UPDATE ON INFLUENZA VACCINATION FOR HEALTH CARE PERSONNEL: RECENT COVERAGE, RECOMMENDATIONS, REPORTING, AND RESOURCES

Clinician Outreach and
Communication Activity (COCA)
Conference Call
November 15, 2011



Objectives

At the conclusion of this session, the participant will be able to accomplish the following:

- Discuss the importance of influenza vaccination in health care personnel
- State the influenza vaccination recommendations for health care personnel
- Identify the three groups of health care personnel covered by the new standardized influenza vaccination quality measure, and categorize vaccination status according to measure specifications
- Locate educational and promotional resources available for the 2011-2012 influenza season

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Influenza Vaccination Coverage Among Health Care Personnel—United States

2010-11 Influenza Season

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Influenza Vaccination Coverage Among Health Care Personnel

BACKGROUND

Influenza Vaccination of Health Care Personnel (HCP)

- HICPAC and ACIP recommend that all HCP be vaccinated annually against influenza
- □ Facilities that employ HCP are strongly encouraged to provide vaccinations to staff
- Recommendations apply to HCP in
 - Acute care hospitals
 - Nursing homes
 - Skilled nursing facilities
 - Physician's offices
 - Urgent care centers
 - Outpatient clinics
 - Dialysis centers
- ...and to persons who provide
 - Home health care
 - Emergency medical services



Morbidity and Mortality Weekly Report

Recommendations and Reports

February 24, 2006 / Vol. 55 / No. RR-2

Influenza Vaccination of Health-Care Personnel

Recommendations of the Healthcare Infection Control Practices Advisory Committee (HICPAC) and the Advisory Committee on Immunization Practices (ACIP)







DEPARTMENT OF HEALTH AND HUMAN SERVICES
CENTERS FOR DISEASE CONTROL AND PREVENTION

Health Care Personnel (HCP)

- Physicians / Dentists
- Nurse Practitioners / Physician Assistants
- Nurses
- Allied Health Professionals
 - Pharmacists
 - Dieticians
 - Physical, Occupational Respiratory Therapists
 - Dental Hygienists
- Technicians
 - Radiology
 - Clinical
 - Laboratory

- Assistants / Aides
 - Nurses' aides
 - Home health aides
 - Orderlies
 - Attendants
- Administrative
 - Admin support
 - Billing staff
 - Managers
- Nonclinical Support
 - Food service
 - Maintenance
 - Housekeeping
 - Janitors
- Other

Influenza Vaccination Coverage Among Health Care Personnel (HCP)

- Influenza vaccination coverage among HCP has increased slowly over past decade
 - Healthy People 2020 target for HCP: 90%
 - Below 50% coverage before 2009-10 season
 - Approximately 62% during 2009-10 season
- Study Objective: Internet panel survey to estimate
 - Influenza vaccination coverage for 2010-11 season
 - Knowledge, attitudes, behaviors regarding influenza vaccination



Morbidity and Mortality Weekly Report August 19, 2011

Influenza Vaccination Coverage Among Health-Care Personnel — United States, 2010–11 Influenza Season

The Advisory Committee on Immunization Practices (ACIP) and the Healthcare Infection Control Practices Advisory Committee recommend that all U.S. health-care personnel (HCP) be vaccinated annually against influenza (1). Nonetheless, influenza vaccination coverage among HCP in the United States has increased slowly over the past decade (2,3); during the 2009-10 influenza season, 61.9% of HCP received seasonal influenza vaccination (4). To update data with estimates from the 2010-11 influenza season, CDC conducted an Internet-based survey of 1,931 HCP who participated in three online survey panels. This report summarizes the results of that survey, which indicated that overall influenza vaccination coverage among HCP was 63.5% during the 2010-11 influenza season, similar to coverage for the 2009-10 season. Among HCP who reported working at a facility where vaccination was required by their employer, 98.1% were vaccinated. Among HCP without such an employer requirement but who were offered vaccination onsite, greater coverage was associated with a personal reminder from the employer to get vaccinated (69.9%), vaccination availability at no cost (67.9%), and vaccination availability for >1 day (68.8%). Influenza vaccination of HCP is needed to protect patients from HCP-transmitted disease. Maximizing influenza vaccination for all HCP is an important part of any comprehensive infection-control program.

