

Healthcare-Associated Infections and Antimicrobial Resistance (HAI-AR) Updates

Adora Harizaj, MPH Epidemiologist

Healthcare-Associated Infections and Antimicrobial Resistance Program

CT Department of Public Health



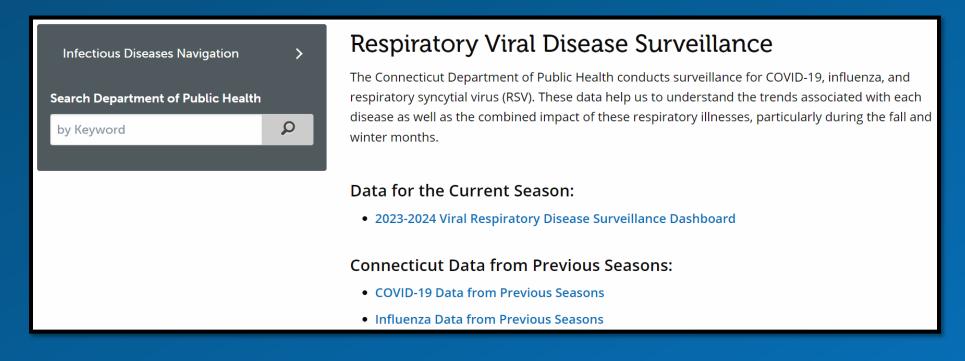
Agenda

- Respiratory Viral Season Surveillance
- Reporting Requirements for CT DPH
- NHSN Reporting Requirements
- Fit Testing Update
- APIC and CT DPH Educational Opportunities
- Multidrug Resistant Organisms Information and Education



CT Respiratory Viral Disease Surveillance

- CT DPH conducts surveillance for COVID-19, influenza, and respiratory syncytial virus (RSV).
- Data will be posted on the <u>CT DPH website</u> and it will be updated weekly from October to May.





Viral respiratory diseases included in this update are influenza, COVID-19, and respiratory syncytial virus (RSV).

Data for the current week are incomplete. All data are preliminary and routinely updated.

Throughout this report the abbreviation "K" is used to denote a number as thousands (e.g. 10K equals 10,000).

Current Week Ending: 2/10/2024

Previous Week Ending: 2/3/2024

Connecticut Department of Public Health



Influenza Case Data Influenza Hospitalizations

Influenza Deaths Influenza Information

Flu Current Week Case Count (Incomplete)

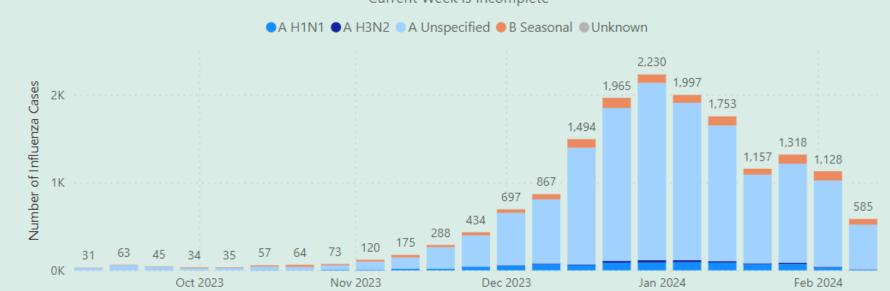
585

Flu Previous Week Case Count

1,128

Number of Influenza Cases by Virus Type by Week

Current Week is Incomplete



Influenza

Viral Respiratory

Disease

Respiratory

COVID-19

Syncytial Virus

Syndromic Surveillance

Nursing Homes



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Connecticut Department of Public Health



RSV Case Data

RSV Hospitalizations

RSV Deaths

RSV Information



Disease

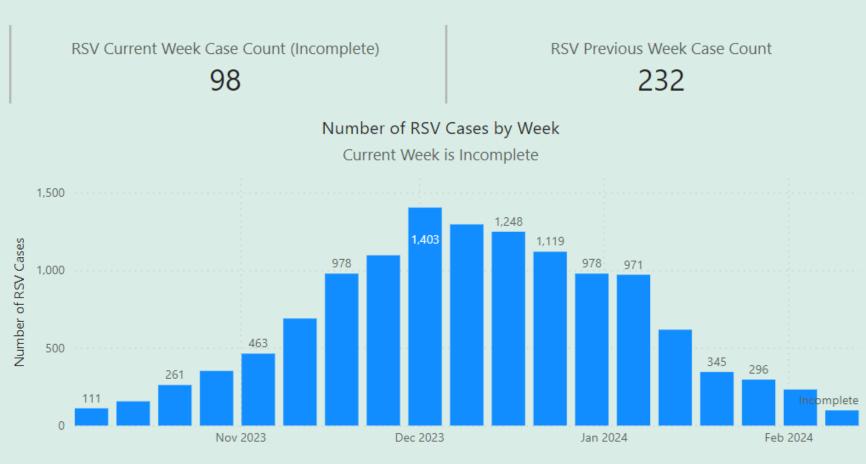
Influenza

Respiratory

COVID-19

Syndromic Surveillance

Nursing Homes





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Connecticut Department of Public Health



COVID-19 Case Data

COVID-19 Hospitalizations COVID-19 Deaths

COVID-19 Information

COVID Current Week Case Count (Incomplete)

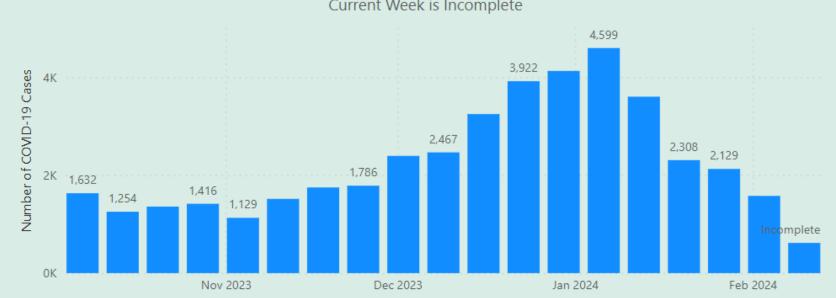
616

COVID Previous Week Case Count

1,578

Number of COVID-19 Cases by Week

Current Week is Incomplete



Influenza Respiratory Syncytial Virus

Viral Respiratory

Disease

COVID-19

Syndromic Surveillance

Nursing Homes



Viral respiratory diseases included in this update are influenza, COVID-19, and respiratory syncytial virus (RSV).

