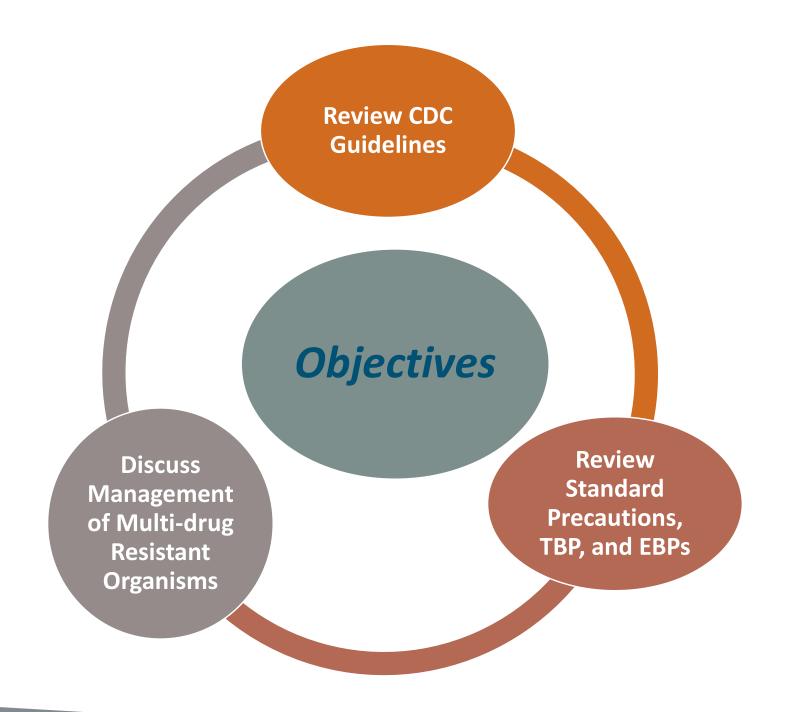


RECOMMENDED PRACTICES TO INTERRUPT TRANSMISSION OF INFECTIOUS AGENTS IN LONG-TERM CARE FACILITIES

Evelyn Cook, RN, CIC

Associate Director







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





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



CONTROLLING TRANSMISSION OF INFECTION



If there is a <u>means of transmission</u>, infection will spread to others.

Standard Precautions

Transmission-Based Precautions

Enhanced Barrier Precautions - NHs



STANDARD PRECAUTIONS



Standard Precautions

Standard Precautions are used for all patient care. They're based on a risk assessment and make use of common sense practices, including use of personal protective equipment to protect healthcare providers from infection and prevent the spread of infection from patient by nations?

Perform Hand Hygiene

· Alcohol based handrub or wash with soap and water if visibly solled before and after leaving the room.

Respiratory Hygiene/Cough Etiquette

The following measures to contain respiratory secretions are recommended for all individuals with signs and symptoms of a respiratory infection:

- · Cover your mouth and nose with a tissue when coughing or sneezing;
- . Use the nearest waste receptacle to dispose of the tissue after use;
- Perform hand hygiene (e.g., hand washing with non-antimicrobial soap and water, alcohol-based handrub, or antiseptic handwash) after having contact with respiratory secretions and contaminated objects/materials.

Personal Protective Equipment

Personal Protective Equipment must be worn if exposure to infectious material (i.e. blood and body fluids) is anticipated.

- Masks- select appropriate mask
- . Gown-secure ties and tie in back (bow should not be tied in front of the gown)
 - · Gloves- pull over the cuffs of gown

Take off and dispose in this order

(Do NOT wear same gown and gloves for multiple patients/residents)

- Gloves- Carefully remove to prevent contamination of hands upon removal
- . Gown- Carefully remove to prevent contamination on clothing or skin
- Remove mask-or ear loop masks stretch the ear loops, remove and handle only ear loops.
 - · Alcohol based handrub or wash with soap and water if visibly soiled

Appropriate Use. Cleaning, and Disinfection of medical equipment and devices

Follow facility policies and procedures for cleaning and disinfection of medical equipment and devices. All shared equipment must be cleaned between patients.

Linen and Textile Management

Bag linen and trash in patient/resident room (double bagging of trash or linen is not necessary unless outside of bag visibly contaminated). Handle linen and textiles carefully.

Follow safe injection practices:

- · Prepare injections using aseptic technique in a clean area.
- . Disinfect the rubber septum on a medication vial with alcohol before piercing.
- Do not use needles or syringes for more than one patient (this includes manufactured prefilled syringes and other devices such as insulin pens).
- Single dose vials should be accessed one time only and for one patient only. Any remaining contents should be discarded.

Family/Visitors are not to enter the room if infectious with fever, cough, rash or diarrhea. Children should not visit if unable to comply with requirements.



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 Committee

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 Infectious Agents in Healthcare Settings http://www.cdc.gov/ncidod/dhap/pdf/isolation2007.pdf

► Implementation of Standard Precautions constitutes the primary strategy for the prevention of healthcare-associated transmission of infectious agents among residents and healthcare personnel

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



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 with proteinaceous material 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 water



How to hand wash





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.



How to hand rub





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
- ► Monitor staff adherence to 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



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

Gown



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



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



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

- ► Healthcare providers who are in close contact with an LTCF resident with suspected or confirmed SARS-CoV-2 infection <u>must use a NIOSH-approved N95</u> FFR or equivalent or higher-level respirator (29 CFR 1910.134)
 - ► This guidance is designed specifically for nursing homes, <u>assisted living</u> <u>facilities</u> and other LTCF (group homes with nursing care)
- 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.osha.gov/sites/default/files/respiratory-protection-covid19-long-term-care.pdf
https://www.osha.gov/sites/default/files/respiratory-protection-covid19-compliance.pdf



Occupational Safety and Health Administration

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
Resident placement	Prioritize for <u>single-resident room</u> if resident is at increased risk of transmission, is likely to contaminate the environment, does not maintain appropriate hygiene, or is at increased risk of acquiring infection or developing adverse outcome following infection.
Respiratory hygiene/cough etiquette (source containment of infectious respiratory secretions in symptomatic residents, beginning at initial point of encounter)	Instruct symptomatic persons to cover mouth/nose when sneezing/coughing; use tissues and dispose in no-touch receptacle; observe hand hygiene after soiling of hands with respiratory secretions; wear surgical mask if tolerated or maintain spatial separation, >3 feet if possible.

