Reporting Weekly COVID-19 Vaccination Data

Division of Healthcare Quality Promotion
Immunization Services Division
CDC COVID-19 Vaccine Task Force

December 2020
Objectives

- Discuss the value of reporting weekly COVID-19 vaccination data
- Describe how facilities can track weekly COVID-19 vaccination of healthcare personnel (HCP)
- Review data reporting in detail
How can I use these data?
Why Should You Use NHSN?

- Facilities participating in NHSN can report weekly COVID-19 vaccination data through the Healthcare Personnel Safety (HPS) Component
  - Weekly reporting is currently optional

- The weekly COVID-19 vaccination modules are designed to allow reporting of vaccination percentages:
  - Consistent reporting over time within a single healthcare facility
  - Comparable across facilities

- Tracking and reporting allows identification of vaccination coverage gaps and targeting improvement efforts
Putting Data into Action

- Facilities can use data to obtain a better picture of COVID-19 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 technicians than among nurses
  - Improve vaccination tracking
    - Example: Implement automated tracking systems
Putting Data into Action (cont.)

- Data from the HCP Vaccination Module can inform decision-making
  - Provide jurisdictions with critical information that can guide COVID-19 planning and implementation including any issues with vaccine supply
  - Use data to inform various public health emergency response activities
    - Compare vaccine coverage with vaccine distribution data to assist federal planning
    - U.S. Department of Health and Human Services COVID-19 Tracking Systems
Which data can be reported each week?
Question #1: Number of HCP eligible to have worked at the facility

*Required:* Report the **total** number of HCP each week

- **Total 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 all individuals who have been identified to receive vaccination, not just those who have been prioritized first
  - Include workers on sick leave, maternity leave, and vacation
  - Include individuals who work part-time as well as full-time
Question #1: Number of HCP eligible to have worked at the facility

Optional: Report subtotals by HCP category

<table>
<thead>
<tr>
<th>Environmental services</th>
<th>Front-line persons who clean patient rooms and all areas in a healthcare facility</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nurses</td>
<td>Registered nurses and licensed practical/vocational nurses</td>
</tr>
<tr>
<td>Medical assistants and certified nursing assistants</td>
<td>Medical assistants and certified nursing assistants</td>
</tr>
<tr>
<td>Respiratory therapists</td>
<td>Certified medical professionals who specialize in knowledge and use of mechanical ventilation as well as other programs for respiratory care</td>
</tr>
<tr>
<td>Pharmacists and pharmacy technicians</td>
<td>Individuals serving as pharmacists or pharmacy technicians</td>
</tr>
<tr>
<td>Physicians</td>
<td>Attending physicians (MD, DO) and physician fellows</td>
</tr>
</tbody>
</table>
**Question #1: Number of HCP eligible to have worked at the facility (cont.)**

**Optional:** Report subtotals by HCP category

<table>
<thead>
<tr>
<th>Other licensed independent practitioners (advanced practice nurses; physician assistants)</th>
<th>Licensed independent practitioners, specifically advanced practice nurses and physician assistants; Advanced practice nurses include nurse practitioners, nurse midwives, clinical nurse specialists, and nurse anesthetists.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other HCP</td>
<td>Persons providing care, treatment, or services at the facility, regardless of clinical responsibility or patient contact, who were not reported in the HCP categories listed above. This also includes medical, nursing, or other health professionals, temporary workers, students, interns, medical residents, trainees, or volunteers.</td>
</tr>
</tbody>
</table>
Question #1: Number of HCP eligible to have worked at the facility

Key Points

- Same denominator used for COVID-19 and influenza weekly vaccination modules
  - Same definition of HCP eligible to work at the facility
  - Specific HCP categories

- HCP who work in two or more facilities should be included in each facility in which they are eligible to have worked
  - Individuals can become exposed or expose others in any facility in which they work

- HCP categories are mutually exclusive
  - Each individual should be counted in only one category
Question #2: HCP receiving COVID-19 vaccine

Required: Report the cumulative number of total vaccinated HCP

- Step 1: Select a COVID-19 vaccine from the drop-down box
  - Pfizer-BioNTech
  - Moderna
Question #2: HCP receiving COVID-19 vaccine (cont.)

