Introduction to NHSN for Skilled Nursing Facilities
Objectives

• Describe National Healthcare Safety Network (NHSN) use in skilled nursing facilities (SNF)
• Access NHSN resources for SNF
• Review NHSN reports available for SNF
National Healthcare Safety Network

- Centers for Disease Control and Prevention (CDC) surveillance system
- Tracks HAI in hospitals, long term care facilities, and hemodialysis clinics, and ambulatory surgery centers
- Provides standardization
- Data used for HAI public reporting and pay for performance programs
- Accessed through a secure, web-based interface; open to all U.S. healthcare facilities at no charge
NHSN Strengths

- Provides standards for HAI surveillance
- Data are risk-adjusted for comparing to national data
- Web-based; data housed remotely
- Includes data quality checks
- Data analysis tools are built-in
- Expandable to many health care settings
NHSN Data Access

• Facilities own their NHSN surveillance data
  • May edit data at any time to improve accuracy and completeness
• Facilities may join NHSN groups to allow data access
  • Healthcare organizations and others can request or require member facilities for join their group
  • CDPH has a group for California SNF who wish to join
  • Facilities within a group cannot see each other’s data
NHSN Structure

- **NHSN Components**
  - Patient Safety
  - Long Term Care Facility
  - Outpatient Dialysis
  - Healthcare Personnel Safety
  - Biovigilance
  - Outpatient Procedure

**Hospitals**

**Influenza Vaccination**

[NHSN Overview](http://www.cdc.gov/nhsn/PDFs/pscManual/1PSC_OverviewCurrent.pdf)
NHSN Structure- LTC Facility Component

- Healthcare associated infections
  - UTI
- Laboratory identified (LabID) events
  - CDI, MRSA
- Prevention process measures
  - Hand hygiene, gowns and glove use
- HCP and resident vaccination
  - Influenza

NHSN Long-term Care Component
(www.cdc.gov/nhsn/ltc/index.html)
NHSN Enrollment

Go to link at the bottom of the screen to learn more about NHSN.

Click on “New to NHSN? Enroll facility here” to read about enrollment. You can read without enrolling yet!

CDC NHSN (www.cdc.gov/nhsn)
NHSN for Long Term Facilities

On NHSN enrollment page, click on Long Term Care Facilities for more information.
Follow instructions on the Enrollment page for either COVID-19 reporting

Or

Enrollment for reporting HAI and HCP Influenza Vaccination
NHSN SNF Enrollment Instructions: Slides

NHSN Long-Term Care Facility Enrollment Guide

CDC NHSN Long-Term Care Facility Enrollment Guide (PDF)
(www.cdc.gov/nhsn/pdfs/training/ltc/LTCF-Enrollment-training.pdf)
NHSN COVID-19 Module – Slides or Video

CDC NHSN LTCF COVID-19 Module Enrollment slides (PDF)
(www.cdc.gov/nhsn/pdfs/covid19/ltcf/covid19-enroll-refresh-508.pdf)

CDC NHSN LTCF COVID-19 Module Enrollment recording
(www.youtube.com/watch?v=iLb_rRgTvUw)
CDC NHSN LTCF Component
(www.cdc.gov/nhsn/ltc/index.html)
NHSN LTCF COVID-19 Module

CDC LTCF COVID-19 Module
(www.cdc.gov/nhsn/ltc/covid19/index.html)
Surveillance for *C. difficile* Infection (CDI) and Multidrug Resistant Organisms (MDRO)

Resources for NHSN Users Already Enrolled

- **Training**
- **Protocol**
- **Data Collection Forms and Instructions**
- **Supporting Material**
- **Analysis Resources**
- **FAQs**

**Resources to Help Prevent Infections**

- [C.difficile Infections Tracking Tool](#)
After Facility Enrollment is Complete

• Establish your monthly reporting plan
  • Tell NHSN what you will report
• Begin reporting infection “events”
• Report monthly summary data
  • Number of resident days
  • Number of indwelling catheter days
• If tracking hand hygiene or gown and glove use
  • Report number of observations and number of successful practices
NHSN Surveillance - UTI

Apply LTC facility UTI Surveillance definitions

- Two types of UTI, based on presence of device
  - UTI
  - Catheter-associated UTI (CAUTI)

- Use NHSN to track UTI data; reports can be easily created to map facility trends