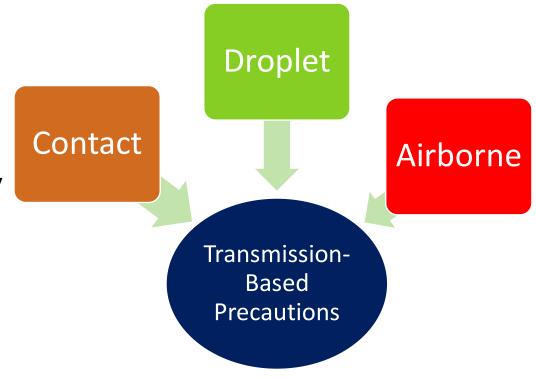


Component	Recommendation
Safe Injection Practices	 Apply to the use of needles, cannulas that replace needles, and, where applicable intravenous delivery systems Use aseptic technique Needles, cannulae and syringes are sterile, singleuse items Use single-dose vials for parenteral medications whenever possible Do not administer medications form 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

Transmission-Based Precautions are for residents who are known or suspected to be infected or colonized with infectious agents, including certain epidemiologically important pathogens, and are used when the route(s) of transmission are not completely interrupted using Standard Precautions alone.



Define transmission-based precautions (i.e., contact precautions, droplet precautions, airborne precautions) and explain how and when they should be utilized, as consistent with accepted national standards.



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



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.



- ► Common conditions:
 - MRSA,
 - ► VRE,
 - ► CRE,
 - ► ESBL-GNR,
 - Candida auris,
 - Scabies,
 - Uncontained draining wounds or abscesses

- Private room if available
- Don gown and gloves when entering the room
- Disposable or dedicated equipment
- Transport residents in a fresh gown



► 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.



- Contact Precautions:
 - All residents with an <u>MDRO</u> 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





PRECAUCIONES DE



TRANSMISIÓN POR CONTACTO

Family/Visitors should not visit if having signs or symptoms of an infection or a communicable disease. Visitation also based on facility's policy.

Los familiares y visitantes no deben visitar si tienen señales o sintomas de infección o de una enfermedad contagiosa. Las visitas también dependen de la política de la instalación.

Follow instructions below before entering room.

Antes de entrar a la habitación, siga las instrucciones a continuación



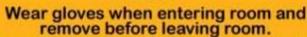
Everyone must:

Clean hands before entering and when leaving room.

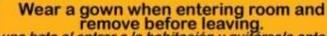
Todos deben:

Lavarse las manos antes de entrar y antes de salir de la habitación.





Usar guantes al entrar a la habitación y quitárselos antes de salir de la habitación.



Usar una bata al entrar a la habitación y quitársela antes de salir.



Use patient-dedicated or single-use disposable equipment. If shared equipment is used clean and disinfect between patients.

Usar equipo desechable de un solo uso o designado al paciente. Si se utiliza equipo compartido, limpiar y desinfectar entre pacientes.

Additional PPE may be required per Standard Precautions.

Es posible que se exija utilizar equipo de protección personal
adicional según las precauciones estándar.

Translated by UNC Health Interpreter Services

REVISED DATE: 1/20/22

Contact Precautions

Remove sign after room is terminally cleaned upon discharge or discontinuation of precautions.

Common conditions (per CDC guidelines)

Methicillin-resistant Staphylococcus aureus (MRSA)

Vancomycin-resistant Enterococcus (VRE)

Carbapenem-resistant Enterbacterales (CRE)

Extended spectrum beta lactamase producers Gram Negative Rods (ESBL-GNR)

Candida auris (C. auris)

Other multidrug resistant organisms

Scabies

Uncontained draining wounds or abscesses RSV

Room Placement:

Use private room when available. When private rooms are unavailable, place together in the same room persons who are colonized or infected with the same pathogen.

Personal Protective Equipment

Put on in this order

- · Alcohol based handrub or wash with soap and water if visibly soiled
- . Gown- secure ties and tie in back (bow should not be tied in front of the gown).
 - . Gloves-pull over the cuffs of gown

Take off and dispose in this order

(Do NOT wear same gown and gloves for multiple patients/residents)

- Gloves-Carefully remove to prevent contamination of hands upon removal
- Gown- Carefully remove to prevent contamination on clothing or skin
- Alcohol based hand rub or wash hands with soap and water if visibly soiled

Dishes/Utensile:

No special precautions. Should be managed in accordance with routine procedures.

Room Cleaning:

Follow facility policy for Contact Precautions

Trash and Linen Management:

Bag linen and trash in patient/resident room (double bagging of trash or linen is not necessary unless outside of bag visibly contaminated).

Transport:

Essential transport only. Place patient/resident in a clean gown. Clean and disinfect transport equipment. Alert receiving department regarding patient/resident isolation precaution status.

Duration of Precautions:

For all multidrug resistant organisms, follow guidance and recommendations from CDC (Management of Multidrug-Resistant Organisms in Healthcare Settings) and SHEA (Duration of Contact Precautions for Acute-Care Settings).

For other guidance for duration of precautions, follow Appendix A- Type and Duration of Precautions Recommended for Selected Infections and Conditions within the CDC's 2007 Guideline for Isolation Precautions:

Preventing Transmission of Infectious Agents in Healthcare Settings



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.





ENTERIC PRECAUTIONS

PRECAUCIONES DE TRANSMISION POR ALTO



ENTERICA

Family/Visitors should not visit if having signs or symptoms of an infection or a communicable disease. Visitation also based on facility's policy.

Los familiares y visitantes no deben visitar si tienen señales o sintomas de infección o de una enfermedad contagiosa. Las visitas también dependen de la política de la instalación.



Everyone must:

Clean hands before entering and when leaving room. Todos deben:

Lavarse las manos antes de entrar Y antes de salir de la habitación.

All Healthcare Personnel must:

Todo el personal de atención médica



Wear gloves when entering room and remove before leaving room.

Usar guantes al entrar a la habitación y quitárselos antes de salir de la habitación.





Wear a gown when entering room and remove before leaving.

Usar una bata al entrar a la habitación y quitársela antes de salir.



Use patient-dedicated or single-use disposable equipment. If shared equipment is used, clean with an EPA K list disinfectant.

Usar equipo desechable de un solo uso o designado al paciente. Si se usa equipo compartido, limpiarlo con un desinfectante de la lista K de la EPA.

Additional PPE may be required per Standard Precautions.

