

Influenza Vaccination of Health Care Personnel in Massachusetts
Ambulatory Surgical Centers, Dialysis Centers and Non-Acute
Hospitals
2015-2016 Influenza Season
Final Report

BUREAU OF HEALTH CARE SAFETY & QUALITY
BUREAU OF INFECTIOUS DISEASE AND LABORATORY SCIENCES

FEBRUARY 2017

Commonwealth of Massachusetts
Charles D. Baker
Governor

Karyn E. Polito
Lieutenant Governor



**Executive Office of Health &
Human Services**
MaryLou Sudders
Secretary

Department of Public Health
Monica Bharel, MD, MPH
Commissioner

Table of Contents

BACKGROUND3

METHODOLOGY.....4

RESULTS4

AMBULATORY SURGICAL CENTER FINDINGS5

DIALYSIS CENTER FINDINGS6

NON-ACUTE HOSPITAL FINDINGS.....7

ENHANCED PUBLIC HEALTH ACTIONS8

APPENDIX9

 A. AMBULATORY SURGICAL CENTER RESULTS.....9

 B. DIALYSIS CENTER RESULTS.....11

 C. NON-ACUTE HOSPITAL RESULTS.....14

Background

The Massachusetts Department of Public Health (DPH) requires licensed health care facilities, including ambulatory surgical centers, dialysis centers and non-acute hospitals to report influenza vaccine coverage among employees.¹ Health care personnel (HCP) are at high risk for influenza exposure and may be a source of influenza virus transmission in health care settings. Annual immunization is the most effective method of preventing influenza and potentially serious complications.

In 2008, DPH mandated that all licensed health care facilities offer personnel free, annual influenza vaccine. Facilities must document and report receipt of vaccine by personnel, whether administered within or outside the facility, and all declination of immunization. This report presents data on influenza vaccine coverage of non-acute health care facility personnel for 2015-16. Health care facilities included in this report are ambulatory surgical centers, dialysis facilities and non-acute hospitals. These facility types are required to report health care personnel influenza data through the National Healthcare Safety Network (NHSN) of the Centers for Disease Control and Prevention (CDC).

Data describing influenza vaccination of health care personnel in acute care hospitals during the 2015-2016 influenza season has been incorporated in the hospital specific healthcare associated infection data summaries available at the following link:

<http://www.mass.gov/eohhs/gov/departments/dph/programs/hcq/healthcare-quality/health-care-facilities/flu-vac-hc-personnel/flu-vaccination-reports.html>

Data describing influenza vaccination of health care personnel in nursing homes, rest homes, adult day health programs and clinics during the 2015-2016 influenza season is available at the following link:

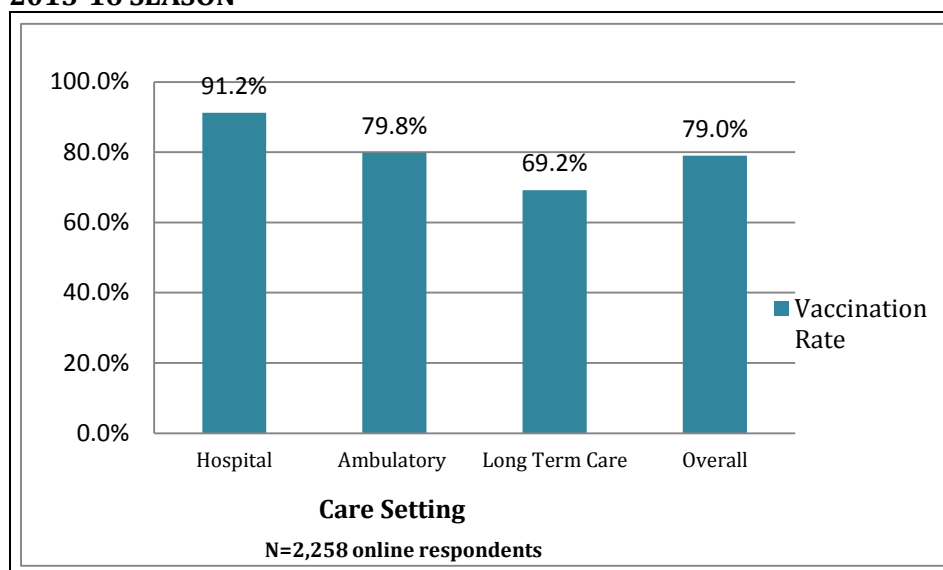
<http://www.mass.gov/eohhs/gov/departments/dph/programs/hcq/healthcare-quality/health-care-facilities/flu-vac-hc-personnel/flu-vaccination-reports.html>

While the CDC's Advisory Committee on Immunization Practices recommends annual influenza vaccination for all health care personnel, Massachusetts is one of only a handful of states that mandates reporting of influenza vaccination rates in order to understand coverage rates. The CDC conducted a national online survey of health care personnel in the spring of 2016 to promote coverage. In a sample of 2,258 respondents, 79.0% of all health care personnel reported receiving the influenza vaccination during the 2015-2016 season². Figure 1 illustrates reported vaccination coverage by care setting.

¹ See 105 CMR 140.150 for the influenza vaccination reporting requirements for clinics and dialysis centers; and 105 CMR 130.325 for the reporting requirements for non-acute hospitals. Note that the requirements under 105 CMR 140.150 apply to dialysis centers licensed under 105 CMR 145.000 pursuant to 105 CMR 145.900.

² Black CL, Yue X, Ball SW, et al. Influenza Vaccination Coverage Among Health Care Personnel — United States, 2015–16 Influenza Season. MMWR Morb Mortal Wkly Rep 2016;65:1026–1031. DOI: <http://dx.doi.org/10.15585/mmwr.mm6538a2>