To monitor 2010-11 influenza vaccination coverage among HCP, during April 1-27, 2011, CDC conducted a web-based survey of eligible HCP participating in three online survey panels. A total of 1,150 self-identified HCP were recruited from an online research panel operated by Knowledge Networks, Inc.*; an additional 534 persons were sampled from a specialized research panel composed primarily of physician specialists recruited through sources such as the American Medical Association master file, and 247 self-identified HCP

docs/knowledgepanel(r)-design-summary-description.pdf

of persons recruited through web advertising who agreed to participate in exchange for small amounts of financial compensation (i.e., \$10 or less per survey). The total sample of 1,931 from all three sources was weighted to be nationally representative of demographic and geographic characteristics of the U.S. population of HCP as reflected in the most recent Current Population Survey. Statistical significance of weighted differences was determined by Wald chi-square tests (p<0.05). Factors associated with increased vaccination coverage were assessed in a multivariable logistic regression model. The survey measured self-reported influenza vaccination from August 2010 through approximately mid-April 2011. Among the HCP, 63.5% reported receiving a 2010-11

were sampled from a marketing research panel composed

influenza vaccination (Table 1).5 Vaccination coverage was higher among HCP working in hospitals (71.1%), compared with those working in ambulatory or outpatient centers (61.5%), patient homes (53.6%), and "other" health-care settings (46.7%). Vaccination coverage among physicians and dentists (84.2%) was similar to coverage among nurse practitioners and physician assistants (82.6%) and was significantly higher than for those working in all other occupational groups (Table 1).

Available at http://www.cetruta.gov/epa.
Responded "yes" to the question "Have you received an influenza vaccination this past influenza season (August 2010 through April 2011)?"

1078 Influenza Vaccination Coverage Among Pregnant Women — United States, 2010-11 Influenza Season

1083 Legionellosis — United States, 2000–2009 1087 Notes from the Field: Transplant-Transmitted

Hepatitis B Virus - United States, 2010

1088 Notice to Readers: Final 2010 Reports of Nationally Notifiable Infectious Diseases



U.S. Department of Health and Human Services Centers for Disease Control and Prevention

Influenza Vaccination Coverage Among Health Care Personnel

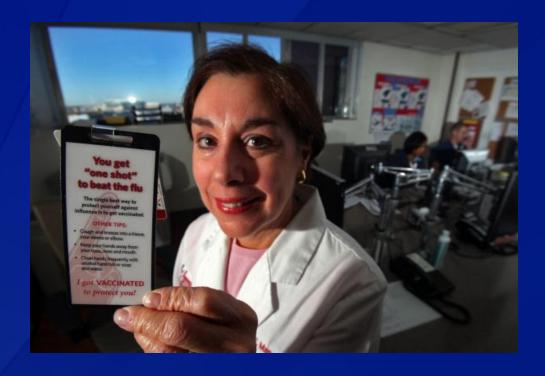
METHODS

Methods

- Survey measured self-reported uptake of influenza vaccination from August 2010 through mid-April 2011
- Web-based questionnaire, April 1-27, 2011
- Sample of 1,931 eligible HCP members of three online survey panels
- Estimates approximate the cumulative proportion of HCP vaccinated during 2010-11 influenza season
- Statistical significance of weighted differences determined by Wald chi-square tests (p<0.05)
- Factors associated with increased vaccination coverage assessed in a multivariable logistic regression model

Health Care Personnel Internet Panel Survey

- Three online research panels
 - Combined
 - Weighted to be geographically and demographically representative of US HCP population
- Eligible respondents
 - Hospital, ambulatory care, nursing or residential care facility, home health, or other health-related setting
 - Hands-on care of patients (e.g., firefighters or other first responders)



Influenza Vaccination Coverage Among Health Care Personnel

RESULTS

Survey Sample

Panel 1 n=1,150

Self-identified HCP participating in an online research panel

Panel 2 n=534

Specialized research panel—primarily physician specialists recruited through AMA master file

Panel 3

n=247

Self-identified HCP samples from marketing research panel recruited through web advertising *

Survey Sample[†]

n=1,931

^{*} Small amounts of financial compensation (eg, \$10 or less per survey)

[†] Survey sample weighted to be nationally representative of demographic and geographic characteristics of the US population of HCP as reflected in the most recent Current Population Survey. http://www.census.gov/cps

Survey Sample Characteristics

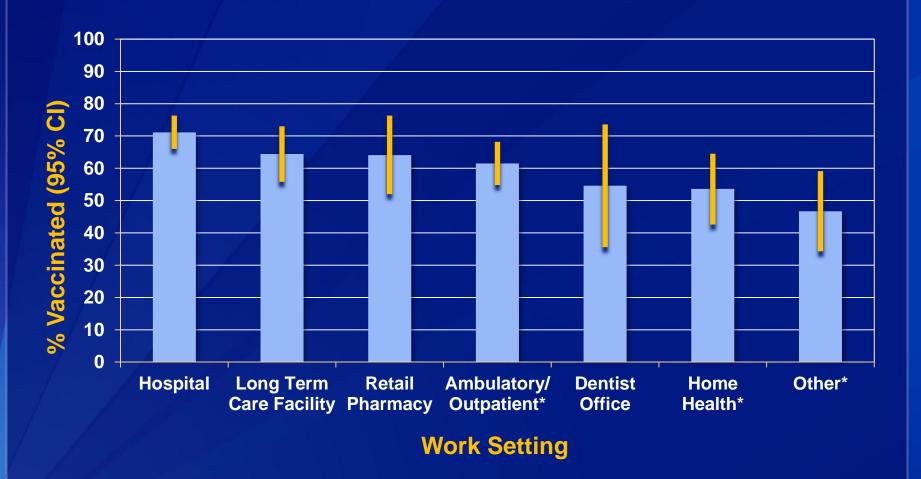
	Unweighted no. in sample	% Vaccinated*	95% CI
Overall	1,931	63.5	60.2 – 66.8
Age Group (years)			
18-29 [¶]	276	56.4	48.2 – 64.6
30-44¶	564	57.8	51.7 – 64.0
45-59	844	69.0	64.0 – 73.9
≥60	246	74.2	66.3 – 82.1
Race/Ethnicity			
White, non-Hispanic	1,252	66.6	63.0 – 70.1
Black, non-Hispanic	257	61.1	51.0 – 71.2
Hispanic	289	57.6	45.3 – 69.9
Mixed race, non-Hispanic	37	38.9	17.9 – 60.0
Other, non-Hispanic	96	54.8	38.8 – 70.8