Disease

Influenza

Respiratory

Syncytial Virus

COVID-19

Syndromic Surveillance

Nursing Homes

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2/10/2024

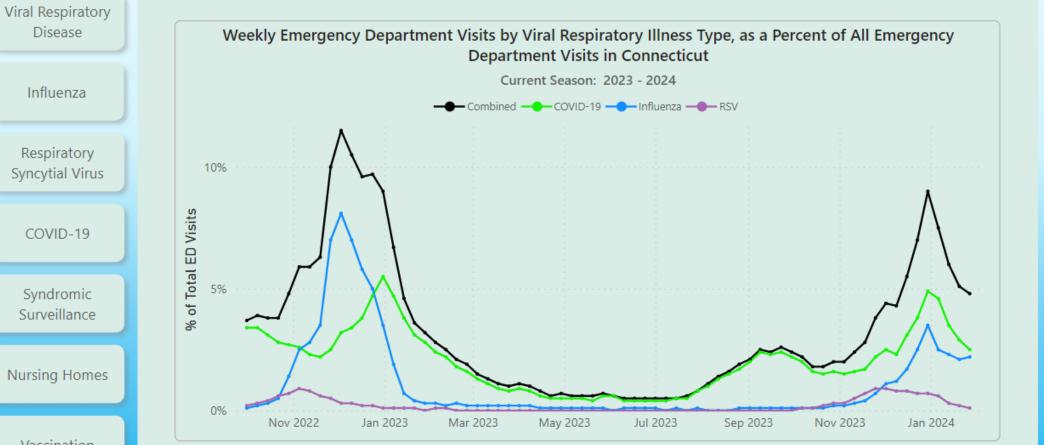
Previous Week Ending: 2/3/2024

Connecticut Department of Public Health



Syndromic Surveillance

Syndromic Surveillance Information



Current Week Ending:



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> Syndromic Surveillance **Nursing Homes**

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Previous Week Ending: 2/3/2024

Connecticut Department of Public Health



Nursing Home Residents

Viral Respiratory

Disease

Influenza

Respiratory

Syncytial Virus

COVID-19

Vaccination

Nursing Home

Staff

Nursing Home Information

COVID-19 Nursing Home Resident Reporting

01/28/2024-02/03/2024

COVID-19 Cases

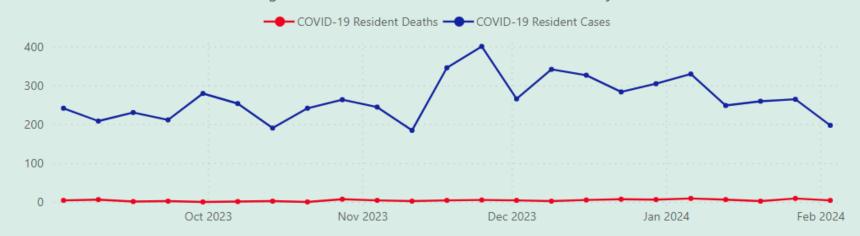
197

COVID-19 Deaths

Facilities Reporting

198

Nursing Home Resident COVID-19 Cases and Deaths by Week





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Previous Week Ending: 2/3/2024

Connecticut Department of Public Health



Nursing Home Residents

Viral Respiratory

Disease

Influenza

Respiratory

Syncytial Virus

COVID-19

Syndromic

Surveillance

Nursing Homes

Vaccination

Nursing Home Staff

Nursing Home Information

COVID-19 Nursing Home Staff Reporting

01/28/2024-02/03/2024

COVID-19 Cases

135

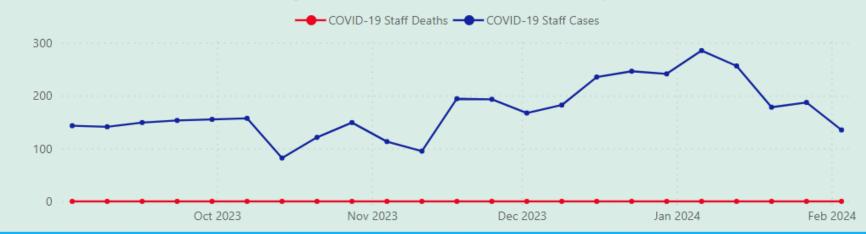
COVID-19 Deaths

0

Facilities Reporting

198

Nursing Home Staff COVID-19 Cases and Deaths by Week





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Connecticut Department of Public Health



COVID-19 Vaccinations

Viral Respiratory

Disease

Influenza

Respiratory

Syncytial Virus

COVID-19

Syndromic

Surveillance

Nursing Homes

Vaccination

RSV Immunization

Influenza Immunization

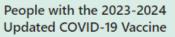
Vaccination Information

As of: 02/03/2024

months and older get the 2023-2024 serious illness. Children and people with moderate to severe immunosuppression might be recommended more than one dose.

Data are updated weekly on Thursday and include doses administered to the end of the previous week (Sunday to Saturday).

see the 'Vaccination Information' tab.

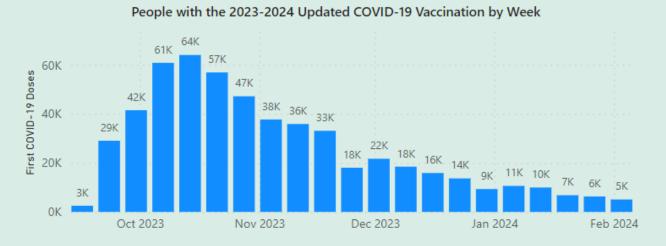


544,453

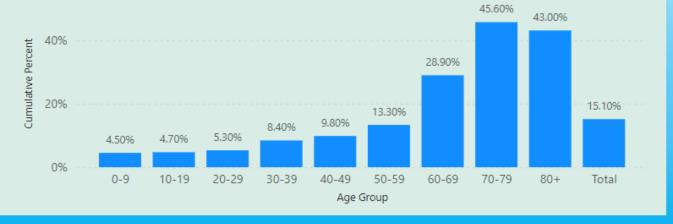
This tab shows data on people with at least one dose of the 2023-2024 updated COVID-19 vaccine as reported to CT WiZ including doses administered since the week ending 9/10/2023.

CDC recommends that everyone ages 6 updated COVID-19 vaccine to protect against

For information on the analysis of these data



Percent of People with the 2023-2024 Updated COVID-19 Vaccination by Age





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Viral Respiratory Disease

Influenza

Respiratory Syncytial Virus

COVID-19

Syndromic Surveillance

Nursing Homes

Vaccination

Connecticut Department of Public Health



COVID-19 Vaccinations RSV Immunization Influenza Immunization Vaccination Information

People with the 2023-2024 Seasonal Influenza Vaccine

As of: 02/03/2024

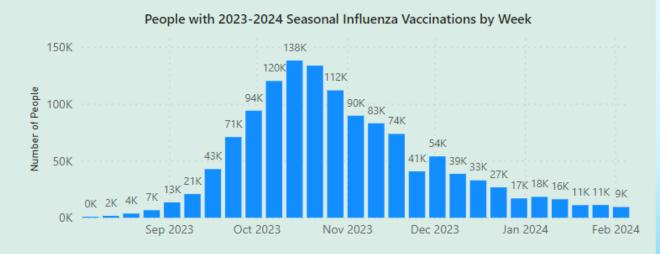
1,278,265

This tab shows data on people who have had a 2023-2024 seasonal influenza vaccination as reported to CT Wiz including doses administered since the week ending 8/5/2023. CDC recommends that all people 6 months of age and older get an annual influenza vaccine*.

