

Update on Healthcare Personnel Influenza Vaccination Reporting via the National Healthcare Safety Network

Megan C. Lindley

National Center for Immunization & Respiratory Diseases,
Centers for Disease Control and Prevention

National Vaccine Advisory Committee Meeting
September 9, 2015

Outline

- Context
- Current status of reporting
 - Acute care hospitals
 - Newly reporting facilities
 - Data limitations
- Implications for long-term care reporting

CONTEXT

Setting the Stage

- Measurement of and feedback on vaccination rates increases coverage^{1,2}
- NVAC recommended standardizing HCP vaccination measurement as part of reaching 90% coverage³
- Incentive programs for quality reporting by healthcare facilities receiving payment from CMS
 - Quality measures established by rule & updated annually
 - Non-reporters risk 2% decrease in annual payment update

1. Guide to Community Preventive Services – Vaccination: <http://www.thecommunityguide.org/vaccines/providerassessment.html>

2. Helms et al. Vaccine. 2011; 29:3483-3488.

3. NVAC report: http://www.hhs.gov/nvpo/nvac/influenza_subgroup_final_report.pdf

CDC Performance Measure Specifications

- Three required denominator categories:
 - Employees
 - Licensed independent practitioners
 - Adult students/trainees and volunteers
- Five numerator categories:
 - Vaccinated at facility
 - Vaccinated elsewhere & provided documentation
 - Medically contraindicated
 - Declined vaccination
 - Status unknown

CDC Measure Reporting Notes

- All HCP who physically work in the facility for one day or more between October 1 and March 31
- Regardless of clinical duties or patient contact
- Includes full- and part-time HCP, per diem/PRN, etc.
- Vaccination received any time between when vaccine becomes available and March 31
- Numerator data reported separately for each of the three required HCP groups (denominator categories)
- Single summary report for influenza season due May 15

CURRENT STATUS OF REPORTING

Reporting HCP Influenza Vaccination Summary Data via NHSN

- CDC measure for HCP influenza vaccination summary data included in CMS quality reporting programs:
 - Beginning January 1, 2013 for acute care hospitals
 - Beginning October 1, 2014 for long-term acute care hospitals (LTACs)
 - Beginning October 1, 2014 for inpatient rehabilitation facilities (IRFs)
 - Beginning October 1, 2014 for ambulatory surgery centers*
 - Beginning October 1, 2015 for inpatient psychiatric facilities (IPFs)
 - Beginning October 1, 2015 for outpatient dialysis facilities

* The reporting deadline for ambulatory surgery centers for the 2014-2015 influenza season has been extended to September 30, 2015; therefore, data will not be presented for these facilities.

Data Analysis

- All NHSN-enrolled facilities of the specified type
- Data aggregated within facility types to calculate proportions of HCP reported vaccinated for each of the three required denominator groups and overall
 - Aggregation mitigates the effect of wide ranges among states in the number of reporting facilities and the number of HCP working in those facilities*
- No denominator exclusions

* Tables of proportions of HCP reported vaccinated in acute care hospitals by state will be posted at <http://www.cdc.gov/nhsn/datastat/index.html>.

Proportion of HCP Reported Vaccinated, 2014-2015 Influenza Season: Hospitals

	Employees	Students, trainees & volunteers	Licensed independent practitioners	All HCP
No. hospitals reporting	4,120	3,815	3,944	4,120
No. (%) of HCP	5.8M (71%)	1.2M (15%)	1.1M (14%)	8.1M (100%)
Vaccinated %	88.6	83.8	65.1	84.5
Unknown %	4.8	13.9	32.4	10.0

* Preliminary data; do not cite without permission.

Source: Centers for Disease Control & Prevention National Healthcare Safety Network.

Improvements in Proportion Reported Vaccinated in Hospitals vs. 2013-2014

	2014-2015*	2013-2014**
Employees		
Vaccinated %	88.6	86.1
Unknown %	4.8	5.5
Students/trainees & volunteers		
Vaccinated %	83.8	79.9
Unknown %	13.9	16.5
Licensed independent practitioners		
Vaccinated %	65.1	61.9
Unknown %	32.4	35.0

* Preliminary data; do not cite without permission. Source: Centers for Disease Control & Prevention National Healthcare Safety Network.

** MMWR: http://www.cdc.gov/mmwr/preview/mmwrhtml/mm6337a2.htm?s_cid=mm6337a2_w

Proportion of HCP Reported Vaccinated, 2014-2015 Influenza Season: IRFs

	Employees	Students, trainees & volunteers	Licensed independent practitioners	All HCP
No. hospitals reporting	1,095	640	834	1,096
No. (%) of HCP	246,343 (65%)	60,035 (16%)	71,141 (19%)	377,519 (100%)
Vaccinated %	87.7	85.3	57.1	81.6
Unknown %	5.3	12.2	39.8	12.9

* Preliminary data; do not cite without permission.

Source: Centers for Disease Control & Prevention National Healthcare Safety Network.