CI = confidence interval.

^{*} Weighted estimate.

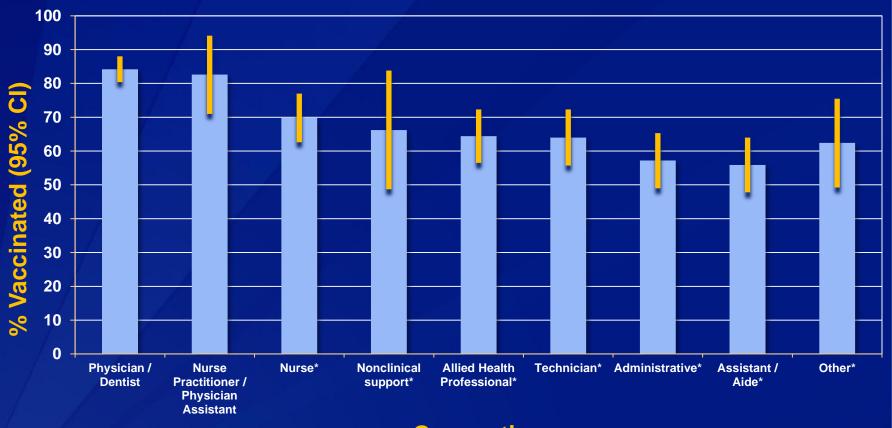
[¶] Significantly different from those aged ≥60 years (p<0.05).

Influenza vaccination coverage among health care personnel by work setting—United States, 2010-11



* Significantly different from those in hospital settings (p<0.05).

Influenza vaccination coverage among health care personnel by occupation—United States, 2010-11



Occupation

^{*} Significantly different from physicians or dentists (p<0.05).

Influenza vaccination coverage among health care personnel by reported employer requirement United States, 2010-11

- Approximately 13% of HCP reported being required by their employers to be vaccinated for influenza
- □ Coverage among those subject to an employer requirement for vaccination was significantly different than among those without an employer requirement (p<0.05)</p>



Required by employer to be vaccinated

Beliefs regarding influenza vaccination among health care personnel by influenza vaccination status—United States, 2010-11