FIGURE 1. CDC's SURVEY OF NATIONAL HEALTH CARE PERSONNEL INFLUENZA VACCINATION RATES FOR 2015-16 SEASON



Methodology

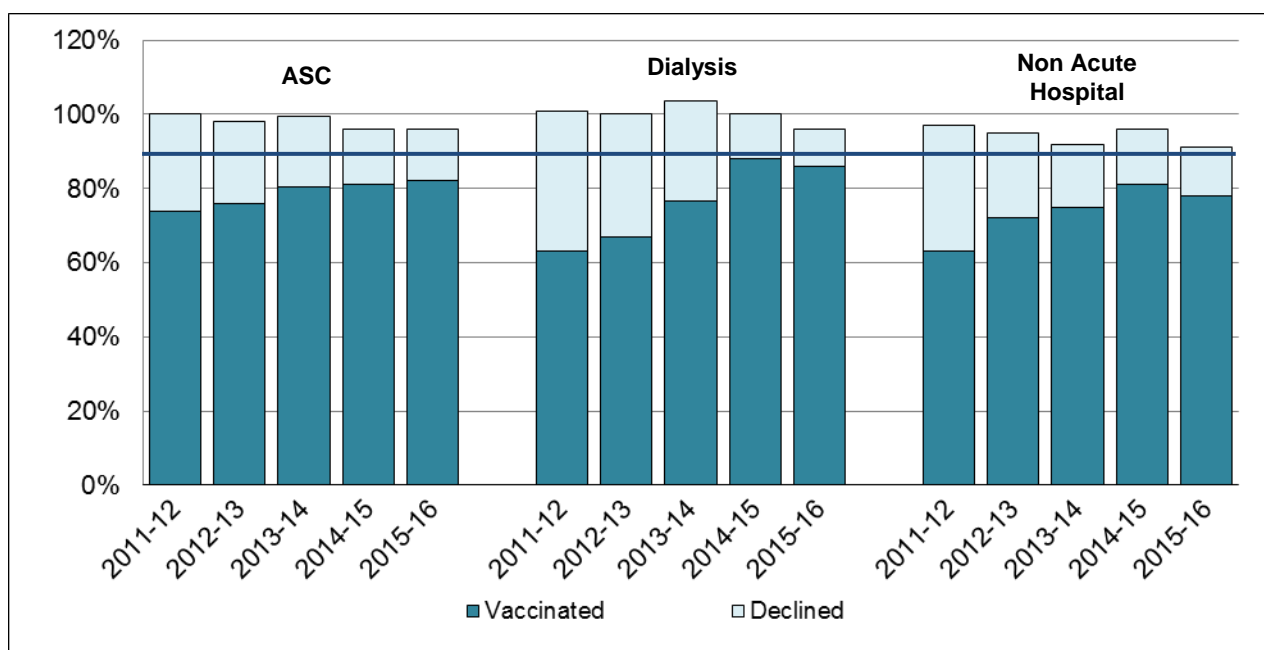
NHSN is a secure, web-based system managed by the CDC that enables DPH and health care facilities to track and analyze data on healthcare associated infection and prevention practices to determine their incidence, identify trends and use the data to guide improvement. Participating health care facilities are required to report data according to the NHSN definitions and protocols to ensure data are uniformly reported, consistent over time within a single healthcare facility and comparable across facilities.

Consistent with NHSN protocols, the DPH Healthcare Associated Infection (HAI) Prevention Program required Ambulatory Surgical Centers, Dialysis Centers and Non-Acute Hospitals to offer employees influenza vaccines, and collect data for HCP physically working in the facility for at least one day between October 1 through March 31 of the influenza season, regardless of clinical responsibility or patient contact. Data is reported separately for three categories of healthcare personnel (HCP): employees on payroll, licensed independent practitioners (i.e. physicians, advanced practice nurses, and physician assistants affiliated with the facility but not on payroll), and adult students/trainees and volunteers aged 18 or older. For each HCP group, the total numbers of HCP vaccinated in and outside the facility, HCP who declined vaccine, HCP with a documented medical contraindication to the vaccine, and HCP with unknown vaccine status were compiled and submitted to NHSN.

Results

Figure 2 depicts trends in influenza vaccination rates in ambulatory surgical center, dialysis centers and non-acute hospitals in Massachusetts from the 2011-12 flu seasons through the 2015-16 season. Overall, facilities reported similar or slightly improved mean vaccine coverage rates in 2015-16 when compared to 2014-15. No facility type reached the United State Department of Health and Human Services Healthy People 2020 90% coverage goal; however, dialysis centers were very close and reported 86% coverage. Facilities that achieved this goal or had greater than 90% coverage are listed in the appendix with an asterisk.

FIGURE 2. MEAN PERCENT OF HCP RECEIVING AND DECLINING INFLUENZA VACCINATION: 2011-2016



Ambulatory Surgical Centers

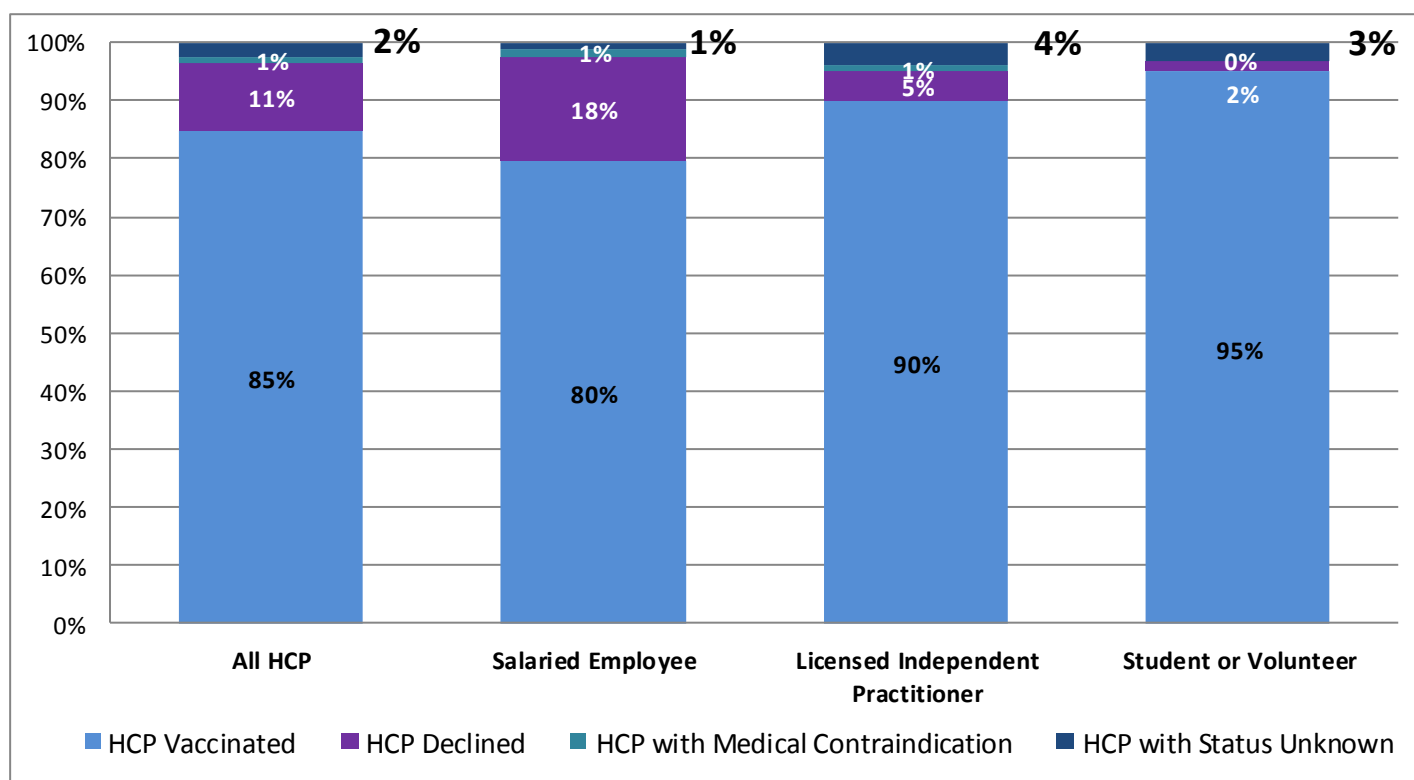
In 2015-16, on average, 82% of HCP at 53 ambulatory surgical centers were vaccinated against influenza and 14% declined vaccination (Table 1). This was very similar to the 81% influenza vaccine coverage and 15% declination reported in 2014-15 (Figure 1). Twenty-two Massachusetts ambulatory surgical centers, representing 42% of reporting facilities, achieved a vaccination rate of 90% or greater in 2015-16. Forty-five percent of employees received their vaccinations at their place of employment and 37% were vaccinated elsewhere.

