



Healthcare Quality Reporting Program

**HOSPITAL EMPLOYEE INFLUENZA VACCINATION STATUS**

Methods

Hospital employee influenza vaccination rates are [reported annually on the Department of Health's \(HEALTH's\) Website](#) as part of the public reporting program. The information on this page provides additional details about the influenza vaccination rates, including their data source, how they are calculated, and why influenza vaccination is important for hospital employees.

**Measure Information**

Measure	Why is this information important?
1. Influenza Vaccination Status for Hospital Healthcare Workers	<p>Influenza, or the flu, can be very serious for hospital patients. Vaccinating healthcare workers is important because influenza spreads from person to person. Vaccination can prevent its spread from healthcare workers to patients.</p> <p>This measure looks at how often healthcare workers receive influenza vaccination during the influenza season (October-March). There are three percentages that total 100% altogether:</p> <ol style="list-style-type: none"> <li>1. % vaccinated,</li> <li>2. % who declined vaccination, and</li> <li>3. % with unknown vaccination status.</li> </ol> <p>These categories are reported for all healthcare workers who are hospital employees, and then broken down for the three types of healthcare workers listed below. This information is updated annually in the Spring.</p>

**Data Source**

In hospitals, some of the doctors who care for patients are hospital employees and some are not hospital employees, but have “privileges” to see their patients when they are hospitalized. Hospitals collect influenza vaccination data for the healthcare workers who are their employees during each influenza season (October-March) and submit that data to the National Healthcare Safety Network (NHSN) reporting system. HEALTH then collects the following information:

1. Type of healthcare worker (e.g., doctor, nurse)
2. Who received influenza vaccination, either at the hospital where they are employed or somewhere else
3. Who did not receive influenza vaccination, either at the hospital where they are employed or anywhere else (and why they declined)
4. Whose vaccination status is unknown, either because the employee did not know or did not tell the hospital

HEALTH’s public reports include overall influenza vaccination rates for all healthcare workers who are hospital employees, and then break down the information for three different types of hospital employees:

1. Employees
2. Licensed Independent Practitioners
3. Non-Employees, such as students or volunteers

## Measure Calculation

For each measure, the score includes all three of the following percentages:

Measure/ Healthcare Worker Type	Numerator	Denominator*
<b>Employees</b>		
% vaccinated	# who received influenza vaccination	Total # of Employees
% who declined vaccination	# who declined influenza vaccination	Total # of Employees
% with unknown vaccination status	# with unknown vaccination status	Total # of Employees
<b>Licensed Independent Practitioners (LIPs)</b>		
% vaccinated	# who received influenza vaccination	Total # of LIPs
% who declined vaccination	# who declined influenza vaccination	Total # of LIPs
% with unknown vaccination status	# with unknown vaccination status	Total # of LIPs
<b>Non-Employees</b>		
% vaccinated	# who received influenza vaccination	Total # of Non-employees
% who declined vaccination	# who declined influenza vaccination	Total # of Non-employees
% with unknown vaccination status	# with unknown vaccination status	Total # of Non-employees
<b>All healthcare workers</b>		
% vaccinated	# who received influenza vaccination	Total # of Healthcare workers
% who declined vaccination	# who declined influenza vaccination	Total # of Healthcare workers
% with unknown vaccination status	# with unknown vaccination status	Total # of Healthcare workers

For each healthcare worker type (e.g., Employees), the three percentages add up to 100%:

$$100\% = (\% \text{ vaccinated}) + (\% \text{ who declined vaccination}) + (\% \text{ whose vaccination status is unknown})$$

Hospitals' measure scores are compared to each other and to the state average. State averages are calculated using the total numbers (all hospitals) for each category. The example below gives the average vaccination rate among Employees:

$$\text{Average Employee vaccination rate (\%)} = \# \text{ Employees vaccinated (all hospitals)} / \text{Total \# of Employees (all hospitals)} \times 100$$

**Data Table, 2012-2013**

The data table below provides additional details which are not presented in the Care Outcomes report, including counts for the number of healthcare workers who received influenza vaccination, declined it, or whose vaccination status is unknown. These are the numbers used to calculate the percentages included in the Care Outcomes report graphs.

Hospital (Alphabetical)	Healthcare Worker Type*															
	All Healthcare Workers				Employees				Licensed Independent Practitioners				Non-Employees			
	Y	N	UK	T	Y	N	UK	T	Y	N	UK	T	Y	N	UK	T
	Count															
Butler Hospital	1,014	53	30	1,104	842	53	2	904	86	0	7	93	86	0	21	107
Eleanor Slater Hospital	969	93	28	1,113	855	83	23	979	21	1	1	41	93	9	4	90
Kent Hospital	3,149	224	12	3,396	2,526	218	8	2,760	328	1	2	332	295	5	2	304
Landmark Medical Center	985	135	31	1,151	754	126	31	911	118	5	0	123	113	4	0	117
Memorial Hospital	1,836	154	0	2,002	1,439	140	0	1,588	197	8	0	206	200	6	0	208
The Miriam Hospital	3,380	360	888	4,649	2,341	312	0	2,674	908	48	231	1,187	131	0	657	788
Newport Hospital	1,120	62	393	1,582	830	61	1	897	162	0	78	241	128	1	314	444
Our Lady of Fatima Hospital	1,468	167	22	1,665	981	116	3	1,106	275	20	13	310	212	31	6	249
Rhode Island Hospital	8,948	1,436	1,503	11,901	6,944	1,224	19	8,201	1,442	95	381	1,918	562	117	1,103	1,782
Roger Williams Medical Center	1,391	122	0	1,518	852	85	0	942	439	33	0	472	100	4	0	104
South County Hospital	1,204	0	0	1,209	955	0	0	959	148	0	0	148	101	0	0	102
The Westerly Hospital	980	129	13	1,122	648	98	0	746	83	3	13	99	249	28	0	277
Women and Infants	3,762	126	106	4,026	2,640	126	33	2,829	610	0	0	612	512	0	73	585
Total	30,206	3,061	3,026	36,438	22,607	2,642	120	25,483	4,817	214	726	5,782	2,782	205	2,180	5,173

\*Y, N and UK columns will not add up to the total columns because the total columns include employees that had a contraindication or medical exemption to the influenza vaccine

Y = Received influenza vaccination; N = Declined influenza vaccination; UK = Unknown vaccination status; T = Total