



# **COVID-19 Chicago Long Term Care Roundtable**

5.29.25



# Agenda

- Respiratory Disease Epi & Surveillance
- TB Requirements for Healthcare Facilities
- Alcohol-based Hand Rub Distribution Feedback
- Multidrug Resistant Organisms: Threat, Prevention, and Mitigation
- Facility Spotlight
- Upcoming Events
- Questions & Answers

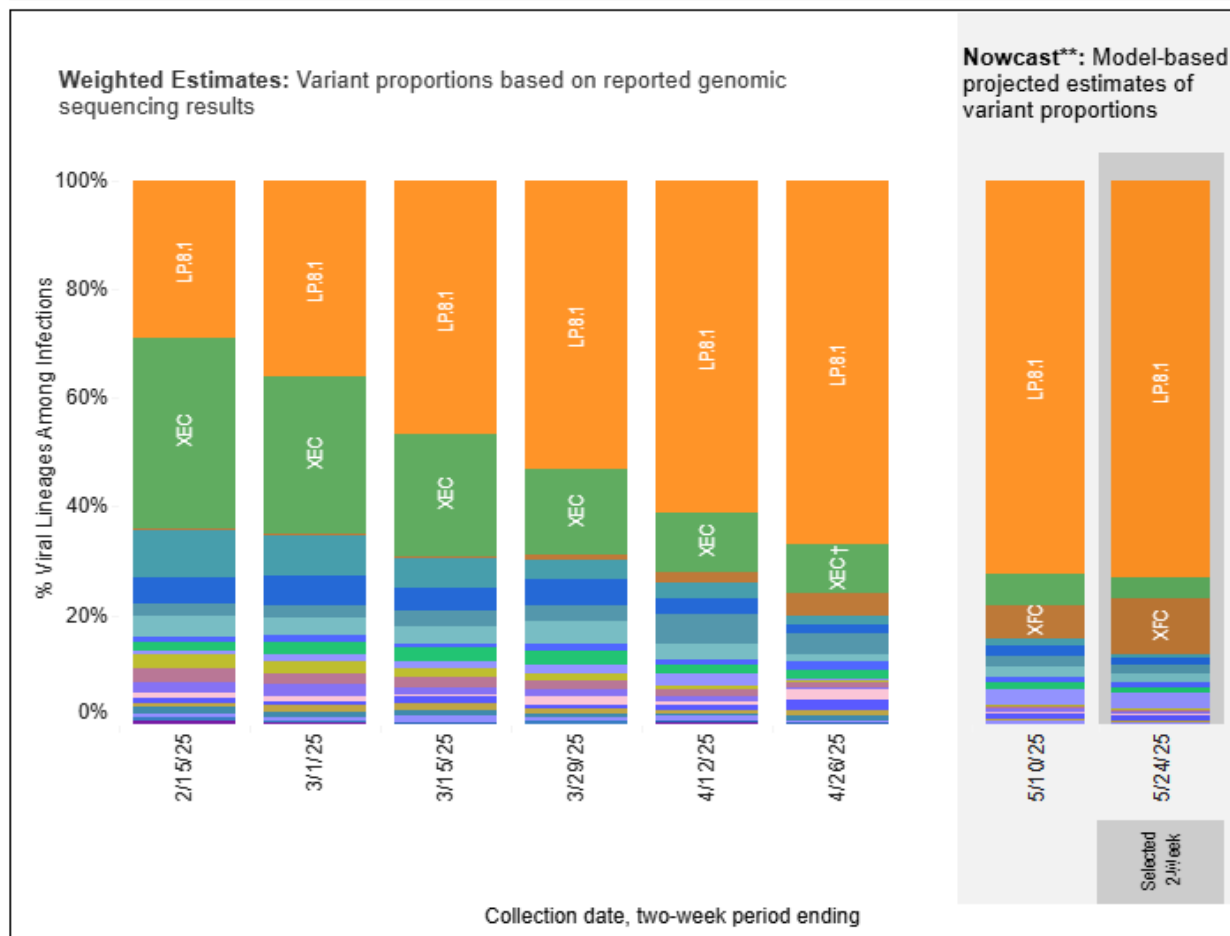
# COVID-19 Variant Proportions

Weighted and Nowcast Estimates in United States for 2-Week Periods in  
2/2/2025 – 5/24/2025

Nowcast Estimates in United States  
for 5/11/2025 – 5/24/2025



Hover over (or tap in mobile) any lineage of interest to see the amount of uncertainty in that lineage's estimate.



USA			
WHO label	Lineage #	%Total	95%PI
Omicron	LP8.1	73%	69–77%
	XFC	10%	6–17%
	XEC	4%	3–5%
	LF.7.7.2	3%	1–9%
	LF.7	2%	1–3%
	MC.10.1	1%	1–2%
	LB.1.3.1	1%	1–2%
	PA.1	1%	1–2%
	XEC.4	1%	1–2%
	LF.7.7.1	1%	0–2%
	KP.3.1.1	1%	0–1%
	LF.7.2.1	0%	0–1%
	KP.3	0%	0–1%
	XEQ	0%	0–1%
	XEK	0%	0–1%
	MC.1	0%	NA
	JN.1	0%	NA
	MC.19	0%	NA

# ★ New COVID-19 Variant: NB.1.8.1

- Omicron variant
- Detected in >20 countries, including U.S.
- No indication that it is more severe than recent variants, but it does seem easier to transmit
- Current vaccine should still provide protection against severe disease

HEALTHWATCH

## U.S. reports cases of new COVID variant NB.1.8.1 behind surge in China

Hong Kong has confirmed that it is in the midst of a new COVID-19 wave. The percentage of respiratory samples testing positive for the virus has increased dramatically—from 1.7% in March to 11.4%, which is higher than during the August 2024 peak.