Required: Report the cumulative number of total vaccinated HCP

- Step 2: Enter cumulative number of eligible HCP who received only one dose of vaccine
- Step 3: Enter cumulative number of eligible HCP who received dose 1 and dose 2 of vaccine
- Step 4: If HCP received another type of vaccine:
  - Select the vaccine from the drop-down box
  - Repeat steps 1-3
Question #2: HCP receiving COVID-19 vaccine (cont.)

**Optional:** Report cumulative number of vaccinated HCP for specific categories

- Same HCP categories as question #1
- If entering vaccination data for specific HCP categories
  - HCP receiving vaccine for specific HCP categories must not exceed total number of HCP receiving vaccine

![](Image)
Question #2: HCP receiving COVID-19 vaccine (cont.)

Key Points

- Include HCP receiving COVID-19 vaccine at the facility or elsewhere (such as a pharmacy)
  - HCP receiving vaccine elsewhere should provide documentation of vaccination, which includes vaccine type
  - If documentation is not provided, report these HCP in question #3.3 (unknown COVID-19 vaccination status)
- NHSN automatically calculates number of HCP completing vaccination courses
Question #2: HCP receiving COVID-19 vaccine

Key Points (cont.)

- **Cumulative Data**
  - Facilities should report cumulative data each week (rather than only new data)
    - Example:
      - Week 1: 10 physicians received only dose 1 of *Moderna* COVID-19 vaccine
      - Week 2: 5 more physicians received only dose 1 of *Moderna* COVID-19 vaccine
        - Facility should report 15 physicians received only dose 1 of *Moderna* COVID-19 vaccine by the end of week 2
Question #3: HCP with other conditions

**Required:** Report cumulative number of eligible HCP with a medical contraindication

**Optional:** Report cumulative number of eligible HCP with the following conditions:

- Offered but declined COVID-19 vaccine
- Unknown COVID-19 vaccination status
- History of laboratory-confirmed SARS-CoV-2 infection
Question #3: HCP with other conditions

**Key Points**

- Same HCP categories as question #1
- If entering data for specific HCP categories
  - Number of HCP with other conditions in specific HCP categories must not exceed total number of HCP with other conditions

<table>
<thead>
<tr>
<th>3. Cumulative number of HCP in Question #1 with other conditions:</th>
<th><em>All HCP (Total)</em></th>
<th>Environmental Services</th>
<th>Nurses(^a)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.1. <em>Medical contraindication to COVID-19 vaccine</em></td>
<td>2</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>3.2. Offered but declined COVID-19 vaccine</td>
<td>5</td>
<td>2</td>
<td>1</td>
</tr>
</tbody>
</table>
Question #4: COVID-19 vaccine(s) supply
Required: Answer two questions on vaccine supply at the facility each week

- Facilities enrolled as a COVID-19 vaccine provider
  - Receipt of any COVID-19 vaccine(s) by the end of the week of data collection
  - Sufficient COVID-19 vaccine supply to vaccinate facility’s prioritized HCP by the end of the week of data collection

- CDC encourages facilities to contact their state or local health jurisdiction
  - If there is insufficient supply of COVID-19 vaccine available
  - If facility is interested in becoming a COVID-19 vaccine provider
Question #5: Adverse events following COVID-19 vaccine(s)

**Required:** Total number of HCP with adverse events

- **Report clinically significant COVID-19 adverse events**
  - Clinically significant adverse events include:
    - Vaccine administration errors
    - Serious adverse events (such as death, life-threatening conditions, inpatient hospitalization, or persistent disability/incapacity)

- **Other clinically significant adverse events identified in Emergency Use Authorization fact sheets or prescribing information**
  - Pfizer and Moderna COVID-19 vaccines
    - Cases of Multisystem Inflammatory Syndrome
    - Cases of COVID-19 that result in hospitalization or death, that are reported to the vaccine manufacturer
**Question #5:** Adverse events following COVID-19 vaccine(s) (cont.)

