COCA Call Information

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- US: 1(646) 876-9923 or 1(669) 900-6833
- Webinar ID: 535 497 188

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Preventing the Spread of Novel or Targeted Multidrug-resistant Organisms (MDROs) in Nursing Homes through Enhanced Barrier Precautions

Clinician Outreach and Communication Activity (COCA) Webinar

emergency.cdc.gov/coca

October 24, 2019



Continuing Education for this COCA Call

All continuing education (CME, CNE, CEU, CECH, ACPE, CPH, and AAVSB/RACE) for COCA Calls are issued online through the <u>CDC</u> <u>Training & Continuing Education Online system</u> (<u>http://www.cdc.gov/TCEOnline/</u>).

Those who participated in today's COCA Call and who wish to receive continuing education should complete the online evaluation by November 25, 2019 with the course code WC2922.

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 - 404-639-3286 or send an email to media@cdc.gov.
- □ If you are a patient, please refer your questions to your healthcare provider.

At the conclusion of the session, participants will be able to accomplish the following:

- **1.** Describe the burden of multidrug-resistant organisms (MDROs).
- 2. Describe challenges to preventing MDRO transmission in nursing homes.
- 3. Define Standard Precautions, Enhanced Barrier Precautions, and Contact Precautions.
- 4. Identify which residents and activities meet criteria for Enhanced Barrier Precautions.
- **5.** Discuss best practices for implementing Enhanced Barrier Precautions.

Today's First Presenter



Nimalie Stone, MD, MS Team Lead, Long-term Care Team Prevention and Response Branch Division of Healthcare Quality Promotion Centers for Disease Control and Prevention



Today's Second Presenter



Kara Jacobs-Slifka, MD, MPH LCDR United States Public Health Service Long-term Care Team, Prevention and Response Branch Division of Healthcare Quality Promotion Centers for Disease Control and Prevention





Enhanced Barrier Precautions in Nursing Homes to Prevent the Spread of Novel or Targeted Multidrug-Resistant Organisms

Nimalie D. Stone, MD, MS Kara Jacobs-Slifka, MD, MPH Long-term Care Team, Prevention and Response Branch Division of Healthcare Quality Promotion

CDC Clinician Outreach and Communication Activity (COCA) October 24, 2019

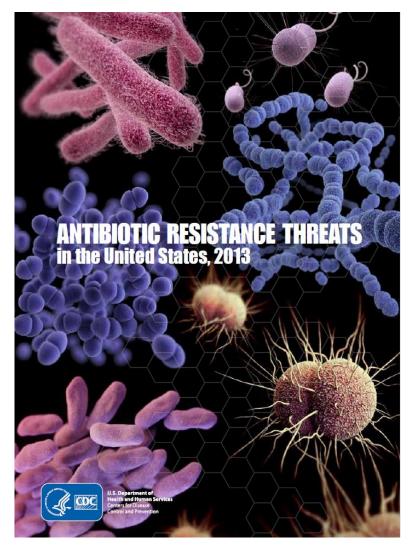
Today's Outline

- Burden of multidrug-resistant organisms (MDRO)
- Challenges with preventing MDRO transmission
- Define Standard Precautions, Enhanced Barrier Precautions, and Contact Precautions
- Identify which residents and activities meet criteria for Enhanced Barrier Precautions
- Discuss best practices for implementing Enhanced Barrier Precautions

Threat of Antibiotic Resistance (AR)

- 2013 CDC Antibiotic Resistance Threats in the United States
 - Estimated more than 2 million antibiotic-resistant infections and at least 23,000 deaths in US hospitals each year
- Infections from antibiotic resistant organisms are more costly and difficult to treat
- Capacity to detect new antibiotic resistance is constantly expanding

<u>Antibiotic Resistance (AR) Biggest Threats and Data</u> (https://www.cdc.gov/drugresistance/biggest-threats.html)





Carbapenemase-Producing Organisms (CPOs): Emerging Resistance Threat

- Produce enzymes that breakdown carbapenems
- Carry resistance genes on mobile genetic elements, called plasmids, that can be easily spread
- Cause invasive infections associated with high mortality rates due to challenges finding effective antibiotic treatment
- Emerging throughout the United States and around the globe



Carbapenemases found in CPOs

- Multiple different mechanisms can cause high level resistance
 - Examples of Carbapenemase-producing genes found in CRE (CP-CRE)
 - KPC Klebsiella pneumoniae carbapenemase (most common in U.S.)
 - NDM New Delhi Metallo-β-lactamase
 - VIM Verona Integron-encoded Metallo- β -lactamase
 - **OXA** Oxacillinase-48-type carbapenemases
 - IMP Imipenemase Metallo- β –lactamase
- These genes have been reported in Enterobacteriaceae, Pseudomonas aeruginosa and Acinetobacter baumannii
- Public health laboratories offer carbapenemase testing

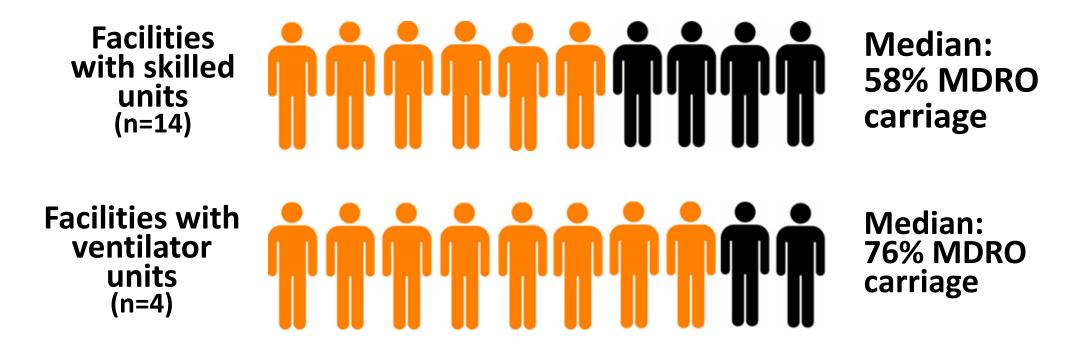


Candida auris

- Emerging fungal pathogen
- Tends to be drug-resistant
- Colonized individuals have risk of invasive infection
 - 5-10% develop *C. auris* bloodstream infection within a year
- Yeast that spreads easily in healthcare settings, similar to resistant bacteria



