Reporting Weekly Influenza Vaccination Data

Division of Healthcare Quality Promotion
Immunization Services Division

November 2020
Objectives

- Highlight changes and clarification for data reporting
- Discuss the value of reporting weekly influenza vaccination data
- Describe how facilities can track weekly influenza vaccination of residents and healthcare personnel (HCP)
- Review data reporting in detail
Overview

- Conducted trainings for long-term care (LTC) facilities in October 2020
  - Went over how to track weekly influenza vaccination for residents and healthcare personnel (HCP)

- Obtained a sample of facilities submitting weekly HCP influenza vaccination data
  - Reviewed data
    - Some facilities reported HCP influenza vaccination data incorrectly
  - Surveyed facilities
    - Facilities interpreted HCP denominator definition differently

- Implemented changes to reduce reporting burden and improve data accuracy
  - Revised HCP denominator definition to reduce reporting burden
  - Clarified how to correctly report cumulative HCP influenza vaccination data
Key Revisions and Clarifications

- **Revised denominator**
  - Number of HCP that were eligible to have worked at this healthcare facility for at least 1 day during the week of data collection
    - Include individuals regardless of clinical responsibility or patient contact
    - Include workers on sick leave, maternity leave, and vacation
    - Include both full-time and part-time persons

- **Clarified numerator**
  - Facilities should report cumulative data each week
    - Report influenza vaccinations given to date (rather than only new data)

- **Updated data collection forms and tables of instructions in November 2020**
  - Revised materials and trainings posted on the NHSN website
# Reporting Cumulative Data for HCP

**1. Number of HCP that were eligible to have worked at this healthcare facility for at least 1 day during the week of data collection**

<table>
<thead>
<tr>
<th>Nurse Employees</th>
<th>Nurse Employees</th>
<th>Nurse Employees</th>
</tr>
</thead>
<tbody>
<tr>
<td>30</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

**2. Cumulative number of HCP in row #1 that received an influenza vaccination at this healthcare facility since influenza vaccine became available this season**

<table>
<thead>
<tr>
<th>Nurse Employees</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sept. 14-20</td>
</tr>
<tr>
<td>10</td>
</tr>
</tbody>
</table>

**3. Cumulative number of HCP in row #1 that provided a written report or documentation of influenza vaccination outside this healthcare facility since influenza vaccine became available this season**

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<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>Sept. 14-20</td>
</tr>
<tr>
<td>5</td>
</tr>
</tbody>
</table>

### Reporting Cumulative Data for HCP (cont.)

<table>
<thead>
<tr>
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<th></th>
</tr>
</thead>
<tbody>
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<td>30</td>
<td></td>
</tr>
<tr>
<td>2. Cumulative number of HCP in row #1 that received an influenza vaccination at this healthcare facility since influenza vaccine became available this season</td>
<td>10</td>
<td>15</td>
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<td>5</td>
<td></td>
</tr>
<tr>
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<td>-------------------------------</td>
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</tr>
</tbody>
</table>
# Reporting Cumulative Data for Residents

<table>
<thead>
<tr>
<th></th>
<th>Week of Sept. 14-20</th>
<th>Week of Sept. 21-27</th>
<th>Week of Sept. 28-Oct. 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Number of residents staying in this facility for at least 1 day during the week of data collection</td>
<td>100</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>2. Number of residents in row #1 who received influenza vaccination (either at the facility or outside of the facility) since vaccine became available this season</td>
<td>50</td>
<td>55</td>
<td>60</td>
</tr>
</tbody>
</table>
Why is influenza vaccination important?
Impact of Influenza

- Influenza can circulate quickly in residential facilities\(^a\)
  - Residents are at increased risk of complications from influenza infection due to age and/or chronic medical conditions
  - HCP may contract influenza from and/or transmit influenza to residents

- Challenges to vaccination of HCP working in LTC facilities
  - Worksite may not offer or actively promote influenza vaccination of HCP\(^b\)
  - High staff turnover can complicate vaccination and tracking\(^c\)