- Information can be tracked based on:
  - Resident information
  - Date of infection occurrence
  - Location
  - Presence of urinary catheter

[CDC National Healthcare Safety Network (NHSN)]
(www.cdc.gov/nhsn/)
NHSN Surveillance – CDI and MRSA

Tracked in the LabID MDRO Module

• Report date of resident admission and date of specimen collection
• No need to report resident symptoms
• NHSN calculates if community onset (present on admission) or facility onset
  • Positive specimen collected on day 1-3 is **community onset**
  • Positive specimen collected on or after day 4 is **facility onset**
NHSN Surveillance – Hand Hygiene, Gown and Gloves

Tracked in the Prevention Process Measures Module

- NHSN can be used to record and monitor use of hand hygiene, gowns and gloves
  - Information can be tracked over time and in different locations

[Link to CDC National Healthcare Safety Network (NHSN)](www.cdc.gov/nhsn/)
### NHSN Daily COVID-19 Reporting

#### Add COVID-19 Data

- **Date for which counts are reported:** 11/29/2020
- **Facility CCN:** N/A
- **Facility Type:** LTC-SKILNNURS

### Resident Impact and Facility Capacity

<table>
<thead>
<tr>
<th>ALL BEDS</th>
<th>CURRENT CENSUS</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>Total number of beds that are occupied on the reporting calendar day</td>
</tr>
</tbody>
</table>

### Resident Impact for COVID-19 (SARS-CoV-2)

- **ADMISSIONS:** Number of residents admitted or readmitted from another facility who were previously diagnosed with COVID-19 and continue to require precautions. *Excludes* recovered residents.
- **POSITIVE TESTS** *(previously called “Confirmed”):* Number of residents with a new positive COVID-19 viral test result.

#### TEST TYPE

- Of the number of reported residents above with a *Positive Test*, how many were tested using each of the following:
  - Positive SARS-CoV-2 antigen test only [no other testing performed]
  - Positive SARS-CoV-2 NAAT (PCR) [no other testing performed]
  - Positive SARS-CoV-2 antigen test and negative SARS-CoV-2 NAAT (PCR)
  - Any other combination of SARS-CoV-2 NAAT (PCR) and/or antigen test(s) with at least one positive test
**Event Entry Page in NHSN**

Specify Criteria Used * (check all that apply):

**Signs & Symptoms**

- Fever: Single temperature > 37.8°C (>100°F) or >37.2°C (>99°F) on repeated occasions, or an increase of > 1.1°C (>2°F) over baseline

- New onset confusion/functional decline

- Acute pain, swelling or tenderness of the

- Acute dysuria

- Purulent drainage at catheter insertion

- Rigors

- New onset hypotension

- Acute pain, swelling or tenderness of the

- Acute dysuria

- Purulent drainage at catheter insertion

- All infections are entered as “Events”
  - UTI
  - CDI

- Screen will change when event type is selected

- Check appropriate signs and symptoms.
NHSN Analysis Options and Reports

• Reports are available to analyze your data

• NHSN compares your facility to a national standard based on HAI data from facilities across the US
# Hand Hygiene / Gown and Glove Adherence

## National Healthcare Safety Network

**Line Listing for All Process Measures**

**As of:** March 15, 2018 at 3:30 PM  
**Date Range:** LTCFM summaryYM  
2017M10 to 2018M03

<table>
<thead>
<tr>
<th>Facility Org ID</th>
<th>Summary Year/Month</th>
<th>Location</th>
<th>Hand Hygiene Performed</th>
<th>Hand Hygiene Indicated</th>
<th>Gown/Glove Used</th>
<th>Gown/Glove Indicated</th>
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<tbody>
<tr>
<td>30203</td>
<td>2017M10</td>
<td>FACWIDEIN</td>
<td>45</td>
<td>75</td>
<td>50</td>
<td>55</td>
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<tr>
<td>30203</td>
<td>2017M11</td>
<td>FACWIDEIN</td>
<td>62</td>
<td>75</td>
<td>40</td>
<td>43</td>
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<tr>
<td>30203</td>
<td>2017M12</td>
<td>FACWIDEIN</td>
<td>62</td>
<td>75</td>
<td>30</td>
<td>30</td>
</tr>
<tr>
<td>30203</td>
<td>2018M01</td>
<td>FACWIDEIN</td>
<td>44</td>
<td>52</td>
<td>42</td>
<td>44</td>
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<tr>
<td>30203</td>
<td>2018M02</td>
<td>FACWIDEIN</td>
<td>52</td>
<td>70</td>
<td>60</td>
<td>61</td>
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</table>
### UTI Report