Snapshot of Multidrug-Resistant Organism (MDRO) Carriage in Nursing Homes



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

Risks for MDRO Colonization and Acquisition in Nursing Homes

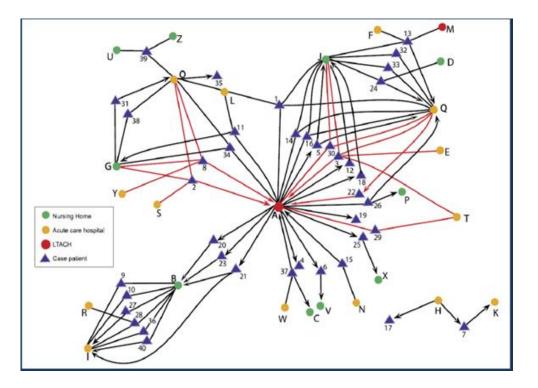
- Indwelling medical devices (e.g., urinary catheter, PEG tube, tracheostomy/vents, central line)
- Presence of wounds or decubitus ulcers
- Antibiotic use in prior 3 months, particularly fluoroquinolones
- Recent hospitalization
- Comorbid medical conditions
- Increased functional dependence



Prolonged length of stay also increases opportunities for spread

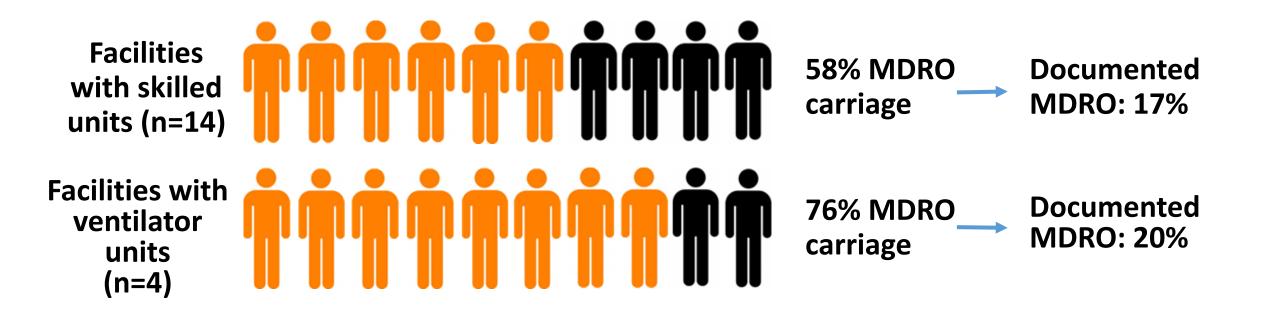
Healthcare Networks Drive MDRO Spread

- Patient movements amplify the regional burden of MDROs, especially in centers with:
 - Longer length of stay
 - Increasing acuity of care
 - Decreased staff: patient ratios
 - Gaps in infection prevention practices



Won SY et al. Clin Infect Dis. 2011;53(6):532-540.

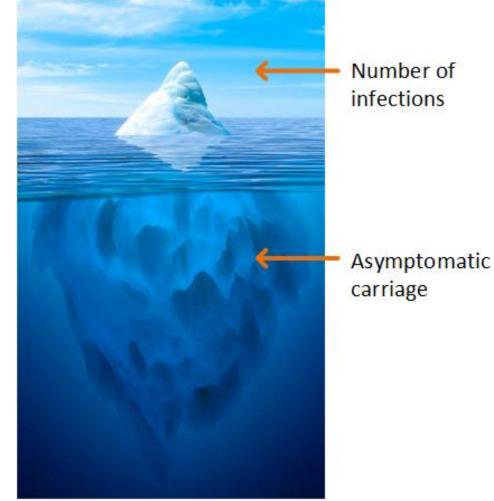
Unrecognized MDRO Carriage in Nursing Homes



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

Challenges with Detection of MDROs

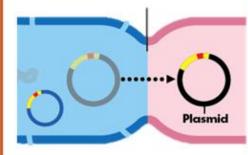
- Clinical cultures underestimate true prevalence of MDROs
- Most centers are not performing active surveillance to identify asymptomatic, colonized residents
 - Contribute to the reservoir for transmission
- Inadequate communication about individual MDRO history or risk factors between healthcare facilities during care transitions



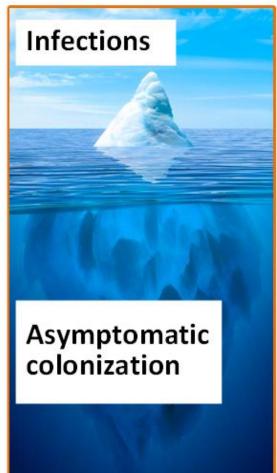
Characteristics of Novel/Targeted MDROs in Healthcare