Proportion of HCP Reported Vaccinated, 2014-2015 Influenza Season: LTACs

	Employees	Students, trainees & volunteers	Licensed independent practitioners	All HCP
No. hospitals reporting	475	315	459	475
No. (%) of HCP	98,460 (64%)	13,871 (9%)	41,139 (27%)	153,470 (100%)
Vaccinated %	83.5	90.7	57.2	77.1
Unknown %	8.0	6.9	39.8	16.4

* Preliminary data; do not cite without permission.

Source: Centers for Disease Control & Prevention National Healthcare Safety Network.

NHSN Data Limitations

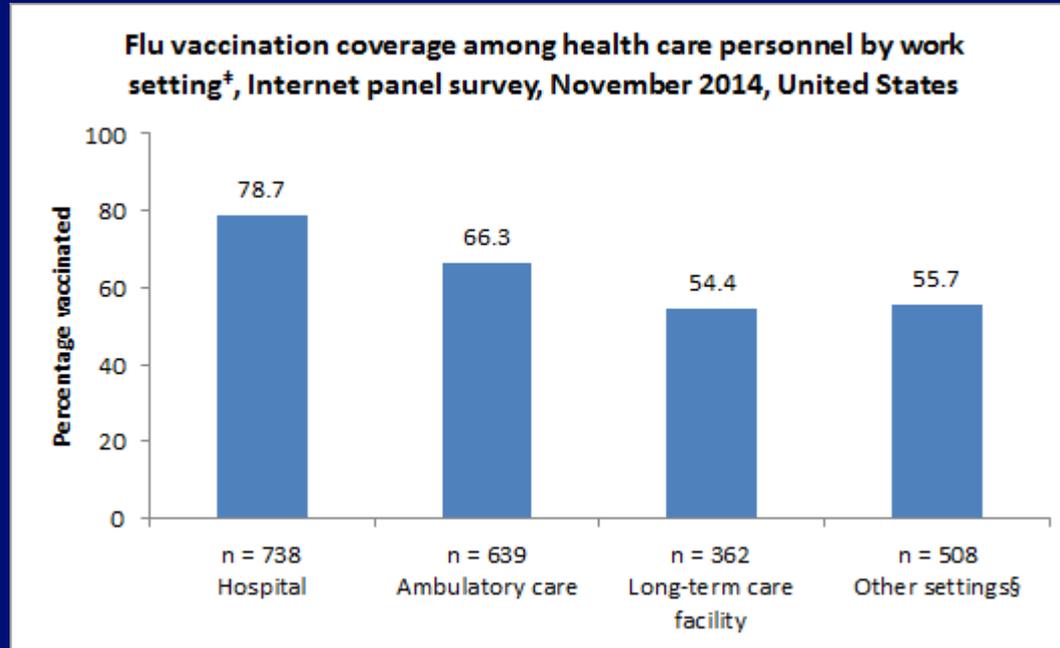
- Facilities are challenged to track and report data on licensed independent practitioners
 - Highly mobile and may access facility infrequently
- HCP are reported by all facilities in which they work; the number of unique HCP represented is likely smaller than indicated
- Variable hospital policies on documentation for vaccination elsewhere may limit comparability
- Not comparable to other sources of HCP influenza vaccination coverage estimates
 - Proportions are likely conservative

Comparison of NHSN with Other HCP Influenza Vaccination Data Sources

NHSN HCP Reporting	Other HCP Data Sources
HCP in specific facility types	HCP in all settings
Estimates for broad groups	Occupation-specific estimates
Facility-level summary data	Individual-level data
Near-census	Survey sample
Documentation for some elements	Self-reported
Tied to incentive & feedback loop	No incentive to report

IMPLICATIONS FOR LONG-TERM CARE REPORTING

Influenza Vaccination of HCP in Long-Term Care Facilities is Suboptimal



- HCP in long-term care facilities (LTCF) are most likely to report their employer neither requires nor promotes influenza vaccination
- The majority of HCP working in LTCF are assistants/aides, who have the lowest reported vaccination coverage**

* Data from <http://www.cdc.gov/flu/fluview/hcp-ips-nov2014.htm>. Final results for the 2014-2015 influenza season will be published in the MMWR on September 17, 2015.

** 2013-2014 panel survey results published in MMWR: http://www.cdc.gov/mmwr/preview/mmwrhtml/mm6337a1.htm?s_cid=mm6337a1_e

Could Long-Term Care Facilities Report HCP Influenza Vaccination via NHSN?

- **NHSN includes a Long-Term Care Component**
 - LTCF can report select healthcare-associated infections and prevention practice measures including HCP influenza vaccination
 - There are 254 active LTCF in NHSN as of August 27, 2015



- **The estimated number of LTCF that would need to be enrolled in NHSN for CMS quality reporting is over 12,000**
 - Current NHSN enrollment is 16,952 facilities
 - Facilities require ongoing training and user support

Questions?

MLindley@cdc.gov

For more information please contact Centers for Disease Control and Prevention

1600 Clifton Road NE, Atlanta, GA 30333

Telephone: 1-800-CDC-INFO (232-4636)/TTY: 1-888-232-6348

Visit: www.cdc.gov | Contact CDC at: 1-800-CDC-INFO or www.cdc.gov/info

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.