



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 healthcare personnel (HCP)
- Review data reporting in detail

Overview

- **Launched weekly influenza vaccination data reporting module in September 2020**
 - Allowed for non-long-term care facilities to report weekly data on HCP through NHSN
- **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

	Employees Sept. 14-20	Employees Sept. 21-27	Employees Sept. 28-Oct. 5
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	100	-	-
2. Cumulative number of HCP in question #1 that received an influenza vaccination at this healthcare facility since influenza vaccine became available this season	50		
3. Cumulative number of HCP in question #1 that provided a written report or documentation of influenza vaccination outside this healthcare facility since influenza vaccine became available this season	10	-	-

Reporting Cumulative Data for HCP (cont.)

	Employees Sept. 14-20	Employees Sept. 21-27	Employees Sept. 28-Oct. 5
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	100	100	
2. Cumulative number of HCP in question #1 that received an influenza vaccination at this healthcare facility since influenza vaccine became available this season	50	60	
3. Cumulative number of HCP in question #1 that provided a written report or documentation of influenza vaccination outside this healthcare facility since influenza vaccine became available this season	10	10	

Reporting Cumulative Data for HCP (cont.)

	Employees Sept. 14-20	Employees Sept. 21-27	Employees Sept. 28-Oct. 5
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	100	100	100
2. Cumulative number of HCP in question #1 that received an influenza vaccination at this healthcare facility since influenza vaccine became available this season	50	60	70
3. Cumulative number of HCP in question #1 that provided a written report or documentation of influenza vaccination outside this healthcare facility since influenza vaccine became available this season	10	10	10

How can I use these data?

Why Should You Use NHSN?

- **NHSN users can report weekly influenza vaccination data through the HCP Safety Component**
 - Weekly reporting is currently optional
- **The weekly influenza vaccination feature is 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 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
 - Identify HCP groups with lower vaccination rates
 - Example: A facility may find that vaccination rates are lower among non-employees than among employees
 - 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

Putting Data into Action (cont.)

- **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 onsite
 - Improve vaccination tracking
 - Example: Implement automated tracking systems

Which types of data should I collect?

Weekly Reporting for HCP: Denominator

Denominator Categories

- **Required**
 - Employees (staff on facility payroll)
 - Non-Employees
 - Licensed independent practitioners: Physicians, advanced practice nurses, & physician assistants
 - Adult students/trainees & volunteers

- **Optional**
 - Other contract personnel

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 (cont.)

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 outside this healthcare facility since influenza vaccine became available this season
- HCP having a medical contraindication to the influenza vaccine
- HCP declining to receive the influenza vaccine this season
- HCP with unknown vaccination status

Weekly Reporting for HCP: Numerator (cont.)

Cumulative Data

- Facilities should report cumulative data each week (rather than only new data)
 - Example:
 - Week 1: 10 licensed independent practitioners received influenza vaccination at the facility
 - Week 2: 5 more licensed independent practitioners received influenza vaccination at the facility
 - Facility should report 15 licensed independent practitioners received influenza vaccination at the facility by the end of week 2

Weekly Reporting for HCP: Additional Notes

- **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

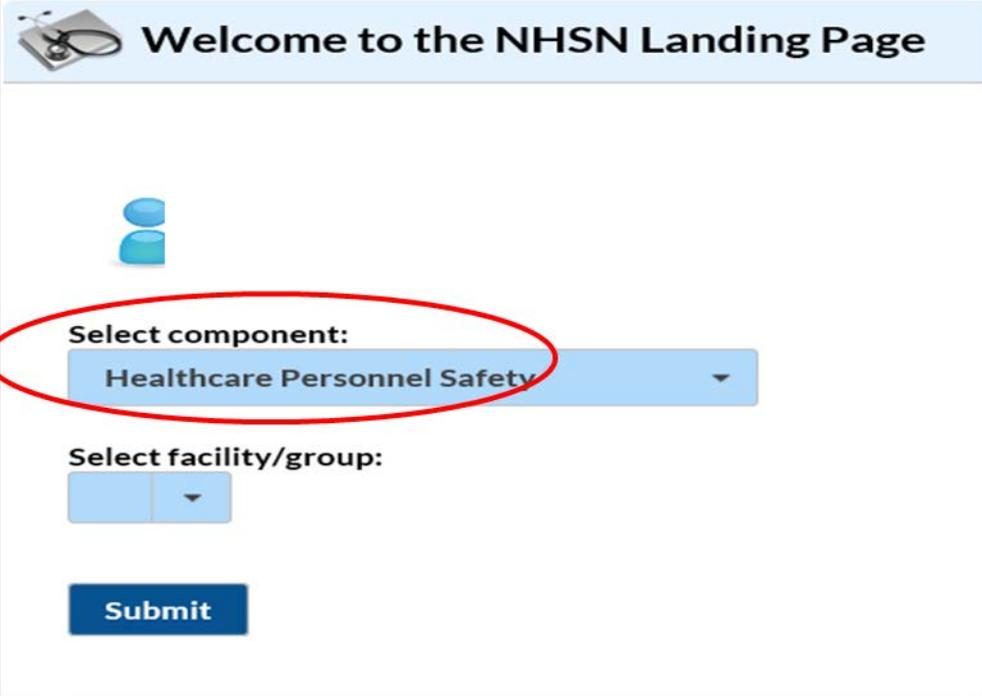
- Tables of instructions provide detailed definitions of the denominator and numerator categories
- Review instructions before collecting and entering data
- Access instructions at: <https://www.cdc.gov/nhsn/enrolled-facilities/index.html>
 - Click on facility type (e.g., acute care facilities)
 - Click on “Surveillance for Healthcare Personnel Vaccination”

