

**Welcome, before we begin,  
put in the chat:  
What is your favorite thing about Summer!**

### **Instructions for Contact Hour**

1. Update your Zoom name to reflect your full name
2. Zoom name MUST match your evaluation name
3. Enjoy the entire program
4. Complete the post-evaluation by June 30, 2023, 5:00 PM (available on the last slide)
5. Certificate will be emailed to you by July 15, 2023



# San Diego Skilled Nursing Facility Infection Prevention Collaborative

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Grow - Collaborate - Succeed

Coordinated by the County of San Diego  
Healthcare-Associated Infections (HAI) Program

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# Reminders



Recording is on!



[PHS.HAI.HHSA@sdcounty.ca.gov](mailto:PHS.HAI.HHSA@sdcounty.ca.gov)



Keep your lines muted



Participate in the polls and chat



Use the chat box for questions



Slides will be emailed



"Right click" to rename



Type into the chat your:

- Name
- Title
- Facility

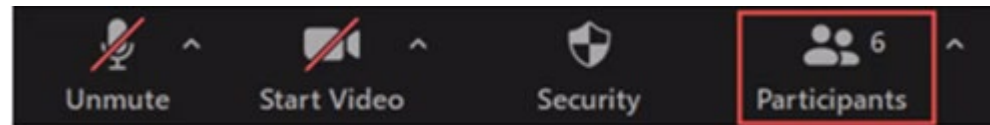
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# Reminders

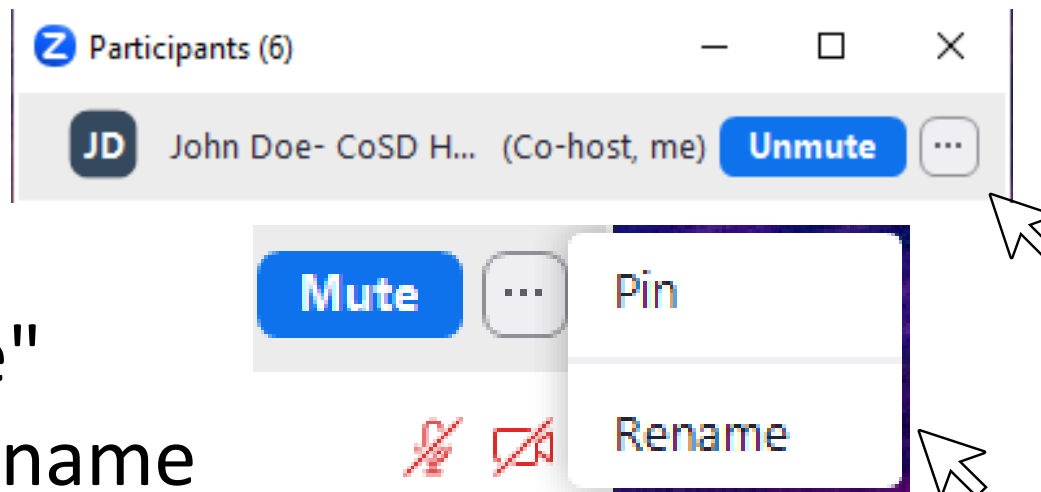


## Please update your name on the participant list

1. Find your name on the participant list



2. Hover over your name and click "..."



3. Click "Rename"

4. Type your full name

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# Land Acknowledgement



**Public Health Services would like to begin by acknowledging the Indigenous Peoples of all the lands that we are on today. While we are meeting on a virtual platform, I would like to take a moment to acknowledge the importance of the lands, which we each call home. We respectfully acknowledge that we are on the traditional territory of the Kumeyaay. We offer our gratitude to the First Nations for their care for, and teachings about, our earth and our relations. May we honor those teachings.**

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# Agenda



**Welcome**

**General Updates**

**Announcements**

**Featured Topic: “Combating Carbapenemase Producing Organisms (CPO)”**

**Next Collaborative**

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# General Updates



- **New Health Alerts**
- **Respiratory Virus Update**
- **COVID & AFL Updates**



# Respiratory Virus Update



## San Diego County Respiratory Virus Surveillance Report

Prepared by Epidemiology and Immunization Services Branch

[www.sdepi.org](http://www.sdepi.org)

June 8, 2023

### COVID-19

Cases  
**155,130**

Deaths  
**463**

Outbreaks\*  
**466**

7/3/2022 – 6/3/2023

### Influenza

Cases  
**21,550**

Deaths  
**43**

Outbreaks\*  
**25**

7/3/2022 – 6/3/2023

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# Respiratory Virus Update



## COVID-19 and Influenza Fiscal Year-to-Date Overview

Figure 1.1. San Diego County **COVID-19\***  
Cases by Episode Month

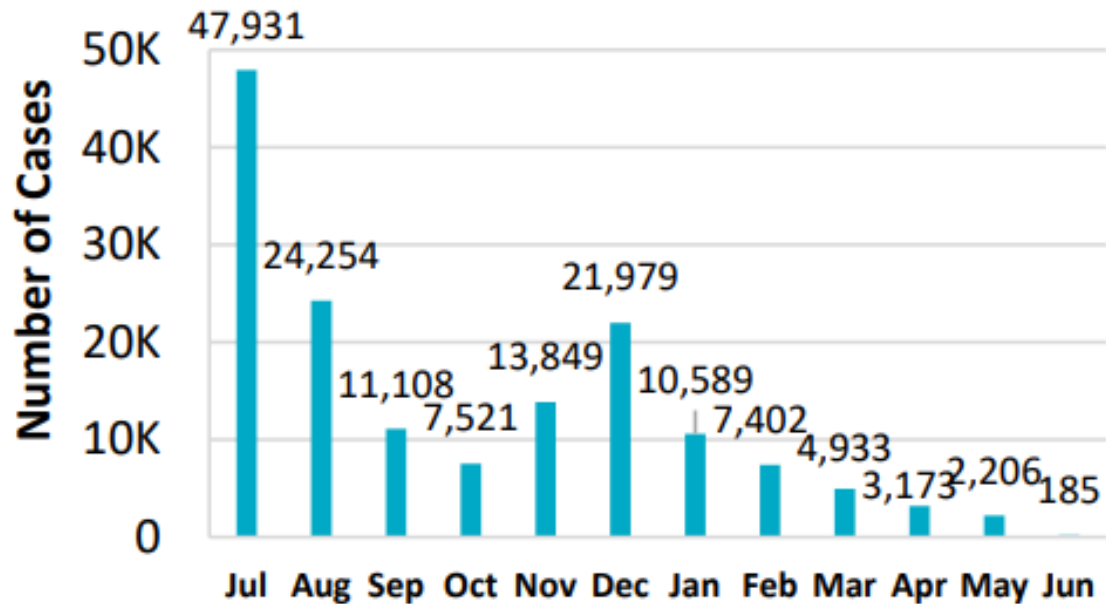
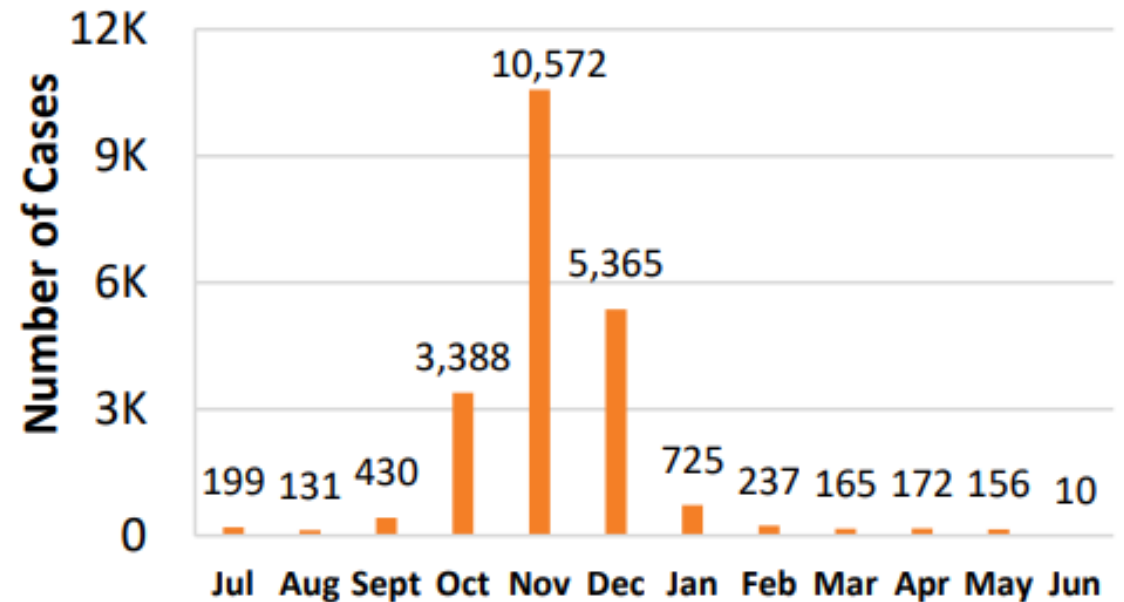


Figure 1.2. San Diego County **Influenza**  
Cases by Episode Month



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# COVID Update



## Updated COVID-19 Vaccines for Use in the United States Beginning in Fall 2023

[f Share](#) [t Tweet](#) [in LinkedIn](#) [✉ Email](#) [🖨 Print](#)

FDA's Vaccines and Related Biological Products Advisory Committee (VRBPAC) met on June 15, 2023, to discuss and make recommendations for SARS-CoV-2 strain(s) for updated COVID-19 vaccines for use in the United States beginning in the fall of 2023.