**Required:** Total number of HCP with adverse events

- Enter data on total number of HCP with clinically significant COVID-19 adverse events identified this week (not cumulative)
  - Report data for HCP in question #1
  - Report data for each specific COVID-19 vaccine
    - Specific COVID-19 vaccine(s) selected in question #2 will auto-populate on the data entry screen
    - Report adverse events to any vaccine dose
    - Report adverse events to vaccine given at this facility or elsewhere
Question #5: Adverse events following COVID-19 vaccine(s) (cont.)

**Required:** Total number of HCP with adverse events

---

**Adverse Events following COVID-19 Vaccine(s)**

Clinically significant adverse events should be reported to the Vaccine Adverse Event Reporting System (VAERS) at [https://vaers.hhs.gov/reportevent.html](https://vaers.hhs.gov/reportevent.html).

To help identify reports from NHSN sites, please enter your **NHSN orgID** in Box 26 of the VAERS form.

Clinically significant adverse events include vaccine administration errors and serious adverse events (such as death, life-threatening conditions, or inpatient hospitalization) that occur after vaccination, even if it is not certain that vaccination caused the event.

Other clinically significant adverse events may be described in the provider emergency use authorization (EUA) fact sheets or prescribing information for the COVID-19 vaccine(s). Healthcare providers should comply with VAERS reporting requirements described in EUAs or prescribing information.

---

5. *Number of HCP with clinically significant COVID-19 vaccine adverse events identified this week

<table>
<thead>
<tr>
<th></th>
<th>All HCP (Total)</th>
<th>Employees</th>
<th>Non-employees</th>
</tr>
</thead>
<tbody>
<tr>
<td>* Pfizer-BioNTech COVID-19 vaccine</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Question #5: Adverse events following COVID-19 vaccine(s) (cont.)

Optional: Report number of employees and non-employees with adverse events

- Enter data on employees and non-employees with clinically significant COVID-19 adverse events identified this week (not cumulative)

- If entering data for employees and non-employees
  - Number of employees and non-employees with clinically significant COVID-19 adverse events must not exceed the total number of HCP with clinically significant COVID-19 adverse events

| 5. Number of HCP with clinically significant COVID-19 vaccine adverse events identified this week |
|-----------------------------------------------|-----------|-----------|-----------|
| 5.1 Pfizer-BioNTech COVID-19 vaccine          | 3         | 1         | 1         |
| 5.2 Moderna COVID-19 vaccine                  | 2         | 2         | 0         |
Question #5: Adverse events following COVID-19 vaccine(s) (cont.)

Key Points

- Healthcare providers should comply with the Vaccine Adverse Event Reporting System (VAERS) reporting requirements
  - Described in emergency use authorizations or prescribing information

- Report adverse events to VAERS at: https://vaers.hhs.gov/reportevent.html
  - Enter your NHSN OrgID in Box 26 of the VAERS form
Tables of Instructions

- Tables of instructions provide detailed definitions of the denominator and numerator categories
- Review instructions before collecting and entering data

<table>
<thead>
<tr>
<th>Data Fields</th>
<th>Instructions for Completion</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Nurses</strong> (registered nurses; licensed practical/vocational nurses)</td>
<td>Optional. Defined as registered nurses and licensed practical/vocational nurses.</td>
</tr>
<tr>
<td><strong>Medical assistants and certified nursing assistants</strong></td>
<td>Optional. Defined as medical assistants and certified nursing assistants.</td>
</tr>
<tr>
<td><strong>Respiratory therapists</strong></td>
<td>Optional. Defined as certified medical professionals who specialize in knowledge and use of mechanical ventilation as well as other programs for respiratory care.</td>
</tr>
<tr>
<td><strong>Pharmacists and pharmacy technicians</strong></td>
<td>Optional. Defined as individuals serving as pharmacists or pharmacy technicians.</td>
</tr>
<tr>
<td><strong>Physicians</strong> (attending physicians; fellows)</td>
<td>Optional. Defined as attending physicians (MD, DO) and physician fellows.</td>
</tr>
<tr>
<td><strong>Other licensed independent practitioners</strong></td>
<td>Optional. Defined as licensed independent practitioners, specifically advanced practice nurses and physician assistants. Advanced practice nurses include nurse practitioners, nurse midwives, clinical nurse specialists, and nurse anesthetists.</td>
</tr>
</tbody>
</table>
Tracking Worksheet

