# TN NHSN User Call

### from the Tennessee Department of Health



Monday April 21, 2025

# Agenda

- Respiratory Illness Update

   Ashley Gambrell, MPH
- NHSN Update
  - Vicky Lindsey, RN, CIC
- Annual Report Update
  - Ashley Gambrell, MPH, CPM
- Tennessee-Wide Infection Control Education (Twice)
  - Kate Moore, MSN, RN, CIC

- Dialysis Simulation-Memphis
  - Joshua Key, RN
  - Screening for Patient Healthcare-Associated Infections (HAI) Module 2
    - Priscilla Pineda, MPH, CPH



### **TDH NHSN Team**

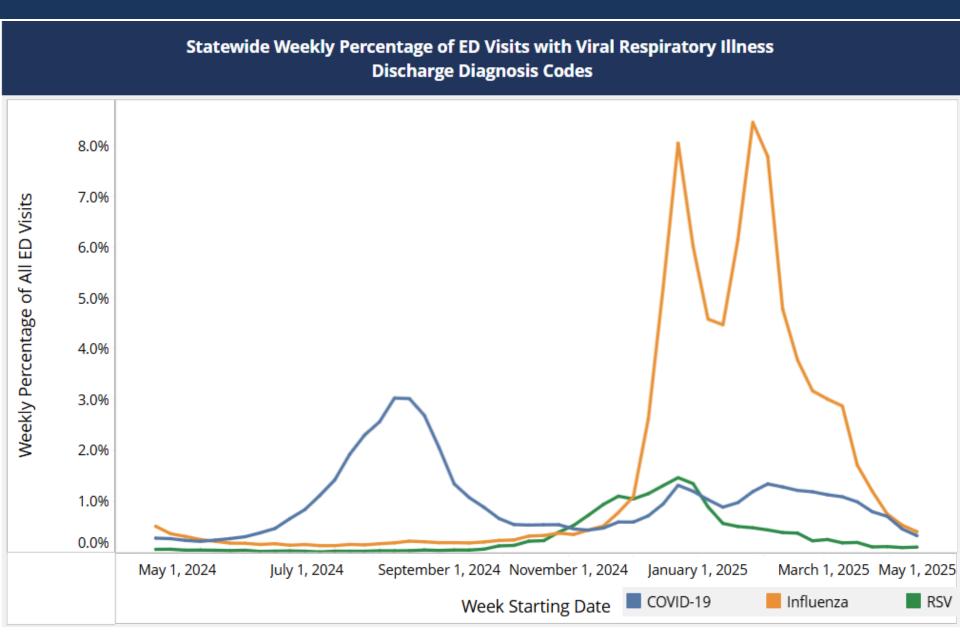
- Ashley Gambrell, MPH
  - Senior NHSN Epidemiologist
- Vicky Lindsey, AAS, RN, CIC
  - Senior NHSN Public Health Nurse Consultant
    - Lead Technological Assistance
  - Infection Prevention and Control Specialist
- Marissa Turner, MPH
  - Assistant NHSN Epidemiologist
- Alex Kurutz, MPH
  - Dialysis Epidemiologist
- Jordan Morris, MPH
  - Assistant NHSN Epidemiologist