\(^a\) [https://www.health.pa.gov/topics/Documents/Diseases%20and%20Conditions/Flu/LTCFtoolkit_final12%2010%202016%20Encrypted.pdf](https://www.health.pa.gov/topics/Documents/Diseases%20and%20Conditions/Flu/LTCFtoolkit_final12%2010%202016%20Encrypted.pdf)
\(^b\) [https://www.cdc.gov/mmwr/volumes/67/wr/mm6738a2.htm](https://www.cdc.gov/mmwr/volumes/67/wr/mm6738a2.htm)
\(^c\) [https://www.ncbi.nlm.nih.gov/pubmed/23031265](https://www.ncbi.nlm.nih.gov/pubmed/23031265)
Benefits of Influenza Vaccination

- Helps to prevent the spread of influenza among LTC facility residents and HCP
- Could reduce influenza-related illness in residents
- May reduce deaths in long-term care residents
- Reduces illness and absenteeism among HCP

Strategies for Improving Influenza Vaccination

- Evidence-based strategies identified to increase vaccination uptake:
  - Providing no cost vaccine to HCP at the LTC facility
  - Giving the influenza vaccine at various times and locations
  - Actively promoting influenza vaccination
  - Providing individual reminders about the need for vaccination
  - Assessing vaccination rates and providing feedback on performance

https://www.thecommunityguide.org/topic/worksite-health
https://www.thecommunityguide.org/topic/vaccination
How can I use these data?
Why Should You Use NHSN?

- NHSN users can report weekly influenza vaccination data through the LTC Facility Component
  - Weekly reporting is currently optional

- The weekly influenza vaccination features are designed to ensure that reported influenza vaccination percentages are:
  - Consistent over time within a single healthcare facility
  - Comparable across facilities

- Improvements in tracking and reporting vaccination status allows for enhanced identification and targeting of unvaccinated residents and HCP
Putting Data into Action

- Facilities can use data to obtain a better picture of influenza vaccination at their facility
  - Monitor vaccination trends over time
    - Example: Review how quickly cumulative vaccination coverage rates increase each week for HCP groups and residents
  - Identify HCP groups with lower vaccination rates
    - Example: A facility may find that vaccination rates are lower among technicians than among nurses
  - Pinpoint barriers to influenza vaccination
    - Example: A facility may discover that non-employees have a lower influenza vaccination rate because they are not covered by facility vaccination policies and programs for employees
Facilities can use the data from the HCP Vaccination Module to inform decision-making

- Refine facility strategy and outreach to unvaccinated groups
  - Example: Update vaccination programs to include non-employee HCP
  - Example: Increase the number of days vaccine is offered to HCP and residents onsite

- Improve vaccination tracking
  - Example: Implement automated tracking systems
Which types of data should I collect?
Weekly Influenza Vaccination Reporting

- Weekly influenza vaccination reporting for residents
- Weekly influenza vaccination reporting for HCP
Weekly Reporting for Residents

Denominator
- Residents staying in this facility for at least 1 day during the week of data collection

Numerator
- Residents receiving influenza vaccination (either at the facility or outside of the facility) since vaccine became available this season
- Residents with a medical contraindication to influenza vaccination
- Residents offered but declined influenza vaccination
- Residents not offered influenza vaccination by the facility
- Residents with an unknown influenza vaccination status or did not meet criteria for any other categories
Weekly Reporting for HCP: Denominator

Denominator Categories

- **Required**
  - Ancillary services employees: Environmental, laundry, maintenance, and dietary services
  - Nurse employees: Registered nurses and licensed practical/vocational nurses
  - Aide, assistant, and technician employees: Certified nursing assistants, nurse aides, medication aides, and medication assistants
  - Therapist employees: Therapists (such as respiratory, occupational, physical, speech, and music therapists) and therapy assistants
  - **Physician and licensed independent practitioner employees**: Physicians, residents, fellows, advanced practice nurses, and physician assistants

- **Optional**
  - Other HCP: Persons not included in the employee categories listed here, regardless of clinical responsibility or patient contact, including contract staff, students, and other non-employees
Weekly Reporting for HCP: Denominator (cont.)