TABLE 1. MEAN PERCENT OF HCP AT AMBULATORY SURGICAL CENTERS VACCINATED AGAINST INFLUENZA DURING 2015-2016 (N=53)

	MEAN % VACCINATED	RANGE
Total Vaccinated	82%	(22-100%)
Vaccination Declination Rate	14%	(0-77%)
HCP With Unknown Status	2%	(0- 35%)
HCP With Medical Contraindication	1%	(0-9%)
Location Vaccinated		
At Place of Employment	45%	(0-93%)
Outside Place of Employment	37%	(0-90%)

In addition to influenza vaccination and declination, medical contraindications and unknown vaccine status were also collected, with specifics for salaried employees, licensed independent practitioners), and students and volunteers. Overall 85% of all HCPs at ASCs received the vaccine and 11% declined (Figure 2). Vaccine coverage among these groups ranged from 80% to 95%, and salaried employees had the highest declination rate at 18%. Medical contraindications were rare, and unknown vaccine status ranged from 1% to 4%, with licensed independent practitioners reported with unknown status most frequently.

FIGURE 3. OVERALL AMBULATORY SURGICAL CENTER VACCINATION OF HCP BY TYPE



Dialysis Centers

Among 57 reporting dialysis centers, the mean influenza vaccine coverage was 86% and declination 10% in 2015-16 (Table 2). In 2015-16, 29 Massachusetts dialysis centers, just over half of reporting facilities, achieved an overall vaccination rate of 90% or greater. On average 59% of employees were vaccinated at their place of employment and 28% were vaccinated elsewhere. Dialysis centers that are located within acute care hospitals are included in the acute care hospital report.

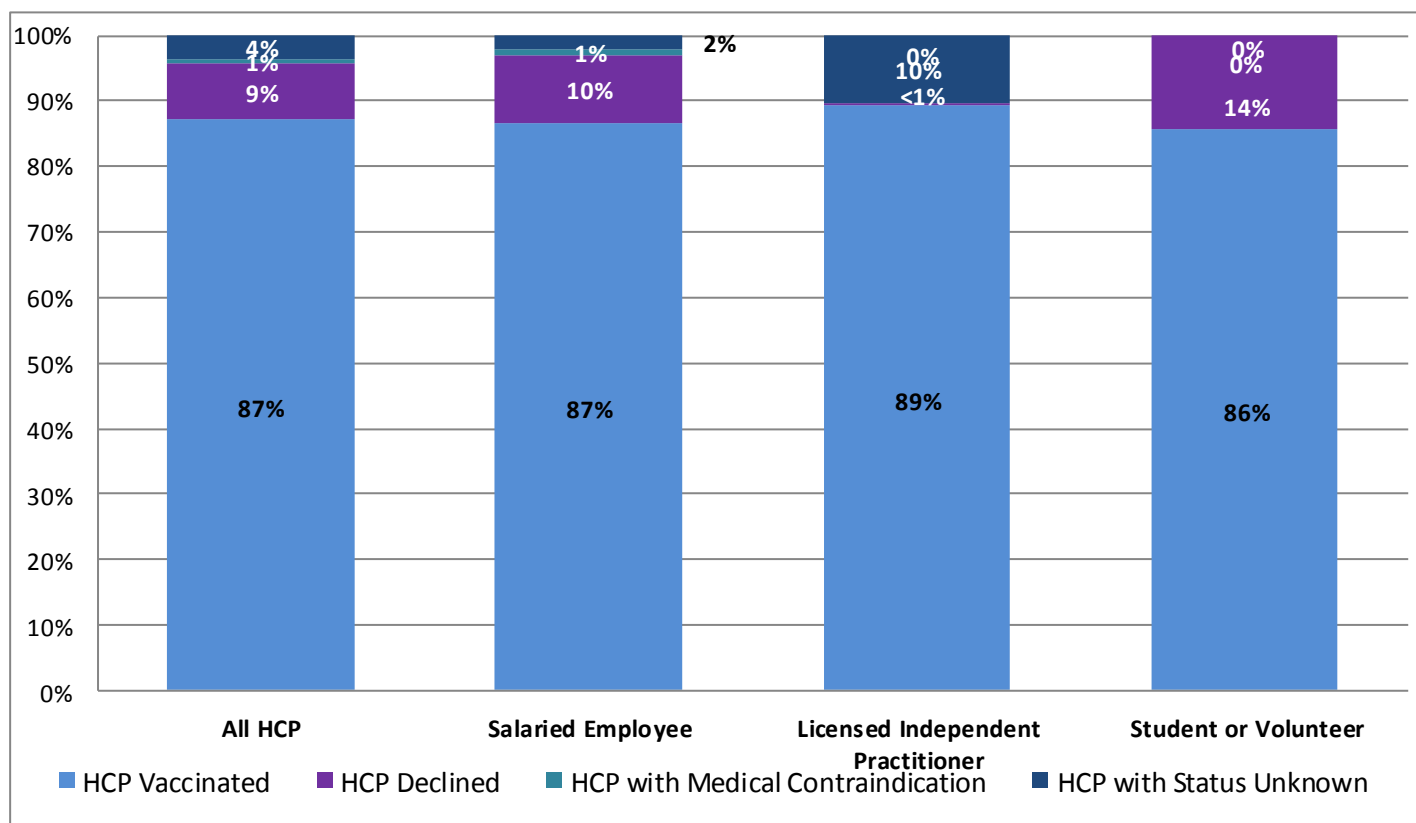
TABLE 2. MEAN PERCENT OF DIALYSIS CENTER HCP VACCINATED AGAINST INFLUENZA DURING 2015-2016 (N=57)