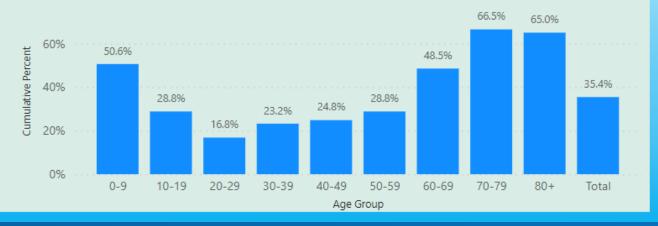
Data are updated weekly on Thursday and include doses administered to the end of the previous week (Sunday to Saturday).

For information on the analysis of these data see the 'Vaccination Information' tab.

*Children 6 months to 8 years who have not previously received at least 2 total doses of influenza vaccine before July 1, 2023, need 2 doses of the 2023-2024 vaccine. In this case, only the first dose is included here.



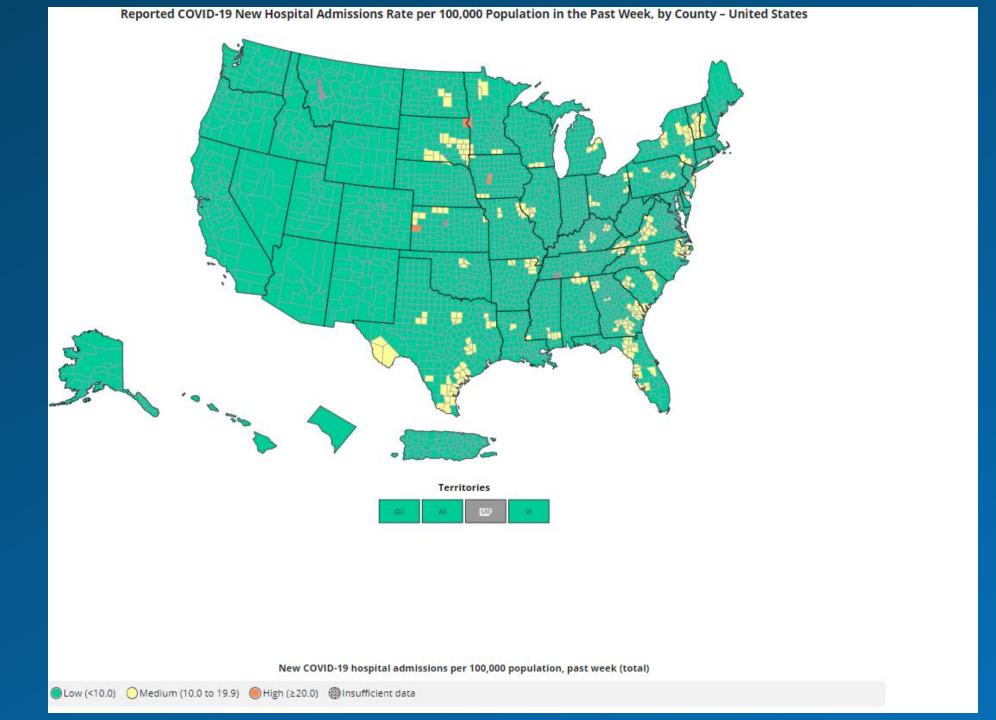
Percent of People with the 2023-2024 Seasonal Influenza Vaccinations by Age



Current Week Ending: 2/10/2024

Previous Week Ending: 2/3/2024



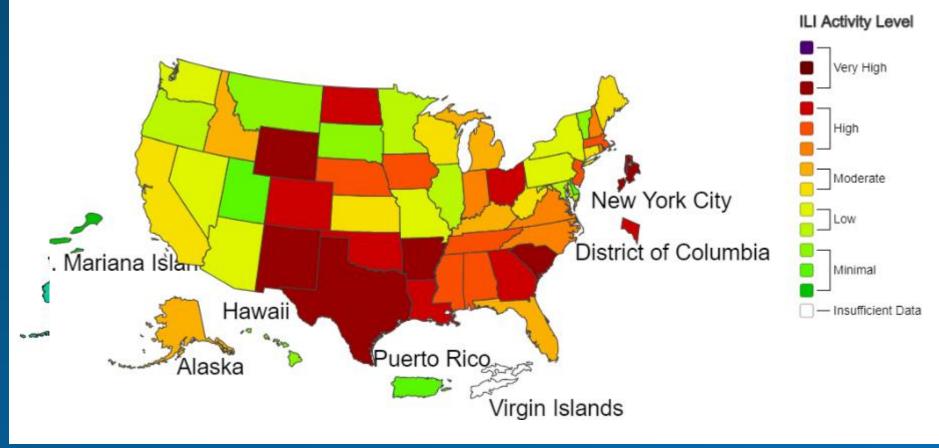


A Weekly Influenza Surveillance Report Prepared by the Influenza Division

Outpatient Respiratory Illness Activity Map Determined by Data Reported to ILINet

This system monitors visits for respiratory illness that includes fever plus a cough or sore throat, also referred to as ILI, not laboratory confirmed influenza and may capture patient visits due to other respiratory pathogens that cause similar symptoms.

2023-24 Influenza Season Week 5 ending Feb 03, 2024



Connecticat Department of Public Health

CDC Respiratory Virus Season Resources

- CDC has published a summary of existing infection control measures to help prevent and slow the spread of <u>flu</u>, <u>RSV</u>, and <u>COVID-19</u> to protect patients and healthcare personnel. Preparing and responding to respiratory viruses requires a comprehensive approach that includes infection prevention, testing, vaccination, and treatment.
 - Preventing Transmission of Viral Respiratory Pathogens in Healthcare Settings Summary of existing infection control measures that should be implemented into standard procedures to prevent the spread of all viral respiratory infections in healthcare settings.
 - <u>Viral Respiratory Pathogens Toolkit</u>— Summary of recommendations for long-term care facilities to **PREPARE** for respiratory virus season, to **RESPOND** when a resident or healthcare provider develops signs and symptoms of a respiratory infection, and to **CONTROL** transmission when spread has been identified in a facility.



