
Increasing Influenza Vaccination Rates among Hospital Employees without a Mandatory Policy

To the Editor—Influenza vaccination is the best way to protect against influenza infection.1 For healthcare workers, the Centers for Disease Control and Prevention (CDC), the Advisory Committee on Immunization Practices (ACIP), and the Healthcare Infection Control Practices Advisory Committee (HICPAC) all recommend that US healthcare workers get vaccinated annually. During the 2010–2011 influenza season, the influenza vaccination rate among healthcare workers was estimated at 63.5%. However, the rate increased to over 98% when there was a requirement for vaccination by their employers.1 Because of this discrepancy, the Society for Healthcare Epidemiology of America (SHEA) endorsed a policy in which annual influenza vaccination should be “a condition of both initial and continued healthcare personnel employment and/or professional privileges.”2 Many hospitals have been reluctant to institute such a policy on the basis of both the fear of litigation and the compromising of employees’ civil liberties and autonomy.3

Virginia Hospital Center (VHC) is a 334-bed teaching hospital in Arlington, Virginia, located in the Washington, DC, metropolitan area. During the 2011–2012 influenza season, there were an estimated 2,723 hospital employees, of which about 20% had nonclinical roles. Although the hospital administration assured their full support of any influenza vaccination requirement and was seen in the emergency department. She had no lip or tongue swelling on physical examination and had no wheezing upon auscultation. She was given a short course of steroids for a possible allergic reaction. Nonhospital employees such as students and hospital contractors were provided free vaccine, and vaccination rates were well over 90% for this population.

We saw a dramatic increase in influenza vaccination rates during the 2011–2012 season, despite not implementing a mandatory vaccination policy. Although we did require some action to be taken, there was no consequence if an employee chose not to do anything or if a supervisor did not enforce the policy. However, because of the aggressive marketing of the vaccine and the requirement to wear a mask if unvaccinated, many achieved in hospitals with mandatory vaccination programs.4,5,6

In the months prior to the 2011–2012 influenza season, an influenza task force was created, consisting of members of the Infection Prevention Committee, Employee Health, Medical Staff Office, Pharmacy, Public Affairs, and the hospital administration. A comprehensive vaccination policy was instituted that included methods from previous years as well as 3 additional components: stickers on badges identifying whether individuals were vaccinated or not; use of surgical masks by unvaccinated employees when within 6 feet of a patient; and weekly e-mails to department supervisors updating them on their employees’ status. It was required that employees either receive the vaccine or sign a declination letter. Documentation of vaccination outside VHC was acceptable for those vaccinated elsewhere. Additionally, department supervisors had the responsibility to ensure all of their employees took some sort of action. Vaccination started October 1, 2011, and employees were encouraged to take action by December 1, 2011.

During the 2011–2012 influenza season, 2,306 employees received the vaccine or showed proof of vaccination elsewhere, and 141 signed a declination letter, resulting in a 90% compliance rate with hospital policy. Overall, the vaccination rate was 85% (Table 1). The most common reason for declination was “Personal/Do not want.” There was no disciplinary action taken against those who were noncompliant with hospital policy. Vaccination rates were 86% in clinical employees compared to 74% in nonclinical employees. One vaccinated employee developed a cough 1 hour after vaccination and was seen in the emergency department. She had no lip or tongue swelling on physical examination and had no wheezing upon auscultation. She was given a short course of steroids for a possible allergic reaction. Nonhospital employees such as students and hospital contractors were provided free vaccine, and vaccination rates were well over 90% for this population.

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<table>
<thead>
<tr>
<th>Year</th>
<th>Employees vaccinated</th>
<th>Total no. of employees</th>
<th>Vaccination rate, %</th>
</tr>
</thead>
<tbody>
<tr>
<td>2007</td>
<td>932</td>
<td>2,053</td>
<td>45</td>
</tr>
<tr>
<td>2008</td>
<td>1,034</td>
<td>2,358</td>
<td>44</td>
</tr>
<tr>
<td>2009</td>
<td>1,237</td>
<td>2,165</td>
<td>57</td>
</tr>
<tr>
<td>2010</td>
<td>1,363</td>
<td>2,239</td>
<td>61</td>
</tr>
<tr>
<td>2011</td>
<td>2,306</td>
<td>2,723</td>
<td>85</td>
</tr>
</tbody>
</table>
employees assumed that vaccination was mandatory, which helped the compliance rate. Masking has been reported previously as an effective way to increase influenza vaccination among healthcare workers. In surveys of first-time vaccine recipients, the inconvenience and stigma of masking was the strongest motivator for vaccination. Other factors that influenced vaccination included support of our program from hospital leaders, pressure on employees by their supervisors to take action, effective marketing, and better education regarding the need for vaccination. Problems faced during the year included the lack of enforcement of the influenza policy and some physicians on the medical staff not getting vaccinated, leading to hospital employees doubting the importance of vaccination or the seriousness of influenza.

Although we achieved an 85% influenza vaccination rate, mandatory vaccination policies have yielded rates of over 98%. Mandatory vaccination is the most effective way to increase rates, yet such policies are still not widely accepted by many hospitals. In institutions where the administration is reluctant to adopt such a policy, we present a model that may be beneficial.

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