Es posible que se exija utilizar equipo de protección personal adicional según las precauciones estándar.

Translated by UNC Health Interpreter Services

REVISED DATE: 1/20/2022

Enteric Precautions

Remove sign after room is terminally cleaned upon discharge or discontinuation of precautions.

Common conditions:

Clostridioides difficile

Norovirus

Room Placement:

Use private room when available. When private rooms are unavailable, place together in the same room persons who are colonized or infected with the same pathogen.

Personal Protective Equipment

Put on in this order

Alcohol based handrub or wash with soap and water if visibly soiled

During an outbreak, consider using soap & water instead of alcohol-based hand sanitizers after removing

- Gown- secure ties and tie in back (bow should not be tied in front of the gown)
 - · Gloves-pull over the cuffs of gown

Take off and dispose in this order

(Do NOT wear same gown and gloves for multiple patients/residents)

- Gloves- Carefully remove to prevent contamination of hands upon removal
 - . Gown- Carefully remove to prevent contamination on clothing or skin
- Alcohol based handrub or wash hands with soap and water if visibly soiled. If your institution experiences an outbreak, consider using soap and water instead of alcohol-based hand sanitizers for hand hygiene afte removing gloves while caring for patients with CDI.

Dishos/Utensils:

No special precautions. Should be managed in accordance with routine procedures.

Room Cleaning:

Follow facility policy. Use a disinfectant included on the EPA LIST K. Examples of these include: Bleach wipes, bleach and other sporicidal disinfectants

Trash and Linen Management:

Bag linen and trash in patient/resident room (double bagging of trash or linen is not necessary unless outside of bag visibly contaminated).

Trensport:

Essential transport only. Place patient/resident in a clean gown. Clean and disinfect transport equipment. Alert receiving department regarding patient/resident isolation precaution status.



DROPLET PRECAUTIONS

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



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

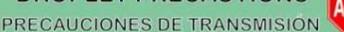


- Surgical or procedure mask upon entering the room
- Private room when available
- Transport resident in a medical grade mask.

SPICE



DROPLET PRECAUTIONS





POR GOTAS

Family/Visitors should not visit if having signs or symptoms of an infection or a communicable disease. Visitation also based on facility's policy.

Los familiares y visitantes no deben visitar si tienen señales o sintomas de infección o de una enfermedad contagiosa. Las visitas también dependen de la política de la instalación.

Follow instructions below before entering room.

Antes de entrar a la habitación, siga las instrucciones a continuación.





Everyone must:

Clean hands before entering and when leaving room.

Todos deben:

Lavarse las manos antes de entrar y al salir de la habitación.





Wear surgical/procedure mask when entering the room and remove after exiting the room.

Usar una mascarilla quirúrgica o para procedimientos al entrar a la habitación y quitársela después de salir de la habitación.

Additional PPE may be required per Standard Precautions.

Es posible que se exija equipo de protección personal adicional según las precauciones estándar.

Translated by LINC Health Interpreter Services

REVISED DATE: 1/20/2022

Droplet Precautions

Remove sign after room is terminally cleaned upon discharge or discontinuation of precautions.

Common conditions (per CDC guidelines)

B. perfuse's (Whooping cough)

Influenza virus

Rhipovirus

Known or suspected Neisseria meningitides (meningoccoccal) and H. Influenza meningitis

Mumps

Rubella

Parvovirus B19

Room Placement:

Use private room when available. When private rooms are unavailable, place together in the same room persons who are colonized or infected with the same pathogen.

Spatial separation of ≥3 feet and drawing the curtain between patient beds is especially important for patients in multi-bed rooms with infections transmitted by the droplet route.

Personal Protective Equipment

Put on in this order

Alcohol based handrub or wash with soap and water if visibly solled
 Mask-Cover nose, mouth, and chin. If wearing a mask with ties, all ties must be secured.

Take off and dispose in this order

- Mask- Do NOT grasp front of the mask when removing. Grasp bottom ties then the ties at top and pull away from face. For ear loop masks stretch the ear loops, remove, and handle only ear loops.
 - · Alcohol based handrub or wash hands with soap and water if visibly soiled.

Dishes/Utensile:

No special precautions. Should be managed in accordance with routine procedures.

Room Cleaning:

Follow facility policy for Droplet Precautions

Trash and Linen Management:

Bag linen and trash in patient/resident room (double bagging of trash or linen is not necessary unless outside of bag visibly contaminated).

Transport:

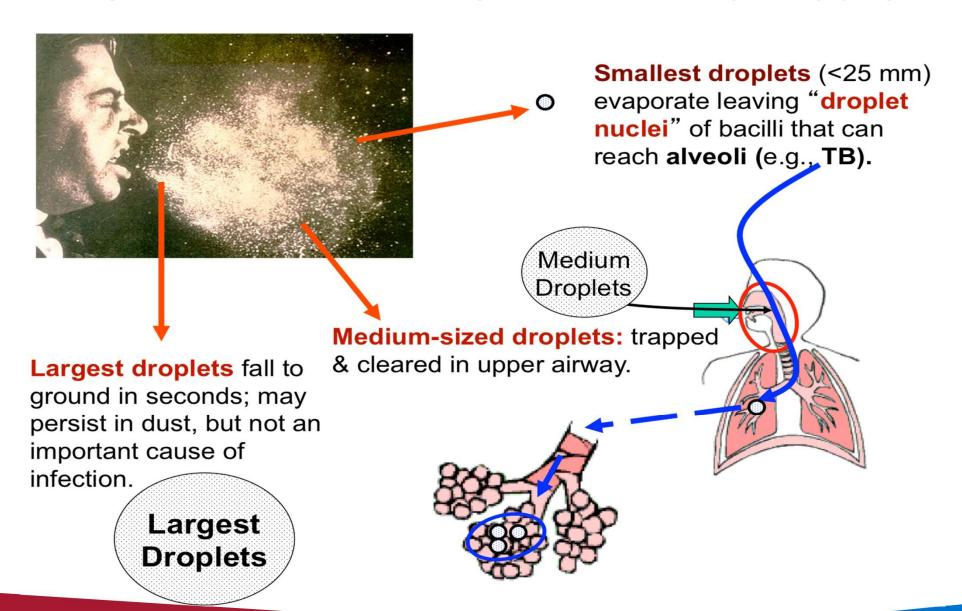
Essential transport only. Place patient/resident in a medical grade mask. Clean and disinfect transport equipment. Alert receiving department regarding patient/resident isolation precaution status.