For the 2023-2024 formulation of the COVID-19 vaccines for use in the U.S. beginning in the fall of 2023, the committee unanimously voted that the vaccine composition be updated to a monovalent COVID-19 vaccine with an XBB-lineage of the Omicron variant. Following discussion of the evidence, the committee expressed a preference for XBB.1.5.

During this meeting, the advisory committee was informed of the manufacturing timelines, they reviewed the available data on the circulation of SARS-CoV-2 virus variants, current vaccine effectiveness, human immunogenicity data of current vaccines against recently circulating virus variants, the antigenic characterization of circulating virus variants, animal immunogenicity data generated by new candidate vaccines expressing or containing updated spike components, and preliminary human immunogenicity data generated by one XBB.1.5 candidate vaccine.

Based on the totality of the evidence, FDA has advised manufacturers who will be updating their COVID-19 vaccines, that they should develop vaccines with a monovalent XBB 1.5 composition.

Content current as of:  
06/16/2023

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# CDPH AFL Updates



## Active COVID-19 AFLs

Bulletin Number	Facility Type Affected	Subject	Release Date
<a href="#">AFL 20-31.6</a> (Supersedes AFL 20-31.4)	General Acute Care Hospitals (GACHs)	GACH Coronavirus Disease (COVID-19) Daily Reporting	05/12/2023
<a href="#">AFL 20-42</a>	Acute Psychiatric Hospitals (APHs)	Coronavirus Disease (COVID-19) APH Reporting	04/17/2020
<a href="#">AFL 20-43.4</a> (Supersedes AFL 20-46.2)	Skilled Nursing Facilities (SNFs)	SNF Coronavirus Disease 2019 (COVID-19) Daily Reporting	05/11/2023
<a href="#">AFL 20-50.1</a> (Supersedes AFL 20-50)	Skilled Nursing Facilities	Skilled Nursing Facility Infection Prevention Meetings	06/22/2020
<a href="#">AFL 20-63.1</a> (Supersedes AFL 20-63)	Skilled Nursing Facilities	Deployment of Online Survey Application for Coronavirus Disease 2019 (COVID-19) SNF Mitigation Surveys	08/07/2020
<a href="#">AFL 20-73</a>	Skilled Nursing Facilities	Advance Care Planning, Physician's Order for Life Sustaining Treatment (POLST) and Coronavirus Disease 2019 (COVID-19)	09/22/2020
<a href="#">AFL 20-81</a>	General Acute Care Hospitals	GACH Coronavirus Disease 2019 (COVID-19) Vaccination	10/12/2020

<https://www.cdph.ca.gov/Programs/CHCQ/LCP/Pages/COVID-19-AFLs.aspx>

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# Virtual Train-the-Trainer Workshops



## 4 Train-the-Trainer Workshops will be offered over 15 weeks.

*Participating SNFs should designate and register 2–4 representatives to attend each 90-minute workshop (i.e., IP, DON, DSD, NHA, EVS Manager, CNA Champion, Corporate Leadership). The representatives that attend each of the 4 workshops do not need to be the same for each workshop topic. Following completion of each workshop, trainees will be expected to train SNF staff on the IPC practices taught in each workshop.*



## Workshop Topics

All times are Pacific Standard Time (PST). Trainings are repeated four times per week for each workshop topic to accommodate schedules. Choose one day/time per workshop topic to attend.

### Enhanced Standard Precautions

*May 15–19, 2023*

- May 15, 1–2:30 p.m.
- May 16, 11 a.m.–12:30 p.m.
- May 18, 12–1:30 p.m.
- May 19, 2–3:30 p.m.

### Urinary Tract Infection Prevention

*June 20–23, 2023*

- June 20, 1–2:30 p.m.
- June 21, 11 a.m.–12:30 p.m.
- June 22, 12–1:30 p.m.
- June 23, 11 a.m.–12:30 p.m.

### Certified Nursing Assistant IPC Curriculum

*July 17–21, 2023*

- July 17, 1–2:30 p.m.
- July 18, 11 a.m.–12:30 p.m.
- July 20, 12–1:30 p.m.
- July 21, 2–3:30 p.m.

### EVS IPC Curriculum for EVS Managers

*August 21–25, 2023*

- August 21, 1–2:30 p.m.
- August 22, 11 a.m.–12:30 p.m.
- August 24, 12–1:30 p.m.
- August 25, 2–3:30 p.m.

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# County/CDPH Briefings




- **CDPH/HSAG SNF IP Webinars:**
  - 4th Wednesday @ 3PM-4PM
  - Next webinar is on 6/28/2023
  
- **County LTC Sector COVID Monthly Telebriefing:**
  - 4th Thursday @ 2PM-3PM
  - Next briefing is on 6/29/2023
  
- **CDPH Healthcare Facility Call:**
  - 2nd Tuesday of each month @ 8AM-9AM
  - Next call is on 7/11/23



# Contact Hour Instructions

- **Ensure your full name identifies you on Zoom**
- **Enjoy the full presentation**
- **Complete the post-evaluation**

A woman with blonde hair, wearing a blue jacket, stands in a desert canyon with red rock walls and green shrubs. She has her arms raised in a celebratory gesture. A semi-transparent white box with black text is overlaid on the top left of the image.

## **“Combating Carbapenemase Producing Organisms (CPO)”**

**Mara Rauhauser, BSN, RN, PHN  
Infection Preventionist**

# Objectives



## Upon completion of this program, you will be able to:

- Name three circumstances that have contributed to the increase in antimicrobial resistance in the United States.
- Describe three characteristics of CROs
- List 4 of the most commonly seen CROs in San Diego County.
- Identify 3 infection prevention actions that can prevent the spread of CROs in healthcare facilities.



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# Multidrug Resistant Organisms (MDRO)



## Many complex issues have contributed to the increase in MDROs

- Antimicrobial use in people, including misuse and overuse
- Antimicrobial use in livestock
- Antifungal use in agriculture
- Global connectedness (movement of people and products)

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# Effects of COVID-19 on the Antimicrobial Resistance

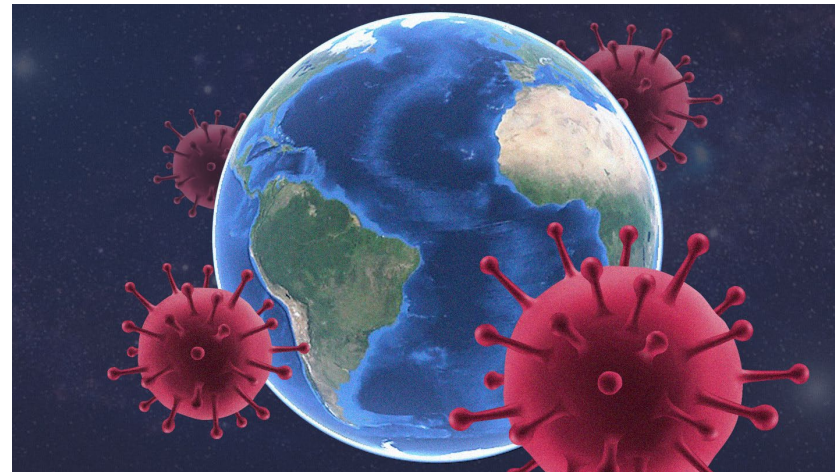


Higher acuity patients,  
resulting in longer  
hospital stays and more  
antibiotic use

Innovations unrelated to  
COVID-19 were not the priority

Staffing Shortages

PPE Shortages



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Cohorting was mainly done  
according to COVID status

