# Ask an IP Learning and Communication Series

Week 9 – Multidrug Resistant Organisms (MDROs)
Wednesday, 5/4/22



Acute Communicable Disease Control Program
Los Angeles County Department of Public Health



### **Disclosures**

There is no commercial support for today's call

Neither the speakers nor planners for today's call have disclosed any financial interests related to the content of the meeting

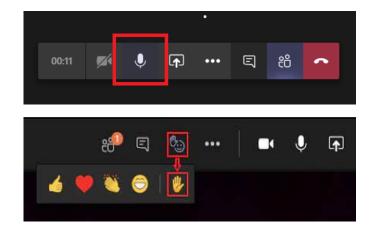
This call is meant for healthcare facilities and is off the record and reporters should log off now

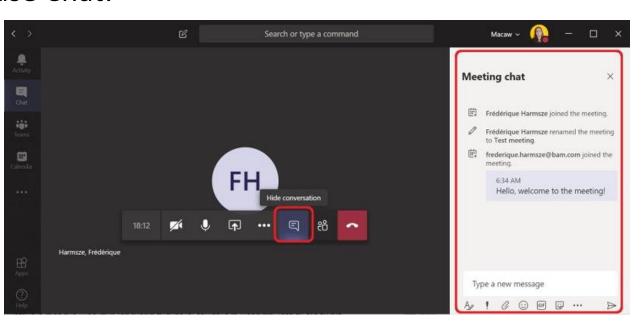


# Housekeeping

- How to Mute/Unmute (Crtl+ Shift+ M):
  - Press the Mute button on your phone if dialing in
- How to Raise Hand:









### Reminder

The purpose of this Learning and Communication Series is to **review core infection prevention practices** (beyond COVID-19) that must be used in all care settings, and to **foster discussion** among LA County Skilled Nursing Facilities about infection control practices.

We would like to remind everyone that the LAC DPH SNF COVID-19 Guidance has been updated as of March 31, 2022. Please take time to review this updated information. We will not be reviewing COVID-19 guidelines (including CDPH AFLs) during these sessions.

#### **Link to Guidelines:**

http://publichealth.lacounty.gov/acd/ncorona2019/healthfacilities/snf/prevention/



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Slides: <a href="http://publichealth.lacounty.gov/acd/infectionprevention">http://publichealth.lacounty.gov/acd/infectionprevention</a>

series.htm



# What do you need to know?



- What are MDROs?
- What types of infections do MDROs cause?
- What causes MDROs?
- How MDROs spread?
- How can we prevent MDROs?



### What are MDROs?



- ➤ MDROs are multidrug resistant organisms or microbes that are resistant to one or more types of drugs that are normally used to treat them.
- MDROs can be fungi, viruses, and parasites but many are bacteria.



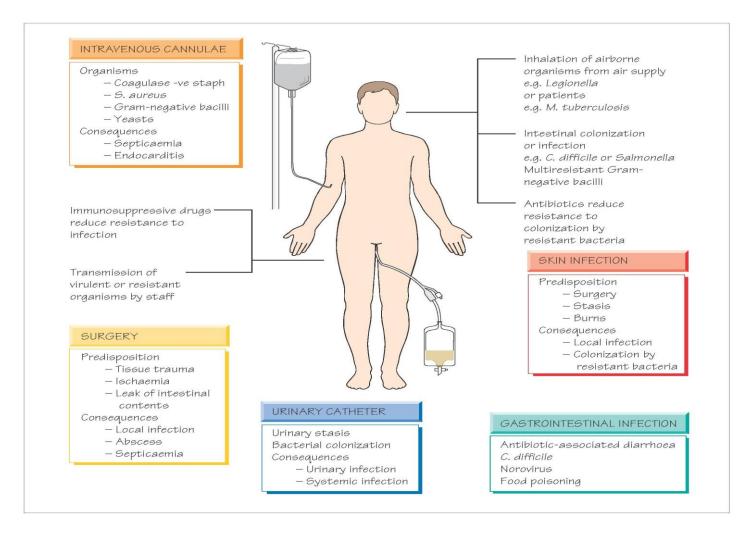
### There are many kinds of MDROs

- Some examples are:
  - Candida auris
  - Carbapenem-resistant Enterobacteriaceae (CRE)
  - Carbapenem-resistant Acinetobacter Baumannii (CRAB)
  - Carbapenem-resistant Pseudomonas Aeruginosa (CRPA)
  - Vancomycin-resistant staphylococcus aureus (VRSA)
  - Vancomycin-resistant Enterococci (VRE)
  - Methicillin-resistant staphylococcus aureus (MRSA)