WHO TAG-VE Risk Evaluation for SARS-CoV-2 Variant Under Monitoring: NB.1.8.1

## New COVID variant NB.1.8.1 found at US airports amid global surge

By HT News Desk

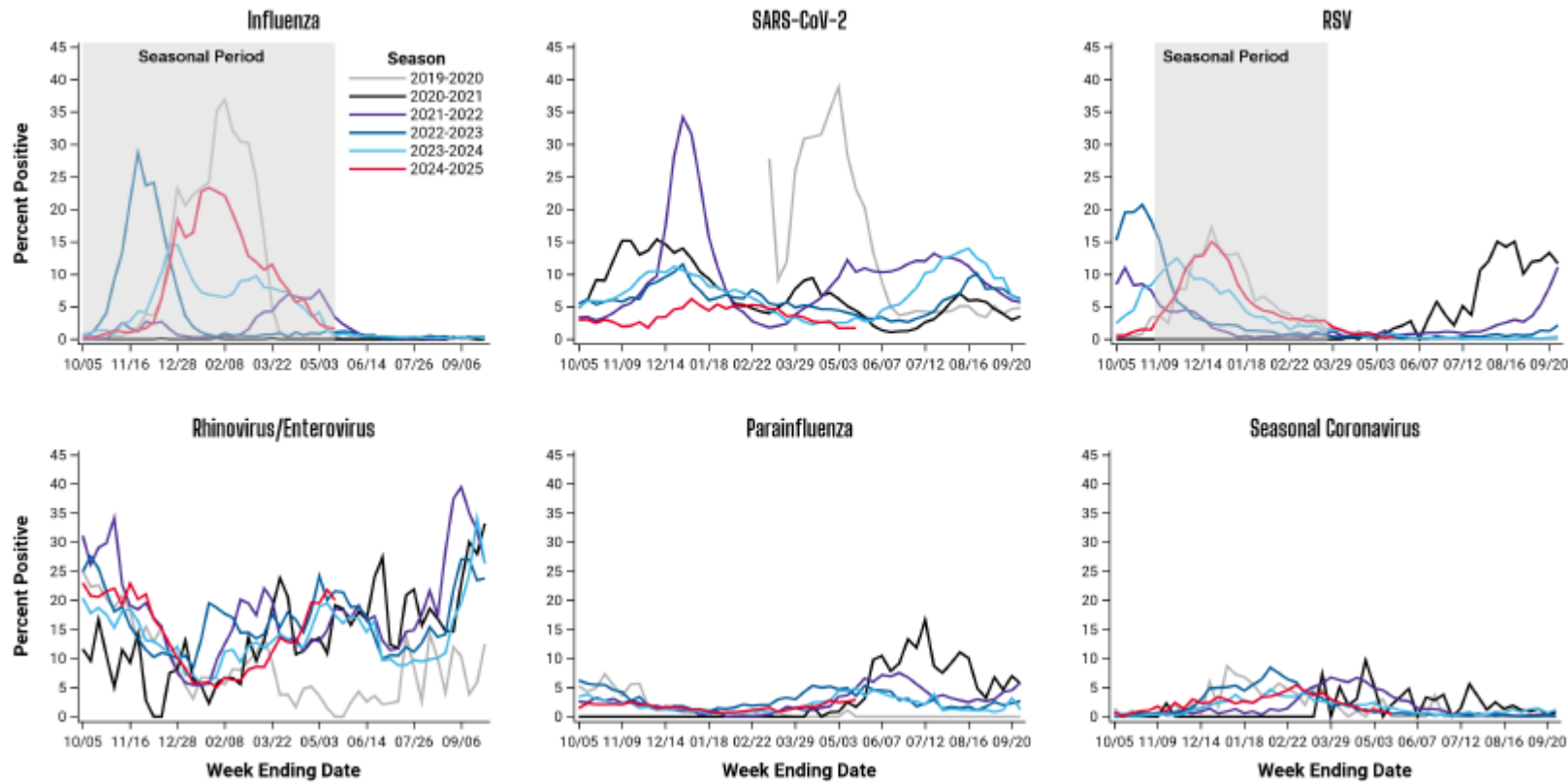
# ★ Chicago Respiratory Virus Surveillance Report – Current Week & Cumulative

Respiratory Pathogen	Week Ending May 17, 2025		Since September 29, 2024	
	# Tested	% Positive	# Tested	% Positive
Influenza*	2,124	1.7	119,858	10.5
RSV*	1,579	0.5	97,781	5.2
SARS-CoV-2*	1,617	1.7	99,267	3.9
Parainfluenza	1,440	2.9	66,617	1.6
Rhinovirus/Enterovirus	589	20.0	35,758	13.3
Adenovirus	589	1.9	35,887	1.8
Human Metapneumovirus	591	3.6	36,343	1.7
Seasonal Coronaviruses <sup>†</sup>	1,438	0.4	56,843	2.6

\*Represents both dualplex and multiplex PCR data. All other data represents only multiplex panels that include the specified pathogens;† Four seasonal coronavirus strains include 229E, NL63, OC43, and HKU1.