Detection and tracking of AR  
data slowed tremendously

IPC practices suffered overall

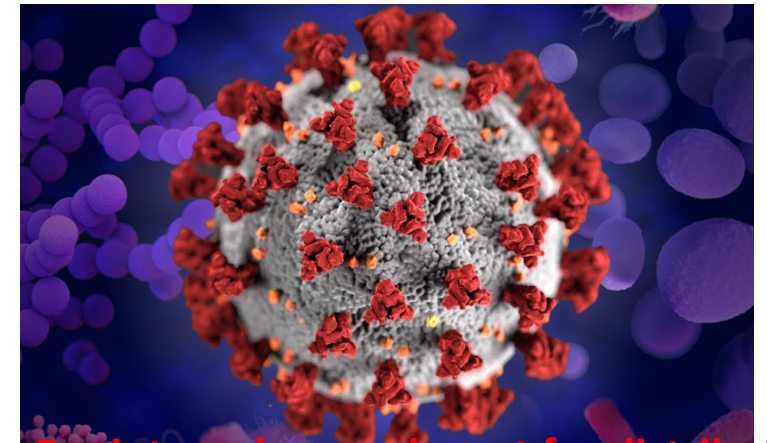
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# The COVID Effect

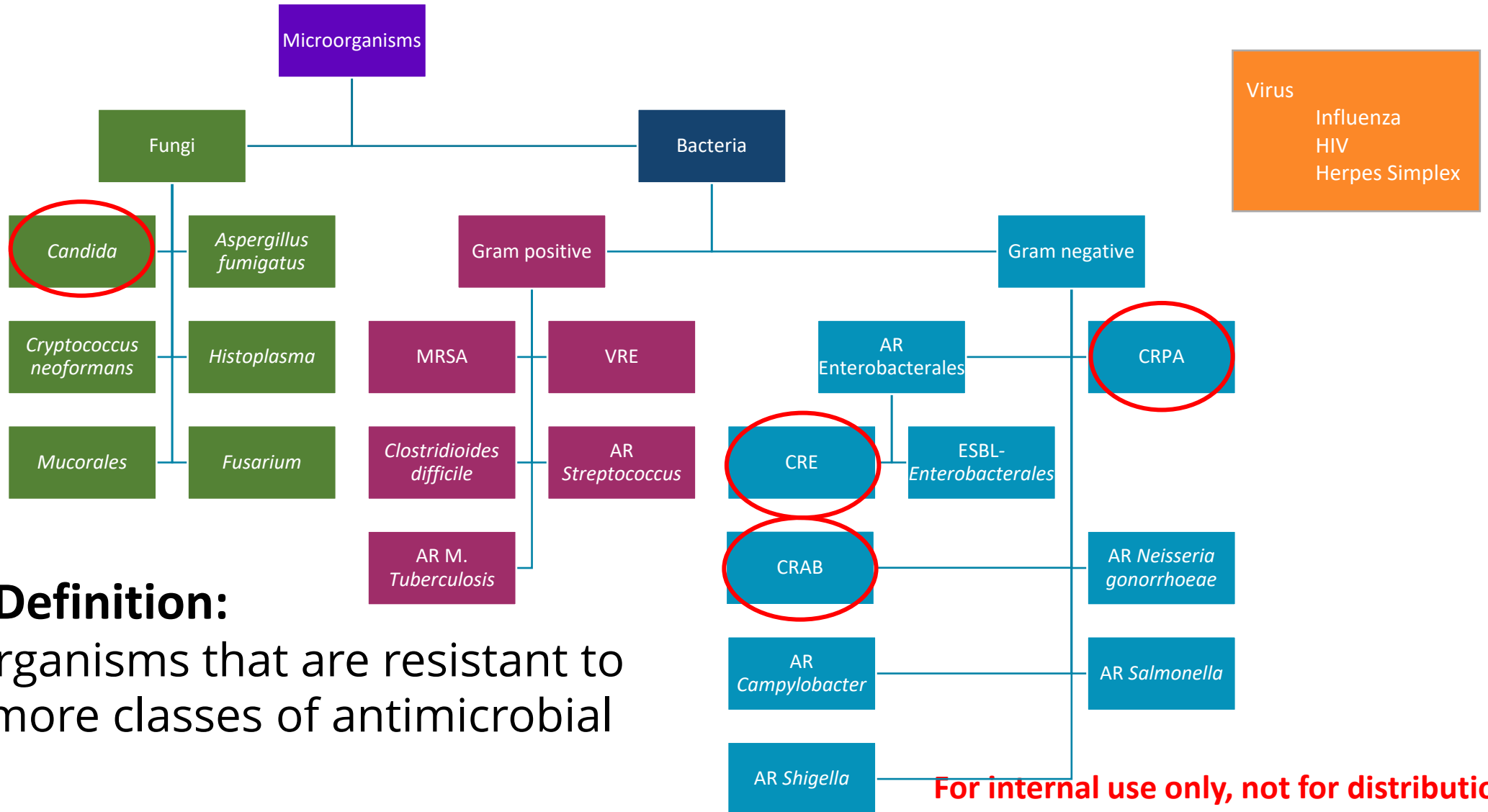


**Available data show an alarming increase in resistant infections starting during hospitalization, growing at least 15% from 2019 to 2020.**

- Carbapenem-resistant *Acinetobacter* (↑78%)
- Antifungal-resistant *Candida auris* (↑60%)\*
- Carbapenem-resistant Enterobacterales (↑35%)
- Antifungal-resistant *Candida* (↑26%)
- ESBL-producing Enterobacterales (↑32%)
- Vancomycin-resistant Enterococcus (↑14%)
- Multidrug-resistant *P. aeruginosa* (↑32%)
- Methicillin-resistant *Staphylococcus aureus* (↑13%)



# Types of MDROs





# Antimicrobial Stewardship



## HOW ANTIBIOTIC RESISTANCE HAPPENS



1

There are lots of germs and a few are resistant to **antibiotics**.



2

When **antibiotics** kill bacteria causing illness, they also kill good bacteria protecting the body from infection.



3

The **antibiotic-resistant** bacteria grow and take over.



4

Some bacteria give their **antibiotic resistance** to other bacteria, causing more problems.



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[www.cdc.gov/antibiotic-use](http://www.cdc.gov/antibiotic-use)

