO-24-08-NH

SPICE

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MULTIDRUG-RESISTANT ORGANISM (MDRO) TOOLKIT FOR LONG-TERM CARE FACILITIES

▶ Introduction:

"Antimicrobial resistance is a major threat to public health. The Centers for Disease Control and Prevention (CDC) estimates that 2.8 million people in the United States every year get infections that are resistant to antimicrobials(drugs that treat infections caused by bacteria or fungi), and at least 35,000 people die as a result.

Organisms that are resistant to multiple classes of antimicrobial drugs are referred to as multidrug-resistant organisms (MDROs).

Infections with MDROs can be difficult to treat and can be much more dangerous than infections with non-resistant strains of the same organism. Patients with prolonged health care stays, exposure to antimicrobial drugs, and other risk factors such as wounds or indwelling medical devices are at the highest risk for MDRO colonization and infection. "

https://epi.dph.ncdhhs.gov/cd/docs/MDROToolkit.pdf



NEUTROPENIC PRECAUTIONS

- ► Absolute neutrophil count (ANC) < 1500 or AMC expected to decrease to <500 over next 48 hours
- ▶ Private room if available
- ▶ Routine room cleaning
- Avoid raw or undercooked fruits, eggs, vegetables, or shellfish or cracked pepper
- ► No live flowers or plants
- ► No staff or visitors' entry if ill
- Surgical mask if leaving room

PICE

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SUMMARY

- ► Standard precautions are the primary strategy to interrupt transmission of infectious agents in healthcare facilities
 - ▶ HH,PPE, Respiratory Hygiene, Cleaning of Equipment and Environment
- ► Transmission-based precautions may also need to be implemented based on the type of infection and how it is transmitted
 - ▶ Contact, Droplet, Airborne and a combination of these
- ► Enhanced Barrier Precautions recommended by CDC and required by CMS to prevent transmission of MDROs in nursing homes.



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RESOURCES

Implementation of Personal Protective Equipment (PPE) Use in Nursing Homes to Prevent Spread of Multidrug-resistant Organisms (MDROs) https://www.cdc.gov/long-term-care-facilities/hcp/prevent-mdro/ppe.html

Frequently Asked Questions (FAQs) about Enhanced Barrier Precautions in Nursing Homes https://www.cdc.gov/long-term-care-facilities/hcp/prevent-mdro/faqs.html

Considerations for Use of Enhanced Barrier Precautions in Skilled Nursing Facilities

https://www.cdc.gov/hicpac/media/pdfs/EnhancedBarrierPrecautions-508.pdf



ADDITIONAL RESOURCES

Type and Duration of Precautions Recommended for Selected Infections and Conditions

https://www.cdc.gov/infection-control/hcp/isolation-precautions/appendix-a-type-duration.html

CMS QSO-24-08-NH

SUBJECT: Enhanced Barrier Precautions in Nursing Homes

https://www.cms.gov/files/document/gso-24-08-nh.pdf

NC Statewide Program for Infection Control and Prevention (SPICE) https://spice.unc.edu/



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