# Chicago Respiratory Virus Surveillance Report – Seasonal Trends





# TB Requirements for Healthcare Facilities

- Risk Assessment
  - Initial and ongoing evaluation of risk for transmission of TB. Must include administrative, environmental, and respiratory-protection controls and be reviewed at least annually
- Written Plans
  - TB infection control plan, which must be updated at least annually, that includes:
    - Protocols for screening and management of latent TB infection among staff and residents
    - Protocols for screening, diagnosis, and management of active TB
    - Data collection and evaluation
    - Reporting of persons with suspected or confirmed active TB
    - Healthcare worker education program
    - Name of person responsible for the TB prevention and control program at your facility
    - Referral mechanism for residents with TB who leave the facility



# TB Requirements for Healthcare Facilities

- TB Prevention and Control Program
  - Program that should be executed in accordance with the written plan
- Healthcare Worker Education
  - All HCWs should be trained upon hire and periodically thereafter to ensure that they have knowledge relevant to their work and know the level of risk in your facility
- Collaboration
  - Collaborate with public health authorities (e.g., CDPH/IDPH) when applicable
- Records
  - Must maintain records on TB screening test results, TB diagnostic evaluation results, information about persons exposed to TB, and the current written plan
  - Data should be analyzed periodically to identify your facility's risk level
  - Records must be available to public health upon request





# TB Resources: CDC Guidelines

- 2005 guidance document on preventing TB transmission in healthcare settings
  - Administrative, environmental, and respiratory-protection controls by setting type, including Long-Term Care settings (Appendix A, page 127)
- TB risk assessment worksheet (Appendix B, page 128)
- Risk classifications (Appendix C, page 134)

128 MMWR December 30, 2005

**Appendix B. Tuberculosis (TB) risk assessment worksheet**  
This model worksheet should be considered for use in performing TB risk assessments for health-care settings and nontraditional facility-based settings. Facilities with more than one type of setting will need to apply this table to each setting.

Scoring: ☐ or Y = Yes ☐ X or N = No ☐ NA = Not Applicable

**1. Incidence of TB**

a. What is the incidence of TB in your community (county or region served by the health-care setting), and how does it compare with the state and national average?

b. What is the incidence of TB in your facility and specific settings, and how do those rates compare? (Incidence is the number of TB cases in your community during the previous year. A rate of TB cases per 100,000 persons should be obtained for comparison.) This information can be obtained from the state or local health department.

c. Are patients with suspected or confirmed TB disease encountered in your setting (inpatient and outpatient)?

1) If yes, how many are treated in your health-care setting in 1 year? (Review laboratory data, infection-control records, and databases containing discharge diagnoses for this information.)

2) If no, does your health-care setting have a plan for the triage of patients with suspected or confirmed TB disease?

d. Currently, does your health-care setting have a cluster of persons with confirmed TB disease that might be a result of ongoing transmission of *Mycobacterium tuberculosis*?

**2. Risk Classification**

a. Inpatient settings

1) How many inpatient beds are in your inpatient setting?

2) How many patients with TB disease are encountered in the inpatient setting in 1 year? (Review laboratory data, infection-control records, and databases containing discharge diagnoses.)

3) Depending on the number of beds and TB patients encountered in 1 year, what is the risk classification for your inpatient setting?

4) Does your health-care setting have a plan for triaging patients with suspected or confirmed TB disease?

b. Outpatient settings

1) How many TB patients are evaluated at your outpatient setting in 1 year? (Review laboratory data, infection-control records, and databases containing discharge diagnoses for this information.)

2) Is your health-care setting a TB clinic? (If yes, a classification of at least medium risk is recommended.)

3) Does evidence exist that a high incidence of TB disease has been observed in the community that the health-care setting serves?

4) Does evidence exist of person-to-person transmission of *M. tuberculosis* in the health-care setting? (Use information from case reports. Determine if any TST or blood assay for *M. tuberculosis* [BAMT] conversions have occurred among health-care workers [HCWs].)

5) Does evidence exist that ongoing or unresolved health-care-associated transmission has occurred in the health-care setting (based on case reports)?

6) Does a high incidence of immunocompromised patients or HCWs in the health-care setting exist?

7) Have patients with drug-resistant TB disease been encountered in your health-care setting within the previous 5 years?

8) When was the first time a risk classification was done for your health-care setting?

9) Considering the items above, would your health-care setting need a higher risk classification?

**Rate**

Community \_\_\_\_\_  
State \_\_\_\_\_  
National \_\_\_\_\_  
Facility \_\_\_\_\_  
Department 1 \_\_\_\_\_  
Department 2 \_\_\_\_\_  
Department 3 \_\_\_\_\_

**No. patients**

Year	Suspected	Confirmed
1 year ago	_____	_____
2 years ago	_____	_____
5 years ago	_____	_____

Quantity \_\_\_\_\_  
Previous year \_\_\_\_\_  
5 years ago \_\_\_\_\_

\_\_\_\_ Low risk  
\_\_\_\_ Medium risk  
\_\_\_\_ Potential ongoing transmission