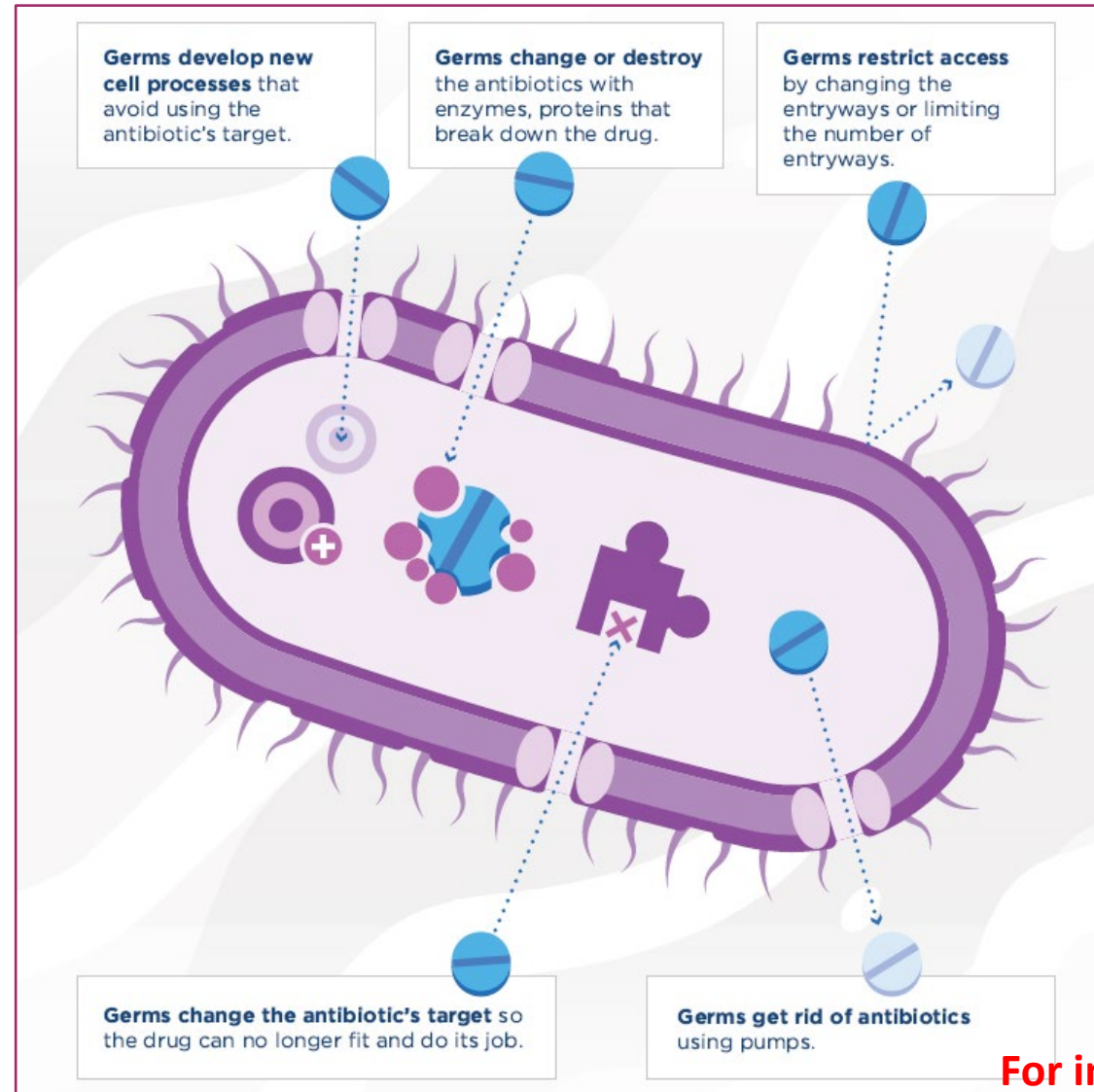
# Resistance Mechanisms



COUNTY OF SAN DIEGO  
**HHSA**  
HEALTH AND HUMAN SERVICES AGENCY



Healthcare  
Associated  
Infections  
Program



[How Bacteria and Fungi Fight Back Against Antibiotics \(cdc.gov\)](https://www.cdc.gov/antibiotic-use/)

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# Resistance Mechanisms



VIM

CRE

CRAB

CRPA

NDM



IMP

ESBL



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# Carbapenem Resistance



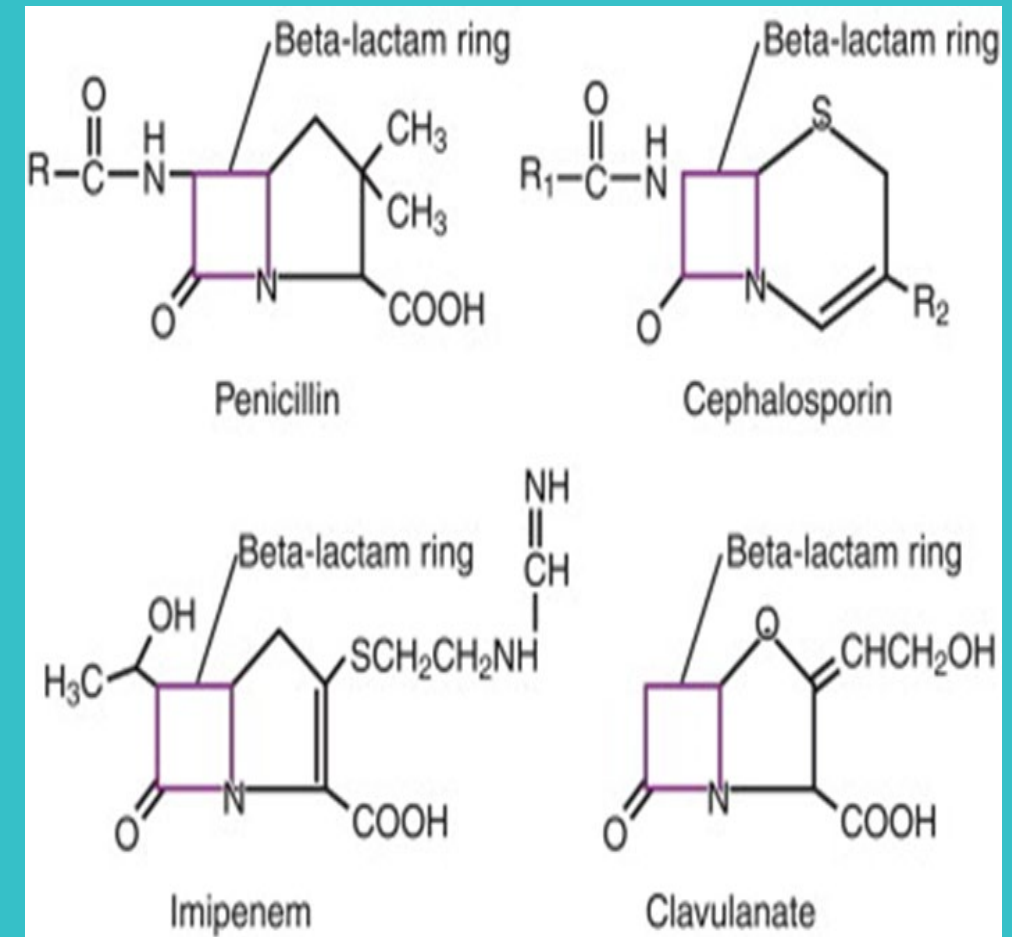
- **What is carbapenem resistance?**

- When an organism is able to grow and thrive in the presence of a carbapenem antibiotic.

- **What are carbapenems?**

- Class of last-line “beta-lactam” antibiotics, related to penicillin
- Specific Carbapenems: **Imipenem, Doripenem, Ertapenem, Meropenem**

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# Carbapenemase Production



## One type of antimicrobial resistance is the production of carbapenemase.

- Carbapenemase is an **enzyme** that prevents beta-lactam antibiotics from working effectively, this includes carbapenems
- There are different recipes for **carbapenemase**.
- These recipes are on segments of DNA. Each one has a different name. Sometimes they are in the non mobile portions of DNA and sometimes in the plasmids. Mobile segments, like plasmids, are more likely to be shared with other bacteria.



### Plasmids

Circles of DNA that can move between cells.



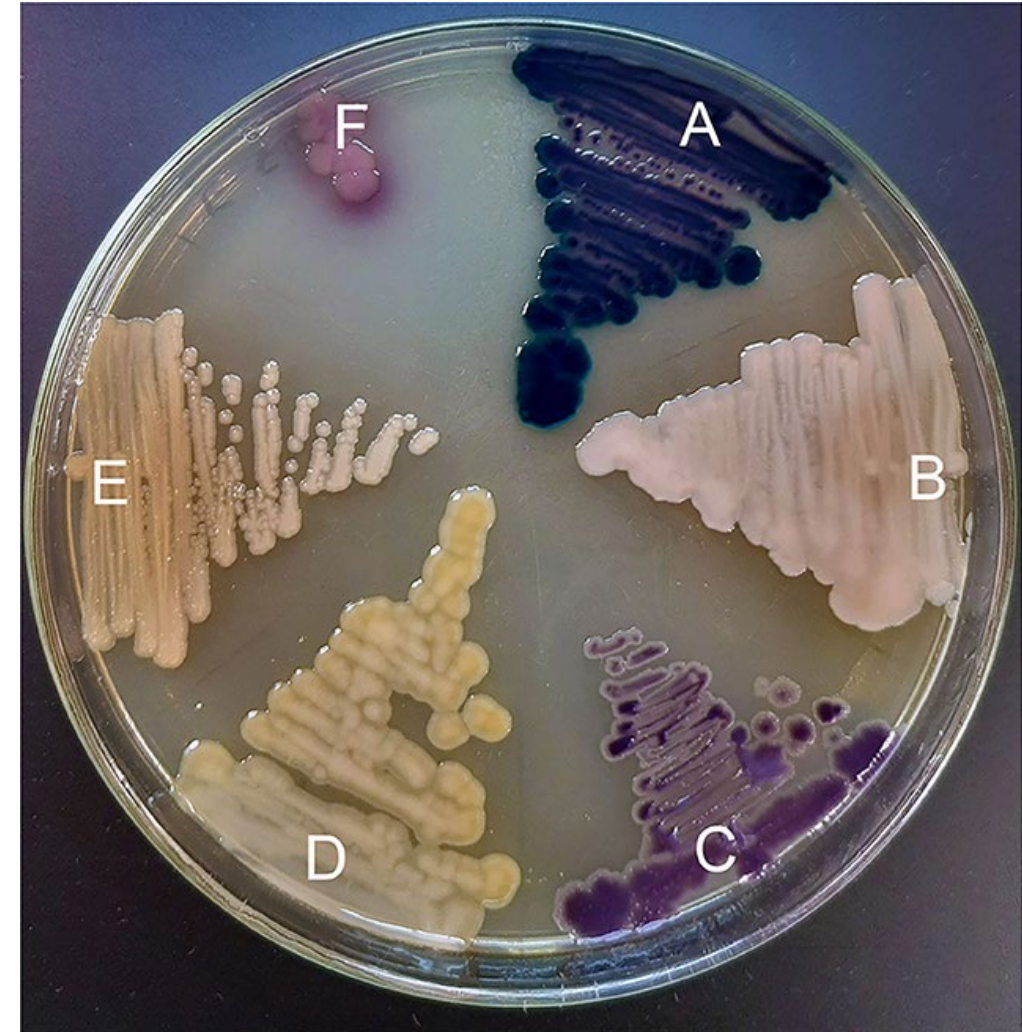
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# Most Common Enterobacterales



- *Escherichia coli*
- *Klebsiella pneumoniae*
- *Enterobacter*
- *Citrobacter*
- *Hafnia*
- *Morganella*
- *Proteus*
- *Providencia*
- *Serratia*

The most common types of carbapenemase seen in **CRE** in the United States are: KPC, NDM, VIM, IMP, OXA-48, Dual mechanism.