Resistance





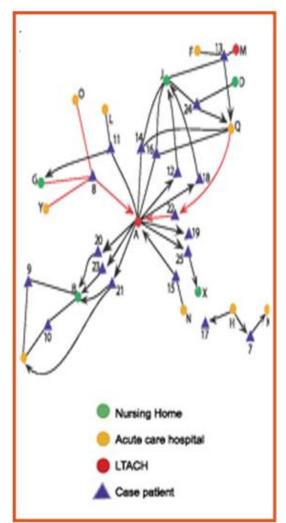
Detection



Transmission

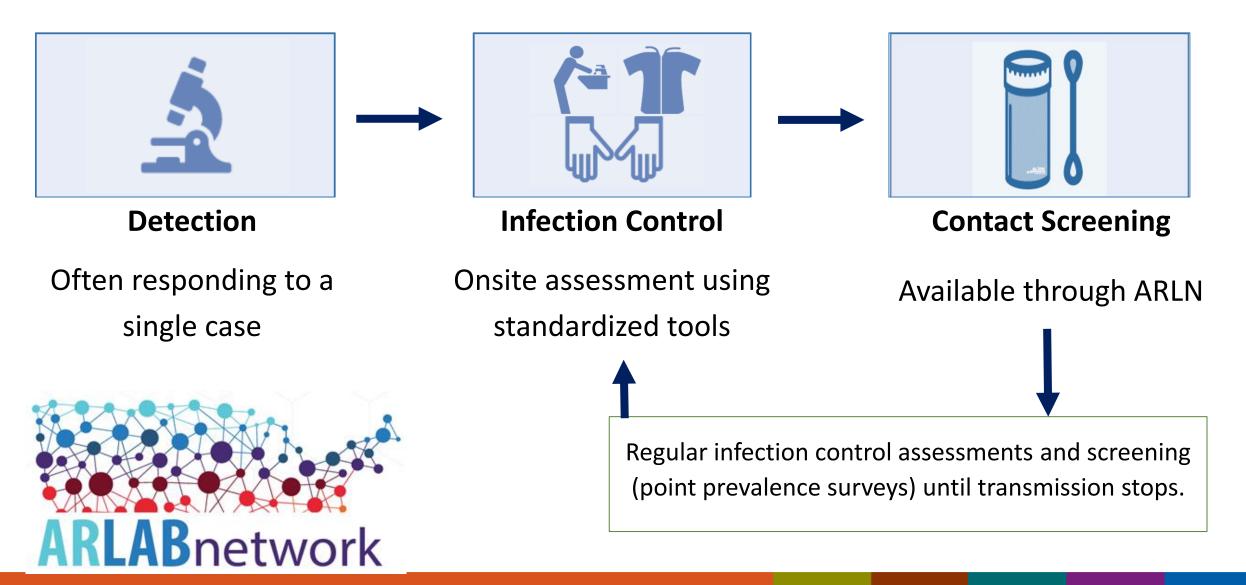


Spread



Containment Strategy

Systematic public health response to slow the spread of emerging AR

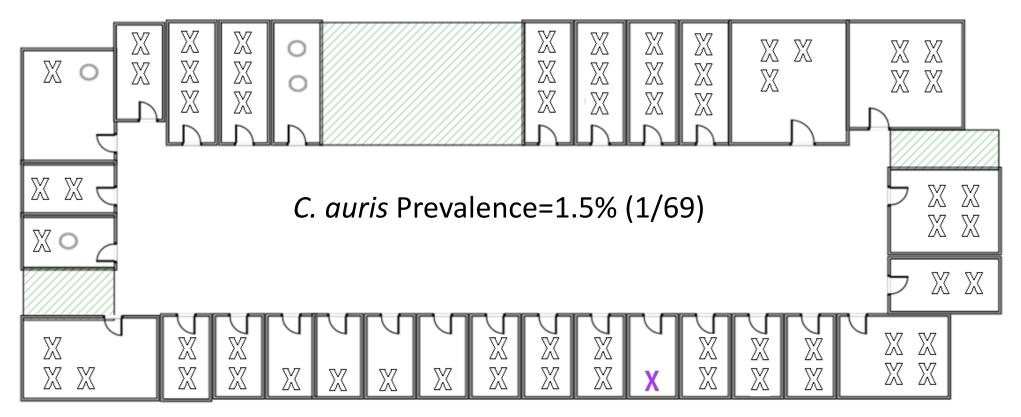


AR Containment Response Experience in Post-acute Care

Review of ~113 CDC supported responses to emerging AR pathogens from Jan 2017-Dec 2018

- Over 60% (72) involved post-acute care facilities (i.e., long-term acute care hospitals, nursing homes, inpatient rehabilitation facilities)
 - 70% of these post-acute care responses occurred in high-acuity facilities, LTACHs or nursing homes with ventilator units
- Although ventilator services in nursing homes remain relatively rare, (<5%),
 25% of AR containment responses involved nursing homes with this capability

Ventilator Floor March 2017 C. auris Prevalence

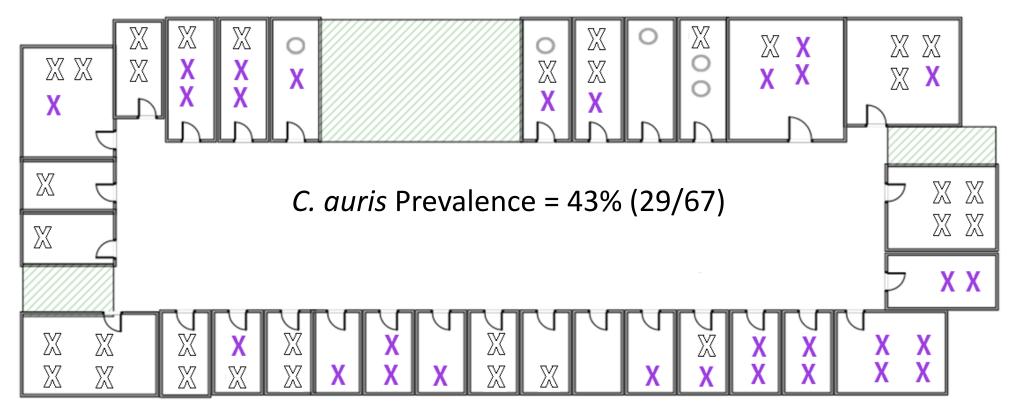


X C. auris positive (1)

- X Screened negative for *C. auris* (64)
- Not tested for *C. auris* (refused or not in room) (4)

Slide courtesy of Chicago Department of Public Health.

Ventilator Floor January 2018 C. auris Prevalence

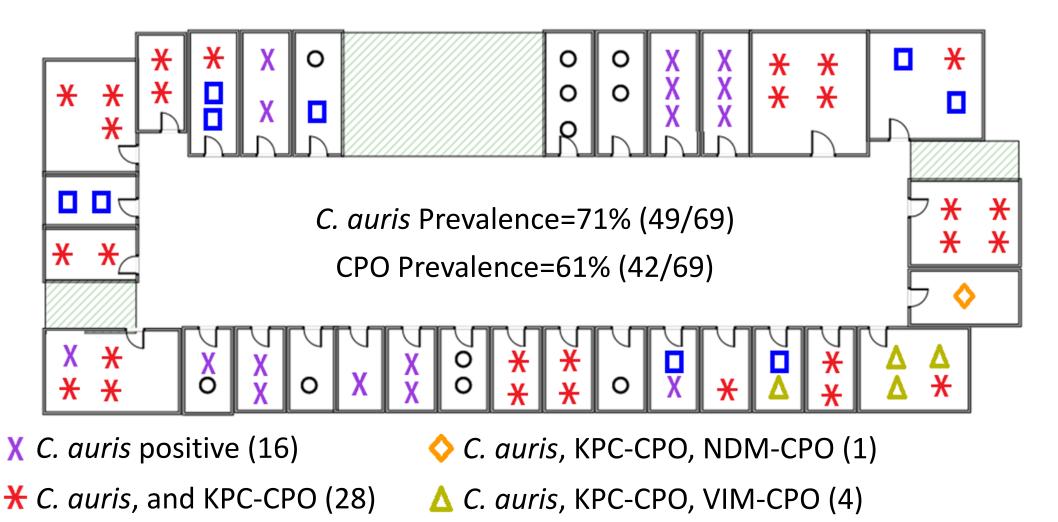


X C. auris positive (29)

- X Screened negative for *C. auris* (33)
- Not tested for *C. auris* (refused or not in room) (5)

Slide courtesy of Chicago Department of Public Health.