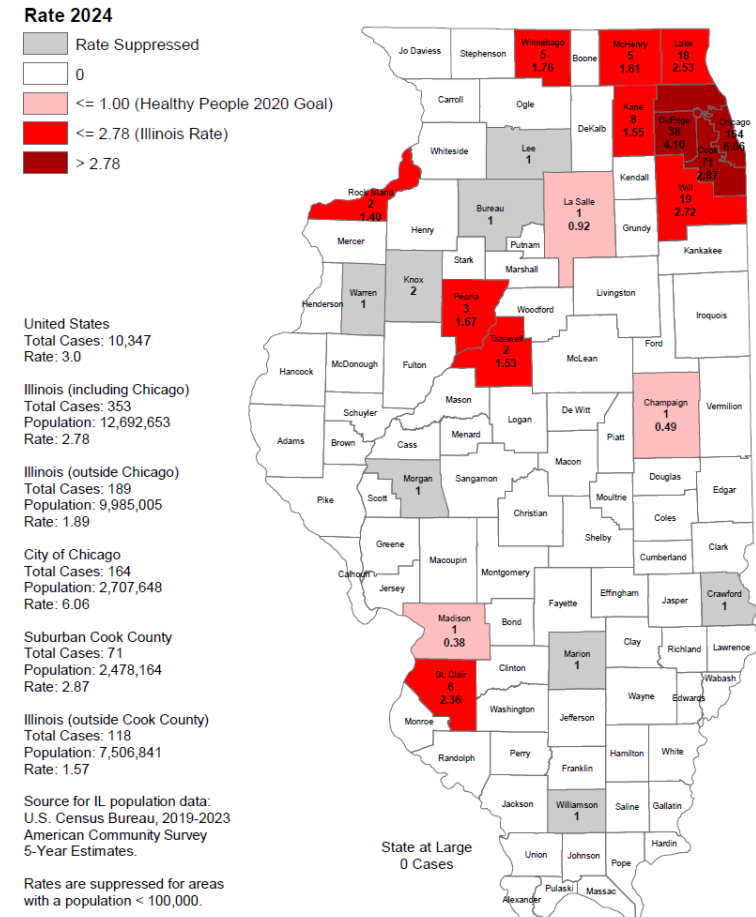
Previous year \_\_\_\_\_  
5 years ago \_\_\_\_\_

Year encountered \_\_\_\_\_  
Date of classification \_\_\_\_\_

# 2024 Tuberculosis Rates

- U.S.: 3.0 TB cases per 100,000 residents
- Illinois: 2.78 TB cases per 100,000 residents
- Chicago: 6.06 cases per 100,000 residents
- Data can be used for your facility's TB risk assessment

### Illinois Tuberculosis Case Rates per 100,000 Population 2024



National Statistics Source:  
From: <https://www.cdc.gov/tb-data/2024-provisional/index.html>

# TB Resources: CDPH LTC HAN Page

## **Tuberculosis**

Tuberculosis (TB) is caused by a bacterium called *Mycobacterium tuberculosis*. Not everyone infected with TB bacteria becomes sick. As a result, two TB-related conditions exist: **latent TB infection** (LTBI) and **TB disease**. For most people with LTBI, *M. tuberculosis* remains in the inactive state in which the infected person has no symptoms and cannot spread the infection to others. But in other people, especially people who have a weak immune system, the bacteria become active, multiply, and cause TB disease. Progression to TB disease can take weeks to decades after initial infection. People with TB disease have symptoms or other manifestations of illness (e.g., an abnormal chest radiograph). The bacteria usually attack the lungs, but TB bacteria can attack any part of the body such as the kidney, spine, and brain.

**Precautions:** Airborne precautions should be implemented for residents with suspected or confirmed pulmonary TB, discontinue precautions only when resident on effective therapy is improving clinically and has 3 consecutive sputum smears negative for acid-fast bacilli collected on separate days. Airborne + contact precautions should be implemented for residents with extrapulmonary TB who have a draining lesion, discontinue precautions only when resident is improving clinically, and drainage has ceased or there are 3 consecutive negative cultures.

### **Additional Resources:**

- [TB Screening and Testing of Health Care Personnel](#) - All U.S. health care personnel should be screened for TB upon hire. The TB screening should include a baseline individual [TB risk assessment](#), [TB symptom](#) evaluation, a [TB test](#) (e.g., TB blood test or TB skin test), and any additional evaluation for TB disease as needed.
- [Tuberculosis Screening, Testing, and Treatment of U.S. Health Care Personnel: Recommendations from the National Tuberculosis Controllers Association and CDC, 2019](#) - Updated recommendations to the 2005 CDC guidelines.
- [2024 Tuberculosis Rate Map](#) - This map contains TB rates for Chicago, Illinois, and the U.S. This map should be used to complete your long term care facility's TB risk assessment. Map is provided by IDPH and is updated annually.



# Alcohol-based Hand Rub (ABHR) Distribution Feedback

Requesting feedback on if/how  
your facility used the pocket-sized  
ABHR that CDPH distributed last  
year





# Multi-Drug Resistant Organisms: Threat, Prevention, and Mitigation

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Bureau of Disease Control | Healthcare Settings  
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# Learning Objectives

- Discuss Antimicrobial Resistance (AMR), Multi-Drug Resistant Organisms (MDROs), and the threat they pose.
- Discuss the transmission of MDRO in healthcare settings.
- Discuss the importance proper Infection Prevention and Control practices as related to MDROs.

# ★ Introduction to MDROs

## Definition

- MDROs are “*microorganisms (germs), mostly bacteria, that are resistant to one or more **classes of antimicrobials** used to treat infections*”

## Causes

- Exposure to antimicrobials kills germs without resistance, creating pressure for resistance to develop.

## New Drug Development

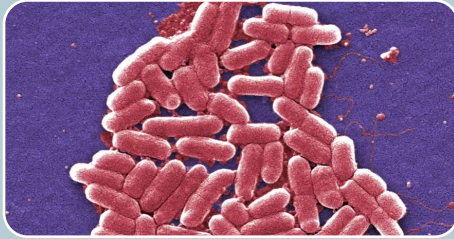
- No new **classes** of antibiotics have been developed in over **30 years**.