Basic Infection Control Practices During Respiratory Virus Season

- Prepare for Respiratory viruses (Influenza, RSV, SARS-CoV-2)
 - Vaccinate: educate and if possible, provide recommended vaccines to residents and HCP.
 - Increase availability of resources: alcohol- based hand sanitizers, masks for people who want to use them.
 - Monitor: Be aware when levels of respiratory virus spread are increasing in the community. When community levels are high, consider broader use of source control
 - Educate: ensure everyone is aware of IPC practices. Simple passive education method is to post signage encouraging people to stay home when sick and to practice good hand hygiene
 - Ventilate: In consultation with facilities/environment staff, explore options to improve ventilation and indoor air quality
 - Test and treat: Develop plans to provide rapid clinical evaluation and intervention to ensure that residents receive treatment/prophylaxis



- Respond when a resident or HCP develops signs or symptoms of a respiratory viral infection
 - Residents: educate residents to stay in their apartments until symptoms resolve
 - HCP who enter the resident's apartment should adhere to Standard Precautions. Different respiratory viruses have different precautions requirements
 - Test anyone with respiratory illness signs or symptoms
 - Provide recommended treatment and prophylaxis
 - Investigate for potential respiratory virus spread among resident and HCP



- Control respiratory virus spread when transmission is identified
 - Continue active surveillance to identify other with respiratory illness and manage people who are exposed and infected
 - Consider implementing universal source control on affected areas or facility-wide
 - Consider limiting activities and communal dining when outbreak increases
 - Contact local or state public health department about additional interventions
 - Reinforce and if possible, offer vaccination

PD-23 | Reportable Disease Case Report Form

Instructions:

- 1. This form is for general disease reporting and should be used unless a specialized reporting form is indicated. Diseases with specialized reporting forms are asterisked (*) in the disease lists below and links to the forms are available in the lower center column.
- 2. Fax completed PD-23 forms to (860) 629-6962 or Hospital IPs can enter directly into CTEDSS (when applicable). 3. Copies must also be sent to the Director of Health of the city or town where the patient resides and kept in the

4. A fillable PD-23 and contact information for all Connecticut Health Directors are available on the DPH website.



2024 REPORTABLE DISEASES, EMERGENCY ILLNESSES, AND HEALTH CONDITIONS

Category 1 Diseases 🔘 🗐

- 1. Report by phone on the day of diagnosis or suspicion. (860) 509-7994 Business hours: Evenings, weekends, holidays: (860) 509-8000
- 2. Complete and submit a PD-23 within 12 hours.
- Acute HIV Infection* 1, 2
- Anthray
- Botulism
- Brucellosis
- Cholera Diphtheria
- Measles
- Melioidosis
- · Meningococcal disease
- Outbreaks
- foodborne (involving > 2 persons)
- institutional
- unusual disease or illness³ Plague
- Poliomyeliti O fever
- Rabies
- · Ricin poisoning
- · Severe Acute Respiratory Syndrome (SARS)
- · Staphylococcal enterotoxin B pulmonary poisoning
- Staphylococcus aureus disease, reduced or resistant susceptibility to vancomycin 1
- Syphilis, congenital* Tuberculosis¹
- Tularemia
- · Venezuelan equine encephalitis virus infection
- Viral hemorrhagic fever
- Yellow fever

Footnotes

- 1. Report only to DPH.
- 2. As described in the CDC case definition.
- 3. Individual cases of "significant unusual illness" are also
- 4. Report COVID-19 cases only when a diagnostic test was performed on-site in a healthcare facility (provider's office. urgent care clinic, long-term care facility, etc.).
- 5. Invasive disease: from sterile fluid (blood, CSF, pericardial pleural peritoneal joint or vitreous) hope internal body sites, or other normally sterile site, including muscle
- 6. Report HAIs according to current CMS pay-for-reporting or nay-for-performance requirements. Detailed instructions on the types of HAIs, facility types and locations and methods of reporting are available on the DPH website. 7. On request from the DPH and if adequate serum is available.
- send serum from patients with HUS to the State Public Health Laboratory for antibody testing 8. Clinical sepsis and blood or CSF isolate obtained from an
- infant <3 days of age 9. Community-acquired: infection present on admission to hospital, and person has no previous hospitalizations or regular contact with the health-care setting.

Category 2 Diseases

- 1. Complete and submit a PD-23 within 12 hours.
- 2. A Hospital IP entering a case in CTEDSS (when applicable) satisfies the reporting requirement.
- · Acquired Immunodeficiency Syndrome (AIDS)* 1, 2
- Acute flaccid myelitis
- Anaplasmosis Babesiosis
- · Borrelia miyamotoi disease
- · California group arbovirus infection
- Campylobacteriosis
- · Candida auris
- Chancroid
- Chickenpox (Varicella)*
- · Chickenpox-related death* Chikungunya
- . Chlamydia (C. trachomatis) (all sites)*
- COVID-19 (SARS-CoV-2 infection) 4
- COVID-19 death
- · COVID-19 hospitalization Cronobacter
- Cryptosporidiosis
- Cyclosporiasis Dengue
- · E-cigarette or vaping product use associated lung injury (EVALI)*
- Eastern equine encephalitis virus infection Salmonellosis
- Ehrlichia chaffeensis infection
- Escherichia coli O157:H7 infection
- Escherichia coli, invasive in infants <1 year of age 5
- Gonorrhea*
- Group A Streptococcal disease, invasive 5 Group B Streptococcal disease, invasive 5
- Haemophilus influenzae disease, invasive 5
- · Hansen's disease (Leprosy) Healthcare-associated infections 6
- Hemolytic-uremic syndrome 7
- Henatitis A Henatitis B
- acute infection ²
- HBsAg positive pregnant women
- Hepatitis C acute infection 2
- perinatal infection positive rapid antibody test result

Specialized Reporting Forms Contact DPH Infectious Disease Programs

HIV-1/HIV-2 infection* 1, 2

· Influenza-associated death

or their equivalent 1

Mercury poisoning

children (MIS-C)

· Occupational asthma*

Powassan virus infection

associated death

(gasternenteritis)

Shigellosis

Silicosis

Syphilis*

Tetanus

Trichinosis

· Typhoid fever

Vaccinia disease

V. vulnificus, others)

· Zika virus infection

· West Nile virus infection

Neonatal bacterial sepsis 8

Pneumococcal disease, invasive 5

· Respiratory Syncytial Virus (RSV)

RSV-associated hospitalization

· Rocky Mountain spotted fever

Rubella (including congenital)