Ventilator Floor October 2018 C. auris and CPO Prevalence



KPC-CPO (9)

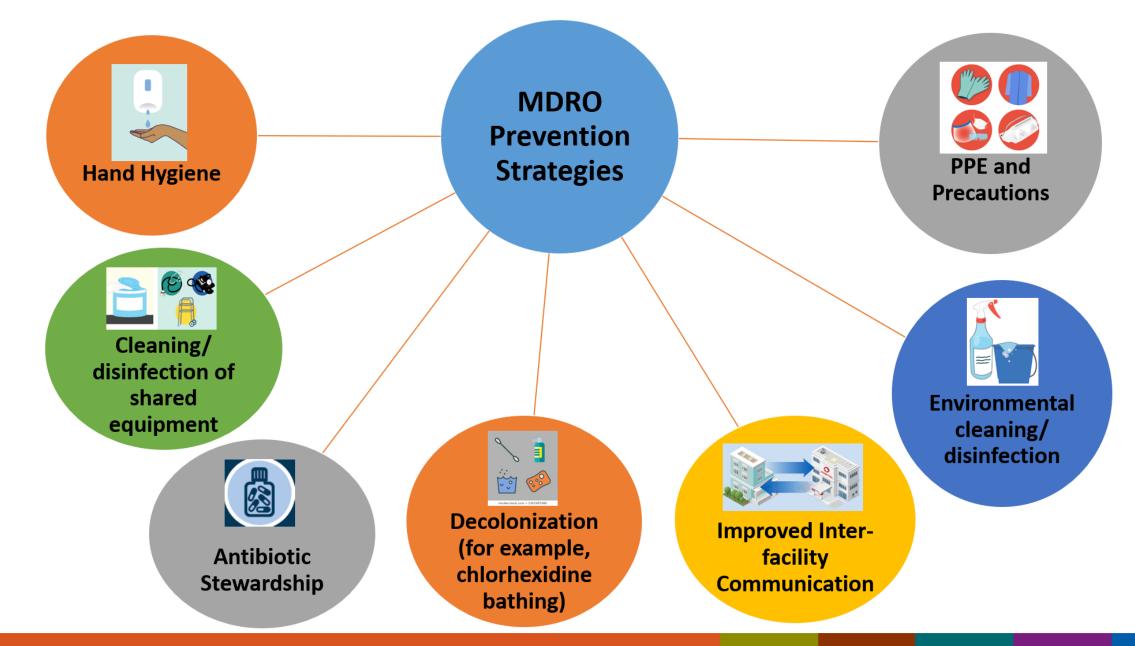
• No known CPO or *C. auris* (11)

Slide courtesy of Chicago Department of Public Health.

Common Infection Control Challenges Identified during AR Containment Responses

- Gaps in adherence to hand hygiene, limited access to alcohol-based hand rubs inside and outside of resident rooms
- Limited access to personal protective equipment (PPE) and minimal use of Contact Precautions
- Improper product selection, use and frequency to reduce environmental surface contamination within shared rooms
- Inadequate cleaning/disinfection of equipment shared between residents
- Incomplete communication of MDRO history or risk factors during facility transfers

MDRO Prevention: Novel and Core Strategies



Implementing PPE and Precautions in Nursing Homes

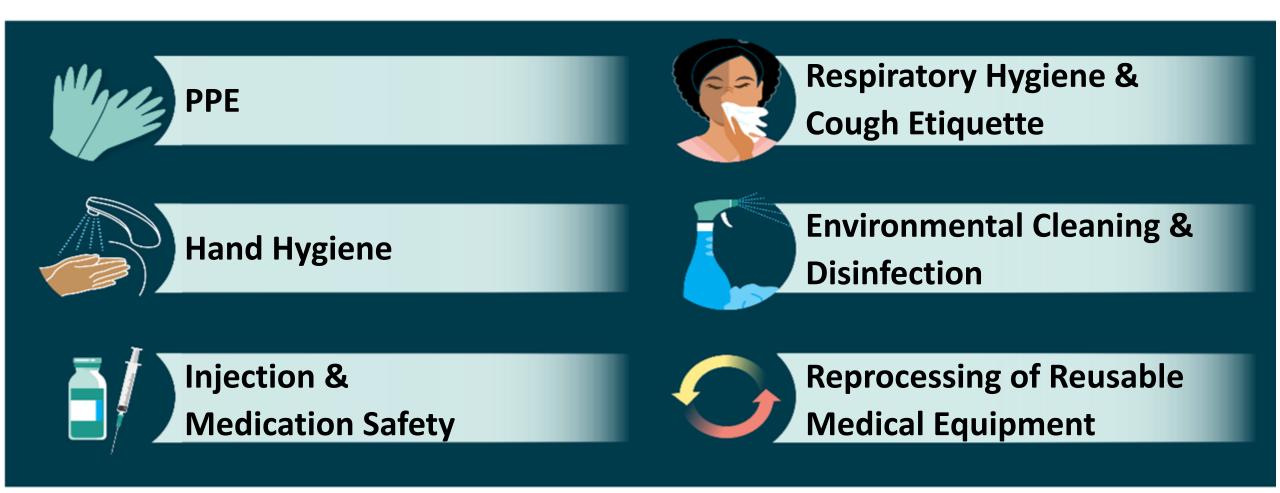
Personal Protective Equipment (PPE) & Precautions

Standard Precautions



Transmission-Based Precautions

Standard Precautions



Transmission-Based Precautions





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

PROVIDERS AND STAFF MUST ALSO:



Put on gown before room entry. Discard gown before room exit.

Put on gloves before room entry. Discard gloves before room exit.

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



Use dedicated or disposable equipment. Clean and disinfect reusable equipment before use on another person.







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



Make sure their eyes, nose and mouth are fully covered before room entry.

or



Remove face protection before room exit.





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



Put on a fit-tested N-95 or higher level respirator before room entry.

Remove respirator after exiting the room and closing the door.



Door to room must remain closed.

CDC

Transmission-Based Precautions

(https://www.cdc.gov/infectioncontrol/basics/transmission-based-precautions.html)

Contact Precautions for MDROs

- Perform hand hygiene
- Gown and gloves upon room entry
- Dedicated equipment
- Private room
- Room restriction





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

PROVIDERS AND STAFF MUST ALSO:



Put on gloves before room entry. Discard gloves before room exit.



Put on gown before room entry. Discard gown before room exit.

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



Use dedicated or disposable equipment. Clean and disinfect reusable equipment before use on another person.



U.S. Department of Health and Human Services Centers for Disease Control and Prevention

Difficulty in Applying Transmission-Based Precautions for MDROs in Nursing Homes

- "Transmission-Based Precautions must be used when a resident develops signs and symptoms of a transmissible infection"
- "Facility policies must identify type and duration of Transmission-Based Precautions"
- "Transmission-Based Precautions should be the least restrictive possible for the resident based on his/her clinical situation and used for the least amount of time"
- "Once the resident is no longer a risk for transmitting the infection... removing Transmission-Based Precautions is required"

Department of Health and Human Services. Centers for Medicare and Medicaid Services. Rev. 173, 11-22-17. <u>State Operations Manual Appendix PP: Guidance to Surveyors for Long Term Care Facilities [PDF – 749 pages]</u>

https://www.cms.gov/Regulations-and-Guidance/Guidance/Manuals/downloads/som107ap_pp_guidelines_ltcf.pdf

Difficulty in Applying Transmission-Based Precautions for MDROs in Nursing Homes

- "Transmissior Colonization ≠ Infection pn"
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- "Transmission-Based Precautions should be the least restrictive possible for the resident based on his/her clinical situation and used for the least amount of time"
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Difficulty in Applying Transmission-Based Precautions for MDROs in Nursing Homes