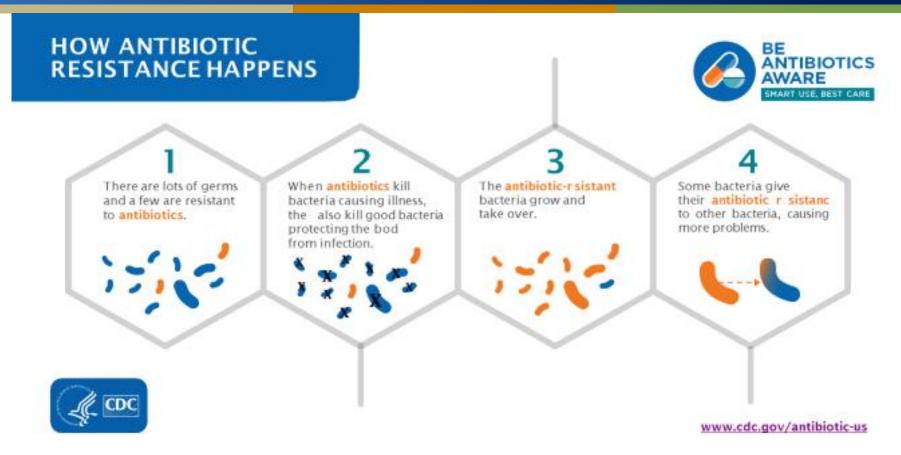




### **Sources of MDRO Infection Acquisition**







When antibiotics are used inappropriately, they can also kill good bacteria that protect the body from infections with the bacteria that make you sick. This can allow the bacteria that are drug resistant to grow and multiply.



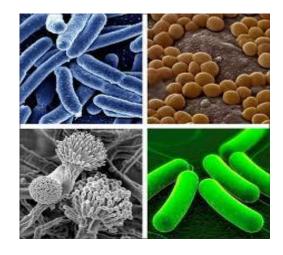
# What types of infections do MDROs cause?

- MDROs can cause infection in any part of the body.
- Common locations for infections may include:
  - Bloodstream
  - Lungs
  - Skin
  - Surgical Site
  - Urinary Tract
  - Wounds





## **How do MDROs spread?**



- From person to person by the hands of the healthcare personnel.
- On objects or high touched surfaces such as bed rails, medication cart handles, bedside tables, IV tubes and catheters.
- From person to person through direct contact.
- Some people with MDRO in their body may not show any signs or symptoms of infection (called "colonized") but can still spread it to others.



Perform Standard and Transmission Based Precautions

- Hand Hygiene
- Don/doff PPE at the right moments
- Enhanced Standard Precautions (ESP)
- Contact Precautions
- Environment and Equipment Cleaning and Disinfection

Education and Training of all healthcare personnel

**Conduct Surveillance** 

**Administrative Measures** 

Implement an Antibiotic Stewardship Program

Cohorting





- Use Standard and Transmission-Based Precautions
  - Hand Hygiene use soap and water or ABHR (alcohol-based hand rub) when hands are not visibly soiled
  - Utilize Hand Hygiene Audit tools to increase compliance https://bit.ly/HHAdherenceTool









- Use of PPE (Personal Protective Equipment)
   Gloves, Gown, Mask, Googles, Face shield
- Utilize Contact Precautions Adherence Monitoring Tool <a href="https://bit.ly/CPAdherenceMonitoringTool">https://bit.ly/CPAdherenceMonitoringTool</a>







https://www.cdc.gov/hai/pdfs/ppe/ppe-sequence.pdf



#### Enhanced Standard Precautions

These precautions should be used during high contact care for residents with high-risk characteristics for MDRO colonization and transmission (including *Candida auris*)\*, even if MDRO status is unknown:

- Functional Disability
- Incontinence
- Presence of indwelling devices
- Ventilator-dependence
- Wounds, unhealed pressure ulcers

This would include all residents in a subacute unit.