	MEAN % VACCINATED	RANGE
Total Vaccinated	86%	(20-100%)
Vaccination Declination Rate	10%	(0-50%)
HCP With Unknown Status	4%	(0-30%)
HCP With Medical Contraindication	1%	(0-5%)
Location Vaccinated		
At Place of Employment	59%	(0-90%)
Outside Place of Employment	28%	(0-100%)

In addition to influenza vaccination and declination, medical contraindications and unknown vaccine status were also collected, with specific data for salaried employees, licensed independent practitioners, and students and volunteers. Eighty-seven percent of all HCPs at dialysis centers received the vaccine and 9% declined (Figure 3). Vaccine coverage among these groups was similar, ranging from 86% to 89%. Students and volunteers had the highest declination rate at

14%. Medical contraindications were rare, and unknown vaccine status ranged from 0% to 10%, with licensed independent practitioners reported with unknown status most frequently.

FIGURE 4. OVERALL DIALYSIS CENTER VACCINATION OF HCP BY TYPE



Non-Acute Care Hospitals

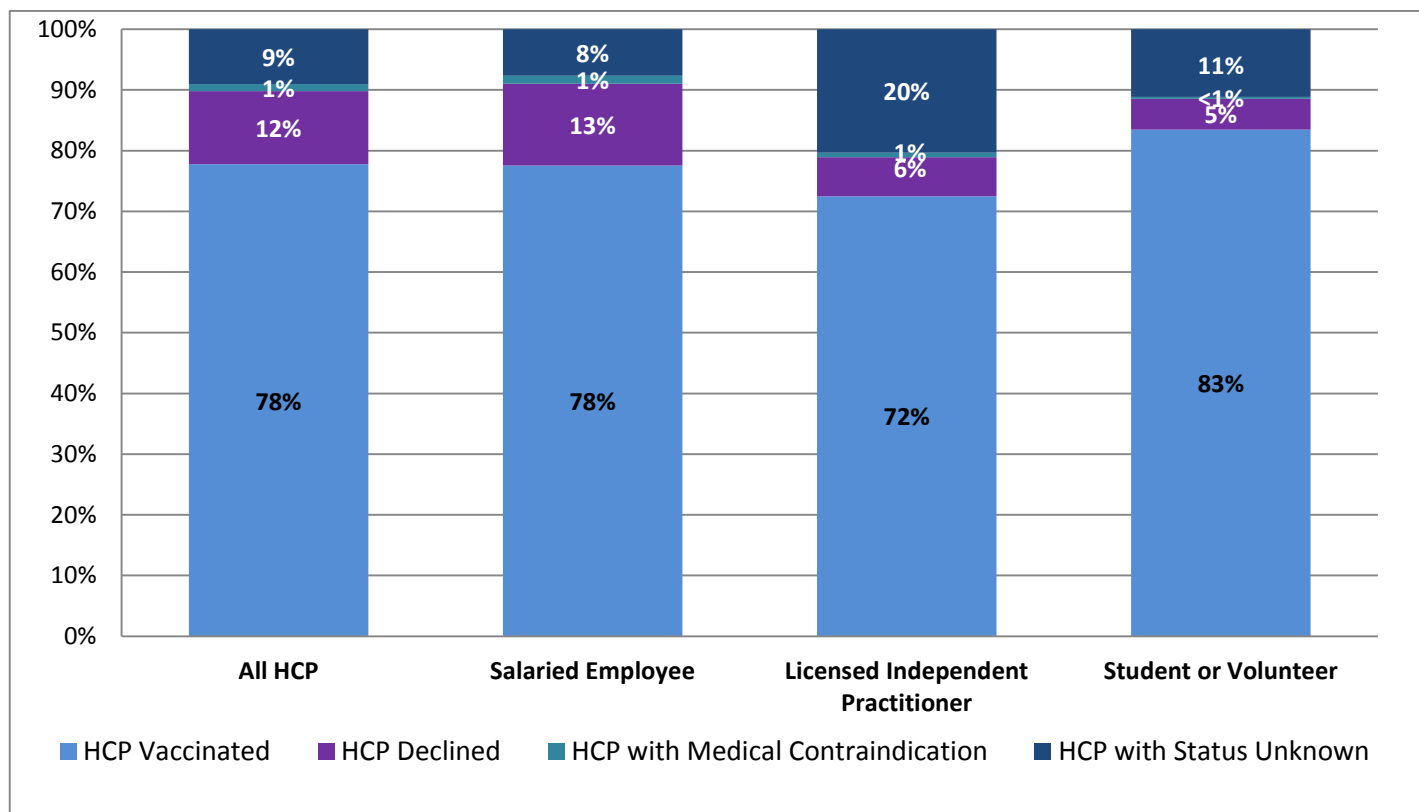
Thirty-six non-acute care hospitals provided information on influenza vaccine coverage. Seventy-eight percent of HCP at non-acute care hospitals, on average, were vaccinated against influenza and 13% declined vaccination in 2015-16 (Table 3). There was a small decrease in mean vaccine coverage in 2015-2016, compared to mean coverage of 81% in 2014-2015. Only 13% of HCP declined vaccination, compared to 15% in 2014-15 (Figure 1). Eleven non-acute care hospitals in Massachusetts reported vaccine coverage greater than 90% during the 2015-16 influenza season. Most personnel received vaccination from the facility that employed them; on average 53% did. Twenty-five percent of HCP at non-acute care hospitals were vaccinated elsewhere.

TABLE 3. MEAN PERCENT OF NON-ACUTE CARE HOSPITAL HCP VACCINATED AGAINST INFLUENZA DURING 2015-2016 (N=36)

	Mean % Vaccinated	Range
Total Vaccinated	78%	(49-98%)
Vaccination Declination Rate	13%	(0-38%)
HCP With Unknown Status	9%	(0-33%)
HCP With Medical Contraindication	1%	(0-6%)
Location Vaccinated		
At Place of Employment	53%	(20-77%)
Outside Place of Employment	25%	(0-50%)

In addition to influenza vaccination and declination, medical contraindications and unknown vaccine status were also collected, with specifics for salaried employees, licensed independent practitioners, and students and volunteers. Seventy-eight percent of all HCPs at non-acute care hospitals received the vaccine and 9% declined (Figure 4). Vaccine coverage among these groups ranged from 72% to 83%. Salaried employees had the highest declination rate at 13%. Medical contraindications were rare, and unknown vaccine status ranged from 8% to 20%, with licensed independent practitioners reported with unknown status most frequently.