Data Fields	Instructions for Completion
Facility ID #	<i>Required.</i> The NHSN-assigned facility ID will be auto-entered.
Location	<i>Conditionally Required.</i> Facilities with CMS inpatient rehabilitation facility (IRF) units and/or inpatient psychiatric facility (IPF) units must specify if they are reporting data for their facility or their CMS IRF unit(s) and/or CMS IPF unit(s).
Vaccination Type	<i>Required.</i> Influenza is the default and only current choice.
Influenza Subtype	<i>Required.</i> Seasonal is the default and only current choice.
Influenza Season	<i>Required.</i> Select the influenza season years for which data were collected (for example, 2020/2021).
Week of Data Collection	<i>Required.</i> Enter the day, month, and year of the beginning and end dates for the week data are being collected.
Date Last Modified	The Date Last Modified will be auto-entered and indicate the date that these data were last changed by a user.
Employee HCP (staff on facility payroll)	<i>Required.</i> Defined as all persons receiving a direct paycheck from the healthcare facility (i.e., on the facility’s payroll), regardless of clinical responsibility or patient contact.

How do I get started in NHSN?

NHSN Landing Page

- Select the HCP Safety Component



Welcome to the NHSN Landing Page

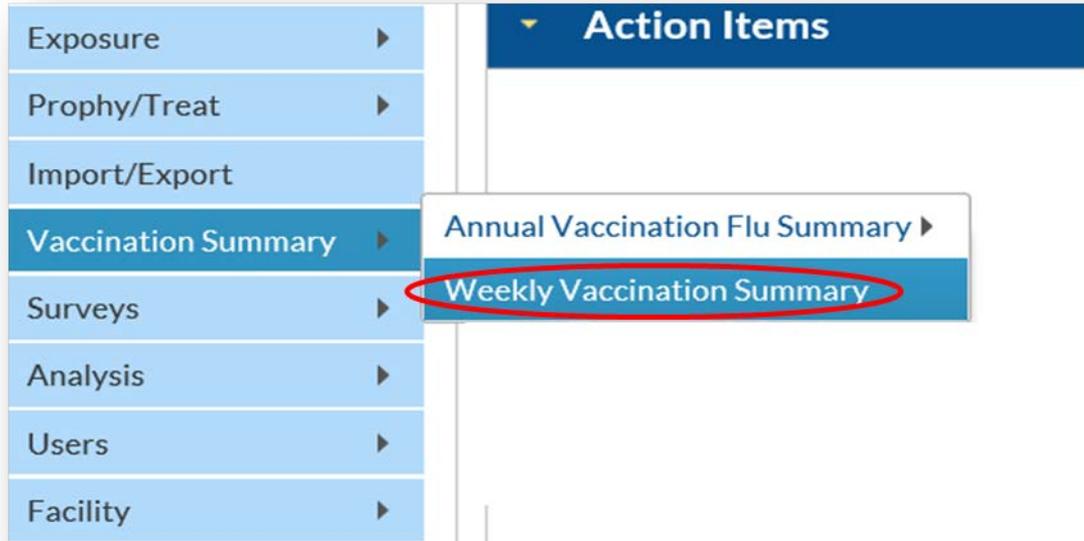


Select component:
Healthcare Personnel Safety ▼

Select facility/group:
 ▼

HPS Component Home Page

- Select 'Vaccination Summary' and 'Weekly Vaccination Summary' on the left-hand navigation bar



Entering Weekly Vaccination Data



Vaccination Summary Data



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>.