#### Contact Precautions

These precautions should be used to help prevent the spread of infectious agents that spread by direct or indirect contact with a resident or a resident's environment such as, but not limited to: Hepatitis (Type A), scabies, skin abscesses with heavy drainage (until drainage stops), diarrhea (not *C. diff*), and certain multi-drug resistant organisms (MDROs) such as *Candida auris*.





<sup>\*</sup>Contact Precautions should be utilized if there is a known MDRO transmission in the facility and/or the resident with a confirmed MDRO has acute diarrhea, draining wounds, or other sites of secretions or excretions that unable to be covered or contained.



#### Environment and Equipment Cleaning and Disinfection



- Environmental cleaning is part of Standard Precautions, which should be applied to all patients in all healthcare facilities. It is a fundamental intervention for infection prevention and control (IPC) and prevent environmental and equipment transmission of MDROs.
- CDPH recommends to use disinfectants under <a href="https://bit.ly/EPAListP">https://bit.ly/EPAListP</a> effective against C.auris in all sub acute facilities.
- "Who Cleans What" for healthcare facilities to ensure that all surfaces, devices, and equipment are properly cleaned at the right times by the right staff













### Education and training of healthcare personnel

➤ Healthcare facilities should provide education and training on risks and prevention of MDRO transmission during orientation and periodic educational updates for healthcare personnel.





#### Surveillance

➤ Healthcare facilities should establish systems to ensure that clinical microbiology laboratories promptly notify appropriate facility staff (e.g., infection control staff, medical director/designee) when a MDRO is detected



#### Administrative Measure

- Make MDRO prevention/control an organization resident safety priority.
- Implement a multidisciplinary process to monitor and improve healthcare personnel adherence to recommended practices for all transmission-based precautions
- Implement systems to designate residents known to be colonized or infected with a targeted MDRO
- To notify receiving healthcare facilities and personnel prior to transfer residents with MDRO within or between facilities



- Antibiotic Stewardship
- A set of coordinated approaches to improve the use of antimicrobials, such as antibiotics, within a healthcare facility. Antimicrobial stewardship is not only important in preventing the spread of antimicrobial resistance, but also improves patient outcomes and reduces costs for healthcare facilities.
- All SNFs in CA are required to have an ASP per SB311
- Here are some links to a few resources:
- <a href="http://publichealth.lacounty.gov/acd/docs/AskAnIPWeek1Session2.pdf">http://publichealth.lacounty.gov/acd/docs/AskAnIPWeek1Session2.pdf</a>
- https://www.ahrq.gov/nhguide/index.html
- https://www.cdc.gov/antibiotic-use/core-elements/nursing-homes.html



### Cohorting/Room Placement

- Multiple patients can be cohorted in a room only if they share the same organism.
  For example:
  - A positive C.auris patient and a suspect C.auris patient <u>cannot</u> share the same room.
  - A patient positive for *C.auris* and another MDRO cannot be placed in the same room as a patient only positive for *C.auris*
- ➤ Residents known to be infected or colonized with MDRO should be placed in a private room with a private bathroom whenever feasible. Priority for a private room should be given to residents who are at higher risk of transmission and those being treated for an active MDRO infection.
- ➤ If private rooms are not available, efforts should be made to cohort residents with MDRO (the same infectious agent) to confine their care to one area, and to prevent spread to susceptible patients, otherwise compatible residents who are at lower risk acquiring MDRO(e.g., residents that do not have indwelling devices, do not have open wounds, and are less dependent on staff for ADLs).



# **Programming**

Session	Date (2022)	Topic
Week 1	March 9 <sup>th</sup> , 2022	Personal Protective Equipment (PPE)
Week 2	March 16 <sup>th</sup> , 2022	Office Hours
Week 3	March 23 <sup>rd</sup> , 2022	Introduction to QAPI in SNFs
Week 4	March 30 <sup>th</sup> , 2022	Office Hours
Week 5	April 6 <sup>th</sup> , 2022	Introduction to Microbiology
Week 6	April 13 <sup>th</sup> , 2022	Office Hours
Week 7	April 20 <sup>th</sup> , 2022	Environmental Services (EVS)
Week 8	April 27 <sup>th</sup> , 2022	Office Hours
Week 9	May 4 <sup>th</sup> , 2022	Multi-Drug Resistant Organisms (MDRO)
Week 10	May 11 <sup>th</sup> , 2022	Office Hours



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# Questions