Shiga toxin-related diseases

· St. Louis encephalitis virus infection

· Vibrio infection (V. parahaemolyticus,

Staphylococcus aureus methicillin-resistant

disease, invasive, community acquired 5, 9

Staphylococcus epidermidis disease, reduced

or resistant susceptibility to vancomycin 1

Legionellosis

Listeriosis

Malaria

Mumps

Pertussis

HPV: biopsy proven CIN 2, CIN 3, or AIS

· Influenza-associated hospitalization

Multisystem inflammatory syndrome in

leport Type	Fax to:	Program
Chickenpox (Varicella) Report	(860) 707-1905	Epidemiology & Emerging In
HIV Case Report Form	(860) 509-8237	Healthcare Associated Infec
Occupational Diseases Report	(860) 730-8424	HIV/HCV Surveillance Progr
exually Transmitted Diseases	(860) 730-8380	Immunization Program
uberculosis Report Form	(860) 730-8271	STD Control Program
/aping Lung Injury Case Report	(860) 706-1262	<u>Tuberculosis Control Progra</u>

(860) 509-7994 (860) 509-7995 (860) 509-7900 (860) 509-7929 (860) 509-7920 (860) 509-7722

CT DPH Reporting Requirements

In accordance with Connecticut General Statutes, diseases on the lists of reportable diseases, emergency illnesses and health conditions, and laboratory reportable significant findings are required to be reported to <u>DPH</u> and the <u>Local Health Department</u> of the town in which the patient resides.

- Outbreaks
 - foodborne (involving ≥ 2 persons)
 - institutional
 - unusual disease or illness³
 - unusual disease or illness





SNF Reporting Requirements to CT DPH

- Facilities are only required to report outbreaks that initiated in their facility
- An outbreak is defined as a sudden rise in the number of cases of a disease
- The reporting criteria mentioned in this document are broad and each facility should work as a team (IP, DNS, and medical director) to identify if an outbreak is truly occurring







Reportable Event	Facility Licensing and Investigations Section (FLIS) Reporting Requirement	Infectious Disease (ID) Epidemiology Reporting Requirement	Local Health Department (LHD) Reporting Requirement
COVID-19	 Report via <u>DPH FLIS Events</u> portal 1 confirmed case of COVID-19 (staff or resident) 	 Report to Epidemiology via <u>DPH FLIS Events</u> 1 confirmed case of COVID-19 (staff or resident) 	 Please contact your <u>LHD</u> to inquire regarding their outbreak reporting requirements.
GI outbreaks	 Report via <u>DPH FLIS Events</u> portal Facilities should report GI outbreaks when there is an increase in cases above the expected baseline for your facility. Depending on your facility's census this can mean 2 or more cases.² 	 Report to Epidemiology via phone (860-509-7994) Facilities should report GI outbreaks when there is an increase in cases above the expected baseline for your facility. Depending on your facility's census this can mean 2 or more cases.² 	 Please contact your <u>LHD</u> to inquire regarding their outbreak reporting requirements.
Legionella reporting	 Report via <u>DPH FLIS Events</u> portal 1 or more case of presumptive healthcare-associated³ Legionnaires' disease at any time 2 or more cases of possible healthcare-associated⁴ Legionnaires' disease within 12 months of each other 	 Report to Epidemiology via phone (860-509-7994) 1 or more case of presumptive healthcare-associated³ Legionnaires' disease at any time 2 or more cases of possible healthcare-associated⁴ Legionnaires' disease within 12 months of each other 	 Please contact your <u>LHD</u> to inquire regarding their outbreak reporting requirements.
Respiratory (including Influenza) outbreaks	 Report via <u>DPH FLIS Events</u> portal 1 confirmed case of Flu (staff or resident) Other respiratory diseases (<u>e.g.</u> RSV) should be reported when there is an increase in cases above the expected baseline for your facility. Depending on your facility's census this can mean 2 or more cases.² 	 Report to Epidemiology via phone (860-509-7994) 1 confirmed case of Flu (staff or resident) Other respiratory diseases (e.g. RSV) should be reported when there is an increase in cases above the expected baseline for your facility. Depending on your facility's census this can mean 2 or more cases.² 	 Please contact your <u>LHD</u> to inquire regarding their outbreak reporting requirements.
ТВ	 Report via <u>DPH FLIS Events</u> portal. TB disease is reportable immediately on recognition by healthcare provider. Latent TB infection is not reportable. 	 Report to Tuberculosis Control Program via phone (860-509-7722). TB disease is reportable immediately on recognition by healthcare provider. Latent TB infection is not reportable. 	 Please contact your <u>LHD</u> to inquire regarding their outbreak reporting requirements.
Other	Report via <u>DPH FLIS Events</u> portal All institutional outbreaks of any infectious disease are Category 1 reportable conditions. Facilities should report institutional outbreaks when there is an increase in cases above the expected baseline for your facility.	 Report to Epidemiology via phone (860-509-7994) All institutional outbreaks of any infectious disease are Category 1 reportable conditions. Facilities should report institutional outbreaks when there is an increase in cases above the expected baseline for your facility. 	 Please contact your <u>LHD</u> to inquire regarding their outbreak reporting requirements.

COVID-19 and Flu Reporting on NHSN

- CMS-certified skilled nursing facilities need to report COVID-19 information on a weekly basis using NHSN.
 - There are two modules: LTCF COVID-19 Module Surveillance Pathways and the COVID-19 Vaccination Module
 - This requirement was extended through a final rule and is set to end on December 31, 2024.



- CMS-certified skilled nursing facilities are required to report annual HCP influenza vaccination summary data through the <u>NHSN Healthcare</u>
 <u>Personnel Safety (HPS) Component</u> for 2023-2024 influenza season by <u>May 15, 2024.</u>
 - Facilities are required to submit one report covering the entire influenza season
 - The reporting period for the 2023-2024 influenza season is from October 1, 2023 through March 31,2024
- For questions about CMS requirements please contact CMS at: SNFQualityQuestions@cms.hhs.gov





Fit Testing Services Still Available Until May 10, 2024

- For the past 2 years, The Connecticut Department of Public Health (CT DPH) has provided fit testing services to skilled nursing facilities.
- These fit testing services offer your facility's staff free certified N95 fit testing and respirator education.
- CT DPH has contracted two vendors to provide these services. Depending on your county, your facility will be contacted by either Safety Fit, Inc or OccuMed/EquipNet.
 - Only nursing homes are eligible
 - Scheduling fit testing with this service is not mandatory, facilities may choose to schedule their own fit testing services
 - Occumed: (877)399-1698 (select OccuMed when you reach the directory)
 - Safety Fit Inc: <u>tina.kahrimanis@n95safetyfit.com</u>
 - For additional questions: (860)509-7995 or dph.haiar@ct.gov

OccuMed/EquipNet	Safety Fit, Inc
New London	Fairfield
Tolland	Hartford
Windham	Litchfield
	Middlesex
	New Haven



DPH-APIC: 2024 Courses Available

- CT DPH is partnering with the Association for Professionals in Infection Control and Epidemiology (APIC) to offer 2 Courses in 2024:
 - LTC Infection Preventionist Essentials Course (3 additional courses)
 - LTC-CIP Certification Prep Course
- Training registrants will receive a FREE annual national APIC membership and local CT Chapter membership. If you already have a membership, it will be extended by 1 year.