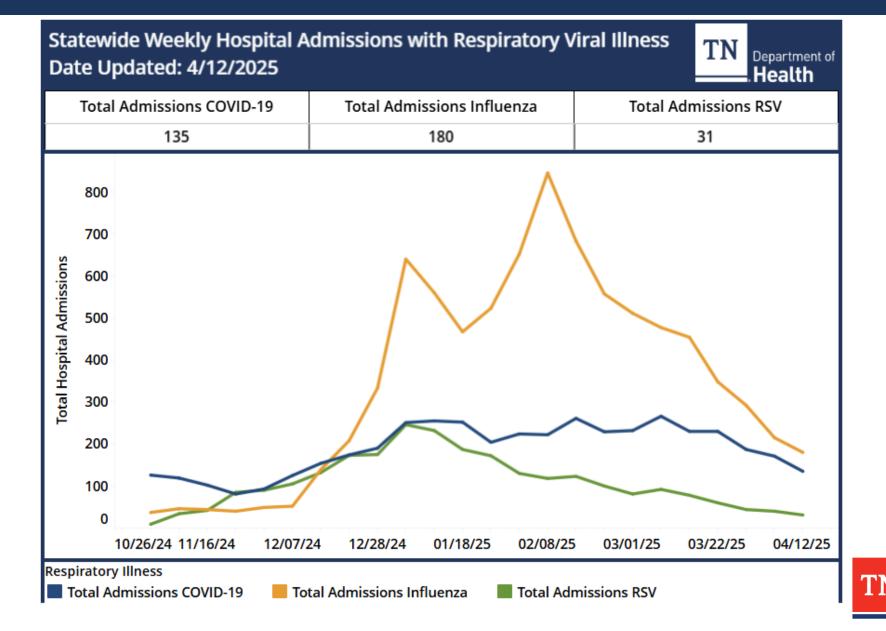
Respiratory Illness Update



### Syndromic Surveillance of ED Visits



### **Statewide Weekly Hospital Admissions**



### Overall respiratory illness activity in Tennessee

Very Low

### Emergency department visits in **Tennessee**

COVID-19	Flu	RSV		
Very Low	Low	Low		
Decreasing 🛰	Decreasing 🛰	Decreasing 🛰		

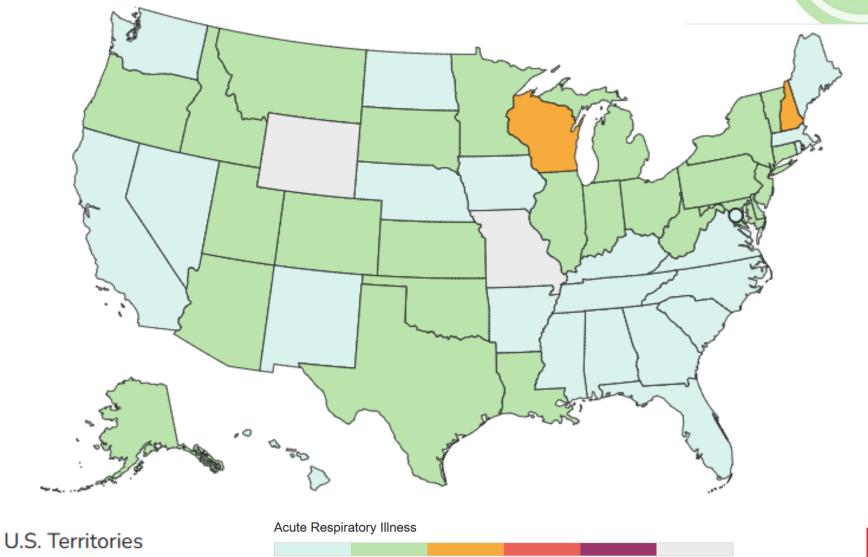


### **Bottom Line**

Nationally, Respiratory

Illness causing people to seek healthcare is

LOW





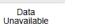


Minimal

Moderate

High





Data



# NHSN Updates

Vicky Lindsey, RN, CIC | Tennessee Department of Health | Communicable and Environmental Diseases and Emergency Preparedness

TN

## NHSN – Dialysis

- CMS revised the End-Stage Renal Disease (ESRD) statement of work in September 2024.
  - The revisions included removal of reporting requirements to NHSN for monthly patient COVID-19 vaccination and monthly healthcare personnel (HCP) influenza vaccination data reporting.
- The reporting of HCP COVID-19 Vaccination, as required by the CMS End-Stage Renal Disease Quality Incentive Program (ESRD QIP), remains in place and is <u>not</u> affected by the ESRD statement of work.
  - Facilities participating in ESRD-QIP must report COVID-19 vaccination data among HCP monthly (one week per month; facilities can select any week to report).



## NHSN – Dialysis

- This data is due according to the ESRD-QIP deadlines, which are approximately 3 months after the last week of a reporting quarter.
- Data for the reporting period for Q1 2025 (January-March 2025) are due by June 30, 2025.
- All NHSN data submission deadlines for calendar year 2025 can be found here: <u>NHSN Submission Deadlines for Calendar</u> <u>Year 2025 ESRD QIP Data | My CROWN Web</u>.
- Additionally, NHSN still supports the voluntary submission of dialysis patient COVID-19 vaccination and HCP influenza vaccination reporting.