- "Transmissior resident **Colonization** ≠ Infection develops sign bn" "Facility policies must identify type and duration of Transmission-Based Precautions" Duration of MDRO colonization can be "Transmis ve possible f d used for prolonged (>6 months) the **least**
- "Once the resident is no longer a risk for transmitting the infection... removing Transmission-Based Precautions is required"

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Difficulty in Applying Transmission-Based Precautions for MDROs in Nursing Homes

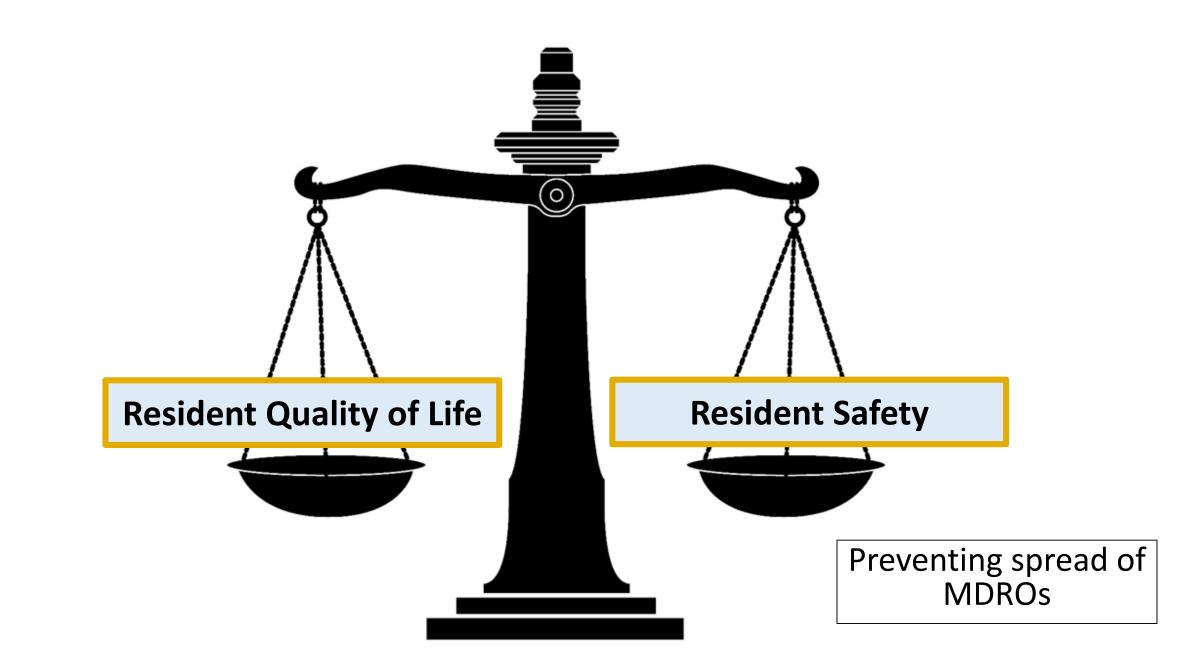
"Transmission resident **Colonization** ≠ Infection develops sign bn" "Facility policies must identify type and duration of Transmission-Based Precautions" Duration of MDRO colonization can be "Transmis ve d used for possible f prolonged (>6 months) the **least** "Once . . . **Resident remains at risk for transmitting the MDRO** remov even when not actively infected

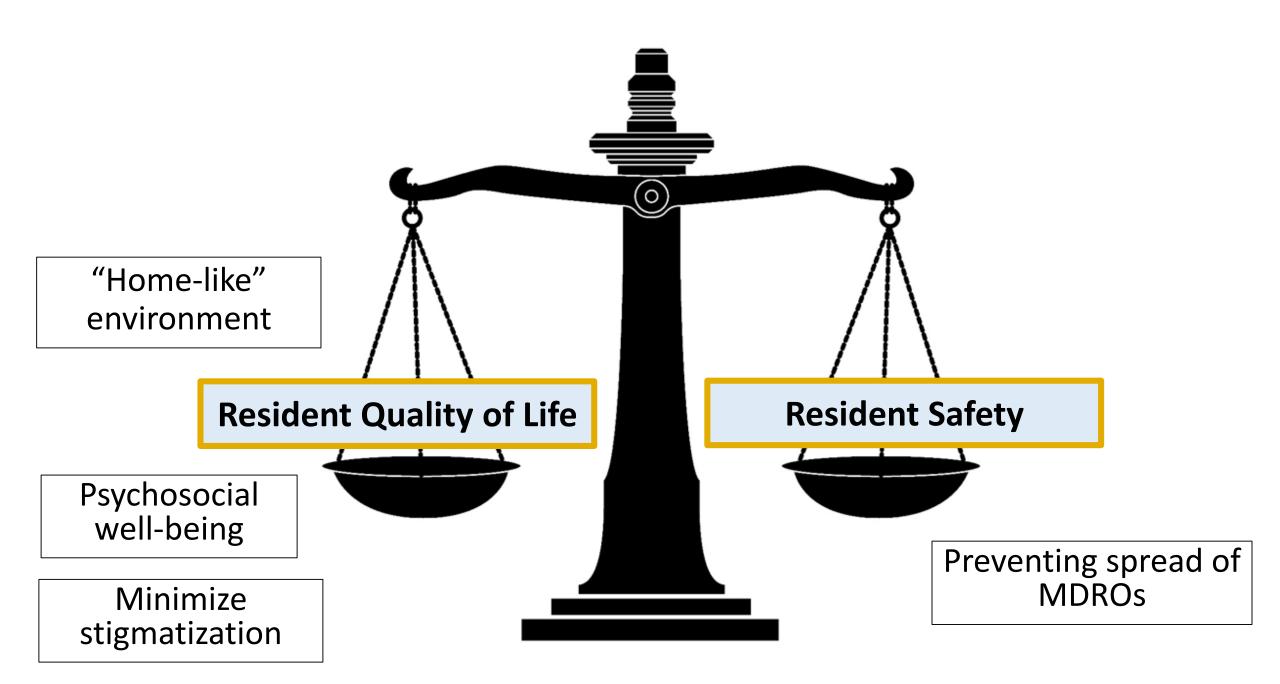
Department of Health and Human Services. Centers for Medicare and Medicaid Services. Rev. 173, 11-22-17. <u>State Operations Manual Appendix PP: Guidance to Surveyors for Long Term Care Facilities [PDF – 749 pages]</u>

