Introduction to NHSN for Skilled Nursing Facilities

Last Updated 2019
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
- 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 Overview
(www.cdc.gov/nhsn/PDFs/pscManual/1PSC_OverviewCurrent.pdf)
NHSN Structure – Long Term Care Facility Component

NHSN Long-term Care Component
(https://www.cdc.gov/nhsn/ltc/index.html)
STEP 1:
Go to NHSN webpage using the link below to learn more about NHSN.

Click on this option to enroll or to just read about enrollment.

CDC NHSN (https://www.cdc.gov/nhsn)
Step 2: 
On NHSN Enrollment page, click on Long Term Care Facilities for more information.

CDC NHSN (https://www.cdc.gov/nhsn)
Step 3:
On LTC Facility enrollment page, follow instructions to enroll in NHSN, obtain training and materials, or learn more.

[Step 1: Training and Preparation]

- Print and follow LTCF detailed checklist [PDF – 203 KB]
- Complete required trainings: Overview of the Long-term
- Enrollment: Getting Access to NHSN for your LTCF through the enrollment process.
- Complete the Facility Contact form [PDF – 63 KB]
- These forms will assist with collecting the required information that will be needed to submit these forms to NHSN. Detailed instructions for completing the Annual F Annual Facility Survey for LTCF [PDF – 485K] document.
- Check trusted websites and spam blocker settings (see detailed checklist [PDF – 63 KB])
- For detailed enrollment instructions, download the NHSN Facility Administrators not specific to Long-Term Care Facilities.

[Step 3: Enrollment for Long-term Care Facilities]

- [Acute Care Hospitals/Facilities]
- [Enrollment for Long-term Acute Care Hospitals/Facilities]
- [Enrollment for Inpatient Rehabilitation Facilities]
- [Enrollment for Inpatient Psychiatric Facilities]
- [Set-up]
- [Enrollment for Outpatient Dialysis Facilities]
- [Enrollment for Home Dialysis Facilities]
- [FAQs About Enrollment]

[Materials for Enrolled Facilities]

- [2015 Rebaseline]
- [Group Users]

[Step 3: Enrollment for Long-term Care Facilities]

CDC NHSN (https://www.cdc.gov/nhsn)
NHSN Facility Enrollment Process

Follow instructions on enrollment page:

• Self-paced required training
• Enrollment Checklist
  • Note time estimates for each step in processes
  • All reference documents attached to Checklist

• Slide set outlines enrollment process and training:
• All documents can be downloaded from:
  https://www.cdc.gov/nhsn/LTC/enroll.html
NHSN LTC Facility Surveillance Options and Resources

CDC NHSN (www.cdc.gov/nhsn)
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.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
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
- □ Rigors
- □ New onset confusion/functional decline
- □ New onset hypotension
- □ Acute pain, swelling or tenderness of the prostate
- □ Acute dysuria
- □ Purulent drainage at catheter insertion site

- All infections are entered as “Events”
  - UTI
  - CDI
- Screen will change when you select the event type
- Most elements are filled in using multiple choice or drop-down options
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: LTCPM summary YM  
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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# UTI Report

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<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>
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<td>EAST WING</td>
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# 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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<tr>
<td>2018M02</td>
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### CDI Treatment Prevalence on Admission

<table>
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<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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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 data
- NHSN has analysis features for interpreting data and comparing infection rates over time
- See training and other resources at www.cdc.gov/nhsn
Questions?

For more information, please contact any HAI Program Team member

Or email HAIProgram@cdph.ca.gov