### NHSN – Dialysis- Up to date Definition

- The Up to Date definition for Q1 2025 should be used beginning with the first reporting week in 2025 (December 30, 2024-January 5, 2025, for HCP or January 1-January 7, 2025, for patients).
- Beginning the first week of reporting for Q1 2025 (December 30, 2024 March 30, 2025), individuals aged 65 years and older are Up to Date when they have received 2 doses of the 2024-2025 COVID-19 vaccine or received 1 dose of the 2024-2025 COVID-19 vaccine in the past 6 months.
- There is no change to the Up to Date definition for individuals younger than 65 years. Therefore, individuals younger than 65 years are Up to Date when they have received 1 dose of the 2024-2025 COVID-19 vaccine (any time since it was approved in August 2024).



## NHSN – Reporting Deadline CMS QRP –Q4

- May 15, 2025, Q4 Data
  - Acute Care Hospitals,
  - Cancer Hospitals,
  - Inpatient Rehabilitation Facilities,
  - Long-term Acute Care Facilities (Long-term Care Hospitals),
  - Skilled Nursing Facilities,
  - Inpatient Psychiatric Facilities,
  - Ambulatory Surgery Centers
- Healthcare Personnel Influenza Vaccination
  - Q4 & Q1 data



## **Annual Report Announcements**

- We are working on the Annual Report for this year!
  - Will include 2023 and 2024 data
  - Will include facility specific pages

- New Format
  - Previously:
    - Release Statewide Report and Facility-Specific Tables together
  - Now:
    - Would like to Release Preliminary Facility-Specific Tables in June 2025
      - Dependent on participation from you!
    - Will follow up with Statewide Report in late summer 2025
- We need your help!



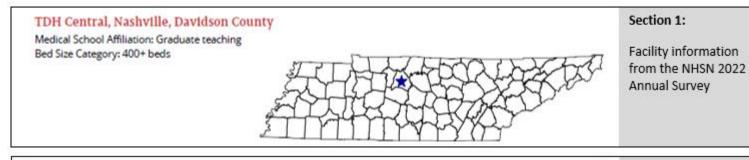
# Facility Tasks: Data Confirmation

- By the end of April, facilities will receive an email requesting they view and approve their preliminary data
  - If data is correct, please reply as a confirmation
    - End of tasks
  - If data is incorrect, please reply with incorrect data details, and we will work with you to get the data corrected in NHSN for subsequent final report

• Facilities will have one month to view and confirm their data for the release of the final report



# Facility-specific Pages General Section



#### Healthcare-Associated Infections (HAI) Summary Standardized Infection Ratio (SIR) by Infection Type, 01/01/2014-12/31/2014

HAI	Type/Unit	Infections			Standardized Infection Ratio (SIR)		
		Observed	Predicted	Device Days/Procedures Performed/Patient Days	SIR*	95% CI	TN SIR
CLABSI	Adult/Pediatric ICU	6	7.0	5007	0.85	(0.34, 1.76)	0.46
	Neonatal ICU	1	10.3	4471	0.10	(0.01, 0.48)	0.34
CAUTI	Adult/Pediatric ICU	10	4.8	2139	2.05	(1.04, 3.66)	1.22
SSI	Colon surgery	3	9.5	272	0.31	(0.08, 0.86)	0.91
	Abdominal hysterectomy	5	2.5	404	1.93	(0.71, 4.28)	0.80
LabID	MRSA bacteremia	11	18.6	191987	0.59	(0.31, 1.03)	1.02
	C. difficile infection	113	154.1	165536	0.73	(0.61, 0.88)	0.78

#### Section 2:

Facility-Specific Standardized Infection Ratios (SIRs) by HAI from January – December 2022