FIGURE 4. OVERALL NON-ACUTE CARE HOSPITAL VACCINATION OF HCP BY TYPE



Enhanced Public Health Actions

- DPH will continue to monitor trends and report annual compliance with the HCP influenza vaccination requirements. Compliance will also be assessed by surveys conducted by DPH.
- DPH will promote continuous quality improvement, and recommend licensed facilities share vaccination rates with all staff, including administrators, boards of directors, practice managers, ombudsperson and patient/family councils.
- DPH encourages facilities to review reported data and current HCP influenza policies, and as necessary implement processes to maximize vaccination coverage.
- DPH will continue to promote a continuous, comprehensive influenza prevention program in all licensed health care settings.
- DPH will promote the DPH and Healthy People 2020 target to vaccinate 90% or greater of eligible HCP in all licensed health care settings.
- DPH will collaborate with public health partners to intensify efforts to improve immunization rates among HCP.

Appendix 1. Vaccination Rates by Facility Type and Name

Asterisk* indicates site achieved greater than 90% flu vaccine coverage in 2015-16. “n/a” indicates data not reported by facility to DPH or available through NHSN. DPH distributed guidance to all facilities at the beginning of the influenza season.

TABLE 4. 2013-2014 TO 2015-2016 HCP INFLUENZA VACCINATION AND DECLINATION AT MASSACHUSETTS AMBULATORY SURGICAL CENTERS

Facility Name	# HCPs	Vaccine Coverage 2015-16	Vaccine Declined 2015-16	HCP w/ Medical Contra-indication 2015-16	HCP w/ Unknown Vaccine Status 2015-16	Vaccine Coverage 2014-15	Vaccine Declined 2014-15	HCP w/ Medical Contra-indication 2014-15	HCP w/ Unknown Vaccine Status 2014-15	Vaccine Coverage 2013-14	Vaccine Declined 2013-14
Adams Cataract and Laser Center Associates P.C.	22	74%	20%	6%	0%	67%	27%	6%	0%	65%	35%
Advanced Eye Surgery Center, LLC	19	78%	22%	0%	0%	65%	35%	0%	0%	61%	39%
ASC of Cape Cod*	34	92%	8%	0%	0%	94%	6%	0%	0%	71%	29%
Berkshire Cosmetic Surgery*	16	94%	6%	0%	0%	100%	0%	0%	0%	100%	0%
Berkshire Endoscopy Center, LLC	16	53%	47%	0%	0%	22%	78%	0%	0%	n/a	n/a
Boston Center for Ambulatory Surgery, Inc.	7	71%	29%	0%	0%	89%	11%	0%	0%	81%	19%
Boston Endoscopy Center	38	86%	13%	1%	0%	82%	18%	0%	0%	65%	30%
Boston Eye Surgery & Laser Center Boston	29	89%	5%	5%	0%	72%	11%	4%	13%	83%	17%
Boston Eye Surgery & Laser Center West	25	82%	14%	4%	0%	74%	14%	5%	7%	65%	35%
Boston IVF*	37	91%	9%	0%	0%	85%	8%	3%	4%	69%	22%
Boston Outpatient Surgical Suites*	39	90%	10%	0%	0%	40%	60%	0%	0%	80%	20%
Boston Surgery Center, LLC*	15	100%	0%	0%	0%	94%	6%	0%	0%	96%	4%
Boston University Eye Surgery and Laser Center	14	89%	7%	4%	0%	90%	7%	3%	0%	96%	4%
Cape & Islands Endoscopy Center LLC	33	78%	14%	8%	0%	78%	18%	4%	0%	74%	18%
Cape Cod Eye Surgery & Laser Center*	23	92%	8%	0%	0%	85%	8%	2%	4%	72%	28%
Cape Cod Surgery Center Inc.*	8	90%	10%	0%	0%	92%	0%	8%	0%	85%	15%
Cataract & Laser Center Central LLC, The	28	87%	13%	0%	0%	87%	13%	0%	0%	82%	15%

Facility Name	# HCPs	Vaccine Coverage 2015-16	Vaccine Declined 2015-16	HCP w/ Medical Contra-indication 2015-16	HCP w/ Unknown Vaccine Status 2015-16	Vaccine Coverage 2014-15	Vaccine Declined 2014-15	HCP w/ Medical Contra-indication 2014-15	HCP w/ Unknown Vaccine Status 2014-15	Vaccine Coverage 2013-14	Vaccine Declined 2013-14
Cataract & Laser Center, West	29	88%	9%	0%	4%	83%	17%	0%	0%	82%	18%
Cataract and Laser Center	28	74%	22%	4%	0%	93%	7%	0%	0%	85%	15%
Cataract and Laser Center, The	22	88%	12%	0%	0%	77%	7%	10%	7%	88%	12%
Cataract Surgery Center of Milford	10	75%	19%	6%	0%	95%	5%	0%	0%	100%	0%
Central MA Ambulatory Endoscopy Center	19	84%	13%	3%	0%	72%	23%	5%	0%	82%	18%
Charles River Endoscopy, LLC.*	15	93%	7%	0%	0%	89%	11%	0%	0%	n/a	n/a
Commonwealth Endoscopy Center*	16	91%	9%	0%	0%	95%	5%	0%	0%	n/a	n/a
DHA Endoscopy LLC*	24	94%	0%	6%	0%	94%	6%	0%	0%	100%	0%
East Bay Surgery Center*	41	93%	6%	1%	0%	90%	9%	1%	0%	80%	20%
East Pond Enterprises Inc.	17	48%	52%	0%	0%	64%	36%	0%	0%	42%	58%
Eastern Massachusetts Surgery Center	23	44%	19%	2%	35%	69%	8%	4%	20%	76%	4%
Endoscopy Center of Southeastern Massachusetts	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Four Women	n/a	n/a	n/a	n/a	n/a	88%	12%	0%	0%	94%	6%
Greater New Bedford Surgicenter	26	61%	39%	0%	0%	36%	64%	0%	0%	67%	33%
Greater Springfield Surgery Center	20	70%	16%	0%	14%	57%	17%	3%	22%	64%	36%
Hyannis Ear Nose and Throat Associates	14	75%	19%	6%	0%	75%	19%	6%	0%	n/a	n/a
Hyde Park Pain Management, LLC	18	72%	22%	6%	0%	83%	17%	0%	0%	67%	33%
Merrimack Valley Endoscopy Center*	30	93%	7%	0%	0%	89%	11%	0%	0%	88%	12%
Middlesex Endoscopy Center	9	84%	16%	0%	0%	88%	8%	4%	0%	91%	9%
New England Ambulatory SurgiCenter*	11	100%	0%	0%	0%	57%	29%	7%	7%	93%	7%
New England Eye Surgical Center, Inc.*	23	90%	10%	0%	0%	97%	3%	0%	0%	78%	22%
New England Pain Care, Inc.	32	69%	26%	0%	6%	65%	35%	0%	0%	100%	0%
New England SCOPE*	32	100%	0%	0%	0%	100%	0%	0%	0%	97%	3%