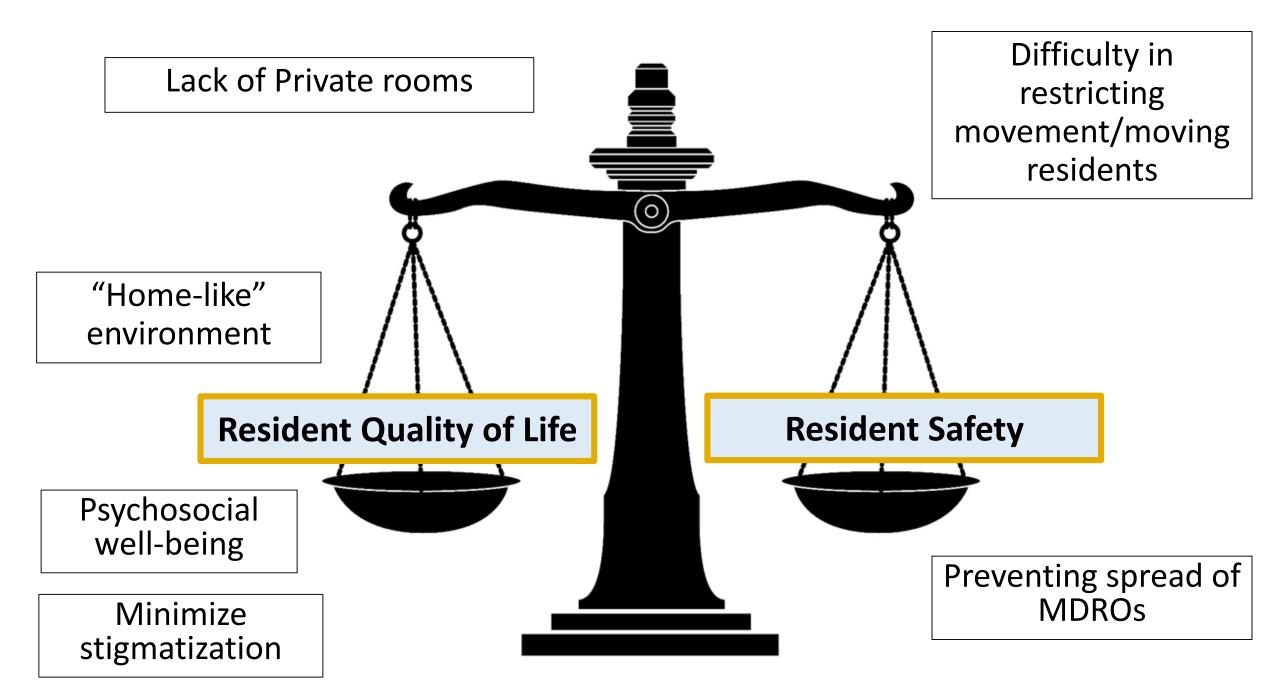
https://www.cms.gov/Regulations-and-Guidance/Guidance/Manuals/downloads/som107ap_pp_guidelines_ltcf.pdf

Focusing only on residents with active infection fails to address the **continued risk of transmission from residents with MDRO colonization**,

which can persist for long periods of time (e.g., months), and result in the silent spread of MDROs.







The Need for a New Approach

- Clarification of how and when to use PPE and room restriction to prevent the spread of MDROs
- Balanced approach to managing the prolonged colonization and preventing the silent spread of MDROs
- Consider at-risk nursing home residents

Enhanced Barrier Precautions (EBP): Guidance for Nursing Homes to Prevent MDRO Spread

Centers for Disease C CDC 24/7: Saving Lives, Protec	Search	A-Z Index Q			
Healthcare-associated	Infect	ions			
CDC > Healthcare-associated Infectio	e 🖸 🕤	∞ 🧐			
 Healthcare-associated Infect (HAI) HAI Data Types of Infections 	tions + +	Implementation of Personal Protectiv (PPE) in Nursing Homes to Prevent S Targeted Multidrug-resistant Organi	pread of Nove		
Diseases and Organisms	+		On This Page		
Preventing HAIs	+	Note: This Interim Guidance was updated on 07/26/2019 to clarify its current intended use as part of a Containment Response ¹ . Future updates are	Description of Existing Preca	utions	
Containment Strategy	_	anticipated to address potential for application of this approach outside of a Containment Response.	Description of New Precautio	ons	
What Can Be Done			Summary of PPE Use and Room Restriction		
Guidelines		Print version: Implementation of PPE in Nursing Homes to Prevent Spread of	Implementation		
Case Studies		MDROs P [PDF – 6 pages]	References		
PPE in Nursing Homes					
State-based HAI Prevention Activities	+	Implementation of Contact Precautions, as described in the CDC <u>Guideline for Isolation Precautions</u> , is perceived to create challenges for nursing homes trying to balance the use of PPE and room restriction to prevent MDRO transmission with residents' quality of life. Thus, current practice in many nursing homes is to implement Contact Precautions only when residents are infected with an MDRO and on treatment.			
Research	+				

Implementation of PPE in Nursing Homes to Prevent Spread of Novel or Targeted MDROs https://www.cdc.gov/hai/containment/PPE-Nursing-Homes.html **"Enhanced Barrier Precautions** expand the use of PPE beyond situations in which exposure to blood and body fluids is anticipated

and refer to the <u>use of gown and gloves during</u> <u>high-contact resident care activities</u> that provide opportunities for transfer of MDROs to staff hands and clothing."

High-contact Resident Care Activities

- Dressing
- Bathing/showering
- Transferring
- Providing hygiene
- Changing linens

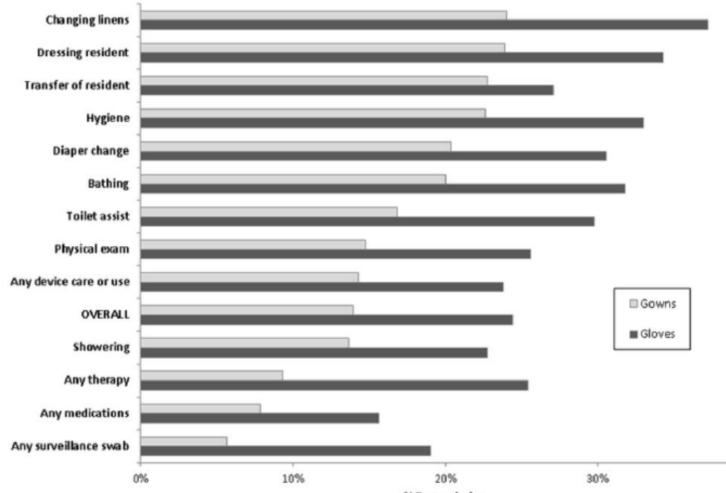


- Changing briefs or assisting with toileting
- Device care or use of a device: central line, urinary catheter, feeding tube, tracheostomy/ventilator
- Wound care: any skin opening requiring a dressing

MRSA Transmission to Gowns and Gloves of HCW during Care of Colonized Residents

- Highest Risk:
 - Dressing
 - Transferring
 - Providing hygiene
 - Changing linens
 - Toileting
- Lowest Risk:
 - Giving Meds
 - Glucose monitoring