Duration of Precautions:

For guidance for duration of precautions, follow Appendix A-Type and Duration of Precautions Recommended for Selected Infections and Conditions within the CDC's 2007 Guideline for Isolation Precautions: Preventing Transmission of Infectious Agents in Healthcare Settings



DROPLET AND AIRBORNE TRANSMISSION







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



TUBERCULOSIS

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





PRECAUCIONES DE TRANSMISION AÉREA



Family/Visitors should not visit if having signs or symptoms of an infection or a communicable disease. Visitation also based on facility's policy.

Los familiares y visitantes no deben visitar si tienen señales o sintomas de infección o de una enfermedad contagiosa. Las visitas también dependen de la politica de la instalación.

Follow instructions below before entering room. Antes de entrar a la habitación, siga las instrucciones a continuación.





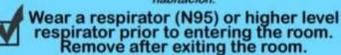
Everyone must:

Clean hands before entering and when leaving room.

Todos deben:

Lavarse las manos antes de entrar y antes de salir de la habitación.





Visitors-See nurse for instruction on mask or respirator selection and use.

Usar un respirador (N95) o un respirador de nivel superior antes de entrar a la habitación. Quitárselo después de salir de la habitación.







Keep door closed. (Maintain negative pressure)

Mantenga la puerta cerrada. (Mantener presión negativa)

Additional PPE may be required per Standard Precautions.

Es posible que se exija utilizar equipo de protección personal

adicional según las precauciones estándar

Translated by LINC Health Interpreter Services

REVISED DATE: 1/20/2022

Airborne Precautions

Remove sign after room is terminally cleaned upon discharge or discontinuation of precautions.

Common conditions (per CDC guidelines)

Mycobacteria tuberculosis (TB)

Measles

Room Placement:

Preferred placement for patients who require Airborne Precautions is in an airborne infection isolation room (AIIR). An AIIR is a single-patient room that is equipped with special air handling and ventilation capacity that meet the Facility Guidelines Institute (FGI) standards for AIIR. In settings where Airborne Precautions cannot be implemented due to limited engineering resources (e.g., physician offices), masking the patient, placing the patient in a private room (e.g., office examination room) with the door closed, and providing N95 or higher level respirators or masks if respirators are not available for healthcare personnel will reduce the likelihood of airborne transmission until the patient is either transferred to a facility with an AIIR or returned to the home environment, as deemed medically appropriate.

Personal Protective Equipment

Put on in this order

- · Alcohol based handrub or wash with soap and water if visibly soiled
- Fit tested NIOSH approved respirator (N95) or higher level respirator

Healthcare worker must be fit tested for respirator and visitors should see nurse for proper use.

Take off and dispose in this order

- N95 respirator- Do NOT grasp front of the respirator. Grasp bottom elastics then the ones at the too.
 - · Alcohol based handrub or wash hands with soap and water if visibly soiled.

Dishes/Utensils:

No special precautions. Should be managed in accordance with routine procedures.

Room Cleaning:

Follow facility policy for Airborne Precautions. When in doubt keep sign on door and room closed for one hour to allow room air to circulate and filter.

Trash and Linen Management:

Bag linen and trash in patient room (double bagging of trash or linen is not necessary unless outside of bag visibly contaminated).

Transport

Essential transport only. Place patient in a medical grade mask. Clean and disinfect transport equipment. Alert receiving department regarding patient/resident isolation precaution status.

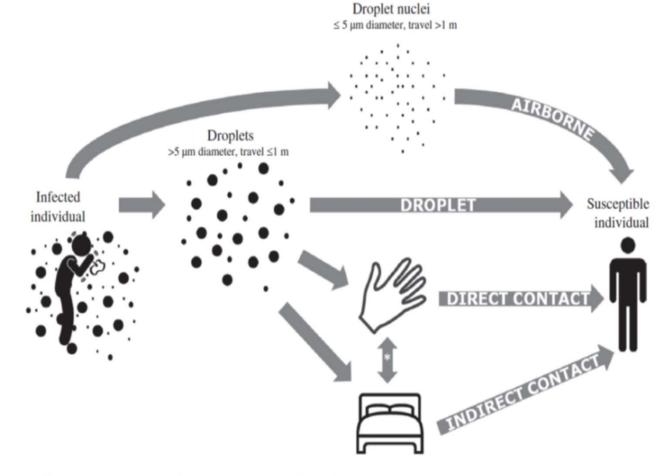
Duration of Precautions:

For guidance for duration of precautions, follow Appendix A-Type and Duration of Precautions Recommended for Selected Infections and Conditions within the CDC's 2007 Guideline for Isolation Precautions: Preventing Transmission of Infectious Agents in Healthcare Settings



TRANSMISSION-BASED PRECAUTIONS

- Combinations of precautions may be necessary based on the pathogen:
 - Droplet plus Contact
 - Airborne plus Contact



* Transmission routes involving a combination of hand & surface = indirect contact.

1Proceianoy RS, et al. J Pediatr (Rio J) 2002;11 April; 2 Almendros A, et al. Vet Rec 2020;4; 3Chin AWH, et al David Weber: Associate Chief Medical Officer, UNC Hospitals; Medical Director, Hospital Epidemiology: COVID-19 (SARS Co-V-2) Update



AIRBORNE CONTACT PRECAUTIONS

- Common conditions:
 - Chicken Pox
 - Disseminated Shingles
 - Smallpox
 - Monkey pox
 - 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



1. Airborne Contaminant Removal

Table B.1. Air changes/hour (ACH) and time required for airbornecontaminant 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



CHICKENPOX AND SHINGLES

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			

Non-immune healthcare personnel should not care for residents with Chickenpox or Shingles





AIRBORNE CONTACT **PRECAUTIONS**



PRECAUCIONES PARA LA TRANSMISION POR CONTACTO Y POR VIA AEREA

Family/Visitors should not visit if having signs or symptoms of an infection or a communicable disease. Visitation also based on facility's policy.

Los familiares y visitantes no deben visitar si tienen señales o sintomas de infección o de una enfermedad contagiosa. Las visitas también dependen de la política de la instalación.

Follow instructions below before entering room. Antes de entrar a la habitación, siga las instrucciones a continuación.

All Healthcare Personnel must:

Todo el personal de atención médica debe:



Clean hands before entering and when leaving room.

Lavarse las manos antes de entrar y al salir de la habitación.