Facility Name	# HCPs	Vaccine Coverage 2015-16	Vaccine Declined 2015-16	HCP w/ Medical Contra- indication 2015-16	HCP w/ Unknown Vaccine Status 2015-16	Vaccine Coverage 2014-15	Vaccine Declined 2014-15	HCP w/ Medical Contra- indication 2014-15	HCP w/ Unknown Vaccine Status 2014-15	Vaccine Coverage 2013-14	Vaccine Declined 2013-14
New England Surgery Center	33	88%	12%	0%	0%	70%	26%	0%	4%	79%	21%
North Shore Cataract & Laser Center	26	87%	6%	6%	0%	92%	4%	4%	0%	97%	3%
Northeast Ambulatory Center	8	36%	45%	9%	9%	64%	29%	7%	0%	0%	100%
Northeast Endoscopy LLC*	35	96%	4%	0%	0%	90%	10%	0%	0%	83%	17%
Orthopedic Surgical Center of the North Shore*	56	90%	7%	0%	3%	91%	7%	0%	2%	70%	30%
Peabody Surgery Center LLC	n/a	n/a	n/a	n/a	n/a	100%	0%	0%	0%	n/a	n/a
Pioneer Valley Surgicenter*	34	94%	6%	0%	0%	95%	5%	0%	0%	89%	11%
Plymouth Laser and Surgical Center*	21	97%	0%	3%	0%	98%	0%	2%	0%	96%	4%
Same Day SurgiCare of N.E.	48	78%	21%	0%	1%	79%	15%	0%	6%	75%	38%
SEE New England*	17	100%	0%	0%	0%	100%	0%	0%	0%	100%	0%
South Shore Endoscopy Center	18	85%	12%	0%	3%	88%	13%	0%	0%	71%	29%
Surgery Center of New England	16	87%	9%	4%	0%	77%	19%	3%	0%	86%	14%
Valley Medical Group*	17	95%	5%	0%	0%	86%	14%	0%	0%	74%	26%
West Suburban Eye Surgery Center*	32	94%	6%	0%	0%	89%	6%	4%	1%	81%	19%
Weymouth Endoscopy, LLC	13	87%	13%	0%	0%	86%	14%	0%	0%	89%	11%
Women's Health Services	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Worcester Surgical Center	52	73%	10%	2%	16%	82%	18%	0%	0%	73%	27%

* Vaccination rate greater than 90% in 2015-16

TABLE 5. 2012-2013 TO 2015-2016 HCP INFLUENZA VACCINATION AND DECLINATION AT MASSACHUSETTS DIALYSIS CENTERS

Facility Name	# HCPs	Vaccine Coverage 2015-16	Vaccine Declined 2015-16	HCP w/ Medical Contra-indication 2015-16	HCP w/ Unknown Vaccine Status 2015-16	Vaccine Coverage 2014-15	Vaccine Declined 2014-15	Vaccine Coverage 2013-14	Vaccine Declined 2013-14	Vaccine Coverage 2012-13	Vaccine Declined 2012-13
ARA - Springfield Dialysis LLC	31	81%	19%	0%	0%	70%	30%	57%	43%	53%	47%
ARA-Ludlow Dialysis, LLC	32	74%	21%	3%	3%	63%	38%	77%	23%	n/a	n/a
Blackstone Valley Dialysis*	36	93%	0%	2%	5%	100%	0%	90%	10%	n/a	n/a
BMC South County	26	87%	13%	0%	0%	n/a	n/a	n/a	n/a	n/a	n/a
Boston Dialysis Center (Carney)*	26	100%	0%	0%	0%	100%	0%	74%	26%	55%	45%
Boston Dialysis*	55	100%	0%	0%	0%	100%	0%	91%	9%	n/a	n/a
Brockton Dialysis Center	35	92%	6%	0%	3%	89%	11%	74%	26%	94%	6%
Brockton Healthcare Clinic	34	65%	9%	0%	26%	54%	46%	37%	63%	24%	76%
Brookline Dialysis	n/a	n/a	n/a	n/a	n/a	85%	15%	85%	12%	92%	8%
Burlington Dialysis	n/a	n/a	n/a	n/a	n/a	100%	0%	100%	0%	17%	78%
Cape Cod Artificial Kidney Center*	38	93%	5%	0%	3%	96%	4%	55%	45%	n/a	n/a
Chicopee Dialysis Center*	20	90%	5%	5%	0%	88%	12%	67%	33%	57%	43%
DCI Boston*	41	100%	0%	0%	0%	98%	2%	93%	7%	93%	7%
DCI Brigham/Faulkner	47	75%	18%	2%	5%	79%	21%	54%	46%	n/a	n/a
DCI Somerville*	29	96%	2%	2%	0%	97%	3%	127%	7%	85%	18%
DCI Walden Pond*	15	100%	0%	0%	0%	100%	0%	92%	8%	92%	8%
Dialysis Center of Attleboro	19	68%	26%	5%	0%	n/a	n/a	n/a	n/a	n/a	n/a
Dialysis Center of Waltham	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Dialysis Center of Western Massachusetts, LLC	36	61%	37%	0%	3%	n/a	n/a	39%	61%	38%	62%
East Springfield Dialysis Center*	24	98%	2%	0%	0%	94%	6%	93%	7%	82%	18%
Fall River Kidney Center	42	80%	18%	2%	0%	66%	34%	63%	38%	78%	22%
Framingham Dialysis	51	96%	4%	0%	0%	n/a	n/a	80%	20%	n/a	n/a
Freedom Center Worcester	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Fresenius Medical Care Attleboro*	21	100%	0%	0%	0%	100%	0%	n/a	n/a	n/a	n/a
Fresenius Medical Care Chelmsford	4	100%	0%	0%	0%	n/a	n/a	n/a	n/a	n/a	n/a
Fresenius Medical Care Falmouth*	29	91%	9%	0%	0%	89%	11%	50%	33%	n/a	n/a

