# Healthcare-Associated Infection Prevention & Multidrug-Resistant Organisms

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Division of Public Health

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### Agenda

- What are multidrugresistant organisms (MDROs)?
- How do we prevent and respond?

#### **MDROs**

Per the Centers for Disease Control and Prevention (CDC), MDROs are microorganisms, predominantly bacteria, that are resistant to one or more classes of antimicrobial agents.



#### Antibiotic Resistance in the U.S.



2,868,700 estimated infections



35,900 estimated deaths

### Reportable MDROs in Wisconsin



Carbapenemase-producing carbapenem-resistant Acinetobacter baumannii (CP-CRAB)



Carbapenemase-producing carbapenem-resistant Pseudomonas aeruginosa (CP-CRPA)



Carbapenemase-producing carbapenem-resistant Enterobacterales (CP-CRE)



Candida auris

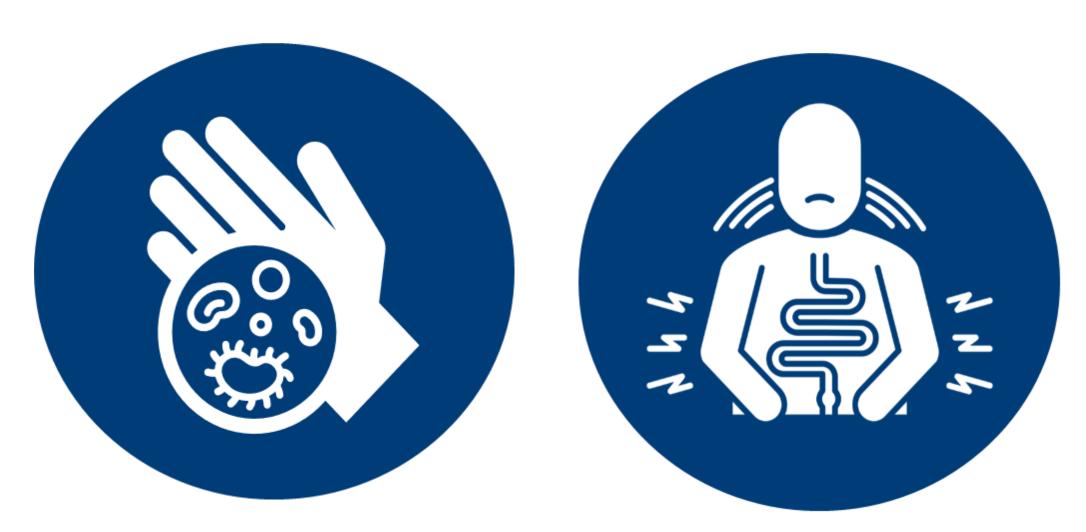


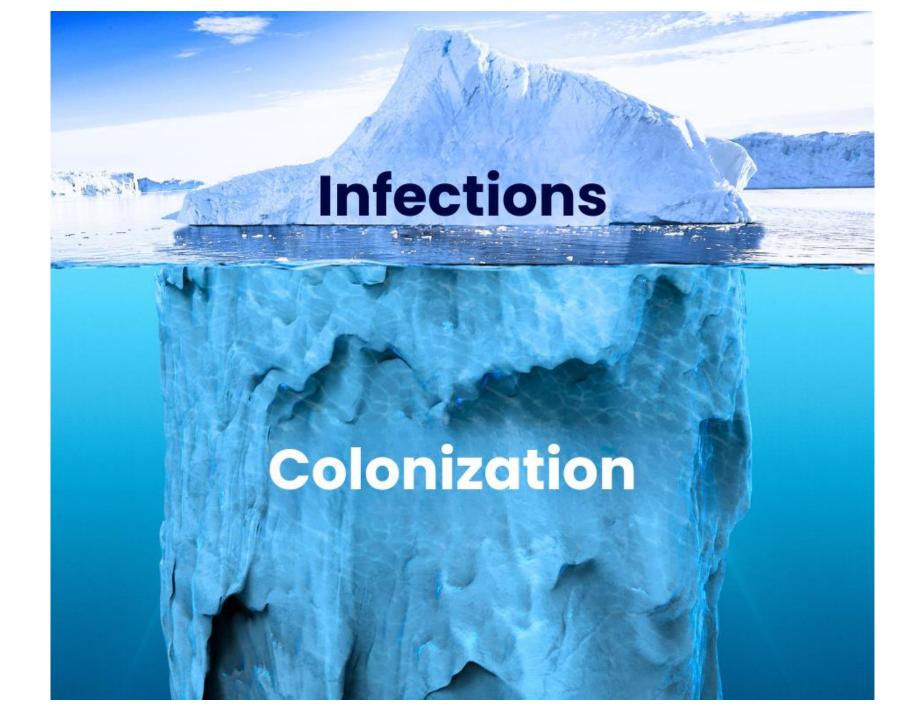
Vancomycin-intermediate Staphylococcus aureus (VISA) and Vancomycin-resistant Staphylococcus aureus (VRSA)

#### **MDRO Cases in Wisconsin**

	2019	2020	2021	2022	2023
CP-CRAB	46	41	153	112	153
CP-CRE	45	30	42	45	37
C. auris	0	0	1	5	21
CP-CRPA	0	2	2	4	3
VISA	3	1	1	2	4

#### Colonization vs. Infection





## Patients and residents who have a reportable MDRO can:

Develop serious infections

Remain colonized

Spread MDROs to others

#### How to Be Successful



Hand hygiene



Cleaning and disinfection



Appropriate precautions



Teach and observe



Communication

### MDRO Guidance for Assisted Living Facilities



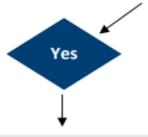
## Recommendations for Prevention and Control of Targeted Multidrug-Resistant Organisms

#### **For Assisted Living Facilities**

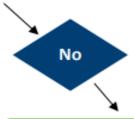
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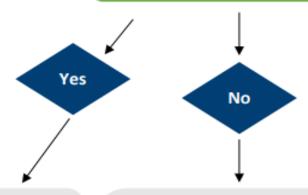
Does the resident who is colonized or infected with a targeted MDRO have uncontrolled secretions, incontinence, or wound drainage that cannot be contained?



In addition to standard precautions, place the resident in contact precautions and restrict them temporarily to their room until their secretions, incontinence, or drainage is controlled/contained.



Is the resident **mainly independent** with their activities of daily living?

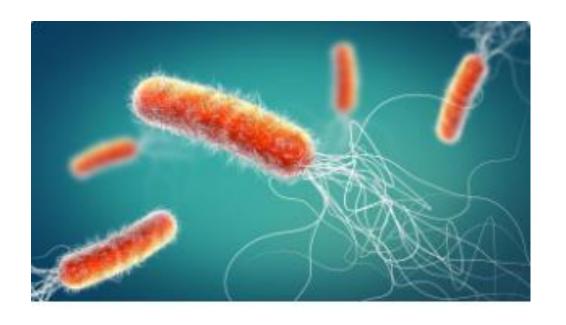


Strictly adhere to standard precautions.

In addition to standard precautions, staff should wear gloves and gown during high contact resident care activities.

Do not restrict the resident to their room.

#### DHS: Healthcare-Associated Infections: Reportable Multidrug-Resistant Organisms Webpage



#### Reportable Multidrug-Resistant Organisms

Learn about multidrug-resistant organisms and reporting requirements.

Learn about multidrugresistant organisms.

### Questions?

Thank you!



### MDRO Infection Preventionist

#### **Greta Michaelson**





## HAI Prevention Program Contact Information



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