

# What is the Scoop? All Things Data for the NHSN LTC Component - How data is used, dashboards, where data goes

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# **NHSN overview**

#### What is the National Healthcare Safety Network (NHSN)?

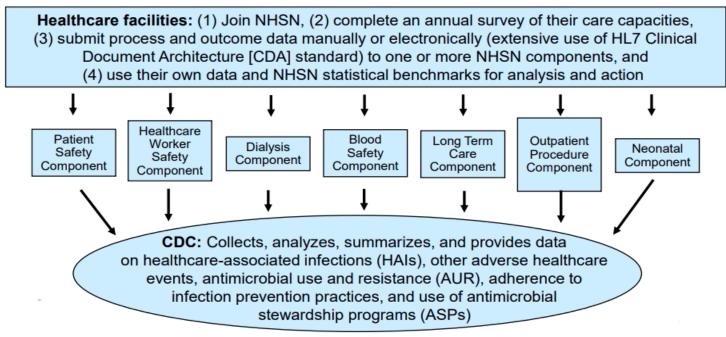
• A secure, internet-based system for monitoring healthcare-associated adverse events and practices



- Participating healthcare facilities use the NHSN web application to enter, analyze, and share data
- Data entry can be manual by users in the healthcare facility or electronic via file submission or uploads
- NHSN fulfills CMS and state requirements for HAI-AR reporting, and CMS nursing home COVID-19 reporting requirements

#### What is the National Healthcare Safety Network (NHSN)?

#### CDC's National Healthcare Safety Network (NHSN) – A Healthcare Surveillance System



# Long-term Care Facilities (LTCF) Component

# **Modules of the LTCF Component**

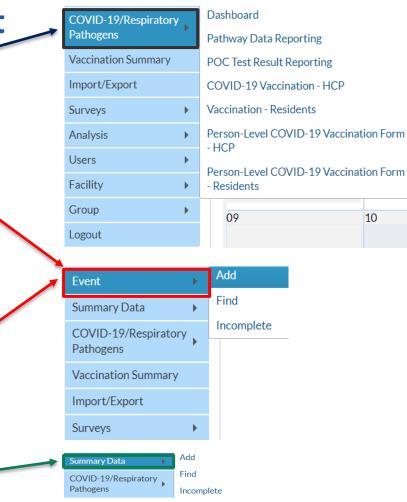
- COVID-19/Respiratory Pathogens -
- Multidrug-Resistant Organism &

Clostridioides difficile (MDRO/CDI) Infection

**Event Reporting** 

- Also called LabID Event module
- Healthcare-Associated Infections (HAIs)
  - UTI Event Reporting

Prevention Process Measures

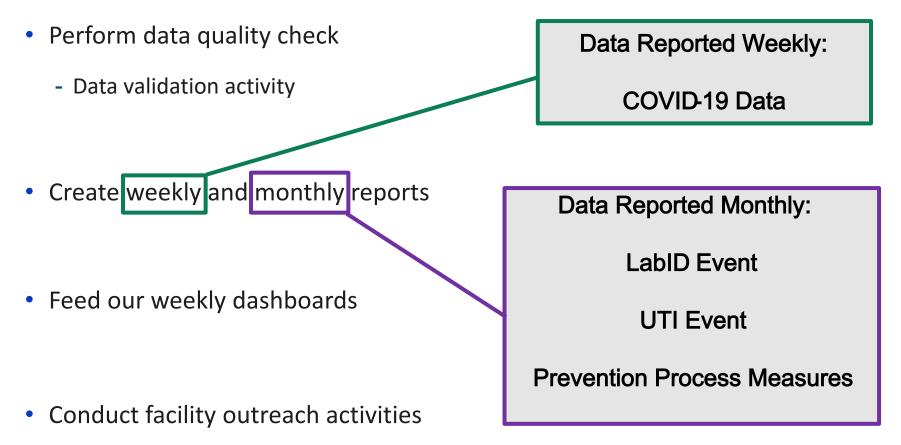


# **Reporting to the LTCF Component Modules**

- Public health surveillance activity
- What is public health surveillance?
  - Ongoing and systematic health data collection, management, analysis,

and interpretation for public health action

#### **Use of the Data Reported to LTCF Component Modules**



## Use of the Data Reported to LTFC Component Modules: Example of a <u>Weekly Data Report</u>

The weekly data report includes the following:

- ✓ Confirmed cases among residents and staffs
- ✓ Variability of the COVID-19 rates (stable, increase, or decrease)
- Change in incident rates of confirmed COVID-19 cases among residents and staff in skilled nursing facilities
- ✓ Visualizations including maps, epi curve, and tables

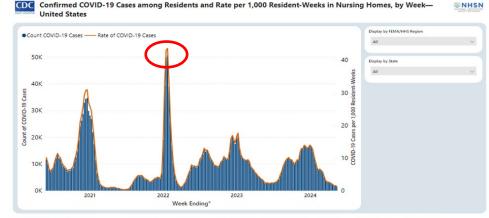
### Use of the Data Reported to LTFC Component Modules: Example of the <u>Weekly State Report</u>

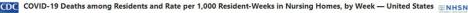
- Number of skilled nursing facilities (SNF) reporting into the NHSN Long-term Care COVID-19 module
- COVID-19 cases and deaths among SNF residents
- COVID-19 national resident case rate
- Hospitalization coverage for residents
- Vaccination coverage for residents and staff
- COVID-19 potential outbreak alert