- Previous denominator
  - Number of HCP that worked at this healthcare facility for at least 1 day during the week of data collection

- Revised denominator
  - Number of HCP that were eligible to have worked at this healthcare facility for at least 1 day during the week of data collection
    - Include individuals regardless of clinical responsibility or patient contact
    - Include workers on sick leave, maternity leave, and vacation
    - Include both full-time and part-time persons
Weekly Reporting for HCP: Numerator

Numerator
- HCP receiving an influenza vaccination at this healthcare facility since influenza vaccine became available this season
- HCP providing a written report or documentation of influenza vaccination received outside this healthcare facility since influenza vaccine became available this season

Cumulative Data
- Facilities should report cumulative data each week (rather than only new data)
  - Example:
    - Week 1: 10 physicians received influenza vaccination at the facility
    - Week 2: 5 more physicians received influenza vaccination at the facility
      - Facility should report 15 physicians received influenza vaccination at the facility by the end of week 2
A healthcare worker (HCW) may be eligible to work in two or more facilities for at least 1 day during the week of data collection
  • Each facility should include the HCW in their denominator (question 1 on the data collection form)

The HCP categories are mutually exclusive. Each HCW should be counted only once in the denominator
Vaccine Availability

- Receipt of influenza vaccine supply for current influenza season
- Experiencing a shortage of influenza vaccine for current influenza season
Tables of Instructions

- Tables of instructions provide detailed definitions of the denominator and numerator categories
- Review instructions before collecting and entering data
- Access instructions at: [https://www.cdc.gov/nhsn/ltc/vaccination/index.html](https://www.cdc.gov/nhsn/ltc/vaccination/index.html)

<table>
<thead>
<tr>
<th>Data Fields</th>
<th>Instructions for Completion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Facility ID #</td>
<td><em>Required.</em> The NHSN-assigned facility ID will be auto-entered.</td>
</tr>
<tr>
<td>Vaccination Type</td>
<td><em>Required.</em> Influenza is the default and only current choice.</td>
</tr>
<tr>
<td>Influenza Subtype</td>
<td><em>Required.</em> Seasonal is the default and only current choice.</td>
</tr>
<tr>
<td>Influenza Season</td>
<td><em>Required.</em> Select the influenza season years for which data were collected (for example, 2020/2021).</td>
</tr>
<tr>
<td>Week of Data Collection</td>
<td><em>Required.</em> Enter the day, month, and year of the beginning and end dates for the week data are being collected. Weeks begin on a Monday and end on a Sunday.</td>
</tr>
<tr>
<td>Date Last Modified</td>
<td>The Date Last Modified will be auto-entered and indicate the date that these data were last changed by a user.</td>
</tr>
<tr>
<td><strong>Ancillary Services Employees</strong></td>
<td><em>Required.</em> Defined as all persons who perform ancillary services and who receive a direct paycheck from the healthcare facility (i.e., on the facility’s payroll), regardless of clinical responsibility or patient contact. Specifically, this consists of employees providing environmental, laundry, maintenance, and dietary/nutrition services.</td>
</tr>
</tbody>
</table>

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How do I get started in NHSN?
NHSN Landing Page

- Select the LTC Facility Component
LTC Facility Component Home Page

- Select ‘Vaccination Summary’ on the left-hand navigation bar

Assurance of Confidentiality: The voluntarily provided information obtained in this surveillance system that will be held in strict confidence, will be used only for the purposes stated, and will not otherwise be disclosed with Sections 304, 306 and 306(d) of the Public Health Service Act (42 USC 242b, 242k, and 242m(d)).
Vaccination Summary Data: Residents

Click a cell to begin entering data for the week which counts are reported.

Reporting of medical events or health problems that occur after vaccination (possible side effects) is encouraged, even if you are not sure they are the result of vaccination. See [https://vaers.hhs.gov/reportevent.html](https://vaers.hhs.gov/reportevent.html).
## Vaccination Summary Data: Residents

### Influenza Vaccination Coverage of Long-Term Care Facility Residents

<table>
<thead>
<tr>
<th>Facility ID #</th>
<th>Vaccination type</th>
</tr>
</thead>
<tbody>
<tr>
<td>20265</td>
<td>Influenza</td>
</tr>
</tbody>
</table>