<table>
<thead>
<tr>
<th>Facility Org ID</th>
<th>Resident ID</th>
<th>Date of Current Admission</th>
<th>Event ID</th>
<th>Event Date</th>
<th>Specific Event</th>
<th>Urinary Catheter Status</th>
<th>Location</th>
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<tbody>
<tr>
<td>30203</td>
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<td>12/12/2017</td>
<td>CA-SUTI</td>
<td>INPLACE</td>
<td>2F</td>
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<tr>
<td>30203</td>
<td>WI1234</td>
<td>10/25/2013</td>
<td>9281</td>
<td>01/06/2018</td>
<td>CA-SUTI</td>
<td>INPLACE EAST WING</td>
<td></td>
</tr>
<tr>
<td>30203</td>
<td>W00001</td>
<td>04/01/2016</td>
<td>5856</td>
<td>10/24/2017</td>
<td>SUTI</td>
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<tr>
<td>30203</td>
<td>UTITESTPROD</td>
<td>03/09/2017</td>
<td>8481</td>
<td>01/12/2018</td>
<td>SUTI</td>
<td>NEITHER Z-1E</td>
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</tr>
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</table>
### CDI Reports

#### Total CDI Rate

<table>
<thead>
<tr>
<th>Summary Year/Month</th>
<th>Location</th>
<th>Total CDI Count</th>
<th>Number of Resident Days</th>
<th>Total CDI Rate</th>
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<tbody>
<tr>
<td>2017M10</td>
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<td>6108</td>
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<tr>
<td>2017M12</td>
<td>FACWIDEIN</td>
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<td>6102</td>
<td>0</td>
</tr>
<tr>
<td>2018M01</td>
<td>FACWIDEIN</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2018M02</td>
<td>FACWIDEIN</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### CDI Treatment Prevalence on Admission

<table>
<thead>
<tr>
<th>Summary Year/Month</th>
<th>Location</th>
<th>Admissions on C. diff Treatment</th>
<th>Number of Resident Admissions</th>
<th>CDI Treatment Prevalence</th>
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</thead>
<tbody>
<tr>
<td>2017M10</td>
<td>FACWIDEIN</td>
<td>0</td>
<td>60</td>
<td>0</td>
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<tr>
<td>2017M11</td>
<td>FACWIDEIN</td>
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<tr>
<td>2017M12</td>
<td>FACWIDEIN</td>
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<td>74</td>
<td>2.703</td>
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<tr>
<td>2018M01</td>
<td>FACWIDEIN</td>
<td>3</td>
<td>62</td>
<td>4.839</td>
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<tr>
<td>2018M02</td>
<td>FACWIDEIN</td>
<td>3</td>
<td>66</td>
<td>4.545</td>
</tr>
</tbody>
</table>
CDI Graph

CDI LTC Onset and Present on Admission

Rate of present-on-admission CDI
Rate of facility-onset CDI

1. What information can we take from this chart?
2. What might be the problem?
3. How would you address the problem?
Summary

• NHSN is a surveillance system used for recording HAI and COVID-19 data

• NHSN has analysis features for interpreting data and comparing infection rates over time

• See training and other [CDC National Healthcare Safety Network (NHSN) resources](www.cdc.gov/nhsn/)
<table>
<thead>
<tr>
<th>Questions?</th>
<th>Post Test</th>
</tr>
</thead>
<tbody>
<tr>
<td>For more information, please contact</td>
<td>Now that you have completed this module,</td>
</tr>
<tr>
<td><a href="mailto:HAIProgram@cdph.ca.gov">HAIProgram@cdph.ca.gov</a></td>
<td>Click on the “Post Test” link when it pops up</td>
</tr>
<tr>
<td>Include “SNF IP Training Class” in the subject line</td>
<td>To Return to Learning Stream and take the post test</td>
</tr>
<tr>
<td></td>
<td>If the Post Test link does not pop up, you will be sent a link via e-mail</td>
</tr>
</tbody>
</table>