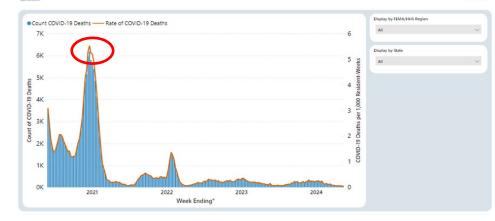
# **Examples of Created Reports: the Dashboard**

Residents and staff information, including:

- COVID-19 case count
- Case rate
- Death rate in SNFs







# **Data Dissemination**

- CDC staff review and presentations
- Sharing of reports with partners
- Publication of CDC's NHSN data on CMS's website



https://data.cms.gov/covid-19/covid-19-nursing-home-data

- Participation in conference presentations
  - Posters/abstracts
- Submission of manuscripts to scientific/peer-reviewed journals

# **Recent Publication by the Post-Acute Care Team**

- Article published in MMWR
  - COVID-19 data
  - Pathway data reporting
- Attention received on the internet
  - Altmetric Attention Score: 81
  - Article cited by 6 news outlets, including Yahoo

Morbidity and Mortality Weekly Report (*MMWR*)

COVID-19 Vaccination Coverage, and Rates of SARS-CoV-2 Infection and COVID-19–Associated Hospitalization Among Residents in Nursing Homes — National Healthcare Safety Network, United States, October 2023– February 2024

Search

**Article Metrics** 

Data as of June 4, 2024

News (6) X (45)

Facebook (2) Mendelev (2)

Altmetric:

Weekly / April 18, 2024 / 73(15);339–344

#### Print

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#### **Pulling Data from NHSN for Facility Specific Analysis**

Demonstration from the SAMS portal

- 1.) Login to the NHSN application
- 2.) Hover over "Analysis" under the "NHSN Home" tab and click

"Generate Data Sets"

NHSN Home		NHSN Long Term Care Facility Component Home Page		
Alerts				
Dashboard	•	<ul> <li>Long Term Care Dashboard</li> </ul>		
Reporting Plan	•	- Long term care Dashboard		
Resident	•	Action Items		
Event	•			
Summary Data	×.	COMPLETE THESE ITEMS		
COVID-19/Respiratory Pathogens	•	ALERTS		
Vaccination Summary				
Import/Export		0 3 70		
Surveys	•	/ 5 //		
Analysis		Generate Data Sets ng Events Incomplete Events Missing Summary Data		
Users	•	Reports Jm		
Facility	•			

# Pulling Data from NHSN for Facility Specific Analysis (continued)

3.) Click "Generate Reporting Data Sets"

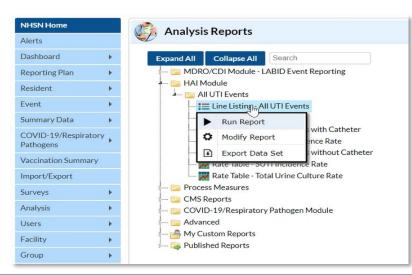
4.) Alert showing that the data has been generated

NHSN Home	Generate Data Sets (Long Term Care Facility)
Alerts	Generate Data Sets (Long Term Care Facility)
Dashboard	Reporting Data Sets
Reporting Plan	
Resident +	
Event •	Datasets will be generated to include all data
Summary Data	Reporting Data Sets successfully generated
COVID-19/Respiratory Pathogens	Generate Reporting
Vaccination Summary	Data Sets May 29, 2024 2:26 PM to include all data
Import/Export	
Surveys	
Analysis	
Users •	

### Pulling Data from NHSN for Facility Specific Analysis (con't)

5.) View Report

6.) Run Report, Modify Report and Export Data under "Analysis" and "Reports" tabs



NHSN Home		Generate Data Sets (Long Term Care Facility)
Alerts		Cenerate Data Sets (Long Term Care Facility)
Dashboard	•	Reporting Data Sets
Reporting Plan	•	Reporting Data Jets
Resident		Datasets will be generated to include all data from enrollment forward
Event	•	
Summary Data	•	
COVID-19/Respiratory Pathogens	•	Generate Reporting
Vaccination Summary		Data Sets May 29, 2024 2:26 PM to include all data
Import/Export		
Surveys	+	
Analysis		Generate Data Sets
Users		Reports

# References

Centers for Disease Control and Prevention (CDC). National Healthcare Safety Network (NHSN). <u>https://www.cdc.gov/nhsn/about-nhsn/index.html</u>.

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Thacker SB, Qualters JR, Lee LM, Centers for Disease Control and Prevention. Public health surveillance in the United States: evolution and challenges. MMWR Suppl. 2012 Jul 27;61(3):3-9. https://www.cdc.gov/mmwr/preview/mmwrhtml/su6103a2.htm

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US Department of Health and Human Services (DHHS). Healthy People 2030. National Healthcare Safety Network (NHSN). <u>https://health.gov/healthypeople/objectives-and-data/data-sources-and-methods/data-sources/national-healthcare-safety-network-nhsn</u>

# **Questions?**

# Thank you

For more information, contact CDC 1-800-CDC-INFO (232-4636) TTY: 1-888-232-6348 cdc.gov

The findings and conclusions in this report are those of the authors and do not necessarily represent the official position of the U.S. Centers for Disease Control and Prevention.