Wear a gown when entering room and remove before leaving.

Usar una bata al entrar a la habitación y quitársela antes de salir.



Wear N95 or higher level respirator before entering the room and remove after exiting.

Usar un respirador N95 o un respirador de nivel superior antes de entrar a la habitación y quitárselo después de salir.





Wear gloves when entering room and remove before leaving.

Usar guantes al entrar a la habitación y guitárselos





Keep door closed. (Maintain negative pressure) Mantener la puerta cerrada. (Mantener presión negativa).

Additional PPE may be required per Standard Precautions.

Es posible que se exija utilizar equipo de protección personal adicional según las precauciones estándar.

Translated by LINC Health Interpreter Services

REVISED DATE: 1/20/2022

Airborne Contact Precautions

Remove sign after room is terminally cleaned upon discharge or discontinuation of precautions.

Common conditions (per CDC guidelines)

Chicken Pox

Disseminated Shingles

Smallpox

Monkey pox

Extrapulmonary tuberculosis (draining lesions)

Room Placement

Preferred placement for patients who require Airborne Precautions is in an airborne infection isolation room (AIR). An AIR is a single-patient room that is equipped with special air handling and ventilation capacity that meet the Facility Guidelines Institute (FGI) standards for AIR. In settings where Airborne Precautions cannot be implemented due to limited engineering resources (e.g., physician offices), masking the patient, placing the patient in a private room (e.g., office examination room) with the door closed, and providing N95 or higher level respirators or masks if respirators are not available for healthcare personnel will reduce the likelihood of airborne transmission until the patient is either transferred to a facility with an AIR or returned to the home environment, as deemed medically appropriate.

Personal Protective Equipment:

Put on in this order

- Alcohol based handrub or wash with soap and water if visibly soiled
- Fit tested NIOSH approved respirator (N95) or higher level respirator

Healthcare worker must be fit tested for respirator and visitors should see nurse for proper use.

Gloves

Take off and dispose in this order

- Gloves
- Gown- Unfasten gown ties, taking care that sleeves don't contact your body when reaching for ties. Pull gown away from neck and shoulders, touching inside of gown only.
- N95 respirator- Do NOT grasp front of respirator. Grasp bottom elastics then the ones at the top.
 - Alcohol based handrub or wash hands with soap and water if visibly soiled.

No special precautions. Should be managed in accordance with routine procedures.

Room Cleaning:

Follow facility policy for Airborne Contact Precautions

Tresh and Linen Management:

Bag linen and trash in patient room (double bagging of trash or linen is not necessary unless outside of bag visibly contaminated).

Transport:

Essential transport only. Place patient in a medical grade mask. Clean and disinfect transport equipment. Alert receiving department regarding patient isolation precaution status.

Duration of Precautions:

For guidance for duration of precautions, follow Appendix A-Type and Duration of Precautions Recommended for Selected Infections and Conditions within the CDC's 2007 Guideline for Isolation Precautions: Preventing Transmission of Infectious Agents in Healthcare Settings



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





DROPLET CONTACT **PRECAUTIONS**



PRECAUCIONES DE TRANSMISION POR GOTAS Y POR CONTACTO

Family/Visitors should not visit if having signs or symptoms of an infection or a communicable disease. Visitation also based on facility's policy.

Los familiares y visitantes no deben visitar si tienen señales o sintomas de infección o de una enfermedad contagiosa. Las visitas también dependen de la política de la instalación.

Follow instructions below before entering room. Antes de entrar a la habitación, siga las instrucciones a continuación,





Everyone must:

Todos deben:

Clean hands before entering and when leaving room.

Lavarse las manos antes de entrar y antes de salir de la habitación.





Wear a gown when entering room and remove before leaving.

Usar una bata al entrar a la habitación y quitársela antes de salir.





Wear surgical/procedure mask when entering the room. Remove immediately before leaving room.

Usar una mascarilla quirúrgica o para procedimientos al entrar a la habitación. Quitarsela justo antes de salir de la habitación.





Wear gloves when entering room. Perform hand hygiene after removing gloves.

Usar guantes al entrar a la habitación. Llevar a cabo la higiene de manos después de quitarse los guantes.

Additional PPE may be required per Standard Precautions.

Es posible que se exija utilizar equipo de protección personal adicional según las precauciones estándar.

Translated by UNC Health Interpreter Services

REVISED DATE: 1/20/2022

Droplet Contact Precautions

Remove sign after room is terminally cleaned upon discharge or discontinuation of precautions.

Common conditions (per CDC guidelines)

Rhinovirus if associated with copious secretions

Invasive group A streptococcal infection associated with soft tissue involvement Adenovirus pneumonia

Use private room when available. When private rooms are unavailable, place together in the same room persons who are colonized or infected with the same pathogen.

Spatial separation of 23 feet and drawing the curtain between patient/resident beds is especially important for patients/residents in multi-bed rooms with infections transmitted by the droplet route.

Personal Protective Equipment

Put on in this order

- Alcohol based handrub or wash with soap and water if visibly soiled
- Surgical/procedure mask- Cover nose, mouth, and chin. If wearing a mask with ties, all ties must be secured.
 - Gloves

Take off and dispose in this order.

- Gloves- perform hand hygiene after removing gloves
- Gown-Unfasten gown ties, taking care that sleeves don't contact your body when reaching for ties. Pull gown away from neck and shoulders, touching inside of gown only.
- Surgical/procedure mask—Do NOT grasp front of the mask when removing. Grasp bottom ties then the ties at top and pull away from face. For ear loop masks stretch the ear loops, remove, and handle only ear loops.

 Alcohol based handrub or wash hands with soap and water if visibly soiled.

Dishes/Utensils:

No special precautions. Should be managed in accordance with routine procedures.

Room and Equipment Cleaning:

Follow facility policy for Droplet Contact Precautions for room cleaning. Use patient-dedicated or single-use disposable equipment. If shared equipment is used, clean and disinfect between patients.

Trash and Linen Menagement:

Bag linen and trash in patient/resident room (double bagging of trash or linen is not necessary unless outside of bag visibly contaminated).

Transport:

Essential transport only. Place patient/resident in a medical grade mask. Clean and disinfect transport equipment. Alert receiving department regarding patient/resident isolation precaution status.

