ENHANCED BARRIER PRECAUTIONS

What, Where, When, Why, and How

PRESENTED BY
SUE SHUMATE, ICAR Advisor
JULIE CONES, ICAR Advisor/Leadership Coach





1

OBJECTIVES

- Describe best practices for **E**nhanced **B**arrier **P**recautions including implementation strategies
- Identify opportunities to reduce the need for Enhanced Barrier Precautions
- Recognize nuances of Enhanced Barrier Precautions





2

WHY IS EBP NEEDED?

AIM: Reduce transmission of MDROs in nursing homes – Enhanced Barrier Precautions (EBP)

- 2019: CDC introduced an approach called EBP
- July 2022: CDC released "Implementation of PPE Use in nursing homes to prevent spread of MDROs"





QSO-24-08-NH

- Published 3/20/24; Effective 4/1/24
- Tied to F880 Infection control
- Updated LTC Survey Pathways https://www.cms.gov/medicare/provider-enrollment-and-certification/guidanceforlawsandregulations/nursing-homes (they are under "Downloads" in the "Survey Resources" zip file file name: CMS-20054)





4

WHAT ARE ENHANCED BARRIER PRECAUTIONS (EBP)?



- Builds on <u>current</u> infection control practices of standard precautionsbased on the anticipated exposure to blood, body fluids, secretions, and excretions
- Gown and gloves for high contact activities



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WHO SHOULD BE ON EBP?



- Infection or colonization by MDRO when Contact Precautions are not indicated
- Wounds: chronic wounds such as, pressure ulcers, diabetic foot ulcers, unhealed surgical wounds, and venous stasis ulcers
- Indwelling medical device: central lines, urinary catheters, feeding tubes, and tracheostomies



Residents who have complex medical needs involving wounds and indwelling medical devices are at higher risk of both acquisition and colonization by MDROs.



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WHEN TO USE EBP

- olonized with:

 Pan-resistant organisms,
 Carbapenemase-producing carbapenem-resistant
 Enterobacterales,
 Carbapenemase-producing carbapenemresistant Peaudomonas,
 Carbapenemase-producing carbapenemresistant Audientobacter bournannii, and
 Candida ouris

May include, but are not limited to:

- May include, but are not limited to:

 Methicillin-resistant Solphylocous aureus (MRSA),

 ESBL-producing Enterobacterales,

 Vancomycin-resistant Enterocco (VRE),

 Multidrug-resistant Reudomonas aeruginosa,

 Drug-resistant Streptococars pneumoniae

 Decisions would be based on local conditions,

 outbreaks, likelihood of transmission, etc.



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IS RESIDENT MDRO SCREENING NEEDED TO IMPLEMENT EBP?



Carefully review any admissions records!

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"WHY": HIGH-CONTACT ACTIVITIES?

- Staff members may unintentionally carry germs on their hands or clothing to another resident.
- Studies show high contact care activities are more likely to spread MDROs from the resident to the staff member's clothes or hands.





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10

"HOW": EBP HIGH-CONTACT ACTIVITIES Dressing Bathing/showering Transferring Providing hygiene Changing linens Changing briefs or assisting with toileting Device care or use Wound care

11

EFFECTIVE EVS PRACTICES: PPE AND HAND HYGIENE

- Gown and gloves should be worn when changing liness
- Facility policy should include when, not if, PPE should be used by EVS when cleaning EBP rooms.
- In the case of a two-person room, clean non-EBP side, then clean the EBP side.
- After room cleaning is completed, change mop head and water.



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12





• Placement
• Cart size
• If residents requiring EBP are naturally grouped, carts may be shared (be certain supplies are adequate)
• Re-stocking

14

DISINFECTING MEDICAL EQUIPMENT

- Know what disinfectant is being used for what:
 - What disinfects glucometers?
 - What disinfects hoyers?
 - What disinfects counter tops?

Limit supplies so everyone knows what cleans what and what the contact time is.