Roghmann et al. Infect Control Hosp Epidemiol. 2015 September; 36(9): 1050-1057



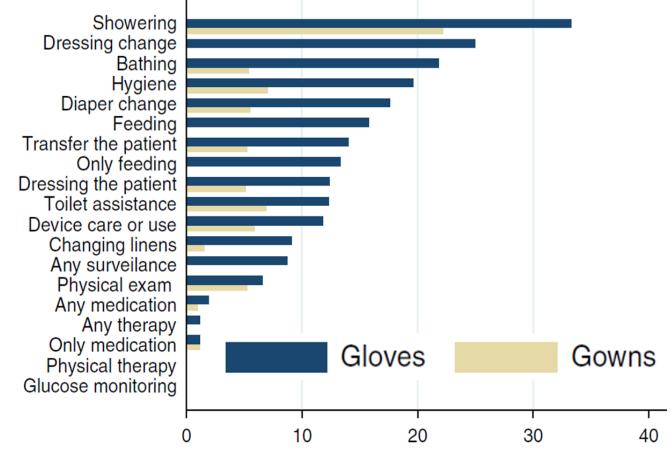
% Transmission

40%

Resistant Gram-negative Bacteria (RGNB) Transmission to Gowns and Gloves of HCW during Care of Colonized Residents

- Highest Risk:
 - Showering
 - Hygiene
 - Toileting
 - Wound dressing changes
- Lowest Risk:
 - Assist feeding
 - Giving meds
 - Glucose monitoring

Blanco et al. Infect Control Hosp Epidemiol (2018), 39, 1425-1430



Crude transmission (%)

Enhanced Barrier Precautions should be used for all residents with any of the following:

- Infection or colonization with a novel or targeted MDRO (as of July 2019) defined as:
 - Pan-resistant organisms,
 - Carbapenemase-producing Enterobacteriaceae,
 - Carbapenemase-producing Pseudomonas spp.,
 - Carbapenemase-producing Acinetobacter baumanii,
 - Candida auris
- Wounds and/or indwelling medical devices (e.g. central line, urinary catheter, feeding tube, tracheostomy/ventilator) regardless of MDRO colonization status residing in an at-risk area
- When Contact Precautions do not apply

Contact Precautions should be used:

- All residents infected or colonized with a novel or targeted multidrugresistant organism in specific situations:
 - Presence of acute diarrhea, draining wounds or other sites of secretions or excretions that are unable to be kept covered or contained
 - On units or in facilities where ongoing transmission is documented or suspected
- For infections (e.g., C. difficile, norovirus, scabies) and other conditions where Contact Precautions is recommended
 - See Appendix A Type and duration of Precautions Recommended for Selected Infections and Conditions of the CDC Guideline for Isolation Precautions

Why was the EBP Guidance Needed for Containment?

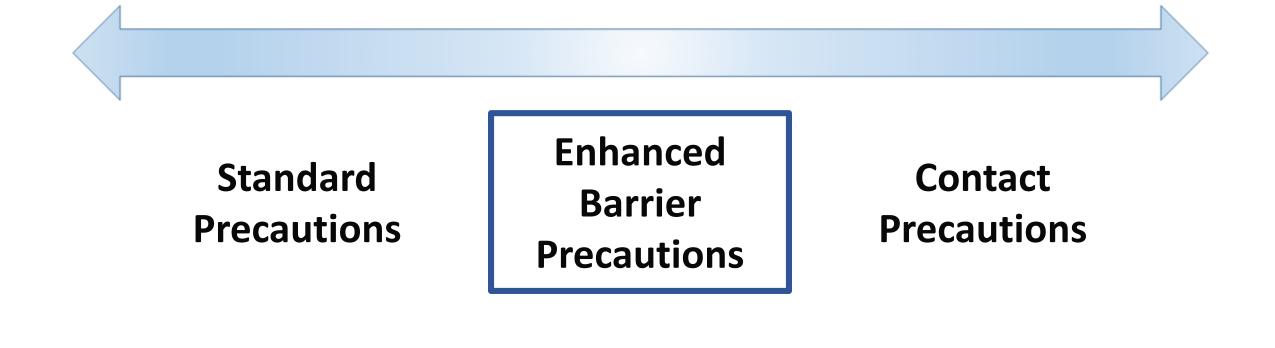
Focusing only on residents with active infection fails to address the continued risk of transmission from residents with MDRO colonization, which can persist for long periods of time (e.g., months) and result in the silent spread of MDROS.

- Contact screening detects additional colonized residents not previously recognized
- Facilities needed an approach to gown/glove use that was less restrictive than Contact Precautions and could be sustained for prolonged period of time
- EBP also addresses care of residents at risk for acquiring colonization

As of July 2019, Novel or Targeted MDROs are defined as:

- Pan-resistant organisms,
- Carbapenemase-producing Enterobacteriaceae,
- Carbapenemase-producing *Pseudomonas* spp.,
- Carbapenemase-producing Acinetobacter baumannii, and
- Candida auris

Personal Protective Equipment (PPE) & Precautions



Standard Precautions

Precautions

Standard Precautions

Applies to: All residents

PPE used for these situations:

Any potential exposure to:

- Blood
- Body fluids
- Mucous membranes
- Non-intact skin
- Potentially contaminated environmental surfaces or equipment

Required PPE

Depending on anticipated exposure: gloves, gown, or face protection

(PPE always changed and hand hygiene performed before care of another resident)

Application of Enhanced Barrier Precautions vs. Contact Precautions

Enhanced Barrier Precautions

Applies to:

All residents with any of the following:

- Infection or colonization with a novel or targeted MDRO *when Contact Precautions do not apply*.
- Wounds and/or indwelling medical devices (e.g., central line, urinary catheter, feeding tube, tracheostomy/ventilator) regardless of MDRO colonization status

Facilities may consider applying Enhanced Barrier Precautions to residents infected or colonized with other epidemiologically-important MDROs based on facility policy.

Contact Precautions

Applies to:

All residents infected or colonized with a novel or targeted multidrug-resistant in specific situations:

- Presence of acute diarrhea, draining wounds or other sites of secretions or excretions that are unable to be covered or contained
- On units or in facilities where ongoing transmission is documented or suspected

For infections (e.g., C. difficile, norovirus, scabies) and other conditions where Contact Precautions is recommended

See Appendix A – Type and Duration of Precautions Recommended for Selected Infections and Conditions of the CDC Guideline for Isolation Precautions

PPE Use in Enhanced Barrier Precautions vs. Contact Precautions

Enhanced Barrier Precautions

PPE used for these situations:

During high-contact resident care activities:

- Dressing
- Bathing/showering
- Transferring
- Providing hygiene
- 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

Contact Precautions

PPE used for these situations:

Any room entry

Required PPE for Enhanced Barrier Precautions vs. Contact Precautions

Enhanced Barrier Precautions

Applies to:

Gloves and gown prior to the high-contact care activity

Note:

- Does <u>not</u> require single-room
- Does <u>not</u> require restrictions of movement/participation within facility policy.