Duration of Precautions:

For guidance for duration of precautions, follow Appendix A-Type and Duration of Precautions Recommended for Selected Infections and Conditions within the CDC's 2007 Guideline for Isolation Precautions: Preventing Transmission of Infectious Agents in Healthcare Settings



SPECIAL DROPLET CONTACT PRECAUTIONS

- ► Common conditions:
 - ► SARS,
 - ► SAR-CoV-2 (COVID-19)
- 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 resident resident wearing a
 medical grade mask





SPECIAL DROPLET CONTACT PRECAUTIONS



PRECAUCIONES ESPECIALES PARA LA TRANSMISIÓN POR CONTACTO Y POR GOTAS

Family/Visitors should not visit if having signs or symptoms of an infection or a communicable disease. Visitation also based on facility is policy.

Los familiares y visitantes no deben visitar si tienen señales o síntomas de infección o de una enfermedad contagiosa. Las visitas también dependen de la política de la instalación.

Follow instructions below before entering room. Antes de entrar a la habitación, siga las instrucciones a continuación.



All Healthcare Personnel must:

Todo el personal de atención médica debe:

Clean hands before entering and when leaving room.

Lavarse las manos antes de entrar y antes de salir de la habitación.





Wear a gown when entering room and remove before leaving.

Usar una bata al entrar y quitársela antes de salir.





Wear N95 or higher level respirator before entering the room and remove after exiting.

Usar un respirador N95 o un respirador de nivel superior antes de entrar a la habitación y quitárselo después de salir.





Protective eyewear (face shield or goggles) Protección para los ojos (careta o gafas protectoras)



Wear gloves when entering room and remove before leaving.

Usar guantes al entrar a la habitación y quitárselos antes de salir.





Place in private room. Keep door closed (if safe to do so).

Colocar en habitación privada. Mantenga la puerta cerrada (si es seguro hacerlo).

Additional PPE may be required per Standard Precautions.

Es posible que se exija utilizar equipo de protección personal adicional según las precauciones estándar.

REVISED DATE: 2/9/2022

Special Droplet Contact Precautions

Remove sign after room is terminally cleaned upon discharge or discontinuation of precautions.

Common conditions (per CDC guidelines)

SARs, COVID-19

Room Placement:

Place patient in a single-person room. Keep the door closed UNLESS it poses a safety risk (i.e., fall, memory care units). Dedicated bathroom should be in the room. When private rooms are unavailable, place together in the same room persons who are colonized or infected with the same pathogen.

Aerosol Generating Procedures (AGPs) should be performed in an Airborne Infection Isolation Room (AIIR)

if available.

Personal Protective Equipment:

Put on in this order

- · Alcohol based handrub or wash with soap and water if visibly soiled
 - Gown
- . Fit tested NIOSH approved respirator (N95) or higher level respirator

Healthcare worker must be fit tested for respirator and visitors should see nurse for proper use.

- · Put on eye protection (face shield or goggles)
 - Gloves

Take off and dispose in this order • Gloves

- . Eye Protection- Remove goggles or face shield from the back by lifting head band or ear pieces
- . Gown- Unfasten gown ties, taking care that sleeves don't contact your body when reaching for ties . Pull gown away from neck and shoulders, touching inside of gown only.
- N95 respirator- Do NOT grasp front of the respirator. Grasp bottom elastics then the ones at the top.
 - · Alcohol based handrub or wash hands with soap and water if visibly soiled.

Dishes/Utensils:

No special precautions. Should be managed in accordance with routine procedures.

Room Cleaning:

Follow facility policy for Special Droplet Contact Precautions

Trash and Linen Management:

Bag linen and trash in patient/resident room (double bagging of trash or linen is not necessary unless outside of bag visibly contaminated).

Transport:

Essential transport only. Place patient/resident in a medical grade mask. Clean and disinfect transport equipment. Alert receiving department regarding patient/resident isolation precaution status.

Duration of Precautions:

For guidance for duration of precautions, follow Appendix A- Type and Duration of Precautions Recommended for Selected Infections and Conditions within the CDC's 2007 Guideline for Isolation Precautions: Preventing Transmission of Infectious Agents in Healthcare Settings



VIRAL RESPIRATORY PATHOGENS TOOLKIT FOR **NURSING HOMES**

PREPARE

- Vaccinate
- Allocate resources
- Monitor and Mask
- Educate
- Ventilate
- Test and treat

RESPOND

- TBP based on pathogen
- Remain in room
- Physical distancing and face mask if outside room
- PPE based on TBP
- Non-punitive sick leave policies for HCP
- Test if symptomatic
- Treat

CONTROL

- Notify the local/state **PHD**
- Initial attempts
- Additional measures

Investigate
 https://www.cdc.gov/longtermcare/prevention/viral-respiratory-toolkit.html



WHEN TO DISCONTINUE TBP PRECAUTIONS

- Resume Standard Precautions once high-risk exposures or active symptoms have discontinued
 - Refer to Appendix A in the 2007 Isolation Guidelines-updated 2018

Type and Duration of Precautions Recommended for Selected Infections and Conditions¹

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

Appendix A Updates [September 2018]

Changes: Updates and clarifications made to the table in Appendix A: Type and Duration of Precautions Recommended for Selected Infections and Conditions.

A B C D E F G H I J K L M N O P Q R S I U V W Y Z

A

Infection/Condition	Type of Precaution	Duration of Precaution	Precautions/Comments
Abscess Draining, major	Contact + Standard	Duration of illness	Until drainage stops or can be contained by dressing.

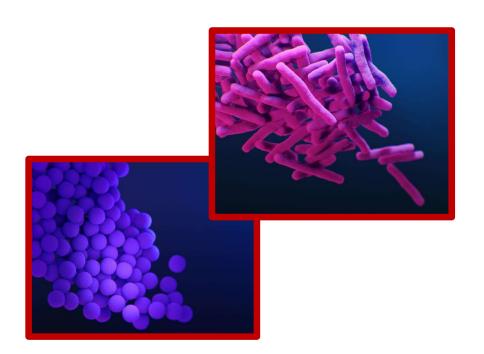






MULTIDRUG RESISTANT ORGANISMS

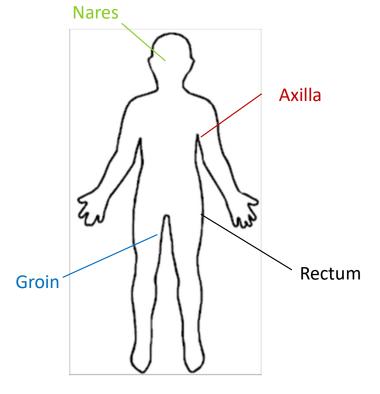
- MDRO- Organisms that develop resistance to one or more classes of antibiotics. This may result in typical antibiotic regimens not working or becoming less effective.
- Cause infections and/or colonization
- ► Infections caused by MDROs are:
 - More difficult to treat
 - Require more toxic antibiotics 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