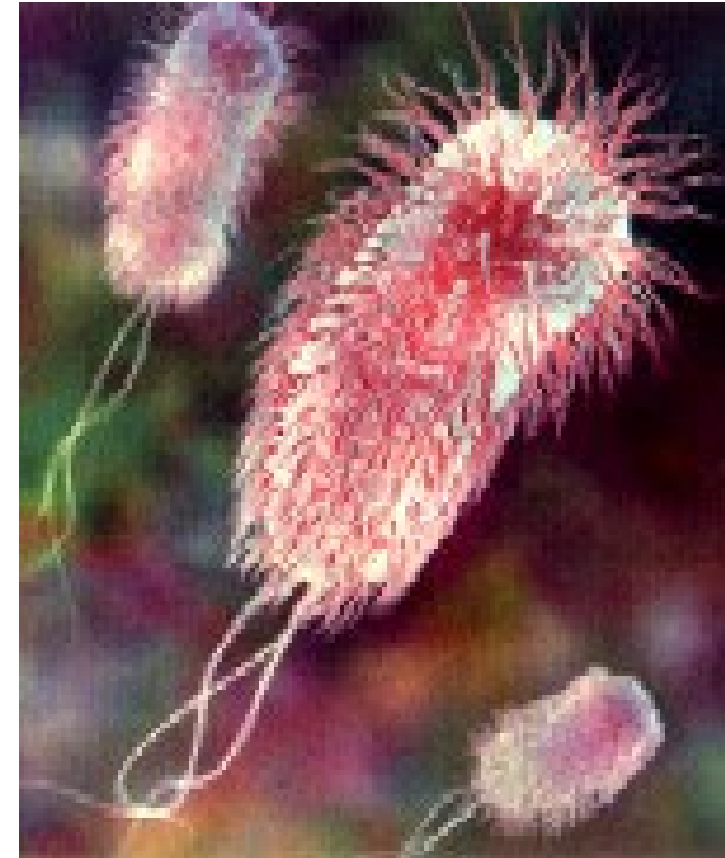
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# Enterobacterales: *Escherichia coli*



- Gram-negative
- Found in the GI tract of humans and in the environment of hospitals and LTC facilities.
- Many strains cause intestinal illness including: STEC, ETEC, and EPEC
- Carbapenem resistant strains:
  - UTI is the most common extraintestinal site of infection by *E. coli*
  - Pneumonia: including VAP (ventilator-associated pneumonia)
  - Bacteremia, meningitis and many others



# Enterobacterales: *Klebsiella pneumoniae*



- Considered the most common cause of HA pneumonia in the United States
- Accounts for 3-8% of all nosocomial bacterial infections
- Typically colonizes human mucosal surfaces of the oropharynx, GI tract, and stool
- It is estimated that 5-38% of the general population carry the organism in their stool and 1-6% in the nasopharynx
- Found in contaminated food, water, and healthcare environments including sink drains and toilets





# Enterobacterales: *Enterobacter spp.*



- Less commonly a cause of community acquired infections including UTI, osteomyelitis, and respiratory infections
- Found in GI tract, human skin, water, soil, sewage and certain foods
- Gram negative, rod-shaped, some have flagella and thus are motile
- Common HA infections include bacteremia, pneumonia and UTI



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# *Pseudomonas spp.*



- Most common types seen in humans: *P. aeruginosa* and *P. maltophilia*
- Which gene mechanisms are prevalent in CP-CRPA
  - VIM
  - NDM
  - IMP
  - GES
- Community acquired infections like puncture wounds and pneumonia
- HA infections:
  - VAP (ventilator associated pneumonia)
  - CAUTI (catheter associated urinary tract infections)
  - CLABSI (central line-associated infection)
  - SSI (surgical site infection)



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# *Acinetobacter baumannii*



- *Acinetobacter calcoaceticus-baumannii* complex includes:
  - *Acinetobacter calcoaceticus*
  - *Acinetobacter baumannii*
  - *Acinetobacter pittii*
  - *Acinetobacter nosocomialis*
- Found in soil and water as well as in healthcare settings
- Frequently seen in facilities in San Diego County
- Often resistant to most or all antibiotics it is tested against

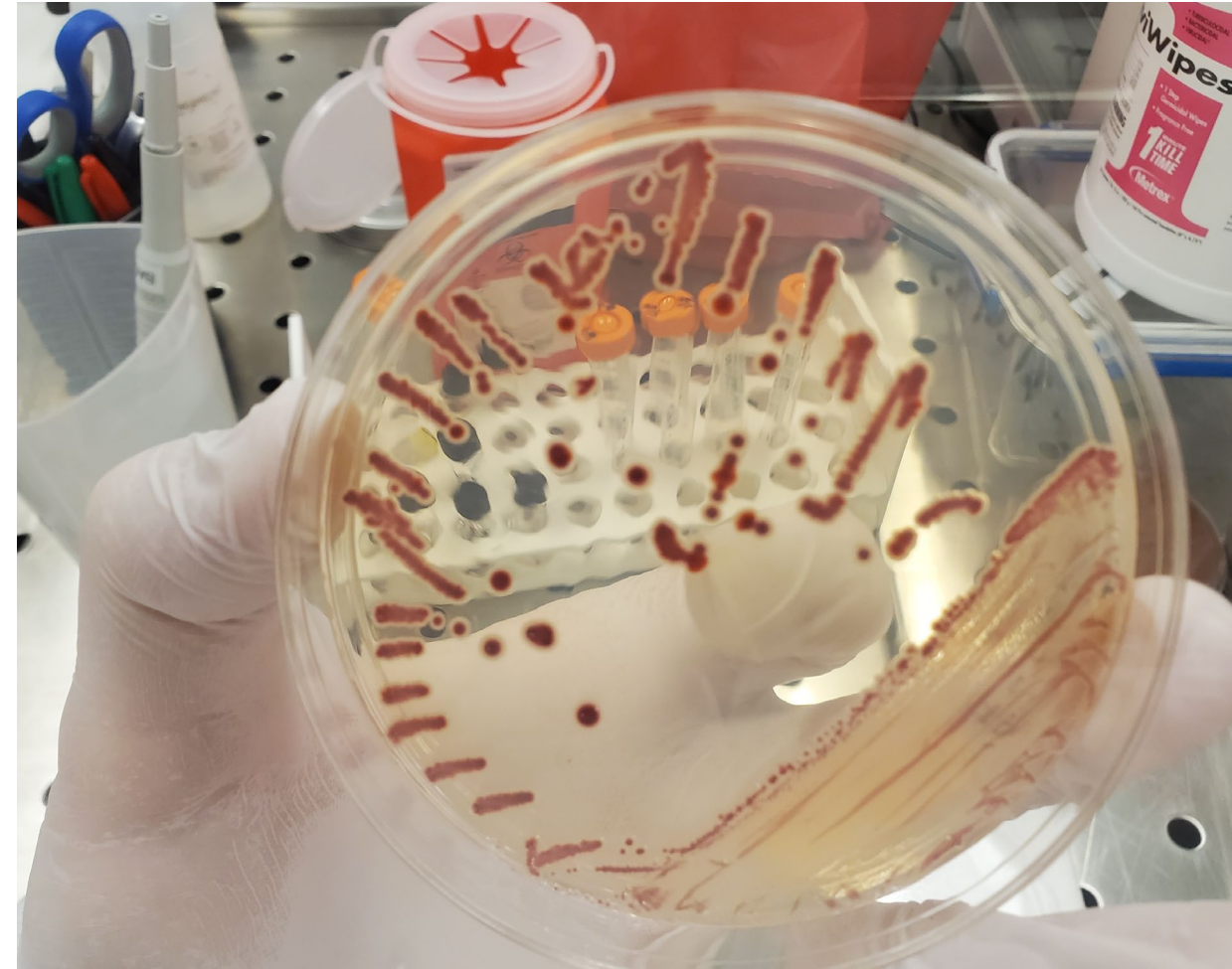
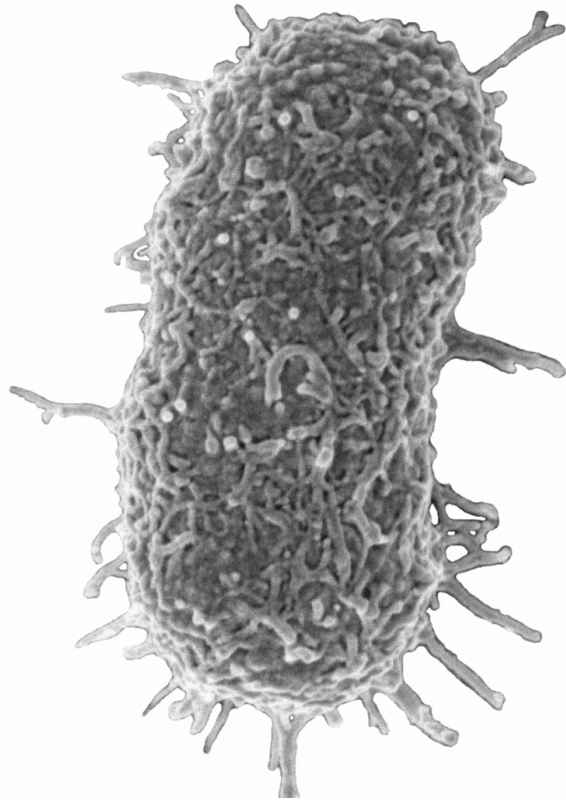