Facility Name	# HCPs	Vaccine Coverage 2015-16	Vaccine Declined 2015-16	HCP w/ Medical Contra-indication 2015-16	HCP w/ Unknown Vaccine Status 2015-16	Vaccine Coverage 2014-15	Vaccine Declined 2014-15	Vaccine Coverage 2013-14	Vaccine Declined 2013-14	Vaccine Coverage 2012-13	Vaccine Declined 2012-13
Fresenius Medical Care Lowell	54	84%	12%	3%	0%	86%	14%	n/a	n/a	n/a	n/a
Fresenius Medical Care Marlborough	16	57%	13%	0%	30%	n/a	n/a	93%	7%	n/a	n/a
Fresenius Medical Care Methuen*	36	94%	2%	4%	0%	86%	14%	57%	43%	n/a	n/a
Fresenius Medical Care Newburyport*	36	98%	2%	0%	0%	90%	10%	n/a	n/a	n/a	n/a
Fresenius Medical Care Merrimack Valley	31	86%	7%	2%	5%	n/a	n/a	n/a	n/a	n/a	n/a
Fresenius Medical Care Plymouth-Cordage	36	89%	8%	0%	3%	95%	5%	64%	32%	n/a	n/a
Fresenius Medical Care Stoneham*	33	93%	5%	0%	3%	n/a	n/a	63%	38%	n/a	n/a
Fresenius Medical Care Wareham	21	87%	13%	0%	0%	50%	50%	45%	55%	n/a	n/a
Hampshire County Dialysis Center*	23	100%	0%	0%	0%	100%	0%	100%	0%	n/a	n/a
Hawthorn Kidney Center LLC Dartmouth Wareham	36	64%	33%	3%	0%	n/a	n/a	63%	38%	55%	45%
Hawthorn Kidney Center-Wareham, LLC	12	67%	33%	0%	0%	50%	50%	38%	63%	n/a	n/a
Heritage Dialysis, LLC	30	73%	27%	0%	0%	70%	40%	63%	111%	55%	45%
Mary Eliza Mahoney Dialysis	30	79%	11%	0%	11%	85%	0%	63%	38%	n/a	n/a
Medford Dialysis Center	50	62%	10%	0%	29%	96%	4%	67%	70%	63%	38%
New Bedford Dialysis	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
North Andover Renal Center*	31	92%	8%	0%	0%	87%	13%	91%	9%	81%	19%
Northshore Regional Dialysis Center*	38	98%	2%	0%	0%	100%	0%	88%	13%	n/a	n/a
North Suburban Dialysis Center*	25	94%	0%	0%	6%	100%	0%	79%	21%	48%	52%
Northeast Cambridge Dialysis	n/a	n/a	n/a	n/a	n/a	89%	11%	85%	15%	63%	38%
Nxstage Kidney Care Boston North	7	80%	13%	0%	7%	n/a	n/a	n/a	n/a	n/a	n/a

Facility Name	# HCPs	Vaccine Coverage 2015-16	Vaccine Declined 2015-16	HCP w/ Medical Contra-indication 2015-16	HCP w/ Unknown Vaccine Status 2015-16	Vaccine Coverage 2014-15	Vaccine Declined 2014-15	Vaccine Coverage 2013-14	Vaccine Declined 2013-14	Vaccine Coverage 2012-13	Vaccine Declined 2012-13
Nxstage Kidney Care Boston South	7	20%	50%	0%	30%	n/a	n/a	n/a	n/a	n/a	n/a
Palmer Dialysis Center*	13	100%	0%	0%	0%	90%	10%	71%	29%	64%	36%
PDI Worcester	n/a	n/a	n/a	n/a	n/a	100%	0%	96%	4%	n/a	n/a
Peabody Dialysis Center	34	89%	11%	0%	0%	94%	6%	48%	52%	63%	38%
Physician's Dialysis	n/a	n/a	n/a	n/a	n/a	100%	0%	96%	4%	n/a	n/a
Pioneer Valley Dialysis*	44	100%	0%	0%	0%	97%	3%	100%	0%	73%	27%
Pure Life Renal of Stoughton	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Quality Care Dialysis Weymouth	38	81%	19%	0%	0%	85%	15%	69%	31%	63%	38%
Salem Northeast Dialysis	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
South County Dialysis*	25	98%	2%	0%	0%	96%	4%	57%	30%	55%	45%
South Suburban Dialysis Center*	36	95%	5%	0%	0%	95%	5%	71%	29%	n/a	n/a
Taunton Healthcare Clinic, The Dialysis Center at Waltham	38	87%	13%	0%	0%	67%	33%	86%	32%	n/a	n/a
	23	91%	8.6%	4.3%	n/a	n/a	n/a	n/a	n/a	n/a	n/a
The Kidney Center*	27	94%	6%	0%	0%	92%	8%	50%	50%	n/a	n/a
University Dialysis Center	51	77%	3%	0%	20%	100%	0%	60%	40%	83%	17%
USRC Quincy Dialysis	28	78%	19%	3%	0%	93%	7%	88%	12%	93%	7%
U S Renal Care Weymouth Dialysis	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
U S Renal Care Foxborough Dialysis	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Waltham Dialysis, LLC	22	87%	9%	4%	0%	n/a	n/a	80%	20%	70%	30%
Wellesley Dialysis LLC	25	84%	16%	0%	0%	84%	16%	79%	21%	83%	17%
Western Mass Kidney	36	97%	3%	0%	0%	100%	0%	90%	5%	71%	29%
Westwood Dialysis*	28	100%	0%	0%	0%	95%	5%	68%	32%	n/a	n/a
Weymouth Dialysis	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

Facility Name	# HCPs	Vaccine Coverage 2015-16	Vaccine Declined 2015-16	HCP w/ Medical Contra-indication 2015-16	HCP w/ Unknown Vaccine Status 2015-16	Vaccine Coverage 2014-15	Vaccine Declined 2014-15	Vaccine Coverage 2013-14	Vaccine Declined 2013-14	Vaccine Coverage 2012-13	Vaccine Declined 2012-13
Woburn Dialysis*	20	100%	0%	0%	0%	100%	0%	94%	6%	n/a	n/a
Yankee Family Dialysis	21	100%	0%	0%	0%	71%	29%	153%	47%	44%	56%