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, frequent antibiotic exposure, and dependence on healthcare workers, in the setting of communal living, all serve to increase the risk of nursing home residents becoming colonized or infected with healthcareacquired bacterial pathogens. " (Dumyati, et. Al., 2017)



The Large Burden of MDROs in Nursing Homes

Facility Type	Documented MDRO	Actual MDRO
Nursing Homes (n = 14)	17% iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	58% İİİİİİİİİİ
Ventilator-Capable Nursing Homes (n = 4)	20%	76% Trititi

McKinnell JA et al, Clin Infect Dis. 2019; 69(9):1566-1573





Slide acknowledgement CDC presentation





- Residents in nursing homes are at increased risk of becoming colonized and developing infections with multidrug-resistant organisms (MDROs)
- S. aureus and MDRO colonization prevalence among residents in skilled nursing homes is estimated at greater than 50%, with new acquisitions occurring frequently
- Implicated in outbreaks
- Invasive devices and wounds increase risk for colonization and/or acquisition
- Transmission via healthcare personnel hands, or clothing

https://www.cdc.gov/hicpac/workgroup/EnhancedBarrierPrecautions.html



BACKGROUND

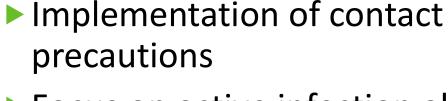
- ► Available evidence suggests routine use of EBP for residents with wounds or indwelling medical devices would reduce the transmission of *S. aureus* and MDROs (a randomized clinical trial¹).
- ▶ Quasi-experimental study² routine use of EBP during high-risk care of residents with wounds or indwelling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



CHALLENGES



- ► Focus on <u>active infection</u> alone fails to address risk of transmission from residents with MDRO colonization
- ► Growing evidence that the traditional implementation of contact precautions in nursing homes is not implementable for most residents for prevention of MDRO transmission





Implementation of Personal Protective Equipment (PPE) Use in Nursing Homes to Prevent Spread of Multidrug-resistant Organisms (MDROs)

Print version: Implementation of PPE in Nursing Homes to Prevent Spread of MDROs [PDF - 7 pages]

Summary of Recent Changes:

- Added additional rationale for the use of Enhanced Barrier Precautions (EBP) in nursing homes, including the high prevalence of multidrugresistant organism (MDRO) colonization among residents in this setting.
- Expanded residents for whom EBP applies to include any resident with an indwelling medical device or wound (regardless of MDRO colonization or infection status).
- Expanded MDROs for which EBP applies.
- Clarified that, in the majority of situations, EBP are to be continued for the duration of a resident's admission.

On this Page

Background

Description of Precautions

Summary of PPE Use and Room Restriction

Implementation

References

Resources

https://www.cdc.gov/hai/containment/PPE-Nursing-Homes.html



DEPARTMENT OF HEALTH & HUMAN SERVICES Centers for Medicare & Medicaid Services 7500 Security Boulevard, Mail Stop C2-21-16 Baltimore, Maryland 21244-1850



Center for Clinical Standards and Quality/Quality, Safety & Oversight Group

Ref: QSO-24-08-NH

DATE: March 20, 2024

TO: State Survey Agency Directors

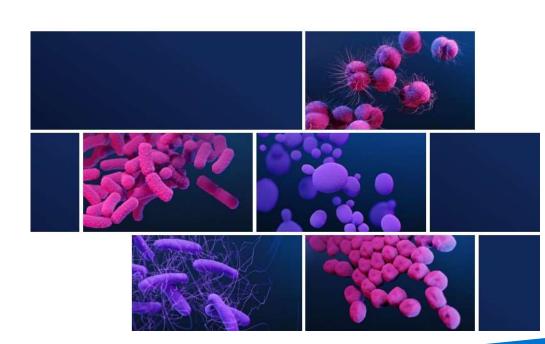
FROM: Director, Quality, Safety & Oversight Group (QSOG)

SUBJECT: Enhanced Barrier Precautions in Nursing Homes



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





ADDITIONAL EPIDEMIOLOGICALLY IMPORTANT MDROs

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

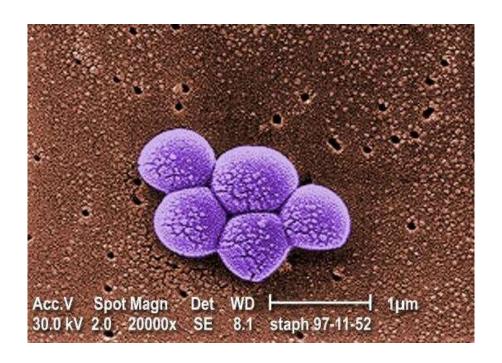


Photo credit: Public Health Image Library (PHIL)

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



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









Invasive devices

Wounds



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.





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.









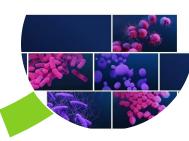
PPE place immediately outside the room

CDC



Clear signage placed <u>outside</u> on the door or wall next to room

201.



<u>Targeted and</u> <u>epidemiologically</u> important MDROs





PPE and ABHR <u>readily</u> <u>accessible to staff</u>.
Discretion can be used to place near or outside the room





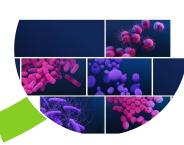
Facilities can <u>use</u>

<u>discretion on how to</u>

<u>communicate to staff</u>

to maintain a homelike environment

201.



CDC <u>targeted MDROs</u> and <u>discretion</u> to use for MDROs not targeted.





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.



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.





ENHANCED BARRIER PRECAUTIONS (LTCFs)



PRECAUCIONES CON BARRERAS REFORZADAS (CENTROS DE LARGA ESTANCIA)

Family/Visitors should not visit if having signs or symptoms of an infection or a communicable disease. Visitation also based on facility's policy.

Los familiares y visitantes no deben visitar si tienen señales o sintomas de infección o de una enfermedad contagiosa. Las visitas también dependen de la política de la instalación.

