

HEALTHCARE PERSONNEL (HCP) FLU VACCINATION POLICIES IN ACUTE CARE HOSPITALS ACROSS TENNESSEE

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Background

- According to the CDC, the national rate of influenza vaccinations among healthcare personnel (HCP) is 70%
- The Department of Health and Human Services (HHS) 2020 goal is 90%
- The National Healthcare Safety Network (NHSN) aids healthcare facilities in tracking influenza vaccinations
- NHSN Seasonal Survey on Influenza Vaccination for HCP captures facility level policies
- The Tennessee Department of Health (TDH) requires healthcare facilities to report HCP vaccination data to NHSN

Objective

- Investigate which policies were effective for Acute Care Hospitals (ACHs) in Tennessee to meet the HHS 2020 goal for flu season 2015-2016

Methods

- NHSN data from 2015/2016 flu season were used to compare HCP vaccination rates for policies listed in the NHSN Seasonal Survey on Influenza Vaccination for HCP
- Of 110 ACHs who submitted HCP summary data for the 2015-2016 flu season, 103 completed the NHSN Seasonal Survey on Influenza Vaccination for HCP
- Relative Risks (RRs) were calculated to determine effectiveness of policies using SAS 9.4

Conclusions

- This analysis provides insight into achieving HHS 2020 goal
- Providing vaccinations on nights, weekends and in occupational health in addition to requiring vaccination as a condition of employment and as a receipt for credentialing all appeared to be effective policies to meet the HHS 2020 goal
- Healthcare facilities should consider implementing these policies to achieve the HHS 2020 goal of 90%

Results

- Of 103 ACHs that completed the NHSN Seasonal Survey on Influenza Vaccination for HCP, only 43 (42%) met the HHS 2020 goal
- Compared to facilities who did not use these policies, those found to be significant for ACHs were:
 - Providing vaccination during nights, weekends and in occupational and employee health (RR: 5.27; 95% CI: 0.37-75.6)
 - Promoting vaccination through reminders by mail, E-mail, and/or paper (RR: 3.22; 95% CI: 0.88-11.86)
 - Requiring vaccination as a condition of employment (RR: 2.85; 95% CI: 1.80-4.50)
 - Providing vaccination in locations, such as common areas, were found to be less likely to meet the HHS 2020 goal (RR: 0.52; 95% CI: 0.33-0.82)
 - Requiring vaccination as a receipt for credentialing (RR: 2.12; 95% CI: 1.40-3.22)

Table 1: Descriptive Statistics for each ACHs, 2015/2016 Flu Season

Facility Type	Total # of Facilities	# Facilities that reached 90% 2020 goal (%)	# Facilities that completed survey (%)	# Facilities that completed survey and met 90% goal (%)
ACH	110	49 (45)	103 (94)	43 (42)

Figure 1: Relative Risks of Policies Associated with Meeting 90% Vaccination Goal, 2015-2016 Flu Season