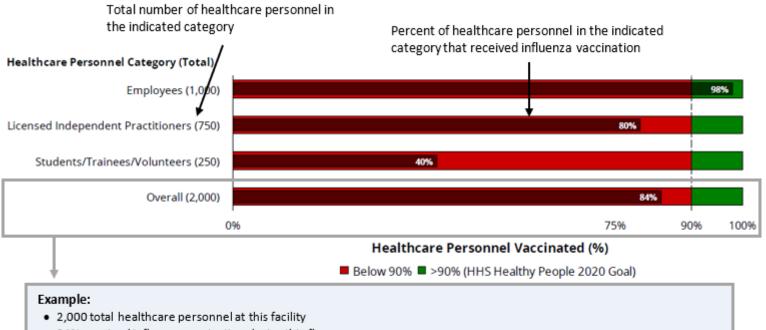
Green highlighting indicates an SIR significantly LOWER than the national baseline (CLABSI, SSI - 2006-2008; CAUTI - 2009; LabID - 2010-2011) Red highlighting indicates an SIR significantly HIGHER than the national baseline (CLABSI, SSI - 2006-2008; CAUTI - 2009; LabID - 2010-2011) N/A: Data not shown for <50 device days or <20 procedures / SIR not calculated when <1 infection predicted

\*Complex Admission/Readmission SIRs are presented for surgical site infections (SSI)

See page 2 for more detailed information about HAIs at TDH Central



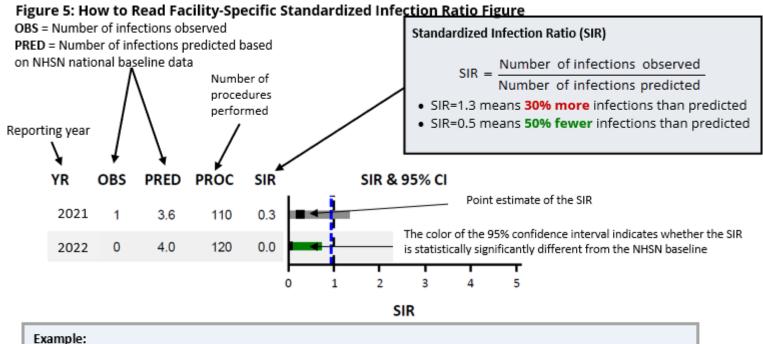
# How to Read Facility Influenza Vaccinations



- 84% received influenza vaccination during this flu season
- Did not reach Healthy People 2020 Goal (90%)



# How to Read Facility-specific SIRs



#### In 2021, this facility:

- Performed 110 procedures (PROC)
- Observed 1 infections (OBS)
- Based on NHSN national baseline data, 3.6 infections were predicted (PRED)

#### This Facility's Standardized Infection Ratio (SIR)

- Not statistically significantly different from the NHSN SIR of 1
- SIR=0.3 (1 observed infections/3.6 predicted infections)
- 70% fewer infections than predicted



### Our Asks to You

By May 30, 2025:

- 1. Please review your facility data
- 2. Please reply to original data-containing email to confirm:
  - 1. Data is correct and no further actions are needed, OR
  - 2. Data is NOT correct, further actions will be needed to fix within NHSN



# Measles TNHAN

Ashley Gambrell, MPH | Tennessee Department of Health | Communicable and Environmental Diseases and Emergency Preparedness

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### Measles

- With increased reports of measles across the United States, the Tennessee Department of Health urges clinicians to identify, isolate, and inform regarding suspected measles cases. Immediately report cases to TDH at 615-741-7247.
  - Suspect measles in unvaccinated patients with fever and rash, especially with travel history.
  - Isolate suspected cases immediately and use airborne precautions.
  - Contact TDH before specimen collection; testing available with prior approval.
  - Thank you for protecting public health.

TN Health Alert Network (TNHAN) Archive

TN

# Tennessee-Wide Infection Control Education (TWICE)

Kate Moore, MSN, RN, CIC | Tennessee Department of Health | Communicable and Environmental Diseases and Emergency Preparedness

# **Tennessee-Wide Infection Control Education**

- May 1, 2025
- 8:30 am
- Humboldt Medical Center
- 6.75 Contact Hours
- FREE program
- Light breakfast and lunch provided
- Questions?
  - Kate.moore@tn.gov
- TWICE May 1, 2025

# TWICE



#### Tennessee-Wide Infection Control Education

\*Approved for 6.75 contact hours

Designed to deliver evidence-based infection prevention and control education to Healthcare Facilities across the state.