LESS IS MORE!





16

EBP SIGNAGE



- Must include type of precaution
- PPE to be used
- Signs to 'See Nurse' are not adequate
- Get sign <u>here</u>





17

How Can We Reduce the Need for Enhanced Barrier Precautions?



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WHAT DOES IT MEAN?

How would you describe Antibiotic Stewardship?

Antibiotic stewardship refers to a set of commitments and actions designed to "optimize the treatment of infections while reducing the adverse events associated with antibiotic use." - CDC



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20

POLICIES AND PRACTICES

- Establish and educate staff regarding policies and processes regarding identifying infections
 - Select a criteria (McGeer, Loeb, NHSN?)
 - Method to report to providers (SBAR?)
 - Documentation requirements
 - Be incorporated in the overall infection prevention and control program; (UTIs, URIs)
 - Be reviewed on an *annual* basis and as needed, and document this review

www.cdc.gov/antibiotic-use/core-elements/pdfs/core-elements-antibiotic-stewardship-appendix-a-508.pd





WHY DOES IT MATTER???

- * Reduces risk of antibiotic resistance
- * Reduces risk of harmful side effects
- * Reduces risk of polypharmacy and drug interactions

As MDROs (Multi Drug Resistant Organisms) continue to rise, action needs to be taken to manage this dangerous trend.

Enhanced Barrier Precautions (EBP) is a reactive strategy to this crisis.

It has become a national priority!





ANTIBIOTIC STEWARDSHIP GOAL

- √ Improve antibiotic prescribing
- ✓ Improve administration methods
- ✓ Improve management practices



Ensure residents receive the right antibiotic for the right indication, dose, and duration





23

ANTIBIOTIC STEWARDSHIP

Core Elements of the Antibiotic Stewardship Program:

- Facility leadership, including primary care doctors, commitment to safe and appropriate antibiotic use;

 Appropriate facility staff accountable for promoting and overseeing antibiotic stewardship;
- Accessing pharmacists with **drug expertise** to consult on antibiotic stewardship;
- Implement policies or practices to improve antibiotic use;
- Track measures of antibiotic use in the facility (i.e., one process and one outcome measure);
- $\textbf{Regular reporting} \ \text{on antibiotic use and resistance to relevant staff such as prescribing clinicians and nursing staff; } \textit{and}$
- Education of staff and residents about antibiotic stewardship.

ALL ELEMENTS MUST BE IN PLACE FOR THIS TO WORK





ANTIBIOTIC TIME-OUT

Occurs 48-72 hours after first administration

Takes into consideration:

- · Culture and sensitivity test results
- · Response to therapy
- Resident condition
- · Facility needs (i.e., outbreak)

Used to reassess residents:

- Antibiotic need
- Duration of treatment
- Selection of antibiotic
 De-escalation potential



Quality
Documentation
Matters!



25



26

USE YOUR EMR

- Provide automated alerts for each newly prescribed antibiotic
 - 2-3 days post initial administration
- Generate Lists
 - Run for all residents on antibiotics including ones in time out period
- Document completion of antibiotic time out and results





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NUANCES OF EBP

Nuance - simply, "a subtle or slight difference"



The regulation **QSO-24-08-NH** appears straight forward but... there have been LOTS of questions!



32

PPE PLACEMENT

PPE for **EBP** - gowns, gloves and possibly eye protection

Where is the best place for PPE supplies for $\ensuremath{\textbf{EBP}}$ use?

Consider:

- ✓ Number of residents on a hallway or in facility on EBP
- ✓ Acuity of resident determining amount of close care they require
- ✓ Ability to keep supplies stocked

Best practice is $\underline{outside}$ the room - either in a wheeled cart or hanging storage unit:

- Hanging units should not protrude further than 4 inches into the hallway
 Storage carts must have wheels if in the hallway, so they are mobile.