## Infection Prevention and Control

- Critical for maintaining the usefulness of our antimicrobials for as long as possible.



# Consequences of Antimicrobial Resistance



In 2019, antimicrobial resistant (AMR) infections caused 1.27 Million deaths, and contributed to a further 4.95 Million deaths.



In the US alone, AMR infections incur \$55 *Billion* in healthcare costs *each year*.

- That's \$166/year for each American.



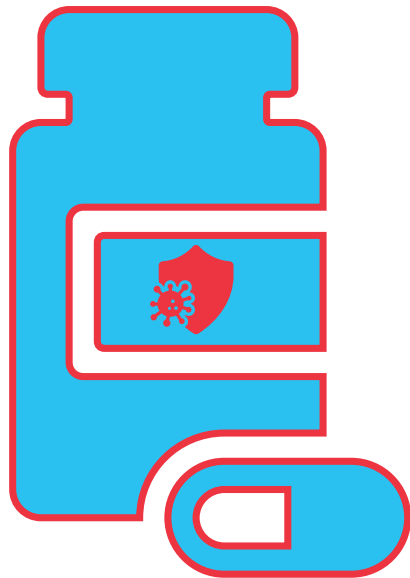
If current trends continue, by 2050 AMR will cause 10 Million deaths/year and economic costs of 1- to 3.4 Trillion USD/year





*“Stop referring to a coming post-antibiotic era—  
**it’s already here.**”*

– CDC, Antimicrobial Resistant Threats Report 2019



*“**Antimicrobial resistance** (AMR) is one of the **top**  
**global public health** and **development threats.**”*

–World Health Organization



# **MDRO Transmission & Prevention**

# ★ Who is at Risk for MDRO Infections?



Older  
Adults, and  
young  
children



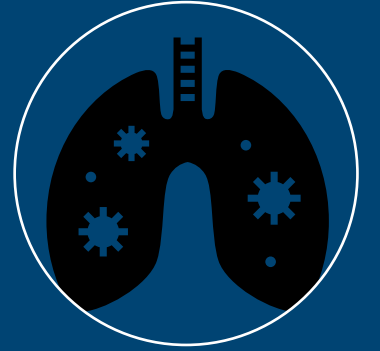
With >1  
chronic  
health  
condition



Stays in  
multiple  
healthcare  
facilities



Indwelling  
devices



Mechanical  
ventilation

LTC Resident Population!

# ★ Prevention and Control of Antimicrobial Resistance

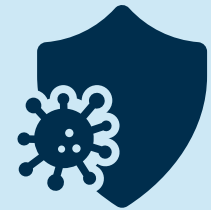
## Antimicrobial Stewardship

- Improves antimicrobial use.
- Prevents & slows the development of antimicrobial resistance.



## Infection Prevention and Control Practices

- Prevents existing antimicrobial resistance from spreading.
- Reduces risk of infections:
  - Reduces Tx costs,
  - Antimicrobial use,



# ★ MDRO Transmission

## MDROs spread by Contact Transmission

- In contact transmission, germs ***hitch a ride*** on something to get around.
  - Unwashed Hands
  - Clothing or linens
  - Equipment: stethoscopes, BP cuffs, lifts, wheelchairs
  - Surfaces: tables, toilets, light switches, beds rails,

When the MDRO reaches someone susceptible, they can then become colonized or infected.

## To prevent transmission, we focus on:

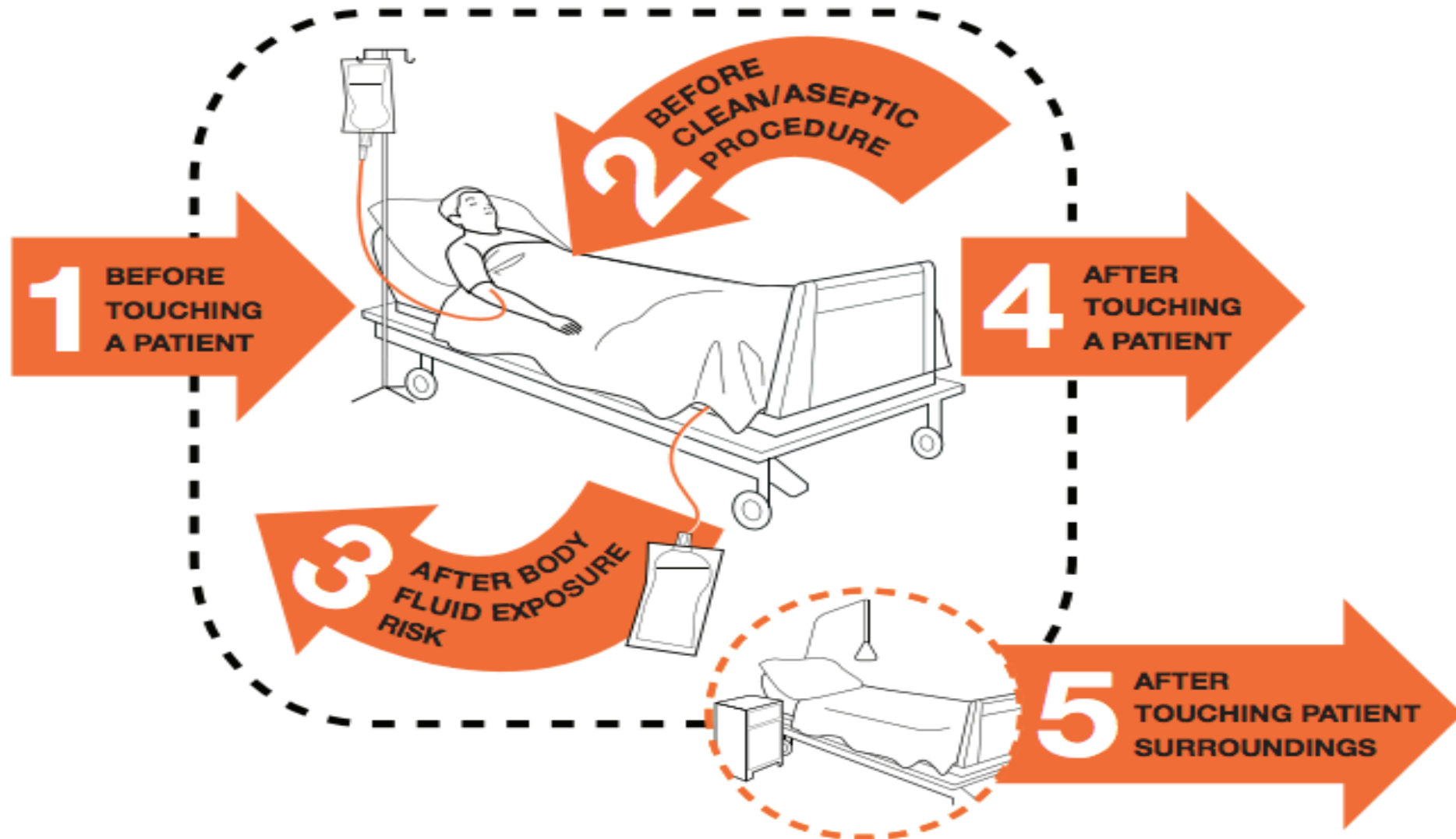
1. Hand hygiene
2. Environmental Cleaning/Disinfecting
3. Transmission Based Precautions/PPE Use