Follow instructions below before entering room

Antes de entrar a la habitación, siga las instrucciones a continuación,



Everyone must:

Todos deben:

Clean hands before entering and after leaving room.

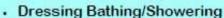
Lavarse las manos antes de entrar y antes de salir de la habitación.



All Healthcare Personnel must:

Todo el personal de atención médica debe:

Wear gloves and gown for the following High-Contact Resident Care Activities:



- Transferring
- · Changing Linens
- Providing Hygiene
- · Changing briefs or assisting with toileting
- Device care or use: central line, urinary catheter, feeding tube, tracheostomy
 - Wound Care: any skin opening requiring a dressing

Usar guantes y bata para las siguientes actividades de alto contacto durante el cuidado de residentes:

- Vestir, bañar, duchar, trasladar, cambiar la ropa de cama.
- Proporcionar higiene, cambiar la ropa interior o ayudar a usar el baño.
- Cuidado o uso de dispositivos: vía central, sonda urinaria, sonda de alimentación, traqueostomia.

Additional PPE may be required per Standard Precautions. Es posible que se exija utilizar equipo de protección personal adicional según las precauciones estandar.

Translated by UNC Health Interpreter Services

REVISED DATE: 7/26/2022



ENHANCED PRECAUTIONS



Clean their hands, including before entering and when leaving the room.

PROVIDERS AND STAFF MUST ALSO:



Wear gloves and a gown for the following **High-Contact Resident Care Activities.**

Dressing Transferring **Changing Linens Providing Hygiene** Device care or use:

Bathing/Showering Changing briefs or assisting with toileting

central line, urinary catheter, feeding tube, tracheostomy

Wound Care: any skin opening requiring a dressing

Do not wear the same gown and gloves for the care of more than one person.



Health and Human Services



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





NEUTROPENIC PRECAUTIONS



Not included in CDC's Guidelines for Isolation Precautions

PRECAUCIONES NEUTROPENICAS

Family/Visitors should not visit if having signs or symptoms of an infection or a communicable disease. Visitation also based on facility's policy.

Los familiares y visitantes no deben visitar si tienen señales o sintomas de infección o de una enfermedad contagiosa. Las visitas también dependen de la politica de la instalación.

Follow instructions below before entering room. Antes de entrar a la habitación, siga las instrucciones a continuación.



Everyone must:

Todos deben:

Clean hands before entering and when leaving room.

Lavarse las manos antes de entrar y antes de salir de la habitación.





Avoid raw or under cooked fruits or vegetables; raw or undercooked eggs or shellfish

Evitar las frutas y verduras crudas o poco cocidas; los huevos o mariscos crudos o poco cocidos.





No live flowers or plants.

No se permiten flores ni plantas vivas.





Do not enter if feeling unwell.

No entre si está enfermo.

Additional PPE may be required per Standard Precautions.

Es posible que se exija utilizar equipo de protección personal adicional según las precauciones estándar.

Translated by UNC Health Interpreter Services

REVISED DATE: 1/20/2022

Neutropenic Precautions

Neutropenia — The definition of neutropenia varies from institution to institution, but neutropenia is usually defined as an absolute neutrophil count (ANC) <1500 or 1000 cells/microL and severe neutropenia as an ANC <500 cells/microL or an ANC that is expected to decrease to <500 cells/microl, over the next 48 hours [2,3]. Profound neutropenia is defined as an ANC <100 cells/microL. The risk of clinically important infection rises as the neutrophil count falls below 500 cells/microL and is higher in those with a prolonged duration of neutropenia (>7 days).

Room Piscement:

Use private room when available.

Personal Protective Equipment

Per Standard Precautions

Dishes/Utenells:

No special precautions. Should be managed in accordance with routine procedures.

Room Cleaning:

Follow facility policy for Neutropenic Precautions

Trash and Linen Management:

Bag linen and trash in patient/resident room (double bagging of trash or linen is not necessary unless outside of bag visibly contaminated).

Essential transport only. Place patient/resident in a medical grade mask. Clean and disinfect transport equipment. Alert receiving department regarding patient/resident isolation precaution

Other Special Precautions:

- · No live flowers or plants.
- · Do not enter if feeling unwell.
- Avoid fresh uncooked fruits and vegetables (cooked fruits and vegetables are okay), raw or undercooked eggs or shellfish. Only use desiccated pepper.



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.



RESOURCES

Implementation of Personal Protective Equipment (PPE) Use in Nursing Homes to Prevent Spread of Multidrug-resistant Organisms (MDROs) https://www.cdc.gov/hai/containment/PPE-Nursing-Homes.html

Frequently Asked Questions (FAQs) about Enhanced Barrier Precautions in Nursing Homes https://www.cdc.gov/hai/containment/faqs.html

Considerations for Use of Enhanced Barrier Precautions in Skilled Nursing Facilities https://www.cdc.gov/hicpac/workgroup/EnhancedBarrierPrecautions.html?msclkid=390384 17aed311ec8c868e1e03c50297

Enhanced Barrier Precautions Letter to Nursing Home Residents, Families, Friends, and Volunteers https://www.cdc.gov/hai/pdfs/containment/Letter-Nursing-Home-Residents-Families-Friends.pdf

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



ADDITIONAL RESOURCES

Type and Duration of Precautions Recommended for Selected Infections and Conditions

https://www.cdc.gov/infectioncontrol/guidelines/isolation/appendix/type-duration-precautions.html

CMS QSO-24-08-NH

SUBJECT: Enhanced Barrier Precautions in Nursing Homes

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

NC Statewide Program for Infection Control and Prevention (SPICE)

https://spice.unc.edu/



Enhanced Barrier Precautions

How We Keep Our Residents Safe

What's New

We are using Enhanced Barrier Precautions to help protect our residents from infection. You may notice:

- New signs throughout the facility
- Staff wearing gowns and gloves for high-contact care activities

Why We're Making These Changes

We are taking action to protect our residents from dangerous germs. These germs can cause infections that are hard to treat.

Enhanced Barrier Precautions allow us to provide safe, high quality care and help stop the spread of germs within our facility.





More than
50%
of nursing home residents carry a
multidrug-resistant organism.

How to Help When You Visit

You can help stop the spread of germs by cleaning your hands with alcohol-based hand sanitizer or soap and water.

Learn more about Enhanced Barrier Precautions: bit.ly/PPE-NursingHomes





https://www.cdc.gov/hai/containment/PPE-Nursing-Homes.html