**Topics include:** 

About the Program:

- Infection Prevention and Control Program Planning
- Transmission-Based Precautions
- Injection Safety
- Laboratory Specimen Collection
- Antibiotic Stewardship
- Environmental Services (EVS) Practices

### Join us for a dynamic learning experience that combines face-to-face instruction with hands-on practice!







Joshua Key, RN | Tennessee Department of Health | Communicable and Environmental Diseases and Emergency Preparedness

# Dialysis Simulation

- Tuesday, April 29th
- UC Bluff Room at the University of Memphis 499 University Street Memphis, TN 38152
- 8:30am to 4:00pm
  - Light breakfast and lunch provided
- Scan QR code to register!





The entire program is FREE + 7.25 CEUs offered + lunch provided!

### Hemodialysis Infection Prevention Simulation

\*Get 7.25 CEUs at no cost!

#### About the Simulation:

The purpose of this project is to provide CDC guidance on infection prevention covering topics such as CVC, AVF/AVG, environmental disinfection, patient safety, and MORE! Each session will have a classroom style presentation and hands on simulation experiences! Scan here to register!

#### **Details for Attendees:**

- <u>Audience</u>; Hemodialysis Nurses, Technicians, and Infection Preventionists
- Date: Tuesday, April 29th, 2025
- Location: UC Bluff Room at the University of Memphis
   499 University Street
   Memphis, TN 38152
- <u>Time:</u> 8:30 am 4:00 pm, light breakfast, snacks and lunch provided

For more information email: HAI.Health@tn.gov





## Screening for Resistant Healthcare-Associated Infections Learning Series

Colonization Screening for Multidrug-Resistant Organisms in Healthcare Facilities

## **APHL Learning Series**

**Module 1:** Overview and Importance of Screening for Multidrug-Resistant Organisms, or MDROs

**Module 2:** Carbapenemase-producing Organisms Colonization Screening

Module 3: Candida auris Colonization Screening

**Module 4:** Packaging and Shipping for Colonization Screening

### For full modules:

https://www.aphl.org/programs/infectious\_disease/Pages/Colonization\_Screening\_for\_Healthcare\_Facilities.aspx



### Module 2





# Carbapenemase-Producing Organisms (CPOs) Colonization Screening

Screening for Resistant Healthcare-Associated Infections



## Learning Objectives



DEFINE

What carbapenemaseproducing organisms (CPOs) are and why they are a public health concern.



### EXPLAIN

The various logistical considerations that are involved in conducting screenings.



### DISCUSS

The test methods used and the possible results obtained in CPO screening.



### DESCRIBE

Where to find additional resources to help with prevention and containment strategies for <u>MDROS</u>.



## What is a CPO?

Carbapenemase-Producing Organisms (CPO)

- Multidrug-resistant
- Contain carbapenemase genes that breakdown carbapenem antibiotics

'The Big Five'

- KPC
- NDM
- VIM
- IMP
- OXA-48-like





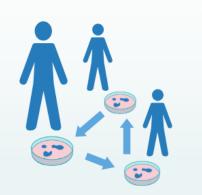




### Why are CPOs a Major Concern?



CPOs are multidrug-resistant organisms, meaning that it is resistant to multiple antibiotics commonly used to treat infections.



Patients can be asymptomatically colonized, which can progress to invasive infections.



CPOs can spread rapidly in healthcare facilities and can cause large and difficult to control outbreaks.



### Coordination and Communication with Public Health







Discuss Process and Develop Plan Resources to Support Screening Timing



### **Communication** with the Patient





### SCREENING PROCESS

### SPECIMEN COLLECTION PROCESS



### Order Specimen Collection and Shipping Supplies

- Supplies are provided through the AR Lab Network
- Request supplies through HAI/AR Epidemiologist at State Health Department
- Quantity of supplies is decided during the planning stages of screening
- Order tests through the ARLN Lab Web Portal
  - Advanced registration
  - Training



# **Collection Day: Supplies**

Wear proper Personal Protective Equipment (PPE)







• Specimen Collection



• Packaging and shipping



# **Collection Day: Specimen Collection**

### **CRE and CRPA Colonization Screening**

Requires a rectal swab

CRAB

- Multiple collection sites possible
  - Axilla/groin
  - Rectal
  - Wound
  - Tracheal tube/sputum