# Hand Hygiene

- Is the **single most important** way to **prevent** the spread of MDROs.
- We use our hands for nearly everything we do, germs that spread by contact *count on that*.
- Most MDROs spread by touch (contact)
  - Our hands can become contaminated when providing care or touching equipment or the environment.
  - If we don't wash our hands, we risk contaminating the environment w/ MDROs or bringing that contamination directly to our next care encounter.

# ★ The 5 Moments of Hand Hygiene





# The 5 Moments of Hand Hygiene Explained

## Before Res/Pt Contact

- So, we don't bring germs **INTO** this encounter from **outside** the room.
  - The last resident
  - Computer
  - Nursing Station

## Before a clean/aseptic procedure

- So that we don't introduce germs during the procedure. From
  - Our hands
  - The pt skin
  - Environment

## After Res/Pt Contact

- So, we don't bring germs **OUT** of the room to
  - The next resident
  - High touch surfaces
  - nursing station
  - Equipment

## After Body fluid exposure

- To prevent contamination of the HCP and healthcare environment by germs.

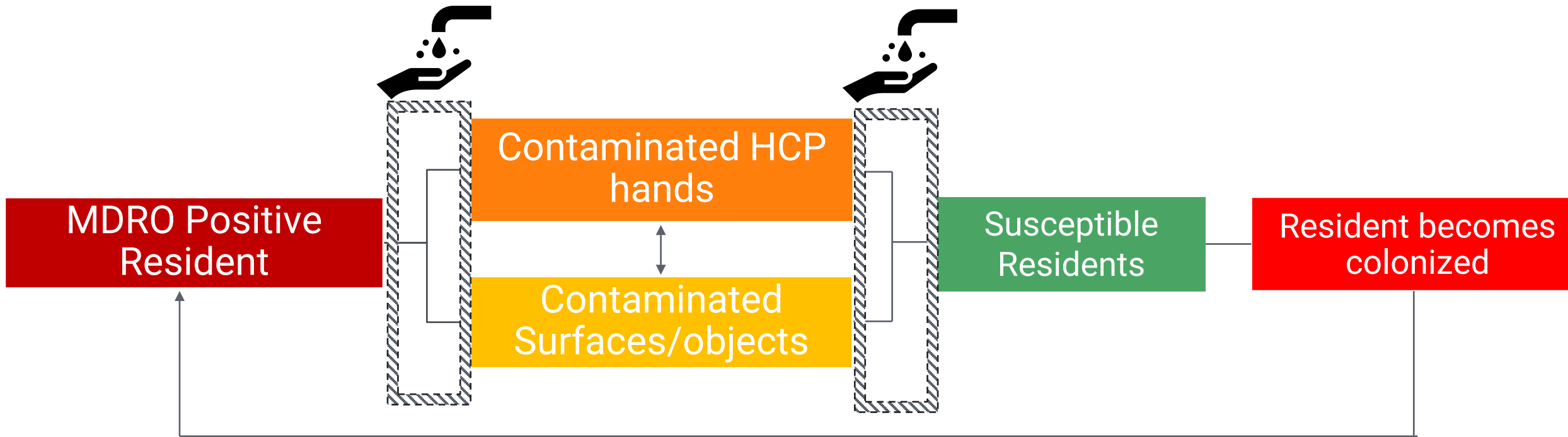
## After touching Res/Pt surrounding

- So, we don't bring germs **OUT** of the room to
  - Other residents
  - Surfaces
  - Equipment

Also Protect HCP



# ★ Hand Hygiene & MDRO Transmission



# ★ Alcohol-Based Hand Sanitizer v. Soap and Water

## Alcohol-Based Hand Sanitizer

- Kills Germs
- **Preferred in most clinical situations.**
- Less drying/damaging to hands
- Faster and easier