Flu vaccination is safe

Worth the time/expense

Flu vaccination can protect me

People around me are at risk

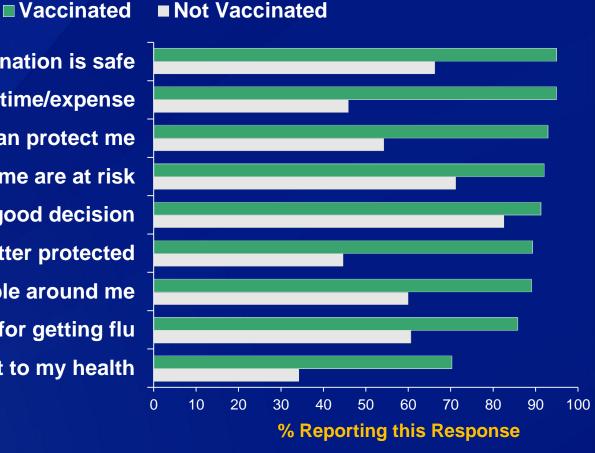
I know enough to make a good decision

People around me will be better protected

Serious health threat to people around me

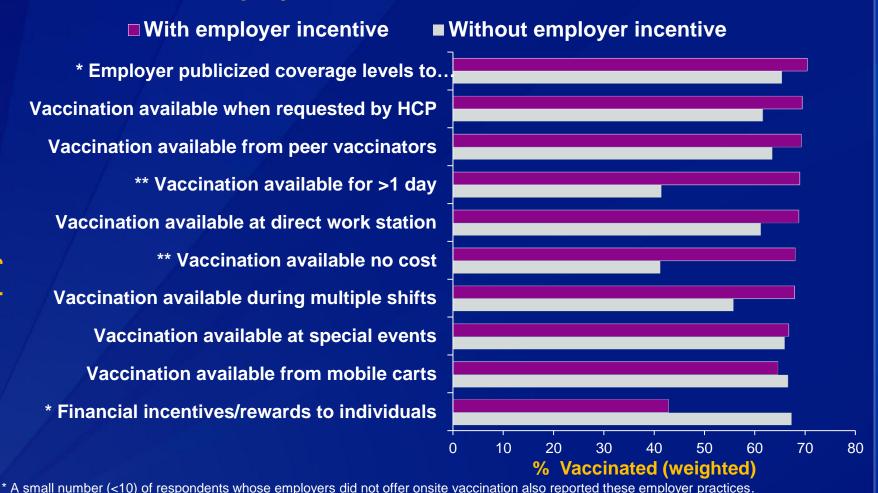
I am at risk for getting flu

Flu is a serious threat to my health



All estimates for those not vaccinated were significantly different from the estimates for those vaccinated (p<0.05).

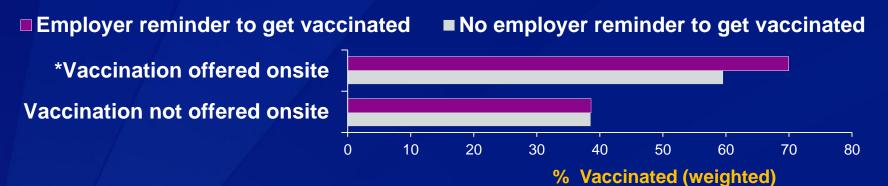
Employer incentives for influenza vaccination among health care personnel—United States, 2010-11 Employer offered onsite vaccination



^{**}Significantly different when compared with employees with applicable employer incentive (p<0.05).

Employer incentives for influenza vaccination among health care personnel—United States, 2010-11

Personally reminded by employer to get vaccinated



Employer publicized risks and benefits of vaccination



^{*} Employees without applicable employer incentive were significantly different than those with employer incentive (p<0.05).

Factors associated with increased influenza vaccination coverage among HCP

- Employer incentives associated with being vaccinated
 - Personal reminder to be vaccinated: OR 1.6 (95% CI 1.1 2.3)
 - Vaccine availability at no cost and for >1 day (composite variable): OR 2.8 (95% CI 1.7 - 4.5)
- Model limited to HCP with no employer requirement, but offered onsite vaccination
- Controlled for
 - Demographic characteristics
 - Other employer incentives

HCP: Health Care Personnel; OR: Odds Ratio; CI: Confidence Interval Other employer incentives were not associated with being vaccinated in the model.



Influenza Vaccination Coverage Among Health Care Personnel

CONCLUSIONS

Summary

- Influenza vaccination coverage among HCP for 2010-11 season: 63.5%
- Highest influenza vaccination coverage
 - Physicians, dentists, nurse practitioners, physician assistants
 - HCP in hospital settings
 - Older HCP
- Employment requirement for HCP vaccination
 - Where employment requirement, HCP coverage: 98.1%
 - Only 13% of US HCP subject to such requirement
 - Where no employment requirement, increased coverage associated with vaccination offered at work, free of charge for more than one day

Limitations

- Sample not necessarily representative of all HCP
- Results are self-report
- Selection bias if participation in survey correlated with receipt of vaccination or certain beliefs
- Definition of HCP might vary from definitions used in other surveys of vaccination coverage
- Based on how the questions were asked, results might reflect select sample of HCP who reported they work in a facility with mandates

Conclusions

- Efforts to educate HCP should continue
 - Safety of the vaccine
 - Importance of vaccination to prevent influenza for themselves, their friends, families, patients
 - HCP working in non-hospital settings and occupations with lower coverage may be particularly important
- Offering vaccination to HCP at workplaces may increase vaccination coverage among this population
- Health-care facilities should develop a comprehensive influenza vaccination strategy that uses a combination of approaches demonstrated to be effective in increasing vaccination coverage, such as education and accessible vaccination at no cost to HCP

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 - Katherine Harris, PhD
 - Lori Uscher-Pines, PhD
- Survey respondents

Further Information

Influenza Vaccination:

http://www.cdc.gov/flu/professionals/vaccination/

Information for Health Care Workers:

http://www.cdc.gov/flu/HealthcareWorkers.htm

FluVaxView: Influenza Vaccination Coverage

http://www.cdc.gov/flu/professionals/vaccination/vaccinecoverage.htm

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

E-mail: cdcinfo@cdc.gov Web: 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.