Prophy/Treat ▶	◀ 28 September 2020 - 08 November 2020 ▶	Record Complete	Record Incomplete
Import/Export	Weekly Vaccination Calendar		
Vaccination Summary ▶	09/28/2020 (Monday) - 10/04/2020 (Sunday)		
Surveys ▶			
Analysis ▶			
Users ▶	10/05/2020 (Monday) - 10/11/2020 (Sunday)		
Facility ▶			
Group ▶			
Health Monitor ▶	10/12/2020 (Monday) - 10/18/2020 (Sunday)		
Tools ▶			

Entering Weekly Vaccination Data (cont.)

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

Facility ID #: 17630 Location:

Vaccination type: Influenza Influenza subtype: Influenza Season: 2020/2021

Week of Data Collection: 10/26/2020 - 11/01/2020 Date Last Modified:

	Employee HCP	Non-Employee HCP		
	*Employees (staff on facility payroll)	*Licensed independent practitioners: Physicians, advanced practice nurses, & physician assistants	*Adult students/trainees & volunteers	Other Contract Personnel
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	<input type="text" value="80"/>	<input type="text" value="50"/>	<input type="text" value="20"/>	<input type="text"/>
2. Number of HCP in row #1 that received an influenza vaccination at this healthcare facility since influenza vaccine became available this season	<input type="text" value="60"/>	<input type="text" value="5"/>	<input type="text" value="20"/>	<input type="text"/>
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	<input type="text" value="20"/>	<input type="text" value="30"/>	<input type="text" value="0"/>	<input type="text"/>
4. Number of HCP in row #1 that have a medical contraindication to the influenza vaccine	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text"/>
5. Number of HCP in row #1 that declined to receive the influenza vaccine this season	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text"/>
6. Number of HCP in row #1 with unknown vaccination status (or criteria not met for questions 2-5 above)	<input type="text" value="0"/>	<input type="text" value="15"/>	<input type="text" value="0"/>	<input type="text"/>
Vaccine Availability				
7. Has your facility received its supply of influenza vaccine for the current influenza season?	<input type="text" value="Y - Yes"/>			
8. Is your facility currently experiencing a shortage of influenza vaccine for the current influenza season?	<input type="text" value="N - No"/>			
Custom Fields				
Comments				
<input type="text"/>				

Entering Weekly Vaccination Data (cont.)

 **Vaccination Summary Data**

 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>.

◀ [Calendar Icon] ▶ 28 September 2020 - 08 November 2020

Record Complete Record Incomplete

Weekly Vaccination Calendar

09/28/2020 (Monday) - 10/04/2020 (Sunday)	
🕒 Flu Vac	
10/05/2020 (Monday) - 10/11/2020 (Sunday)	
10/12/2020 (Monday) - 10/18/2020 (Sunday)	

Message

Successfully saved record.

OK

Editing Weekly Vaccination Data

NHSN Home

- Alerts
- Reporting Plan ▶
- HCW ▶
- Lab Test ▶
- Exposure ▶
- Prophy/Treat ▶
- Import/Export
- Vaccination Summary ▶**
- Surveys ▶
- Analysis ▶
- Users ▶
- Facility ▶

Vaccination Summary Data

Click a cell to begin entering data for the week which counts are reported.
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Editing Weekly Vaccination Data (cont.)

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2. Number of HCP in row #1 that received an influenza vaccination at this healthcare facility since influenza vaccine became available this season	<input type="text" value="60"/>	<input type="text" value="10"/>	<input type="text" value="20"/>	<input type="text"/>
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	<input type="text" value="20"/>	<input type="text" value="30"/>	<input type="text" value="0"/>	<input type="text"/>
4. Number of HCP in row #1 that have a medical contraindication to the influenza vaccine	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text"/>
5. Number of HCP in row #1 that declined to receive the influenza vaccine this season	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text"/>
6. Number of HCP in row #1 with unknown vaccination status (or criteria not met for questions 2-5 above)	<input type="text" value="0"/>	<input type="text" value="10"/>	<input type="text" value="0"/>	<input type="text"/>
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Custom Fields				
Comments				
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Reporting cumulative vaccination data

Reporting Cumulative Data for HCP

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2. Cumulative number of HCP in question #1 that received an influenza vaccination at this healthcare facility since influenza vaccine became available this season	50	60	70
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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

Surveillance for Healthcare Personnel Vaccination

- Training
- Protocols
- Forms
- Support Materials
- Analysis Resources
- FAQs



Visit: <https://www.cdc.gov/nhsn/enrolled-facilities/index.html> for training materials

- Click on facility type (e.g., acute care facilities)
- Click on “Surveillance for Healthcare Personnel Vaccination”

- Data collection forms
- Tables of Instructions
- Training slides

Questions or Need Help?

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

Please include 'Weekly Flu Summary' in
the subject line of the e-mail

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

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.