LTC Infection Preventionist Essentials Course

- This intensive, foundational course provides healthcare professionals with training and competency-building needed to manage the unique challenges of infection prevention and control (IPC) in long-term care settings.
- Designed for novices or those gaining proficiency in infection control, the Long-Term Care Infection
 Preventionist Essentials course tailors baseline knowledge of IPC to meeting challenges specific to the LTC
 practice setting.
- It includes the topics Centers for Medicare and Medicaid Services (CMS) requires and grounds the novice IP in the role and practice of being an effective infection preventionist, including creating and managing successful IPC programs and mitigating risk at your facility.
- Topics covered in this course include The Role of the IP, Federal and State Regulations and the Mega Rule,
 Managing an IPC Program, Monitoring the Health of the Community, PPE and Precautions, Introduction to
 NHSN, COVID-19 Basics, Basic Microbiology, Antimicrobial Stewardship, Influenza and Vaccination, and much
 more!
- https://apic.org/course/long-term-care-infection-preventionist-essentials-training/





DPH-APIC: LTC Infection Preventionist Essentials Course

- Available sessions:
 - March 26-28, 2024: https://secure.apic.org/web/apic/Events/Event_Display.aspx?EventKey=2
 4LTEMACT5
 https://secure.apic.org/web/apic/Events/Events/Event_Display.aspx?EventKey=2
 https://secure.apic.org/web/apic/Events/Events/Event_Display.aspx?EventKey=2
 https://secure.apic.org/web/apic/Events/Events/Event_Display.aspx?EventKey=2
 <a href="https://secure.apic.org/web/apic/Events/E
 - April 3-5, 2024: <u>https://secure.apic.org/web/apic/Events/Event_Display.aspx?EventKey=24LTEAPCT6</u>
 - April 30-May 1, 2024: https://secure.apic.org/web/Staff/EventDashboard?EventKey=24LTEMAC

DPH-APIC: LTC-CIP Certification Prep Course

- The LTC-CIP provides a standardized measure of the basic knowledge, skills and abilities expected of professionals working in the field.
- The LTC-CIP is offered worldwide. The exam is an objective, multiple-choice examination consisting of 150 questions. 135 of these questions are used to compute the score.
- This comprehensive, virtual workshop includes guidance and support from certified instructors and access to the APIC Learning System for LTC-CIP.
- The course will build upon the foundation you have already established through your studies, guiding you through interactive discussions and activities as well as sample test questions.
- With online reading materials and study tools found in the APIC Learning System, you will be able to identify your areas of strength and build on them, while pinpointing areas where you need further study in preparation for the exam.
- https://apic.org/course/ltc-cip-certification-preparation-course/





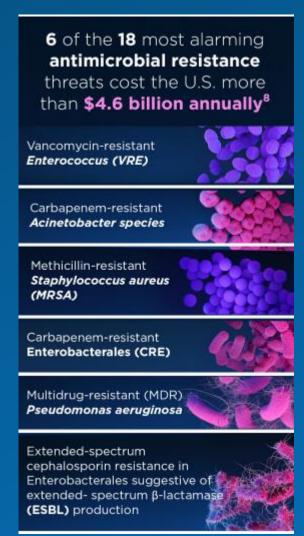
DPH-APIC: LTC-CIP Certification Prep Course

- Available sessions:
 - March 12-14, 2024: https://secure.apic.org/web/apic/Events/Event_Display.aspx?EventKey=2
 4LTCMACT2
 https://secure.apic.org/web/apic/Events/Events/Event_Display.aspx?EventKey=2
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What is a multidrug resistant organism?

- A multidrug resistant organism (MDRO) is a germ that is resistant to many antibiotics. If a germ is resistant to an antibiotic, it means that certain treatments will not work or may be less effective.
- MDROs can be difficult to treat since many antibiotics won't work to treat them.
 - Examples of MDROs include:
 - Methicillin resistant Staphylococcus aureus (MRSA)
 - •Resistant *Acinetobacter*
- These germs can cause illnesses, including:
 - Urinary tract infections
 - Pneumonia
 - Blood infections
 - Wound infections





MDRO Landscape

- Antimicrobial resistance was one of our greatest public health concerns prior to the COVID-19 pandemic, and it remains so.
- As of 2019 that more than 3 million Americans acquire an antimicrobial-resistant infection or Clostridioides difficile infection (often associated with taking antimicrobials) each year. Nearly 50,000 people die from these threats.
- A January 2022 report shows antimicrobial resistance is a leading cause of death globally, with the highest burden in low-resource countries.

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COVID-19 Pandemic and the rise of MDROs

- The COVID-19 pandemic has contributed to the rise in cases of MDROs:
 - Overuse of antibiotics: In the early stages of the pandemic, there was a significant increase in the use of antibiotics to treat COVID-19 patients, despite the fact that antibiotics are ineffective against viral infections like COVID-19. This overuse of antibiotics can lead to the development of antibiotic resistance in bacteria.
 - <u>Increased hospitalizations</u>: COVID-19 patients often require hospitalization, which can lead to prolonged stays and increased exposure to healthcare-associated infections, including MDROs.
 - Stress on healthcare systems: The pandemic has put immense stress on healthcare systems worldwide, leading to overcrowded hospitals, overwhelmed staff, and lapses in infection control practices. These conditions can facilitate the spread of MDROs within healthcare facilities.
 - Changes in infection control practices: In response to the pandemic, healthcare facilities implemented various infection control measures such as personal protective equipment (PPE) use, isolation protocols, and changes in visitor policies. While these measures were crucial for preventing the spread of COVID-19, they may have inadvertently disrupted routine infection control practices aimed at preventing MDRO transmission.
 - **Disruption of public health efforts**: The focus on combating COVID-19 may have diverted attention and resources away from ongoing efforts to address antibiotic resistance and MDROs, leading to gaps in surveillance, prevention, and control measures.

Antimicrobial Resistance, Special Report 2022

COVID-19 Impacts on

18 Antimicrobial-Resistant Bacteria and Fungi Threat Estimates

The following table summarizes the latest national death and infection estimates for 18 antimicrobial-resistant bacteria and fungi. The pathogens are listed in three categories—urgent, serious, and concerning—based on level of concern to human health identified in 2019.