Influenza Vaccine Recommendations for Health-care Personnel



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Disclosures



The presenter is a federal government employee with no financial interest or conflict with the manufacturer of any product named in this presentation

The presenter will not discuss the offlabel use of any vaccine

The presenter will not discuss a vaccine not currently licensed by the FDA

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Overview



- Influenza vaccine recommendations
- Vaccine formulations
- Perceptions of influenza vaccine







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Influenza Vaccination Recommendation



Annual influenza vaccination is now recommended for every person in the United States 6 months of age and older

MMWR 2010;59(RR-8)

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Why a Yearly Influenza Vaccination



- Influenza vaccine

 (inactivated) expires June 30
 each year
- Surface antigens drift
- Antibodies wane during the year

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Duration of Immunity Following Influenza Vaccination



There is no clear evidence that immunity declines more rapidly in the elderly

Additional vaccine doses during the same season do not increase the antibody response

The frequency of breakthrough infections has not been shown to be higher among persons vaccinated early in the season

Skowronski et al. *J Infect Dis* 2008;197:490-502

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Influenza Vaccine Presentations 2011 2012

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Vaccine	Doseform	Age
Fluzone TIV (sanofi pasteur) Fluzone ID Fluzone High-Dose TIV	SDS, SDV, MDV SDS SDS	6 months and older 18-64 years 65 years and older
Fluarix TIV FluLaval TIV (GSK)	SDS MDV	3 years and older 18 years and older
Fluvirin TIV Agriflu TIV (Novartis)	SDS, MDV SDS	4 years and older 18 years and older
Afluria TIV (CSL)	SDS	9 years and older
Flumist LAIV (MedImmune)	Nasal spray	2-49 years (healthy, nonpregnant)

SDS=single dose syringe; SDV=single dose vial; MDV=multidose vial



Influenza Vaccine Supply



By October 31, 2011 124.9 million doses distributed

~ 50 million doses more to be distributed

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Pregnant Health-care Workers



- Receive TIV only
- High risk recommended for influenza vaccination
- Risk of hospitalization 4 times higher than nonpregnant women
- Risk of complications comparable to nonpregnant women with high risk medical conditions
- Vaccination recommended regardless of trimester

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Effectiveness of Influenza Vaccination of Pregnant Women in Reducing Hospitalization of Infants



	Cases Controls			
Mother vaccinated	2 (2%)	31 (20%)		
Mother unvaccinated	89 (98%)	21 (80%)		
Vaccine Effectiveness	92%			

Cases were children younger than 6 months of age hospitalized with culture-confirmed influenza. *Clin Infect Dis* 2010;51:1355-61

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Reasons HCP Do Not Receive Influenza Vaccine



- Concern about vaccine adverse events
- Perception of a low personal risk of influenza virus infection
- Perceived ineffectiveness of the influenza vaccine
- Insufficient time or inconvenience
- Avoidance of all medications
- Fear of needles SAFER•HEALTHIER•PEOPLE™



Strategies to Improve HCP Confidence Vaccination Levels

- Education
- Role models
- Reduction of financial and time barriers
- Monitor and report influenza vaccination levels in the facility
- Signed vaccination declination*
- Legislation and regulation

*available from the Immunization Action Coalition www.immunize.org

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Influenza Vaccination of Healthcare Personnel



 Reduces absenteeism of hospital staff by 22-52%

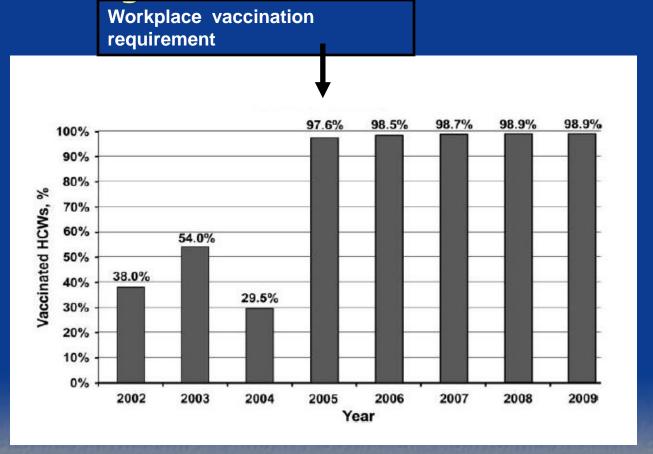
 Reduces mortality of long-term care facility patients by 42-44%

MMWR 55(RR2), 2006



Impact of HCP Influenza Vaccination Requirement – Virginia Mason Medical Center





Rakiita RM et al. *Infect Cont Hosp Epi* 2010;31:881-9

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Reporting Healthcare Personnel Influenza Vaccination: Pilot Study and CMS Final Rule

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National Center for Immunization &
Respiratory Diseases

The findings and conclusions in this presentation have not been formally disseminated by CDC and should not be construed to represent any agency determination or policy

Background

- A 2006 study showed a substantial lack of uniformity in the way U.S. hospitals measure HCP vaccination rates
- Since 2007, Joint Commission accreditation requires hospitals and long-term care organizations to annually measure influenza vaccination rates for staff & licensed independent practitioners
- The National Quality Forum recently issued a time-limited endorsement to a CDC-sponsored standardized measure ('NQF measure') for reporting HCP influenza vaccination rates

Pilot Objectives

- In collaboration with four states/localities:
 - Determine, for reporting HCP influenza vaccination in a variety of healthcare institutions, the feasibility of implementing the NQF measure