## Submitting Test Requisition Forms

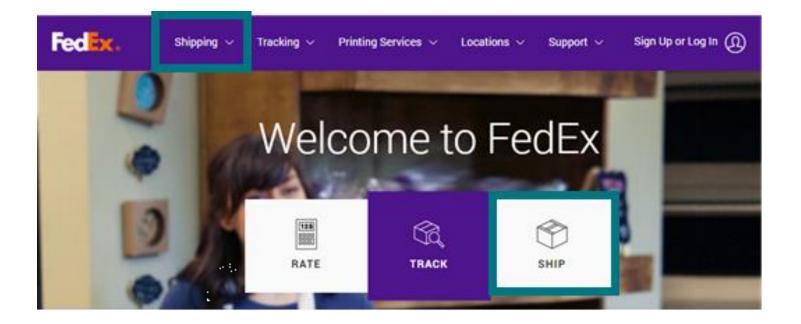
Specimen tube MUST be clearly labeled with:

- Patient's full name
- Date of birth
- Date of specimen collection (мм/DD/ YYYY)
- Time of specimen collection
- Specimen Source
- Initials of person collecting the swab





## **Specimen Collection: Shipping Specimens**





### **CPO Test Method**

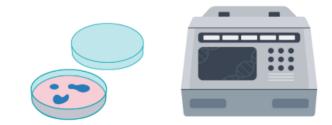
### Detection of <u>common</u> <u>carbapenemases</u>

PCR test

### Detection of OXA <u>carbapenemases</u> in <u>CRAB</u>

- May vary by testing laboratory
- Culture-based and PCR tests







### **CPO Screening Results**

# $\mathbf{ + }$

### Positive Result (of any kind)

Indicates the patient is colonized with a <u>CPO</u>

- PCR result alone
- PCR and culture result
- Culture result alone

Θ

### **Negative Result**

- No evidence of colonization found during the test
- There is still a chance the patient may be colonized
- Should not be used as tests of cure



### Next Steps



# If screening identifies colonized patients:

Ensure appropriate infection control measures are in place

HAI/AR epidemiologist will help determining next steps



## Next steps depend on many factors including:

Which patients are positive and their location in the facility

Which MDRO was identified

The patient's level of care

The purpose for the screening



## **Containment Strategy**

- If you have a positive CPO result, it is important to implement a containment strategy
- Facility representatives and HAI/AR epidemiologists should work together to address next steps



### Summary

- CPOs are multidrug-resistant organisms which can spread rapidly and cause large and difficult to control outbreaks in healthcare facilities
- Patients should be screened to limit the transmission of CPOs in healthcare facilities
- The HAI/AR epidemiologist is available to assist with:
  - Coordinating schedules for screening
  - Providing resources
  - Interpreting results
- Proper specimen collection, labeling and packaging is crucial for receiving timely and accurate results
- CDC Interim Guidance for a Public Health Response to Contain Novel or Targeted Multidrug-Resistant Organisms(MDROs) describes recommendations to be taken during the investigation







## Carbapenemase-Producing Organisms (CPOs) Colonization Screening

### Screening for Resistant Healthcare-Associated Infections

Thank you for your participation!

<u>Screening for Resistant Healthcare-Associated Infections (HAI): Colonization</u> <u>Screening for Healthcare Facilities - APHL Learning Center</u>





### **APHL Learning Series**

**Module 1:** Overview and Importance of Screening for Multidrug-Resistant Organisms, or MDROs

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## Questions? <u>Priscilla.Pineda@tn.gov</u> <u>ARLN.Health@tn.gov</u>

### References

 Association of Public Health Laboratories. (2024). Overview and Importance of Screening for Multidrug-Resistant Organisms, or MDROs [slideshow]. Carbapenemase-Producing Organisms (CPOs) Colonization Screening



### Next NHSN User Call

- Monday May 19 , 2025
   10am CT / 11am ET
- NHSN Related
  - <u>Vicky.Lindsey@tn.gov</u>
  - <u>Ashley.Gambrell@tn.gov</u>
- AU/AR Module
  - <u>Christopher.Evans@tn.gov</u>
- Infection Prevention
  - <u>HAI.Health@tn.gov</u>