**Influenza subtype**: SEASONAL - Seasonal

**Influenza Season**: 2020/2021

**Week of Data Collection**: 09/07/2020 - 09/13/2020

**Date Last Modified**: 09/18/2020 4:10PM

### Vaccination Coverage

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>1. Number of residents staying in this facility for at least 1 day during the week of data collection</td>
</tr>
<tr>
<td>60</td>
<td>2. Number of residents in row #1 who received influenza vaccination (either at the facility or outside of the facility) since vaccine became available this season</td>
</tr>
<tr>
<td>2</td>
<td>3. Number of residents in row #1 with a medical contraindication to influenza vaccination</td>
</tr>
<tr>
<td>10</td>
<td>4. Number of residents in row #1 offered but declined influenza vaccination</td>
</tr>
<tr>
<td>20</td>
<td>5. Number of residents in row #1 not offered influenza vaccination by the facility</td>
</tr>
<tr>
<td>8</td>
<td>6. Number of residents in row #1 with an unknown influenza vaccination status or did not meet criteria for other categories for questions 2-5 above</td>
</tr>
</tbody>
</table>

### Vaccine Availability

- **Y - Yes**: Has your facility received its supply of influenza vaccine for the current influenza season?
- **N - No**: Is your facility currently experiencing a shortage of influenza vaccine for the current influenza season?
Vaccination Summary Data: Residents

- Click the ‘Save’ button at the bottom of the screen after entering data

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>4. Number of residents in row #1 offered but declined influenza vaccination</td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>5. Number of residents in row #1 not offered influenza vaccination by the facility</td>
<td></td>
</tr>
<tr>
<td>8</td>
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<td></td>
</tr>
</tbody>
</table>

Vaccine Availability

- **Y - Yes**: Has your facility received its supply of influenza vaccine for the current influenza season?
- **N - No**: Is your facility currently experiencing a shortage of influenza vaccine for the current influenza season?

Custom Fields

- Comments:
Vaccination Summary Data: Residents

Click a cell to begin entering data for the week which counts are reported.

Reporting of medical events or health problems that occur after vaccination (possible side effects) is encouraged, even if you are not sure they are the result of vaccination, at https://vaers.hhs.gov/reportevent.html.

Weekly Vaccination Calendar
08/01/2020 (Monday) - 09/06/2020 (Sunday)

09/07/2020 (Monday) - 09/13/2020 (Sunday)
Click a cell to begin entering data for the week which counts are reported.

Reporting of medical events or health problems that occur after vaccination (possible side effects) is encouraged, even if you are not sure they are the result of vaccination, at [https://vaers.hhs.gov/reportevent.html](https://vaers.hhs.gov/reportevent.html).
## Vaccination Summary Data: HCP

### Healthcare Personnel Influenza Vaccination Summary for Long-Term Care Facilities

<table>
<thead>
<tr>
<th>Facility ID #</th>
<th>14341</th>
<th>Vaccination type</th>
<th>Influenza Subtype</th>
<th>Influenza Season</th>
<th>Week of Data Collection</th>
<th>Data Last Modified</th>
</tr>
</thead>
</table>

**Healthcare Personnel (HCP) Categories**

<table>
<thead>
<tr>
<th>Category</th>
<th>Ancillary services employees</th>
<th>Nurse employees</th>
<th>Aide, assistant and technician employees</th>
<th>Therapist employees</th>
<th>Physician and licensed independent practitioner employees</th>
<th>Other HCP</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(environmental, laundry, maintenance and dietary services)</td>
<td>(registered nurses and licensed practical/vocational nurses)</td>
<td>(certified nursing assistants, nurse aides, medication aides, and medication assistants)</td>
<td>(respiratory, occupational, physical, speech, music etc. therapists and therapy assistants)</td>
<td>(physicians, residents, fellows, advance practice nurses, physician assistants)</td>
<td>Persons not included in the employee categories listed here, regardless of clinical responsibility or patient contact, including contract staff, students, and other non-employees</td>
</tr>
</tbody>
</table>

1. Number of HCP that were eligible to have worked at this healthcare facility for at least 1 day during the week of data collection
   - Total: 25

2. Number of HCP in row #1 that received an influenza vaccination at this healthcare facility since Influenza vaccine became available this season
   - Total: 40

3. Number of HCP in row #1 that provided a written report or documentation of Influenza vaccination outside this healthcare facility since Influenza vaccine became available this season
   - Total: 35

### Vaccine Availability

Has your facility received its supply of influenza vaccine for the current Influenza season? **Y - Yes**

Is your facility currently experiencing a shortage of influenza vaccine for the current influenza season? **N - No**
Vaccination Summary Data: HCP

Click a cell to begin entering data for the week which counts are reported.

Reporting of medical events or health problems that occur after vaccination (possible side effects) is encouraged, even if you are not sure they are the result of vaccination, at [https://vaers.hhs.gov/reportevent.html](https://vaers.hhs.gov/reportevent.html).