PPE PLAGEMENT Can PPE be placed inside the room? Yes, BUT... Consider: Process to ensure staff compliance of PPE use Process to ensure PPE supplies are stocked Ensure integrity of PPE Proximity of PPE from resident's room (4-5 rooms away is too far!)





35

DIFFERENCES IN MDROS

All MDROs are not viewed the same by the CDC regarding the need for EBP

At a minimum, Enhanced Barrier Precautions are intended to be used for residents colonized or infected with novel (e.g., those newly introduced or emerging in a locality or region) MDROs or MDROs targeted by CDC.





DIFFERENCES IN MDROS

Additional MDROs may be epidemiologically important locally - determinations about an organism being epidemiologically important may be influenced by factors that include:

- · Local epidemiology
- Presence of ongoing or past outbreaks
- Propensity for transmission in healthcare facilities
- Association with severe outcomes or
- · Targeting for local prevention efforts

* Flexibility is important when considering your resident population





37

DIFFERENCES IN MDROS

Examples of MDROs that might be epidemiologically important locally:

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

 ${\rm *Consult\ with\ local\ health\ department\ for\ additional\ guidance}$





38



Answering Call Lights SCENARIO: A staff member enters the room of a resident on EBP to answer a call light. This will involve talking with the resident and giving oral medications. Does EBP apply in this situation? ANSWER: No. If high-contact care is not being provided, EBP would not be required. What if the resident needs toileting assistance while you are in the room? ANSWER: Yes! If additional care is needed once in the room EBP would need to be donned. ICAR

40

WHAT ABOUT...

An admission arrives for rehab following a mild stroke. She is diabetic and has had a colostomy over 5 years. Her left great toe was amputated last year as a complication of diabetes.

Will she require EBP?

A. Yes

B. No

C. Only if she cannot manage her colostomy

Answer: No. Residents with a colostomy do not require EBP. Also, having a stroke, diabetes, and an amputation that is healed would not require EBP.



41

WHAT TYPE OF PRECAUTIONS ARE NEEDED?

Mr. J has been on your rehab unit for 10 days post-knee replacement. His surgical wound is healing well. Last night he developed foul-smelling diarrhea. A stool culture was sent. The results won't be back for 48 – 72 hours.

What type of precautions should be used?

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- Enhanced Barrier Precautions he has a wound
 Contact Precautions he probably has C. diff in his stool
 Nothing he's healing

Answer: 2) Contact Precautions. His history & diarrhea indicate that he may have *C. difficile*. It is best to err on the side of caution and

uplicie. It is used to end of the side of caution and use Contact Precautions.

*IF his wound still required a dressing and no suspicion of C. difficile then Enhanced Barrier Precautions (Source: CMS EBP FAQ #23)

CONTACT OR EBP

A resident with a targeted MDRO was admitted. He has draining wounds that are unable to be contained. Should contact precautions be continued from the hospital?

<u>ANSWER</u>: Yes. Contact precautions are recommended for residents with diarrhea, draining wounds, or other secretions or excretions unable to be covered or contained $\underline{\mathbf{o}}$ for a limited period during a suspected or confirmed MDRO outbreak investigation.

*If/when the wound drainage can be contained, then **EBP** is acceptable.





43

ROOMMATES AND MEDICAL DEVICES

Mrs. X and Mrs. Y are roommates. Mrs. X has a long-term Foley catheter. Mrs. Y is on dialysis with a central dialysis catheter. How would you approach EBP with the two ladies?

- A. Move them each to private rooms
- B. Place them on EBP
- C. No need since they won't contaminate the other one
- D. Use Contact Precautions since it is 'double trouble'

Answer: B. Place them both on **EBP** as each has an indwelling device. (Refer to CDC **EBP** FAQ #22)

What other considerations exist related to nursing care and housekeeping?





44

WHEN MIGHT EBP BE DISCONTINUED?

