2010-2011 Maryland Hospital Healthcare Worker Influenza Vaccination Survey

Presentation to the Maryland Health Care Commission

(Revised August 8, 2011)

Theresa Lee
Chief, Hospital Quality Initiatives
Presentation Overview

- The Hospital HCW Vaccination Survey Protocol
- 2010-2011 HCW Vaccination Survey Results
- Hospital HCW Vaccination Policies and Practices
- Preliminary Results of Ambulatory Surgery Centers HCW Vaccination Survey
- Wrap Up
2nd Annual Survey of Maryland Hospitals

Web-based Survey

Developed with Guidance from the HAI Advisory Committee

Consists of Five Questions

1) **Numerator**: Number of paid full-time and part-time hospital employees and house staff (defined as residents and interns) who RECEIVED FluMist® or a flu shot onsite or offsite between September 1, 2010 and April 15, 2011.

2) **Denominator**: Total number of paid full-time and part-time hospital employees and house staff as of the last day of each reporting period month

*(Data Limitation: Denominator data may reflect fluctuations in staffing patterns over time.)*
Five Survey Questions (continued)

3) Number of full-time and part-time hospital employees and house staff (defined as residents and interns) who did not receive FluMist® or an influenza shot on-site or off-site between September 1, 2010 and April 15, 2011 due to **medical contraindications** (including a severe egg allergy, severe allergy to any vaccine component, severe reaction after a previous dose of influenza vaccine, or a history of Guillain-Barre Syndrome).

4) Number of full-time and part-time hospital employees and house staff (defined as residents and interns) who did not receive FluMist® or an influenza shot on-site or off-site between September 1, 2010 and April 15, 2011 due to **religious objections**.

5) Number of full-time and part-time hospital employees and house staff (defined as residents and interns) who did not receive FluMist® or an influenza shot on-site or off-site between September 1, 2010 and April 15, 2011 due to **other objections**.
### Hospital Survey Results Overview:

<table>
<thead>
<tr>
<th>Statewide Stats</th>
<th>2009-10</th>
<th>2010-11</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vaccination Rate</td>
<td>78.1%</td>
<td>81.4%</td>
</tr>
<tr>
<td>Top 10 Average Rate</td>
<td>82.6%</td>
<td>99.4%</td>
</tr>
<tr>
<td>Bottom 10 Average Rate</td>
<td>64.4%</td>
<td>57.7%</td>
</tr>
<tr>
<td>Declination Rate</td>
<td>12.1%</td>
<td>15.2%</td>
</tr>
<tr>
<td>Declined for Medical Reasons</td>
<td>3.1%</td>
<td>1.6%</td>
</tr>
<tr>
<td>Declined for Religious Reasons</td>
<td>0.5%</td>
<td>0.9%</td>
</tr>
</tbody>
</table>
Hospital Survey Results:

Reasons for Vaccine Declination among HCWs

- **Medical Reason**: 1.6% of Hospital Employees Declined for Medical Reasons
- **Religious Reason**: 0.9% of Hospital Employees Declined for Religious Reasons
- **No Reason**: 12.7% of Hospital Employees Declined with No Reason Provided

- **83%** (12,346/14,801)
- **11%** (1604)
- **6%** (851)
Hospital HCW Vaccination Policies and Practices

- Survey of Hospital HCW Vaccination Policies
  - Developed with assistance of Hopkins-PHASE Intern
  - Web-based Survey Comprised of 12 Questions
  - Designed to gain better understanding of hospital practices
    - Measure vaccination promotion activities (4)
    - Collect data on documentation requirements (3)
    - Identify Mandatory Vaccination Programs and Protocol (3)
    - Identify Data Sources for employee count (2)
Survey Results

- All hospitals provide vaccinations free of charge and on-site to employees

- All hospitals maintain documentation on employee on-site vaccination status

- 86% maintain documentation on off-site employee vaccination, but only 67% require proof

- 18 hospitals reported mandatory employee vaccination policies, but only 15 reported consequences associated with those policies
Hospital Survey Results:

2010-11 Influenza Vaccination Policies

15 Hospitals include:
- BWMC, Franklin Sq, GBMC, Good Sam, Harbor, Harford Memorial, Holy Cross, Kernan, Maryland Gen, Montgomery Gen, Shady Grove, St Mary’s, Union Memorial, Upper Chesapeake, Washington Adventist

Consequences include:
- Suspend privileges (12/15)
- Terminate if declined other than for medical reason (6/15)
- Terminate if a valid declination form was not completed (3/15)
Hospitals with Mandatory Vaccination Policies:

Vaccination Rate 2010-2011

- Baltimore Washington Medical Center: 98.4%
- Franklin Square Hospital Center: 98.1%
- Good Samaritan Hospital: 97.9%
- Harbor Hospital Center: 98.8%
- Hartford Memorial Hospital: 100.0%
- Holy Cross Hospital: 99.8%
- James Lawrence Kernan Hospital: 98.8%
- Maryland General Hospital: 97.0%
- Montgomery General Hospital: 100.0%
- Shady Grove Adventist Hospital: 99.2%
- St. Mary's Hospital: 96.2%
- Union Memorial Hospital: 95.8%
- Upper Chesapeake Medical Center: 100.0%
- Washington Adventist Hospital: 99.2%
Hospitals with a 90% Vaccination Rate or ABOVE:

- Chester River Hospital Center
- Meritus Medical Center
- St. Joseph Medical Center
- Harford Memorial Hospital
- Washington Adventist Hospital
- Upper Chesapeake Medical Center
- Shady Grove Adventist Hospital
- Greater Baltimore Medical Center
- Good Samaritan Hospital
- Franklin Square Hospital Center
- Harbor Hospital Center
- Montgomery General Hospital
- Union Hospital of Cecil County
- James Lawrence Kernan Hospital
- Cistica Medical Center
- Fort Washington Medical Center
- Holy Cross Hospital
- St. Mary’s Hospital

Vaccination Rate 2009-10
Vaccination Rate 2010-11
22 Hospitals with Improved Vaccination Rate:

- Carroll Hospital Center
- Union Memorial Hospital
- Montgomery General Hospital
- Doctors Community Hospital
- Memorial Hospital at Easton
- Chester River Hospital Center
- Suburban Hospital
- John Hopkins Bayview Medical Center
- Meritus Medical Center
- Howard County General Hospital
- St. Joseph Medical Center
- Calvert Memorial Hospital
- Shady Grove Adventist Hospital
- University of Maryland Medical Center
- Laurel Regional Hospital
- Calvert Memorial Hospital
- Howard County General Hospital
- Meritus Medical Center
- Johns Hopkins Bayview Medical Center
- Suburban Hospital
- Memorial Hospital at Easton
- Doctors Community Hospital
- Montgomery General Hospital
- Union Memorial Hospital
- Carroll Hospital Center

2010-11

Hospitals with a MANDATORY Vaccination Policy with consequences
Hospitals with Vaccination Rate BELOW 60%:

- Prince George's Hospital Center: 27.8%
- St. Agnes Hospital: 44.5%
- Mercy Medical Center: 53.8%
- Sinai Hospital: 57.1%
- Peninsula Regional Medical Center: 57.1%
- Mercy Medical Center: 56.3%
- Sinai Hospital: 56.5%
- Peninsula Regional Medical Center: 58.3%
- Mercy Medical Center: 66.2%
- Peninsula Regional Medical Center: 61.3%

Vaccination Rate 2010-11
Vaccination Rate 2009-10
### Statewide Stats

<table>
<thead>
<tr>
<th></th>
<th>2009-10</th>
<th>2010-11*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freestanding ASCs</td>
<td>70.2% (234/333)</td>
<td>87.1% (316/331)</td>
</tr>
<tr>
<td>Vaccination Rate</td>
<td>69.4%</td>
<td>56.4%</td>
</tr>
<tr>
<td>Number Vaccinated</td>
<td>1621</td>
<td>1672</td>
</tr>
<tr>
<td>Total Workers</td>
<td>2336</td>
<td>2960</td>
</tr>
</tbody>
</table>

*ASC statistics based on preliminary data from Annual Freestanding ASC Survey
### Comparison of 2010-2011 HCW Vaccination Rates: Hospitals and Ambulatory Surgery Centers*

*ASC statistics based on preliminary data from Annual Freestanding ASC Survey

<table>
<thead>
<tr>
<th>Statewide Stats</th>
<th>Hospitals</th>
<th>ASCs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Facilities</td>
<td>46</td>
<td>(316 of 331)</td>
</tr>
<tr>
<td>Vaccination Rate</td>
<td>81.4%</td>
<td>56.4%</td>
</tr>
<tr>
<td>Top 10 Average Rate</td>
<td>99.4%</td>
<td>100%</td>
</tr>
<tr>
<td>Number of Employees Vaccinated</td>
<td>79,504</td>
<td>1,672</td>
</tr>
<tr>
<td>Number of Employees</td>
<td>97,639</td>
<td>2,960</td>
</tr>
<tr>
<td>Average Declination Rate</td>
<td>15.2%</td>
<td>33.6%</td>
</tr>
</tbody>
</table>
Wrap Up:

- 2010-2011 Survey results posted to the Hospital Performance Evaluation Guide

- Survey protocol used by DHMH for assessment of LHDs employee vaccination rates

- Special thanks to the following MHCC staff for their contribution to this project:
  - Evanson Mukira
  - Kendall Kodey
  - Leslie LaBreque
  - Christine Parent
  - Scharmaine Robinson
Thank you!

Theresa Lee
Chief, Hospital Quality Initiatives