 Identify barriers to and facilitators of measure implementation

Methods: Data Collection

- Using web-based surveys, collect:
 - Characteristics of institution and its influenza vaccination program
 - Processes for collecting vaccination data
 - Perceived barriers to reporting HCP vaccination data using NQF measure
 - Aggregate vaccination data (numerator) and number of HCP working at institution (denominator)

Methods: Denominator

- All paid and unpaid HCP, working full- or parttime for <u>at least one day</u> between October 1, 2010 and March 31, 2011
- Reported in 3 mutually exclusive groups:
 - —Employees
 - —Credentialed non-employees
 - —Other non-employees

Methods: Numerator

- Four mutually exclusive categories:
 - HCP who received influenza vaccination offered by institution
 - —HCP who received influenza vaccination elsewhere
 - —HCP determined to have a medical contraindication to influenza vaccination
 - —HCP who declined influenza vaccination for non-medical reasons*

^{*}Only vaccination status for which documentation was required per protocol. Undocumented declinations were categorized as vaccination status unknown and not reported.

Data Collection Tool

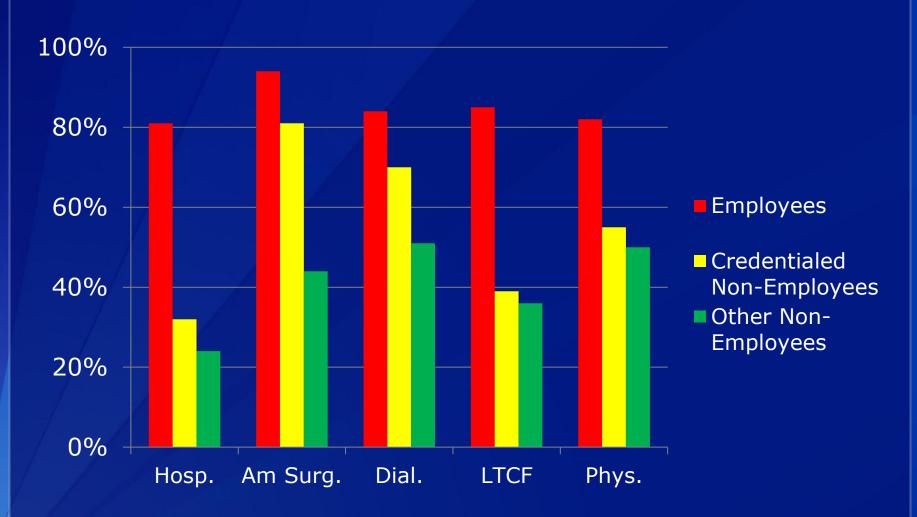
Denominator Information						
Total number of persons who	Employees	Non-employees, Credentialed	Non-employees, Other			
Worked at this healthcare institution at least one day between October 1, 2010 and March 31, 2011						

	Numerator Information		
Total number of persons who	Employees	Non-employees, Credentialed	Non-employees, Other
Received an influenza vaccine at this healthcare institution since August 2010			
Received an influenza vaccine elsewhere			
Have a medical contraindication for the influenza vaccine			
Declined to receive the influenza vaccine for non- medical reasons			

Results

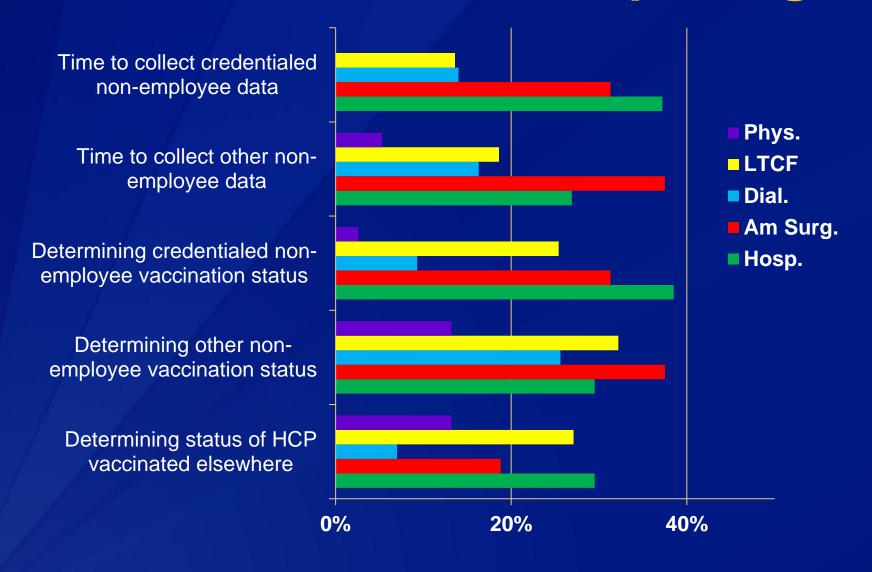
- Of 318 institutions recruited, 234 completed all three surveys (cumulative response rate: 74%)
 - 78 acute care hospitals
 - 16 ambulatory surgery centers
 - 43 dialysis clinics
 - 59 long-term care facilities (LTCFs)
 - 38 physician practices