Photo taken at our own PHL

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# Carbapenem Resistant *Acinetobacter baumannii* (CRAB)



## Which gene mechanisms are prevalent in CRAB?

OXA-23

OXA-24/40

OXA-235 like/237

NDM

## Infections

Blood, urinary tract, lungs, or wounds.

Treatment options are often very limited

Morbidity and mortality rates are high

[Giving \*Acinetobacter baumannii\* a choice: death by phage or death by antibiotic | Nature Portfolio Microbiology Community](#)



# Additional Challenges For These MDROS

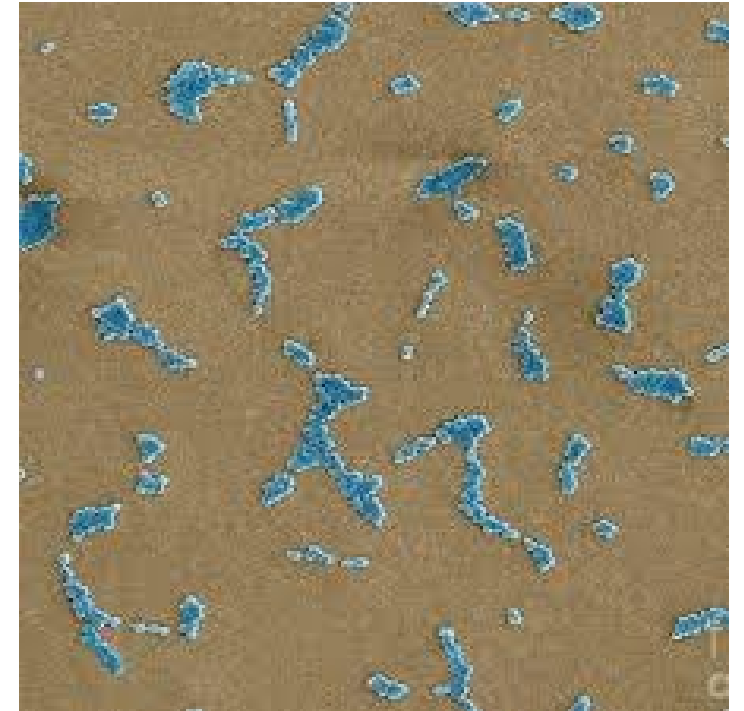


- **Colonization**

- Asymptomatic
- Can be a source of transmission
- Indefinite duration
- Currently there is no decolonization strategy.
- Cases often start as colonization and move into active infection

- **Additional Challenges**

- Harm and death rates for invasive infections are high
- Highly transmissible in healthcare settings
- Can live for weeks to months on environmental surfaces
- Difficult to eradicate with commonly used disinfectants



# Examples



P. aeruginosa		
ANTIBIOTICS	MIC mcg/mL	INT
Amikacin	$\leq 8$	S D1
Aztreonam	8	S D1
Ceftazidime	2	S D2
Ciprofloxacin	$\leq 0.5$	S D2
Cefepime	2	S D2
Gentamicin	$\leq 2$	S D1
Meropenem	4	I
Tobramycin	$\leq 2$	S D1
Piperacillin/Tazobactam	4/4	S D3

P. aeruginosa		
ANTIBIOTICS	MIC mcg/mL	INT
Amikacin	$\leq 8$	S D1
Aztreonam	16	I D1
Ceftazidime	$> 16$	R D2
Ciprofloxacin	2	R D2
Cefepime	8	S D2
Gentamicin	$\leq 2$	S D1
Meropenem	$> 8$	R
Tobramycin	$\leq 2$	S D1
Piperacillin/Tazobactam	$> 64/4$	R D3

Not CRO  
*Pseudomonas  
aeruginosa*

CRO  
?CPO  
CRPA

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# Examples



	<b><i>P. aeruginosa</i></b>	
ANTIBIOTICS	MIC mcg/mL	INT
Amikacin	>32	R D1
Aztreonam	>16	R D1
Ceftazidime	>16	R D2
Ciprofloxacin	>2	R D2
Cefepime	>16	R D2
Gentamicin	>8	R D1
<b>Meropenem</b>	>8	R D1
Tobramycin	>8	R D1
Piperacillin/Tazobactam	>64/4	R D3
Colistin	≤2	S D4
Ceftolozane + Tazobactam	>8/4	R D5
Ceftazidime + Avibactam	>16/4	R D6

CRO  
?CPO  
CRPA

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# Examples



Final - June 03, 2023 9:26 PDT -  
Sparse growth of *Klebsiella pneumoniae*

--- Multiple Drug Resistant Organism (MDRO).

Confirmatory tests indicate resistance due to carbapenemase production.

The clinical efficacy of carbapenems has not been established  
for organisms exhibiting this resistance pattern.

--- POSITIVE for KPC gene

--- IMP gene: Not Detected , VIM gene: Not Detected ,

--- NDM gene: Not Detected , OXA48 gene: Not Detected

CRO  
CPO  
CP-CRE

**\*\*Not all *Klebsiella pneumoniae* are KPC**

Pre - January 21, 2019 11:40 PST -  
Aerobic bottle: *Pseudomonas aeruginosa*

--- Multiple Drug Resistant Organism (MDRO).

Confirmatory tests indicate resistance due to carbapenemase production.

The clinical efficacy of carbapenems has not been established  
for organisms exhibiting this resistance pattern.

--- VIM gene detected

Aerobic bottle: No growth after less than 1 day incubation

CRO  
CPO  
CP-CRPA

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# Examples



## ! CRO Screen (Surveillance)

Collected: 9/23/2019 23:20 Status: Final result Visible to patient: No (Not Released)

Specimen Information: Rectum; Swab

	Ref Range & Units	
blaIMP	Not Detected	Not Detected
blaVIM	Not Detected	Not Detected
blaNDM	Not Detected	Detected !
blaKPC	Not Detected	Not Detected
blaOXA48	Not Detected	Not Detected

Resulting Agency SCLABMC

### Narrative

The Xpert Carba-R Assay is a qualitative PCR in-vitro diagnostic detection of blaKPC, blaNDM, blaVIM, blaOXA-48, and blaTMP gene associated with carbapenem non-susceptible bacteria. A negative result does not preclude the presence of other resistance mechanisms. These results have been reported to the San Diego Dept of Health required by Title 17, Calif Code of Regulations, Section 2500.