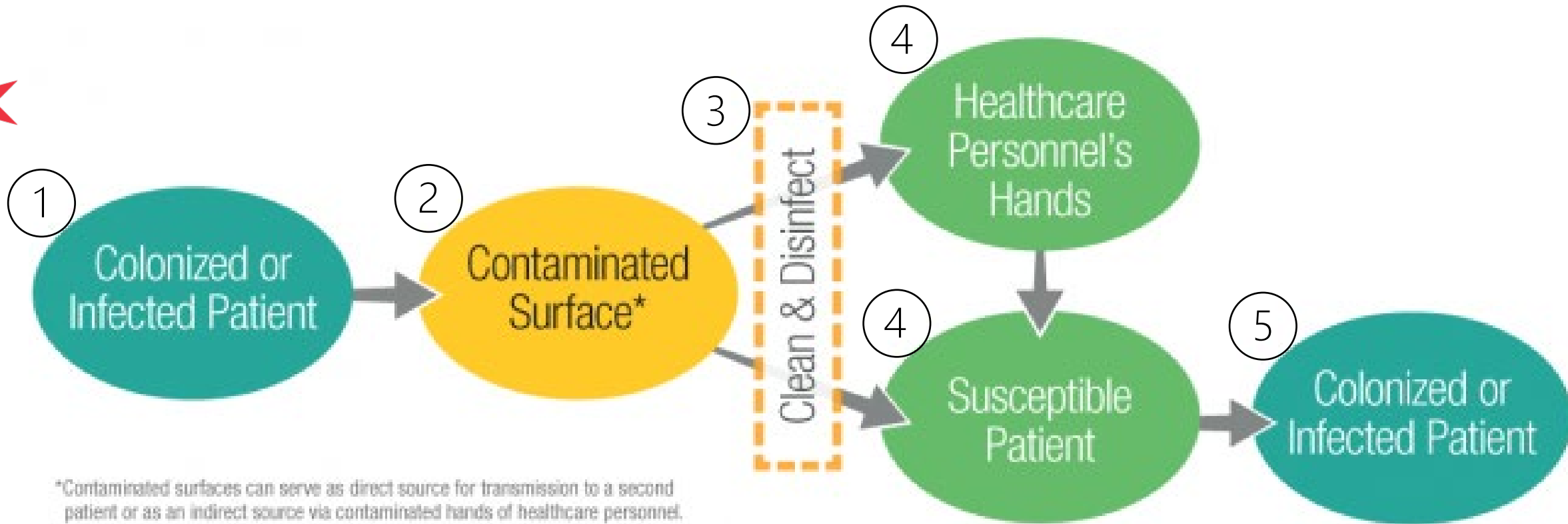
## Soap and Water

- Washes germs/dirt off.
- Preferred when:
  - Hands are visibly soiled.
  - When certain germs are present/suspected
    - *C. diff.*
    - *Norovirus*
  - After the restroom.
  - Before/after eating.



# Cleaning and Disinfection

- In addition to keeping our hands clean, we need to keep the **environment clean**.
  - Otherwise, our equipment and hands are likely to become contaminated regardless.
- High touch surfaces should be cleaned **at least 1x daily**.
- **Contact time** is how long a surface needs to stay **WET** to kill germs.
  - If you have cleaning duties, you need to know the contact time of the cleaning products you use.
- When cleaning an area:
  - Clean from **top → down** and **clean → dirty**!



- Direct care of MDRO colonized/infected res isn't the only source of MDRO contamination on hands.
  - HCP hands and clothing can become contaminated while providing care.

## Contact Precautions

- **When:**
  - Active MDRO infection or Colonization
  - Secretions or excretions that are unable to be controlled.
- **What**
  - Temporary
  - Gown and gloves must be worn by anyone entering the room.
  - Residents remain in their rooms (unless medically necessary)



## Enhanced Barrier Precautions

- **When:**
  1. Colonized or infected with MDROs,
  2. OR with wounds or indwelling devices.
  3. Excretions or secretions that **CAN** be controlled.
- **What:**
  - Long-Term
  - Targeted use of PPE (gown & gloves) during “**high-contact**” care activities.
  - Residents may leave their rooms



# PPE: Enhanced Barrier Precautions

- Enhanced Barrier Precautions require:
  - A gown and gloves during **high-contact** activities:
  - For other activities, gloves and gown are not required (Standard Precautions still apply)
- “**High contact**” care activities include:
  1. Dressing
  2. Bathing/showering
  3. Transferring
  4. Hygiene
  5. Changing linens
  6. Assisting with briefs or toileting
  7. Indwelling device care or access
  8. Wound care



# Summary

- Your residents are at risk for severe illness and death from MDRO infections.
- The spread of MDROs and their antimicrobial resistance is a direct threat to our ability to use drugs to treat infections.
  - This results in: Morbidity, mortality, and economic costs.
- The best ways to prevent MDRO transmission is through high-quality hand hygiene, and environmental cleaning, Contact & Enhanced Barrier Precautions and, appropriate PPE use.



# Questions





# Question:

An HCP always performs hand hygiene when leaving residents' rooms but doesn't always before entering. Does this increase the risk of MDRO transmission?

- A. No, because performing hand hygiene when leaving the room prevents us from bringing germs out of the room.
- B. No, because outside residents' rooms all surfaces are considered "clean".
- C. Yes, because if we touch something in the environment with germs on it before our next care encounter, but don't perform hand hygiene before entering the room, we will then expose residents to those germs.
- D. Yes, but not enough to make hand hygiene worth it.