A resident has her indwelling Foley catheter removed. The nursing home staff has been using **EBP**. Is **EBP still needed after device removal?**

ANSWER: EBP may be discontinued if a resident was placed on EBP only because of a wound or indwelling medical device and the wound heals, or device is removed.

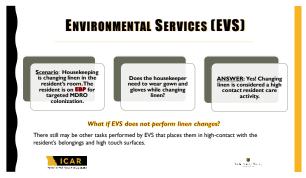
A resident with an MDRO colonization was screened during a recent hospitalization and the culture result was negative. Is EBP still required when they return to the nursing

ANSWER: Yes, due to the number of false negatives **EBP** is still required. A false negative can also be resulted depending on the number of sites cultured. (Source: CMS **EBP** FAQ #18)











SUMMARY

- Ensure your facility's policies and procedures state clearly when Enhanced Barrier Precautions is indicated.
- Communicate and educate staff, family and residents on what Enhanced $\ensuremath{\textbf{B}}\xspace$ arrier $\ensuremath{\textbf{P}}\xspace$ recautions is and why it may be implemented.
- Involve Environmental Services team with Enhanced Barrier implementation and provide guidance on their role to prevent MDRO spread.
- Facilities are getting cited for staff not using PPE when indicated for Enhanced Barrier Precautions. Have an audit process in place to support compliance.
- Review census regularly for residents' need of Enhanced Barrier Precautionseither to discontinue or implement.





RESOURCES

- ✓ QSO-24-08-NH- https://www.cms.gov/files/document/qso-24-08-nh.pdf
- ✓ CMS Enhanced Barrier Precautions in Nursing Homes FAQ https://www.cdc.gov/long-
- term-care-facilities/hcp/prevent-mdro/fags.html

 APIC Enhanced Barrier Implementation Guide in SNFs <a href="https://apic.org/wp-content/uploads/2024/1/2024-Implementing-Enhanced-Barrier-Precautions-in-Long-Term-content/uploads/2024/1/2024-Implementing-Enhanced-Barrier-Precautions-in-Long-Term-content/uploads/2024/1/2024-Implementing-Enhanced-Barrier-Precautions-in-Long-Term-content/uploads/2024/1/2024-Implementing-Enhanced-Barrier-Precautions-in-Long-Term-content/uploads/2024/1/2024-Implementing-Enhanced-Barrier-Precautions-in-Long-Term-content/uploads/2024/1/2024-Implementing-Enhanced-Barrier-Precautions-in-Long-Term-content/uploads/2024/1/2024-Implementing-Enhanced-Barrier-Precautions-in-Long-Term-content/uploads/2024/1/2024-Implementing-Enhanced-Barrier-Precautions-in-Long-Term-content/uploads/2024/1/2024-Implementing-Enhanced-Barrier-Precautions-in-Long-Term-content/uploads/2024/1/2024-Implementing-Enhanced-Barrier-Precautions-in-Long-Term-content/uploads/2024/1/2024-Implementing-Enhanced-Barrier-Precautions-in-Long-Term-content/uploads/2024/1/2024-Implementing-Enhanced-Barrier-Precautions-in-Long-Term-content/uploads/2024/1/2024-Implementing-Enhanced-Barrier-Precautions-in-Long-Term-content/uploads/2024/1/2024-Implementing-Enhanced-Barrier-Precautions-in-Long-Term-content/uploads/2024/1/2024-Implementing-Enhanced-Barrier-Precautions-in-Long-Term-content/uploads/2024/1/2024-Implementing-Enhanced-Barrier-Precautions-in-Long-Term-content/uploads/2024/1/2024-Implementing-Care.pdf
- QIPMO Nursing Home Help https://nursinghomehelp.org/educational-resources/2 sft_educationcategory=enhanced-barrier-precautions
- ✓ HQIN Enhanced Barrier Toolkit https://hqin.org/wp-content/uploads/2024/09/Enhanced-Barrier-Precautions-Toolkit_091924.pdf





50

INFECTION CONTROL TEAM











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