Contact Precautions

Applies to:

Gloves and gown

Note:

- Includes consideration for single room or cohorting
- Includes restriction of movement and participation in group activities within the facility

Implementing Enhanced Barrier Precautions or Contact Precautions

Post Clear Signage outside of the Resident Room

- Indicate type of Precautions and required PPE
- For EBP, indicate high-contact resident care activities





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 Bathing/Showering 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

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



The Set-Up: Personal Protective Equipment

- PPE, including gowns and gloves, should be available immediately outside of resident room
- Plan for restocking
- Position a trash can inside resident room and near exit for discarding PPE





The Set-Up: Hand Hygiene

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





Cleaning & Disinfection of Shared Equipment



- Ensure access to cleaning supplies/wipes
 - Contact Precautions: dedicated equipment

Auditing Practices and Education

 Incorporate periodic monitoring and assessment of adherence to determine need for additional training and education



Ongoing Activities and Future Steps

- Development of additional resources to promote EBP (e.g., FAQs)
- Collaborating with nursing home organizations to evaluate staff education and training, PPE utilization, and other resource needs for successful implementation
 - Will include assessments of acceptability and costs
- Funding projects to evaluate strategies to prevent MDRO transmission
 - Efficacy of targeted gown/glove use; role of Chlorhexidine bathing and decolonization; Impact of improved environmental cleaning/disinfection
- Establishing a Working Group to convene nursing home, academic and public health partners to discuss broader implementation of EBP outside of a containment response

Resources

Interim Guidance to Contain Novel MDROs

- https://www.cdc.gov/hai/containment/guidelines.html
- CDC Candida auris webpage
 - https://www.cdc.gov/fungal/diseases/candidiasis/candida -auris.html

Find your state HAI Coordinator and AR expert

- https://www.cdc.gov/hai/state-based/index.html
- Enhanced Barrier Precautions Guidance
 - https://www.cdc.gov/hai/containment/PPE-Nursing-Homes.html





CDC A-Z INDEX V

Thank you!

Questions?

Nursing Homes and Assisted Living (Long-term Care Facilities [LTCFs])

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Nursing homes, skilled nursing facilities, and assisted living facilities, (collectively known as long-term care facilities, LTCFs) provide a variety of services, both medical and personal care, to people who are unable to manage independently in the community. Over 4 million Americans are admitted to or reside in nursing homes and skilled nursing facilities each year and nearly one million persons reside in assisted living facilities. Data about infections in LTCFs are limited, but it has been estimated in the medical literature that:

- 1 to 3 million serious infections occur every year in these facilities.
- · Infections include urinary tract infection, diarrheal diseases, antibioticresistant staph infections and many others.
- · Infections are a major cause of hospitalization and death; as many as 380,000 people die of the infections in LTCFs every year.

CLINICAL STAFF INFORMATION Fact sheets, guidelines, reports, and resources

RESIDENT INFORMATION Fact sheet, patient safety and other information

PREVENTION TOOLS Checklists, fact sheet, toolkits, and additional links





The Core Elements of Antibiotic Stewardship for Nursing Homes



The Department of Health and Human Services has developed a strategy to address infections in Long-term Care Facilities in Phase 3 of the National Action Plan to Prevent Health Care-Associated Infections: Road Map to Elimination

Nursing Homes and Assisted Living (Long-term Care Facilities [LTCFs]) https://www.cdc.gov/longtermcare/index.html

To Ask a Question

Using the Webinar System

- Click on the Q&A button in the Zoom webinar system.
- Type your question in the Q&A box.
- Submit your question.
- Please do not submit a question using the chat button.
- **□** For media questions, please contact CDC Media Relations at
 - 404-639-3286 or send an email to media@cdc.gov.
- □ If you are a patient, please refer your questions to your healthcare provider.

Today's webinar will soon be available on demand

When: A few days after the live call

What: Video with closed captioning

Where: On the COCA Call webpage at: <u>https://emergency.cdc.gov/coca/calls/2019/callinfo_10</u> <u>2419.asp</u>

Continuing Education for this COCA Call

All continuing education (CME, CNE, CEU, CECH, ACPE, CPH, and AAVSB/RACE) for COCA Calls are issued online through the <u>CDC</u> <u>Training & Continuing Education Online system</u> (<u>http://www.cdc.gov/TCEOnline/</u>).

Those who participated in today's COCA Call and who wish to receive continuing education should complete the online evaluation by November 25, 2019 with the course code WC2922.

Those who will participate in the on demand activity and wish to receive continuing education should complete the online evaluation between November 25, 2019 and November 26, 2021 and use course code WD2922.

Continuing education certificates can be printed immediately upon completion of your online evaluation. A cumulative transcript of all CDC/ATSDR CEs obtained through the CDC Training & Continuing Education Online System will be maintained for each user.

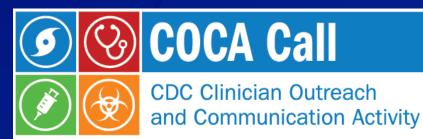
Upcoming COCA Call

Topic: Updated Guidance for Using Intravenous Artesunate for Treating Severe Malaria in the United States

Date: Tuesday, December 10, 2019

Time: 2:00-3:00 p.m. ET

COCA Products & Services



COCA Call Announcements contain all information subscribers need to participate in COCA Calls. COCA Calls are held as needed.



Monthly newsletter that provides information on CDC training opportunities, conference and training resources, the COCA Partner Spotlight, and the Clinician Corner.

CDC Clinician Outreach and Communication Activity

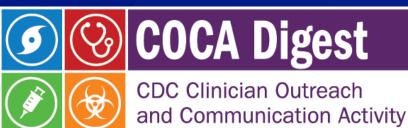
Clinical Action



CDC Clinician Outreach and Communication Activity

As-needed messages that provide specific, immediate action clinicians should take. Contains comprehensive CDC guidance so clinicians can easily follow recommended actions.

COCA Products & Services



Monthly newsletter that provides updates on emergency preparedness and response topics, emerging public health threat literature, resources for health professionals, and additional information important during public health emergencies and disasters.



and Communication Activity



Informs clinicians of new CDC resources and guidance related to emergency preparedness and response. This email is sent as soon as possible after CDC publishes new content.

CDC's primary method of sharing information about urgent public health incidents with public information officers; federal, state, territorial, and local public health practitioners; clinicians; and public health laboratories.

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Clinician Outreach & Communication Activity emergency.cdc.gov/coca

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Clinicians, you can earn FREE CE with this COCA Call! Join us for this COCA Call November 7, 2017 at 2:00PM.

October 31 at 1:18pm · 🚱



Thank you for joining us today!



Centers for Disease Control and Prevention Atlanta, Georgia

http://emergency.cdc.gov/coca