	Resistant Pathogen	2017 Threat Estimate	2018 Threat Estimate	2019 Threat Estimate	2017-2019 Change	2020 Threat Estimate and 2019-2020 Change	
	Carbapenem-resistant Acinetobacter	8,500 cases 700 deaths	6,300 cases 500 deaths	6,000 cases 500 deaths	Stable*	7,500 cases 700 deaths Overall: 35% increase* Hospital-onset: 78% increase*	
	Antifungal-resistant Candida auris	171 clinical cases [†]	329 clinical cases	466 clinical cases	Increase	754 cases Overall: 60% increase	
URGENT	Clostridioides difficile	223,900 infections 12,800 deaths	221,200 infections 12,600 deaths	202,600 infections 11,500 deaths	Decrease	Data delayed due to COVID-19 pandemic	
URG	Carbapenem-resistant Enterobacterales	13,100 cases 1,100 deaths	10,300 cases 900 deaths	11,900 cases 1,000 deaths	Decrease*	12,700 cases 1,100 deaths Overall: Stable* Hospital-onset: 35% increase*	
	Drug-resistant Neisseria gonorrhoeae	550,000 infections	804,000 infections	942,000 infections	Increase	Data unavailable due to COVID-19 pandemic	
SERIOUS	Drug-resistant Campylobacter	448,400 infections 70 deaths	630,810 infections	725,210 infections	Increase	Data delayed due to COVID-19 pandemic‡ 26% of infections were resistant, a 10% decrease	
	Antifungal-resistant Candida	34,800 cases 1,700 deaths	27,000 cases 1,300 deaths	26,600 cases 1,300 deaths	Decrease*	28,100 cases 1,400 deaths Overall: 12% increase* Hospital-onset: 26% increase*	
	ESBL-producing Enterobacterales	197,400 cases 9,100 deaths	174,100 cases 8,100 deaths	194,400 cases 9,000 deaths	Increase*	197,500 cases 9,300 deaths Overall: 10% increase* Hospital-onset: 32% increase*	
	Vancomycin-resistant Enterococcus	54,500 cases 5,400 deaths	46,800 cases 4,700 deaths	47,000 cases 4,700 deaths	Stable*	50,300 cases 5,000 deaths Overall: 16% increase* Hospital-onset: 14% increase*	

COVID-19: U.S. Impact on

Antimicrobial Resistan

Special Report 2022

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	Resistant Pathogen	2017 Threat Estimate	2018 Threat Estimate	2019 Threat Estimate	2017-2019 Change	2020 Threat Estimate and 2019-2020 Change	
	Multidrug-resistant Pseudomonas aeruginosa	32,600 cases 2,700 deaths	29,500 cases 2,500 deaths	28,200 cases 2,400 deaths	Decrease*	28,800 cases 2,500 deaths Overall: Stable* Hospital-onset: 32% increase*	
	Drug-resistant nontyphoidal Salmonella	212,500 infections 70 deaths	228,290 infections	254,810 infections	Increase	Data delayed due to COVID-19 pandemic‡ 14% of infections were resistant, a 3% decrease	
	Drug-resistant Salmonella serotype Typhi	4,100 infections <5 deaths	4,640 infections	6,130 infections	Increase	Data delayed due to COVID-19 pandemic‡ 85% of infections were resistant, a 10% increase	
ERIOUS	Drug-resistant Shigella	77,000 infections <5 deaths	215,850 infections	242,020 infections	Increase	Data delayed due to COVID-19 pandemic‡ 46% of infections were resistant, a 2% increase	
SEI	Methicillin-resistant Staphylococcus aureus	323,700 cases 10,600 deaths	298,700 cases 10,000 deaths	306,600 cases 10,200 deaths	Stable*	279,300 cases 9,800 deaths Overall: Stable* Hospital-onset: 13% increase*	
	Drug-resistant Streptococcus pneumoniae	12,100 invasive infections 1,500 deaths†	See pathogen page if comparing data over time	12,000 invasive infections 1,200 deaths	Stable	Data delayed due to COVID-19 pandemic	
ı	Drug-resistant Tuberculosis (TB)	888 cases 73 deaths†	962 cases 102 deaths	919 cases	Stable	661 cases Decrease‡	
CONCERNING	Erythromycin-resistant group A Streptococcus	5,400 infections 450 deaths†	See pathogen page if comparing data over time	6,200 infections 560 deaths	Increase	Data delayed due to COVID-19 pandemic	
CONCE	Clindamycin-resistant group B Streptococcus	13,000 infections 720 deaths†	See pathogen page if comparing data over time	15,300 cases 940 deaths	Increase	Data delayed due to COVID-19 pandemic	

See the Data Methods section for definitions of each pathogen.

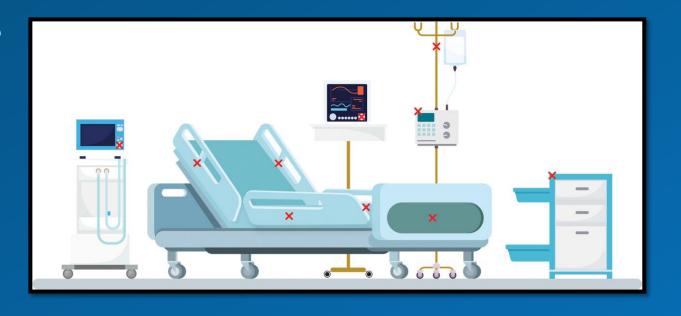
[†]CDC's database allows for continuous updates for TB, *C. auris*, and *Streptococcus*. Variations in historical TB data are attributable to updated information submitted in the interim by reporting areas; this report includes data reported through June 14, 2021. For *Streptococcus*, table reflects infection increase for 2017 data as of October 2021. For *C. auris*, this report reflects clinical case increase for 2018 data.

*Changes are in rates, not comparisons of counts. Data for healthcare pathogens show a significant increase in hospital-onset rates of resistant infections in 2020, likely due to smaller number of overall hospitalizations during the pandemic.

‡For TB, 2019 and 2020 death reports are not available due to a 2-year lag. For enteric pathogens, 2018-2020 death estimates and 2020 estimates of total number of resistant infections are not available at this time.

How are MDROs spread?

- Most MDRO infections are spread by direct contact with an infected person's bodily fluids, such as blood, drainage from a wound, urine, bowel movements (stool), or sputum (phlegm).
- They can also be spread by contact with equipment or surfaces that may have the germ on them.
- Casual contact, such as touching or hugging, does not spread MDROs.



Who is at Risk?