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- D. Yes, but not enough to make hand hygiene worth it.



# Question

True or False:

When caring for residents with MDROs we can know with certainty that MDROs only exist on surfaces *inside* resident rooms because Hand Hygiene, Transmission-Based and Enhanced Barrier Precautions, and Environmental Cleaning and Disinfection practices ensure containment.



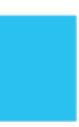
# Question

True or False:

When caring for residents with MDROs we can know with certainty that MDROs only exist on surfaces *inside* resident rooms because Hand Hygiene, Transmission-Based and Enhanced Barrier Precautions, and Environmental Cleaning and Disinfection practices ensure containment.

**FALSE**

These practices are intended to contain MDROs, but 100% containment is impossible without very advanced methods. (Biological Safety Level-4)



## Question:

What is likely **the single most important** practice for preventing infections in healthcare settings?

- A. Environmental cleaning and disinfection
- B. Proper Transmission-Based Precautions (TBP)
- C. Hand Hygiene
- D. Proper PPE use



# Question:

What is likely **the single most important** practice for preventing infections in healthcare settings?

A. Environmental cleaning and disinfection

Environmental cleaning and disinfection reduces germs in the environment, but if staff are carrying germs on their hands directly from patient to patient, it won't be effective.

B. Proper Transmission-Based Precautions (TBP)

TBP, like contact and droplet are special practices added on top of **standard precautions** for certain contagious diseases. However, they won't be effective *without* standard precautions (like hand hygiene)

C. Hand Hygiene

D. Proper PPE use

PPE reduces HCP exposure to germs and reduces the contamination of hands/clothing etc. with germs. However, its not always 100% effective and contamination while doffing is very common. Hand hygiene should *always* be performed before putting on and after taking it off PPE .

**Thank you!**

**Any Questions?**



**[Chicago.gov/Health](https://chicago.gov/Health)**



**[HealthyChicago@cityofchicago.org](mailto:HealthyChicago@cityofchicago.org)**



**[@ChicagoPublicHealth](https://www.facebook.com/ChicagoPublicHealth)**



**[@ChiPublicHealth](https://twitter.com/ChiPublicHealth)**

# ★ Facility Spotlight: Mercy Circle

- Staff places stickers on certain reusable equipment to indicate when and by whom it has been disinfected
- Visual reminders help to increase awareness and compliance







# Upcoming Event: LTC Outbreak Management

- American Association of Post-Acute Care Nursing/APIC webinar on Outbreak Management in Long Term Care, with a focus on norovirus and RSV
- June 26th at 2 p.m.
- Register [here](#)

## Upcoming AAPACN Webinar Presented by APIC

### Outbreak Management in Long-Term Care

Outbreaks may represent a single case of a disease or an increase in the occurrence of a particular illness above what is expected or usual within the long-term care (LTC) facility. Early identification of an outbreak and prompt reporting to public health authorities is essential, in addition to the development of an action plan for response and management. During this 60-minute webinar, Joan N. Hebden, MS, RN, CIC, FAPIC, FSHEA, and Marko Predic, MS, CIC, FAPIC, will provide an overview of the phases of an outbreak investigation and the tasks relevant to each phase in the context of two commonly seen diseases in the LTC setting – respiratory syncytial virus (RSV) and norovirus.

Email your questions now to [webinarquestions@AAPACN.org](mailto:webinarquestions@AAPACN.org) to be answered during the Q&A.

Register



# Upcoming Event: Cook County Infection Prevention and Control Conference

- Free in-person conference covering infection prevention and control in long-term care settings
- June 4<sup>th</sup> 8:30 – 4:30 p.m. @ Triton Community College
- CEUs available
- To register, scan QR code on flyer

**Infection Prevention & Control**  
**CONFERENCE**  
FOR LONG-TERM CARE PROFESSIONALS

June 4, 2025 | 830AM–430PM CST

Triton Community College  
2000 5th Ave. - Bldg. B  
River Grove, IL

**Join us to learn about:**

- Candida Auris in Illinois
- IDPH Web Portal – XDRO registry
- Infection Control Assessment and Response (ICAR)
- Admission Screening Program
- Enhanced Barrier Precautions and Transmission-Based Precautions
- Outbreak Management in Long-Term Care Facilities

**Includes:**

- Catered lunch and breakfast will be provided
- Free parking
- Free IPUs and CEUs

**Presentations by**

- Cook County Department of Public Health
- Illinois Department of Public Health Regional Infection Prevention Program, Division of Patient Safety and Quality
- DuPage County Health Department
- Hektoen Institute of Medicine

**Opening & Closing Remarks by**  
Cook County Department of Public Health

**REGISTER**  
[bit.ly/3Yb3hR5](https://bit.ly/3Yb3hR5)

**Kiran Joshi, MD, MPH**  
Interim Chief Operating Officer

**Demian Christiansen, DSc, MPH**  
Director  
Communicable Disease Prevention & Control

**Cook County** DEPT. of **Public Health**

**BUILDING HEALTHIER COMMUNITIES**

# ★ Upcoming Roundtables

- Switching from monthly to every other month
- Next roundtable will be July 24<sup>th</sup>
- Look out for a new calendar invite for the remaining 2025 roundtables
- If other individuals at your facility want to attend, they can sign up using this [link](#)





# Questions & Answers

For additional resources and upcoming events,  
please visit the CDPH LTCF HAN page at:  
<https://www.chicagohan.org/covid-19/LTCF>