- Optional tool in an Excel spreadsheet format
- Auto-calculates answers to HCP vaccination data collection form

<table>
<thead>
<tr>
<th>Healthcare Personnel COVID-19 Vaccination Cumulative Summary for Non-Long-Term Care Facilities</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRACKING WORKSHEET</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>*Facility ID#:</th>
<th>12345</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vaccination type:</td>
<td>COVID_19</td>
</tr>
<tr>
<td>*First day of Reporting Week (Monday):</td>
<td>12/14/2020</td>
</tr>
<tr>
<td>Last day of the reporting week (Sunday):</td>
<td>12/20/2020</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>*HCP Start of Employment Date (Enter Date)</th>
<th>HCP End of Employment Date (Enter Date)</th>
<th>HCP Last Name (Enter name)</th>
<th>HCP First Name (Enter name)</th>
<th>Unique HCP Identifier (Enter DOB, License #, etc.)</th>
<th>Vaccinated with Dose 1 (Enter date of vaccination 1)</th>
<th>Vaccinated with Dose 2 (Enter date of vaccination 2)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

READ THIS - Instructions | TrackingWorksheet | ReportingSummary
How do I get started in NHSN?
NHSN Landing Page

- Select the HCP Safety Component
HCP Safety Component Home Page

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

<table>
<thead>
<tr>
<th>Date Range</th>
<th>Weekly Vaccination Calendar</th>
</tr>
</thead>
<tbody>
<tr>
<td>11/30/2020 - 12/06/2020</td>
<td>11/30/2020 (Monday) - 12/06/2020 (Sunday)</td>
</tr>
<tr>
<td>12/07/2020 - 12/13/2020</td>
<td>12/07/2020 (Monday) - 12/13/2020 (Sunday)</td>
</tr>
<tr>
<td>12/14/2020 - 12/20/2020</td>
<td>12/14/2020 (Monday) - 12/20/2020 (Sunday)</td>
</tr>
</tbody>
</table>
COVID-19 Vaccination Data
Saving COVID-19 Vaccination Data

Adverse Events following COVID-19 Vaccine(s)

Clinically significant adverse events should be reported to the Vaccine Adverse Event Reporting System (VAERS) at [https://vaers.hhs.gov/reportevent.html](https://vaers.hhs.gov/reportevent.html). To help identify reports from NHSN sites, please enter your NHSN orgID in Box 26 of the VAERS form.

Clinically significant adverse events include vaccine administration errors and serious adverse events (such as death, life-threatening conditions, or inpatient hospitalization) that occur after vaccination, even if it is not certain that vaccination caused the event.

Other clinically significant adverse events may be described in the provider emergency use authorization (EUA) fact sheets or prescribing information for the COVID-19 vaccine(s). Healthcare providers should comply with VAERS reporting requirements described in EUAs or prescribing information.

5. *Number of HCP with clinically significant COVID-19 vaccine adverse events identified this week*

<table>
<thead>
<tr>
<th>All HCP (Total)</th>
<th>Employees</th>
<th>Non-employees</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pfizer-BioNTech COVID-19 vaccine</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>
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. [https://vaers.hhs.gov/reportevent.html](https://vaers.hhs.gov/reportevent.html)

Weekly Vaccination Calendar:
- 11/30/2020 (Monday) - 12/06/2020 (Sunday)
  - COVID-19 Vac
- 12/07/2020 (Monday) - 12/13/2020 (Sunday)
  - COVID-19 Vac
- 12/14/2020 (Monday) - 12/20/2020 (Sunday)
  - COVID-19 Vac

Message
Successfully saved record.
Editing COVID-19 Vaccination Data

Weekly Vaccination Calendar

- 11/30/2020 (Monday) - 12/06/2020 (Sunday)
  - COVID-19 Vac

- 12/07/2020 (Monday) - 12/13/2020 (Sunday)
  - COVID-19 Vac

- 12/14/2020 (Monday) - 12/20/2020 (Sunday)
  - COVID-19 Vac
## Editing COVID-19 Vaccination Data (cont.)