Results: Ability to Count HCP



*Bars represent proportion reporting "easy" or "very easy" to count HCP

Results: Barriers to Reporting



Results: Difficulty Reporting Denominator

	Hosp.	Am Surg.	Dial.	LTCF	Phys.
% unable to report employees	0%	0%	0%	0%	0%
% unable to report credentialed non-employees	13%	6%	0%	5%	0%
% unable to report other non- employees	13%	6%	5%	3%	3%

Results: Difficulty Reporting Numerator

	Hosp.	Am Surg.	Dial.	LTCF	Phys.
% unable to report HCP vaccinated at institution	0%-12%	0%-19%	0%-14%	0%-10%	0%-5%
% unable to report HCP vaccinated elsewhere	15%- 39%	6% -38%	0%-16%	9% -31%	0%-5%
% unable to report contraindicated HCP	21%- 44%	6%- 38%	0%-19%	19%- 37%	3%-5%
% unable to report non-medical declinations	15%- 37%	6% -38%	0%-16%	14%- 37%	0%-5%

Changes to Proposed Measure

- Balance need for a comprehensive measure with feasibility concerns
- Denominator: restriction of non-employee groups to specific types of HCP:
 - Credentialed: non-employee physicians, advanced practice nurses, & physician assistants
 - Other: students/trainees and volunteers
- Numerator: added "unknown" category
- Timeframe: Worked ≥30 days vs. ≥1 day
- Documentation not required for declination

Revised Measure Proposed to NQF

- Numerator: 5 mutually exclusive categories:
 - —HCP vaccinated by institution
 - —HCP vaccinated elsewhere
 - —HCP with medical contraindication to vaccination
 - —HCP who declined vaccination (non-medical)
 - —HCP with unknown vaccination status
- Denominator: HCP working full- or part-time for ≥30 days between October 1-March 31
 - —Employees
 - —Licensed independent practitioners
 - —Students/trainees and volunteers

Impact of Measure

- Revised measure submitted to NQF in July 2011 to request full endorsement
- Availability of a standardized, feasibility-tested measure for HCP vaccination
 - Voluntary reporting initiatives
 - Institutional/state reporting requirements
- CDC's National Healthcare Safety Network (NHSN) reporting system will use endorsed measure in new module for reporting aggregate HCP influenza vaccination

Impact of Measure (2)

- The Centers for Medicare & Medicaid Services' (CMS) Hospital Inpatient Quality Reporting Program requires acute care hospitals to report a set of quality measures or receive decreased annual payment update
 - CMS published a final rule in August 2011 that includes HCP influenza vaccination as calculated by this measure in the Hospital IQR program
 - Reporting will be done through NHSN and will begin in January 2013

Flu Resources for Health Care Personnel Austyn Dukes



Outreach & Resources for Health Care Personnel

- Distribution of CDC Key Points
- U.S. and International Surveillance Report
- 2011-2012 Master Key Messages Document
- Partner calls
- Education and Training (i.e. webinars and netconferences)

http://www.cdc.gov/flu/professionals/

- Interactive Coverage Data Reports
- Streaming Videos
- Matte articles



Outreach & Resources for Health Care Personnel

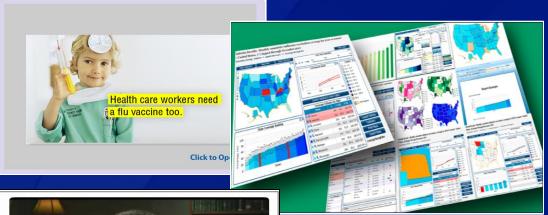
- Customizable print materials
- Medscape commentaries
- iPad Application
- Influenza Round Tables
- Twitter, Facebook, ecards, and other social media tools
- http://www.cdc.gov/vaccines/hcp.htm



Samples: Health Care Personnel Resources



CME/CE Released: 11/30/2010; Valid for credit through 11/30/2011





SEARCH



EDUCATION ₹ NEWS REFERENCE A Wilder (Log Out) Connect My Account Medscape Education V Search Medscape From Medscape Education Infectious Diseases Supported by a contract from the Real Talk About Influenza Vaccine Safety -- Be Informed and Be Centers for Disease Control and Prevention. Immunization Safety Office Prepared CME/CE William L. Atkinson, MD, MPH; Karen R. Broder, MD; Timothy M. Uyeki, MD, MPH, MPP Authors and Disclosures

Samples: Patient Education www.cdc.gov/flu/freeresources

you are at high risk for flu complications

(this means if you get the flu, you are more likely to be seriously ill) because you have ...

- ☐ Asthma
- □ Diabetes ☐ Heart disease
- Other chronic medical condition(s)
- Or are 65 years or older

As your doctor, I recommend that you:

- · Get a flu vaccine every year, as soon as vaccine is available. While everyone 6 months of age and older should get an annual flu vaccine, it's especially important for people at high risk of serious flu complications. High risk patients are recommended to receive the flu shot, not the nasal spray flu vaccine.
- Ask family and caregivers to get a flu vaccine to protect you.
- If you're 65 years or older, you should get either a regular flu shot or a high-dose flu shot designed for your age group. You should not get the new intradermal shot or nasal spray flu vaccine.