* Vaccination rate greater than 90% in 2015-16

TABLE 6. 2012-2013 TO 2015-2016 HCP INFLUENZA VACCINATION AND DECLINATION AT MASSACHUSETTS NON-ACUTE CARE HOSPITALS

Facility Name	# HCPs	Vaccine Coverage 2015-16	Vaccine Declined 2015-16	HCP w/ Medical Contra-indication 2015-16	HCP w/ Unknown Vaccine Status 2015-16	Vaccine Coverage 2014-15	Vaccine Declined 2014-15	Vaccine Coverage 2013-14	Vaccine Declined 2013-14	Vaccine Coverage 2012-13	Vaccine Declined 2012-13
Adcare Hospital of Worcester, Inc.	509	88%	2%	3%	7%	112%	3%	97%	3%	94%	4%
Amesbury Health Center **	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Arbour - HRI Hospital	184	49%	38%	5%	8%	n/a	n/a	56%	40%	56%	40%
Arbour Fuller Hospital	379	57%	19%	1%	23%	51%	23%	47%	6%	54%	46%
Arbour Hospital	487	52%	35%	2%	11%	n/a	n/a	n/a	n/a	n/a	n/a
Baldpate Hospital*	102	94%	5%	1%	1%	41%	17%	37%	63%	n/a	n/a
Bay Ridge Hospital	192	79%	19%	2%	0%	n/a	n/a	n/a	n/a	n/a	n/a
Bournewood Hospital	290	61%	38%	1%	0%	65%	32%	65%	30%	59%	38%
Cape Cod & Islands	133	73%	13%	5%	9%	78%	22%	71%	23%	n/a	n/a
Dr. John C. Corrigan Mental Health Center	182	65%	24%	0%	10%	54%	46%	68%	32%	n/a	n/a
Fairlawn Rehabilitation Hospital	430	85%	8%	3%	4%	82%	18%	n/a	n/a	n/a	n/a
Franciscan Children's Hospital	n/a	n/a	n/a	n/a	n/a	96%	4%	96%	4%	n/a	n/a
HealthSouth Rehabilitation Hospital of Braintree	434	87%	3%	1%	9%	104%	4%	74%	20%	76%	22%
HealthSouth Rehabilitation Hospital of New England* °	398	91%	4%	0%	4%	85%	15%	88%	12%	90%	17%
HealthSouth Rehabilitation Hospital of Western	240	82%	16%	0%	1%	83%	17%	58%	12%	n/a	n/a
Hebrew Rehabilitation Center at Dedham	n/a	n/a	n/a	n/a	n/a	89%	0%	75%	1%	59%	7%

Facility Name	# HCPs	Vaccine Coverage 2015-16	Vaccine Declined 2015-16	HCP w/ Medical Contra-indication 2015-16	HCP w/ Unknown Vaccine Status 2015-16	Vaccine Coverage 2014-15	Vaccine Declined 2014-15	Vaccine Coverage 2013-14	Vaccine Declined 2013-14	Vaccine Coverage 2012-13	Vaccine Declined 2012-13
Hebrew Rehabilitation Center at Roslindale*	1188	91%	0%	0%	8%	95%	1%	93%	3%	55%	16%
Highpoint Treatment Center	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Kindred Stoughton	259	69%	6%	0%	25%	85%	10%	61%	6%	n/a	n/a
Kindred Stoughton	259	69%	6%	0%	25%	85%	10%	61%	6%	n/a	n/a
Lemuel Shattuck Hospital	761	64%	12%	1%	22%	74%	14%	63%	14%	60%	14%
McLean Hospital ±	2103	68%	15%	1%	15%	78%	16%	63%	9%	70%	15%
New England Sinai*	591	94%	4%	1%	2%	106%	5%	93%	7%	94%	6%
Norcap Lodge	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Pappas Rehabilitation Hospital for Children	398	85%	13%	n/a	n/a	85%	14%	91%	9%	90%	10%
Providence Behavioral Health*	388	98%	2%	0%	0%	n/a	n/a	n/a	n/a	n/a	n/a
Solomon Carter Fuller Mental Health Center	187	76%	7%	3%	14%	71%	9%	61%	23%	73%	27%
Southcoast Behavioral Health*	229	90%	3%	0%	7%	n/a	n/a	n/a	n/a	n/a	n/a
Spaulding Hospital for Continuing Care Cambridge*	820	93%	3%	1%	3%	89%	11%	88%	5%	85%	9%
Spaulding Rehabilitation Hospital Boston*	1540	90%	6%	1%	4%	90%	10%	89%	7%	84%	14%
Spaulding Rehabilitation Hospital Cape Cod*	477	93%	4%	0%	2%	n/a	n/a	84%	12%	n/a	n/a
Taunton State Hospital	205	76%	18%	6%	0%	69%	28%	66%	9%	104%	22%
Tewksbury Hospital	1078	49%	36%	1%	13%	74%	16%	76%	13%	67%	16%
Vibra Hospital of Southeastern	294	89%	11%	1%	0%	93%	10%	89%	16%	61%	39%
Vibra Hospital of Western Massachusetts	397	63%	4%	0%	33%	88%	9%	n/a	n/a	n/a	n/a
Vibra Hospital of Western Massachusetts - Central	112	79%	7%	1%	13%	89%	6%	73%	27%	n/a	n/a

Facility Name	# HCPs	Vaccine Coverage 2015-16	Vaccine Declined 2015-16	HCP w/ Medical Contra-indication 2015-16	HCP w/ Unknown Vaccine Status 2015-16	Vaccine Coverage 2014-15	Vaccine Declined 2014-15	Vaccine Coverage 2013-14	Vaccine Declined 2013-14	Vaccine Coverage 2012-13	Vaccine Declined 2012-13
Walden Behavioral Care	215	66%	34%	0%	0%	57%	43%	61%	19%	n/a	n/a
Western Massachusetts	310	65%	18%	5%	12%	76%	24%	74%	26%	70%	30%
Westwood Lodge Hospital	707	70%	24%	3%	3%	75%	25%	63%	37%	n/a	n/a
Whittier Pavilion*	263	95%	1%	0%	3%	91%	9%	n/a	n/a	n/a	n/a
Whittier Rehabilitation	379	87%	6%	0%	7%	87%	10%	95%	12%	87%	13%
Whittier Rehabilitation Hospital Bradford*	357	98%	1%	1%	0%	98%	2%	97%	3%	90%	4%
Worcester Recovery Center and Hospital	761	66%	17%	4%	12%	81%	19%	78%	22%	89%	11%

* Vaccination rate greater than 90% in 2015-16

°° Data included in Anna Jaques acute care hospital report

° 2015-2016 submission includes data for Healthsouth New England at Beverly and Healthsouth New England at Lowell

± Includes data for McLean Southeast