Patients

With severe underlying medical conditions and weakened immune systems

Who require frequent complex medical care

With invasive medical devices like breathing tubes, feeding tubes, catheters in a vein, or urinary catheters



Colonization vs. Infection

Patients can be COLONIZED with MDROs.

Patients can be INFECTED with MDROs.

Patients who are COLONIZED with MDRO can develop infection



What is COLONIZATION?

A person has the organism somewhere on their body but has no symptoms from infection with this organism

Colonization can only be detected by screening

required
colonization
no specific intervention is
known to reduce or
eliminate colonization

Patients COLONIZED with these MDROs usually remain colonized for a long period of time

There are currently no recommendations to retest patients for evidence of colonization



MDRO Burden in Nursing Homes

Facility Type	Documented MDRO	Actual MDRO		
Nursing Homes (n = 14)	17%	58% ††††††††		
Ventilator-Capable Nursing Homes (n = 4)	20% •••••••••••••••••••••••••••••••••••	76%		
McKinnell JA et al, Clin Infect Dis. 2019; 69(9):1566-1573				

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- EBP are indicated for nursing home residents with any of the following:
 - Infection or colonization with an MDRO when Contact Precautions do not otherwise apply
 - Wounds and/or indwelling medical devices
- EBP is not limited to outbreaks or specific MDROs
 - Use of gown and gloves during high-contact resident care activities
 - No private room required
 - Residents can participate in group activities
 - •Intended to be used for resident's entire length of stay





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.



Connecticut Department of Public Health

Table: Summary of Personal Protective Equipment (PPE) Use and Room Restriction When Caring for Residents in Nursing Homes:

Precautions Applies to		PPE used for these situations	Required PPE	Room restriction
Standard Precautions	All residents	Any potential exposure to: Blood Body fluids Mucous membranes Non-intact skin Potentially contaminated environmental surfaces or equipment	Depending on anticipated exposure: gloves, gown, facemask or eye protection (Change PPE before caring for another resident)	None
Enhanced Barrier Precautions	All residents with any of the following: Infection or colonization with an MDRO when Contact Precautions do not otherwise apply Wounds and/or indwelling medical devices (e.g., central line, urinary catheter, feeding tube, tracheostomy/ventilator) regardless of MDRO colonization status	During high-contact resident care activities:	Gloves and gown prior to the high-contact care activity (Change PPE before caring for another resident) (Face protection may also be needed if performing activity with risk of splash or spray)	None

Table: Summary of Personal Protective Equipment (PPE) Use and Room Restriction When Caring for Residents in Nursing Homes:

Precautions	Applies to	PPE used for these situations	Required PPE	Room restriction
Contact Precautions	All residents infected or colonized with a MDRO in any of the following situations: • Presence of acute diarrhea, draining wounds or other sites of secretions or excretions that are unable to be covered or contained • For a limited time period, as determined in consultation with public health authorities, on units or in facilities during the investigation of a suspected or confirmed MDRO outbreak • When otherwise directed by public health authorities All residents who have another infection (e.g., C. difficile, norovirus, scabies) or condition for which Contact Precautions is recommended in Appendix A (Type and Duration of Precautions Recommended for Selected Infections and Conditions) of the CDC Guideline for Isolation Precautions.	Any room entry	Gloves and gown (Don before room entry, doff before room exit; change before caring for another resident) (Face protection may also be needed if performing activity with risk of splash or spray)	Yes, except for medically necessary care

Decisions regarding the use of additional practices to prevent the spread of MDROs can be determined in conjunction with public health. These strategies might differ depending on the prevalence or incidence of the MDRO in the facility and region.



Successful EBP Implementation:



Hand Hygiene



Environmental Cleaning and Disinfection



Enhanced Barrier Precautions



Auditing



Communication

Key Goals from HAI-AR

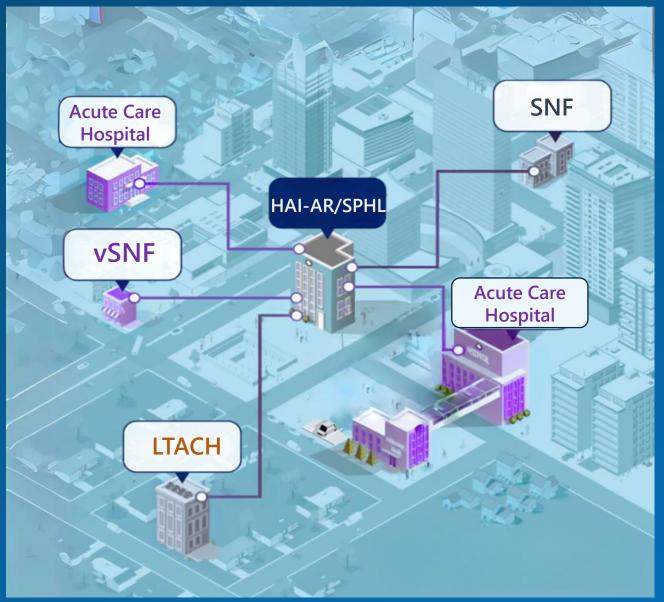
Contain the spread of *novel MDRO* through rapid identification, investigation and response

Improve preparedness throughout the healthcare continuum

Promote the efficient <u>and</u> effective flow of information between facilities to improve patient safety upon transfer

Ensure safe, equitable, access to quality healthcare for all CT residents regardless of colonization status

Preserve healthcare capacity by ensuring appropriate patient flow



Responsibilities

HAI-AR Program

Provider Education

Education of providers & facility leadership

Infection Control Guidance

Communication of best practices, implementation strategy

Data Analysis/ Outbreak Response Navigation

Targeted, data-driven recommendations to address facility-specific outbreak response



SPHL

Species Confirmation

Definitive identification of clinical isolates

Colonization Screening

Screening of healthcare contacts, patients at elevated risk, monitoring of outbreak response

Susceptibility Testing

Testing to identify antimicrobial susceptibility of the MDRO's

Connection Department of Public Health

Resources:

- 2022 Special Report: COVID-19 US Impact on Antimicrobial Resistance
- Implementation of Personal PPE Use in Nursing Homes to Prevent Spread of Multidrug-resistant Organisms (MDROs)
- Consideration for the Use of Enhanced Barrier Precautions in Skilled Nursing Facilities
- Guideline for Isolation Precautions
- Core Infection Prevention and Control Practices for Safe Healthcare Delivery in all settings
- <u>Appendix A—Type and Duration of Precautions Recommended for Selected Infections and Conditions</u>
- Enhanced Barrier Precautions (EBP)—Pocket Guide(cdc.gov)

Questions?

Contact information Adora.Harizaj@ct.gov DPH.HAIAR@ct.gov or call 860-509-7994