Weekly Vaccination Calendar

08/31/2020 (Monday) - 09/06/2020 (Sunday)

09/07/2020 (Monday) - 09/13/2020 (Sunday)

- Residents
- Healthcare Personnel

Successfully saved record.
Click a cell to begin entering data for the week which counts are reported.

Reporting of medical events or health problems that occur after vaccination (possible side effects) is encouraged, even if you are not sure they are the result of vaccination, at [https://vaers.hhs.gov/reportevent.html](https://vaers.hhs.gov/reportevent.html).

### Weekly Vaccination Calendar

<table>
<thead>
<tr>
<th>Date Range</th>
<th>Residents</th>
<th>Healthcare Personnel</th>
</tr>
</thead>
<tbody>
<tr>
<td>08/31/2020 (Monday) - 09/06/2020 (Sunday)</td>
<td>✔️</td>
<td></td>
</tr>
<tr>
<td>09/07/2020 (Monday) - 09/13/2020 (Sunday)</td>
<td>✔️</td>
<td></td>
</tr>
</tbody>
</table>
# Editing Summary Data

## Flu Vaccine: Residents

**Facility ID #**: 13792  
**Influenza subtype**: SEASONAL - Seasonal  
**Vaccination type**: Influenza  
**Influenza Season**: 2020/2021  
**Week of Data Collection**: 08/31/2020 - 09/06/2020  
**Date Last Modified**: 09/22/2020 3:38PM

<table>
<thead>
<tr>
<th>Vaccination Coverage</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>1. Number of residents staying in this facility for at least 1 day during the week of data collection</td>
</tr>
<tr>
<td>80</td>
<td>2. Number of residents in row #1 who received influenza vaccination (either at the facility or outside of the facility) since vaccine became available this season</td>
</tr>
<tr>
<td>0</td>
<td>3. Number of residents in row #1 with a medical contraindication to influenza vaccination</td>
</tr>
<tr>
<td>10</td>
<td>4. Number of residents in row #1 offered but declined influenza vaccination</td>
</tr>
<tr>
<td>0</td>
<td>5. Number of residents in row #1 not offered influenza vaccination by the facility</td>
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<td>6. Number of residents in row #1 with an unknown influenza vaccination status or did not meet criteria for other categories for questions 2-5 above</td>
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Reporting cumulative vaccination data
# Reporting Cumulative Data for HCP

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<thead>
<tr>
<th></th>
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<tbody>
<tr>
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<td>30</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2. Cumulative number of HCP in row #1 that received an influenza vaccination at this healthcare facility since influenza vaccine became available this season</td>
<td>10</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>3. Cumulative number of HCP in row #1 that provided a written report or documentation of influenza vaccination outside this healthcare facility since influenza vaccine became available this season</td>
<td>5</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>
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<table>
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<tr>
<th></th>
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<tr>
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<td>5</td>
<td>5</td>
<td>5</td>
</tr>
</tbody>
</table>
# Reporting Cumulative Data for Residents

<table>
<thead>
<tr>
<th>Criteria</th>
<th>Week of Sept. 14-20</th>
<th>Week of Sept. 21-27</th>
<th>Week of Sept. 28-Oct. 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Number of residents staying in this facility for at least 1 day during the week of data collection</td>
<td>100</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>2. Number of residents in row #1 who received influenza vaccination (either at the facility or outside of the facility) since vaccine became available this season</td>
<td>50</td>
<td>55</td>
<td>60</td>
</tr>
</tbody>
</table>
Data Reporting in NHSN: Influenza Vaccination versus COVID-19 Cases

- **Weekly Influenza vaccination data**
  - Optional reporting
  - Cumulative vaccination data (all vaccinations administered to date)

- **COVID-19 case data**
  - Required reporting
  - Incidence case data (cases diagnosed each week)
Resources
Resource: The NHSN Website

Visit: https://www.cdc.gov/nhsn/ltc/vaccination/index.html for training materials:

- Data collection forms
- Tables of Instructions
- Training slides
Questions or Need Help?

E-mail user support at: nhsn@cdc.gov

Please include ‘Weekly LTC Flu Summary’ in the subject line of the e-mail

For more information, contact CDC
1-800-CDC-INFO (232-4636)

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