### Edit COVID-19 Vaccination Summary Data

![Image of the Edit COVID-19 Vaccination Summary Data interface](image)

### Healthcare Personnel COVID-19 Vaccination Cumulative Summary for Non-Long-Term Care Facilities

**Facility ID #:** 14580  
**Vaccination type:** COVID19

**Week of Data Collection:** 12/14/2020 - 12/20/2020  
**Date Last Modified:** 12/16/2020 6:03AM

### Cumulative Vaccination Coverage

<table>
<thead>
<tr>
<th>Healthcare Personnel (HCP) Categories</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>All HCP (Total)</em></td>
</tr>
<tr>
<td>--------------------------------------</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:**  
   - 100

2. **Cumulative number** of HCP in Question #1 who have received COVID-19 vaccines at this facility or elsewhere:
   - PFIZER - Pfizer-BioNTech COVID-19 vaccine
   - 20

<sup>a</sup> Only dose 1 of Pfizer-BioNTech COVID-19 vaccine
Reporting cumulative vaccination data
# Reporting Cumulative Data for HCP

<table>
<thead>
<tr>
<th>Question</th>
<th>All HCP Jan. 4-10</th>
<th>All HCP Jan. 11-17</th>
<th>All HCP Jan. 18-24</th>
</tr>
</thead>
<tbody>
<tr>
<td>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</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. Cumulative number of HCP in question #1 who received dose 1 of Pfizer-BioNTech COVID-19 vaccine</td>
<td></td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>3. Cumulative number of HCP in question #1 who received dose 1 of Moderna COVID-19 vaccine</td>
<td></td>
<td></td>
<td>5</td>
</tr>
</tbody>
</table>
### Reporting Cumulative Data for HCP (cont.)

<table>
<thead>
<tr>
<th></th>
<th>All HCP Jan. 4-10</th>
<th>All HCP Jan. 11-17</th>
<th>All HCP Jan. 18-24</th>
</tr>
</thead>
<tbody>
<tr>
<td>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</td>
<td>50</td>
<td>50</td>
<td></td>
</tr>
<tr>
<td>2. Cumulative number of HCP in question #1 who received dose 1 of <em>Pfizer-BioNTech</em> COVID-19 vaccine</td>
<td>10</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>3. Cumulative number of HCP in question #1 who received dose 1 of <em>Moderna</em> COVID-19 vaccine</td>
<td>5</td>
<td>5</td>
<td></td>
</tr>
</tbody>
</table>
## Reporting Cumulative Data for HCP (cont.)

<table>
<thead>
<tr>
<th>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</th>
<th>All HCP Jan. 4-10</th>
<th>All HCP Jan. 11-17</th>
<th>All HCP Jan. 18-24</th>
</tr>
</thead>
<tbody>
<tr>
<td>50</td>
<td>50</td>
<td>50</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>2. Cumulative number of HCP in question #1 who received dose 1 of Pfizer-BioNTech COVID-19 vaccine</th>
<th>All HCP Jan. 4-10</th>
<th>All HCP Jan. 11-17</th>
<th>All HCP Jan. 18-24</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>15</td>
<td>20</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>3. Cumulative number of HCP in question #1 who received dose 1 of Moderna COVID-19 vaccine</th>
<th>All HCP Jan. 4-10</th>
<th>All HCP Jan. 11-17</th>
<th>All HCP Jan. 18-24</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>5</td>
<td>5</td>
<td></td>
</tr>
</tbody>
</table>
Resources
Resource: The NHSN Website

Access training materials at:

- Data collection forms
- Tables of instructions
- Training slides
- Analysis and reporting guides
- Tracking worksheet
Questions or Need Help?

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

Please include ‘Weekly COVID-19 Vaccination’ 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.