Specimen Collected: 09/23/19 23:20

Last Resulted: 09/24/19 17:08

[Order Details](#) [View Encounter](#) [Lab and Collection Details](#) [Routing](#)

CRO  
CPO

# Examples



## ORGANISM

**Acinetobacter baumannii !**

## Susceptibility

	Acinetobacter baumannii ANTIMICROBIAL SUSCEPTIBILITY	
Ampicillin+Sulbactam	16	<b>RESISTANT</b>
Cefepime	$\geq 64$	<b>RESISTANT</b>
Ceftazidime	$\geq 64$	<b>RESISTANT</b>
Ceftriaxone	$\geq 64$	<b>RESISTANT</b>
Ciprofloxacin	$\geq 4$	<b>RESISTANT</b>
Colistin	$\leq 0.25$	<b>SUSCEPTIBLE</b>
Gentamicin	$\geq 16$	<b>RESISTANT</b>
Meropenem	$\geq 16$	<b>RESISTANT</b>
Piperacillin+Tazobactam	$\geq 128$	<b>RESISTANT</b>
Tigecycline	1	<b>SUSCEPTIBLE</b>
Trimethoprim+Sulfamethoxazole	$\leq 20$	<b>SUSCEPTIBLE</b>

CRO  
?CPO  
CRAB

# At Risk Population



## Who is at risk?

- These are opportunistic organisms that most often affect very ill people.
- Patients with history of admission to high-risk healthcare facility (e.g., ICU, LTACH, or SNF)
- Being on a mechanical ventilator
- Having lines, tubes, drains, wounds
- Recent healthcare abroad or in areas with known transmission

# These MRDOs Spread By Contact



**Healthcare worker hands**



**Healthcare worker uniforms**



# These MRDOs Spread By Contact



## Shared and Reusable Equipment



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## Contaminated Surfaces

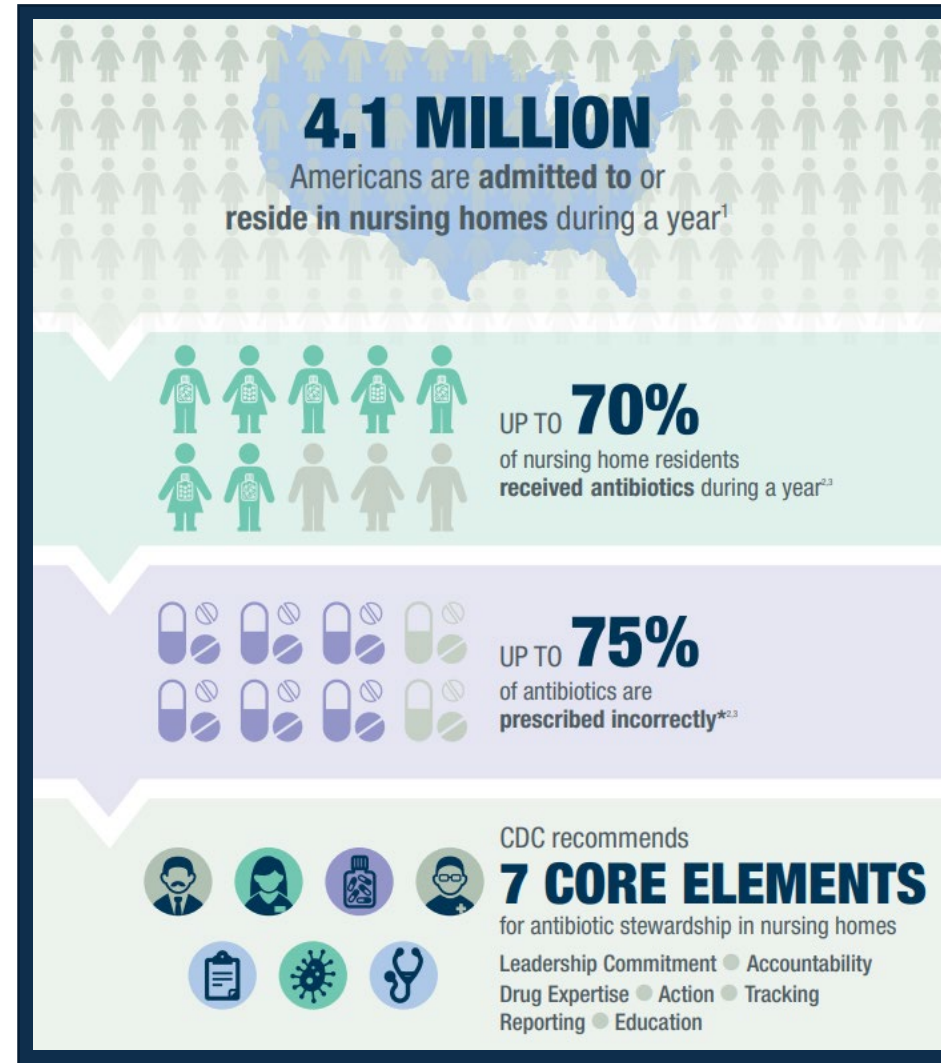


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# Antimicrobial Stewardship



A strong **Antimicrobial Stewardship Program (ASP)** is a key piece in fighting antimicrobial resistance



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# How To Prevent Transmission



- Use of good **hand hygiene** by all staff
- Proper use of **PPE** by all staff
- Excellent **EVS practices** to reduce cross contamination and decrease the number of bacteria in the environment
- Use a whole house disinfectant that is on **EPA List P** and has a **contact time** of 5 minutes or less
- Proper disinfection of **shared/reusable medical** equipment and **high touch areas** throughout the facility and across all departments
- Good Hand hygiene and personal hygiene for **residents**
- **Adherence monitoring** to improve above practices





# How To Prevent Transmission



- **Enhanced Standard Precautions Program**
- Place resident in **Contact isolation** or **ESP** as appropriate if you have a whole facility program
- **Cohort** appropriately-like with like
- **Dedicate** equipment when possible
- **Limit** room changes for any MDRO positive residents
- **Communicate** MDRO history and isolation status to any receiving facility
- **Communicate** with HAI team and San Diego Public Health as requested
- Utilize HAI team **support**



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# Infection Prevention and Control- Quick Reference Chart



**Table 1. *C. auris*, other MDRO (including *C. diff*) and COVID-19 Containment, Infection Control Measures**

	<i>C. auris</i>	<i>Acinetobacter</i>	Other MDRO (e.g., CRE)	<i>C. diff</i>	COVID-19
Good hand hygiene – ABHS preferred	X	X	X	Soap & water	X
Contact precautions, single room if possible	X	X	X	X	+ respirator, eye protection
Thorough environmental cleaning and disinfection	Use <a href="#">C. auris/List K agent</a>	X	X	Use <a href="#">List K agent</a>	Use <a href="#">List N agent</a> ( <i>C. auris</i> /List K agent OK)
Routine adherence monitoring	X	X	X	X	X
Cohorting of patients and HCP	X	X	X	X	X
Lab surveillance	X	X	X	X	X
Screening of high-risk contacts	X	X	X		X

ABHS=alcohol-based hand sanitizer; *C. diff*=*Clostridioides difficile*; CRE=Carbapenem-resistant Enterobacteriales

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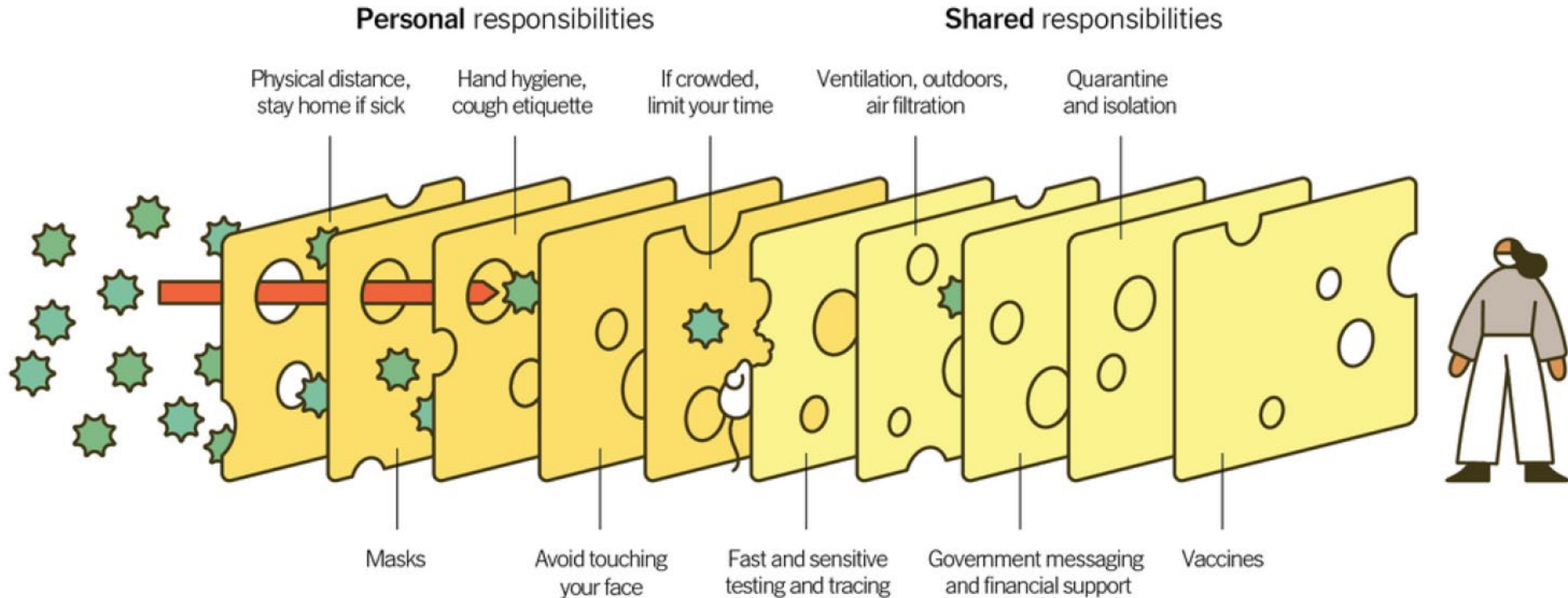


# Swiss Cheese Approach



## Multiple Layers Improve Success

The Swiss Cheese Respiratory Pandemic Defense recognizes that no single intervention is perfect at preventing the spread of the coronavirus. Each intervention (layer) has holes.