Find information about the different flu vaccines and who they are approved for at http://www.cdc.gov/flu/protect/keyfacts.htm

Find a clinic near you at www.cdc.gov/whereyoulive.

* Thete are some grople who should not get a flav actine, for instance, people who have had a severe leaction to a flu vaccine of any of its companents in the past, for mote information about who should and who should not get vaccinated, with http://www.ock.gov/fluip/instra/wholwald.frac.htm.

Doctor's signature or office stareo



U.S. Department of Hea**§th** and Human Services

To learn more, visit www.cdc.gov/flu THE FLU ENDS WITH (1) Get the flu vaccine, not the flu.



INFLUENZA VACCINE WHAT YOU NEED TO KNOW 2011-12 Many Vacable information for the benefit are an available in Signation and other temporage. See Meet Instruction copylin Plays in information forther National water disputches are an equality or in multical state (Associated Management and Associated Management Mana

1 Why get vaccinated?

Influence ("flu") is a contactions disease.

It is caused by the influenza virus, which can be spread by coughing, sneezing, or nasal secretions.

Anyone can get influenza, but rates of infection are highest among children. For most people, symptoms last only a few days. They include:

• fever/chills • sore throat • muscle aches • fatigue cough - headache - runny or stuffy nose

Other illnesses can have the same symptoms and are often mistaken for influenza.

Young children, people 65 and older, pregnant women, and people with certain health conditions - such as heart, lung or kidney disease, or a weakened immune system - can get much sicker. Flu can cause high fever and engamonia, and make existing medical conditions worse. It can cause diarrhea and seizures in children. Each year thousands of people die from influenza and even more require hospitalization.

By getting flu vaccine you can protect yourself from influenza and may also avoid spreading influenza to others.

(2 Inactivated influenza vaccine

There are two types of influenza vaccine: 1. Inscrivated (killed) vaccine, the "flu shot," is given by micetion with a needle.

2. Live, attenuated (weakened) influenza vaccine is sprayed into the nostrils. This vaccine is described in a separate Vaccine Information Statement.

A "high-dose" inactivated influenza vaccine is available for people 65 years of age and older. Ask your doctor for

Influenza viruses are always changing, so annual vaccination is recommended. Each year scientists try to match the viruses in the vaccine to those most likely to cause flu that year. Flu vaccine will not prevent disease from other viruses, including flu viruses not contained in

It takes up to 2 weeks for protection to develop after the shot. Protection lasts about a year.

All people 6 menths of age and older should get flu Vaccination is especially important for people at higher

Some inactivated influenza vaccine contains a preservative

called thimerosal. Thimerosal-free influenza vaccine is

Who should get inactivated

influenza vaccine and when?

available. Ask your doctor for more information.

risk of severe influenza and their close contacts, including healthcare personnel and close contacts of children younger than 6 months.

Get the vaccine as soon as it is available. This should provide protection if the flu season comes early. You can get the vaccine as long as illness is occurring in your

Influenza can occur at any time, but most influenza occurs from October through May. In recent seasons, most infections have occurred in January and February. Getting vaccinated in December, or even later, will still be beneficial in most years.

Adults and older children need one dose of influenza vaccine each year. But some children younger than 9 years of age need two doses to be protected. Ask your doctor.

Influenza vaccine may be given at the same time as other vaccines, including pneumococcal vaccine.

Some people should not get inactivated influenza vaccine or I should wait

- · Tell your doctor if you have any severe (life-threatening) allergies, including a severe allergy to eggs. A severe allergy to any vaccine component may be a reason not to get the vaccine. Allergic reactions to influenza vaccine
- . Tell your doctor if you ever had a severe reaction after a dose of influenza vaccine.
- · Tell your doctor if you ever had Guillain-Barré

fluinbox@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

E-mail: cdcinfo@cdc.gov Web: 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.





Centers for Disease Control and Prevention Atlanta, Georgia

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Thank you for joining! Please email us questions at coca@cdc.gov

Emergency Preparedness and Response

Emergency Preparedness & Response

Specific Hazards

Preparedness for All Hazards

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Blog: Public Health Matters

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A - Z Index

Update on Influenza Vaccination for Health Care Personnel: Recent Coverage, Recommendations, Reporting, and Resources

CE = Continuing Education Credits

Date: Tuesday, November 15, 2011

Time: 2:00 - 3:00 pm (Eastern Time)

Participate by Phone: 888-324-7813

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Join this Webinar

Presenter(s):



Anne McIntyre, PhD, MPH

Epidemiologist National Center for Immunization and Respiratory Diseases

CDC



Andrew Kroger, MD, MPH

Medical Officer

National Center for Immunization and Respiratory Diseases

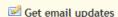
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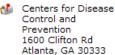


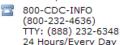




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