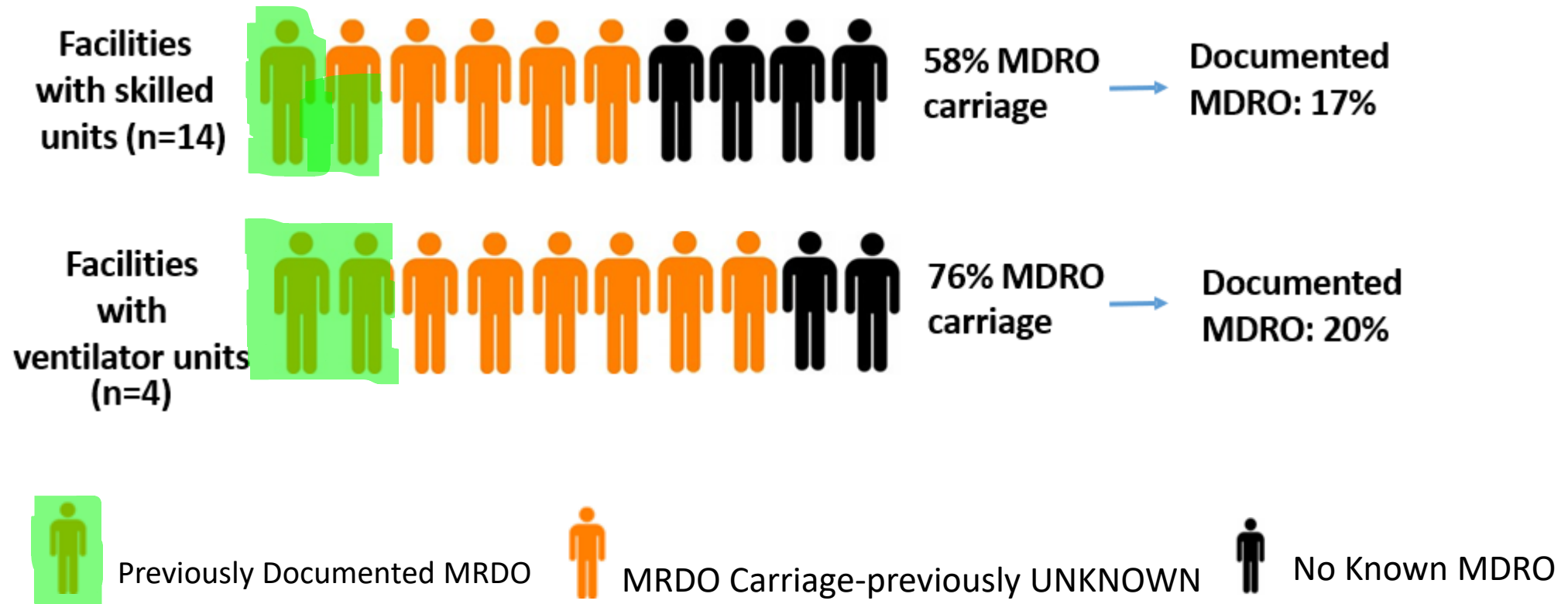
Source: Adapted from Ian M. Mackay (virologydownunder.com) and James T. Reason. Illustration by Rose Wong

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# Unknown MDRO Carriage



## Unknown MDRO Carriage in Skilled Nursing Facility Residents





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

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# Enhanced Barrier Precautions

# Enhanced Standard Precautions




**ENHANCED  
BARRIER  
PRECAUTIONS**

**EVERYONE MUST:**




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.**



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

## The Six Moments of Enhanced Standard Precautions

For these six groups of care activities, use hand hygiene, gloves, and gowns.



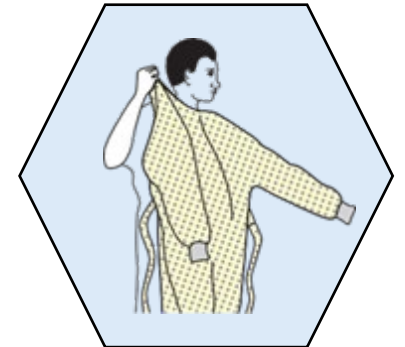
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# What is ESP



## Enhanced Standard Precautions is:

- ✓ A resident-centered, risk factor-based approach to prevent MDRO transmission in SNFs.
- ✓ For residents at **high risk of MDRO colonization** and transmission:
  - ✓ **Gloves and gowns** are used during specific care activities with greatest risk for MDRO contamination of HCW hands, clothes and environment
- ✓ Does not rely on knowledge of resident MDRO colonization status
- ✓ Allows residents with adequate hygiene and containment of body fluids to **leave their room** and **participate** in facility activities.



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1. When can this resident be cleared of isolation?
2. When can we place this person in ESP instead of Contact isolation?
3. What are the symptoms for CRAB/CRE/CRPA?
4. If colonization is asymptomatic, why does this resident need to be in contact isolation?
5. When can this resident be retested?
6. Why is it best practice to cohort this person in a single room or with residents who have the same organism/gene mechanism?



7. The admissions team is frustrated by my request to be included in admission decisions. What should I do?
8. The facility staff in my building is nervous about caring for this resident. What should I do?
9. How can we avoid miscommunication with discharging or receiving facilities?
10. Why shouldn't the dedicated BP cuff and stethoscope live in the PPE container?
11. What should I do when I have a question?

# Resources and References



- [MDRO Guides | HAI | CDC](#)
- [Antibiotic Resistance Threats in the United States, 2019 \(cdc.gov\)](#)
- [The Antibiotic Resistance Crisis - PMC \(nih.gov\)](#)
- [2022 SPECIAL REPORT: COVID-19 U.S. Impact on Antimicrobial Resistance \(cdc.gov\)](#)
- [WHO fungal priority pathogens list to guide research, development and public health action](#)
- [Pseudomonas - Medical Microbiology - NCBI Bookshelf \(nih.gov\)](#)
- [Show Me the Science | Hand Hygiene | CDC](#)
- [Promotional Materials | Hand Hygiene | CDC](#)
- [Core Elements of Antibiotic Stewardship for Nursing Homes | Antibiotic Use | CDC](#)
- [Toolkit To Improve Antibiotic Use in Long-Term Care | Agency for Healthcare Research and Quality \(ahrq.gov\)](#)
- [Web Images and Graphics | Antibiotic Use | CDC](#)
- [Continuing Education and Informational Resources | Antibiotic Use | CDC](#)
- [Precautions | Appendix A | Isolation Precautions | Guidelines Library | Infection Control | CDC](#)

# Contact Hour Instructions

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- **Ensure your Zoom name is your full name**
- **Complete the post-evaluation by Friday, June 30th, 5:00PM**
- **Expect your certificate by July 15<sup>th</sup>.**





# Next Collaborative



**July 26, 2023  
11:00AM – 12:00PM  
ZOOM**

**Featured Topic:**

**“Advocating for Infection Prevention Initiatives”**

**1 Contact Hour Offered**

**Submit questions about  
or**

**Feedback about today’s collaborative meeting to:**

**[PHS.HAI.HHSA@sdcounty.ca.gov](mailto:PHS.HAI.HHSA@sdcounty.ca.gov)**

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—”  
**THANK  
YOU**  
”—

**Contact us at:**

**[PHS.HAI.HHSA@sdcounty.ca.gov](mailto:PHS.HAI.HHSA@sdcounty.ca.gov)**



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