# Influenza vaccination coverage for staff of residential care facilities British Columbia, 2015/16

## Background

Immunization coverage assessment is an important part of a quality immunization program and serves three main functions:

- i) Identifying populations with low levels of immunization coverage
- ii) Evaluating the delivery of immunization programs
- iii) Informing program planning

Targets for coverage in this population have been identified at the provincial and national levels at 80%.<sup>1,2</sup> At the national level, the target is 95% coverage for staff of long-term care facilities who have extensive contact with residents.<sup>2</sup>

From the 2005/06 to 2011/12 influenza seasons, annual influenza vaccination coverage for staff of residential care facilities in BC ranged from 49% to 68%. Coverage increased following implementation of the new BC Influenza Prevention Policy, ranging from 75-79% for seasons 2012/13 through 2014/15.

The BC Influenza Prevention Policy requires healthcare workers in all health authorities to be vaccinated against influenza or wear a surgical mask while in patient care areas during the influenza season. The policy covers all health authority staff who work in patient care areas: unionized and excluded staff, volunteers, paramedics, students, contractors, and physicians. The policy was widely communicated; it received extensive provincial and national media attention and its implementation was accompanied by strategies such as the use of peer immunizers. Staff reporting of their influenza immunization was enabled through an online immunization self-reporting website. Disciplinary measures for staff who do not comply with the Policy include loss of privileges and termination of employment. These measures were put in abeyance for the 2012/13 season but were enacted in all seasons from 2013/14 onward.

## **Objective**

To quantify the percentage of staff in residential care facilities in British Columbia who were vaccinated against influenza during the 2015/16 influenza season.

#### **Methods**

Influenza immunization coverage for healthcare workers in residential care facilities was calculated at the facility level, health service delivery area level, health authority level, and for BC. There are five regional health authorities, which are comprised of 16 health service delivery areas.

Residential care facilities were defined as facilities with 50% or more residents aged 65 years and older that are either:

- licensed under the Hospital Act; or
- licensed under the Community Care and Assisted Living Act and provide some health care services.





There were two sources of influenza vaccination coverage data: an anonymised individual healthcare worker level dataset from the electronic Workplace Health Indicator Tracking and Evaluation (WHITE) database of occupational health records, and data entered by health authority staff into a BC Centre for Disease Control (BCCDC) web application. When data from both sources were available for an individual institution, WHITE data were used.

This was the fourth season of influenza coverage reporting using WHITE data. Staff whose records were included in the analysis must have been employed by a health authority and have worked for a minimum of 8 hours during the influenza season, defined as the period December 1, 2015 to April 15, 2016. Staff who were not on a health authority's payroll (contracted staff, trainees, etc.) were not included in the WHITE database. Physicians and medical residents were not included in the WHITE database for most facilities. The BCCDC web application data were aggregate data at the facility level, and were obtained by health authority staff directly from facilities or using administrative, including WHITE, databases.

Staff were defined as all persons who work or train on a full time, part time or casual basis in a facility or hospital who have direct or indirect contact with patients or residents, regardless of whether they are health care providers. This includes administrative and non-patient care staff (e.g., medical records, housekeeping and dietary) and excludes volunteers. This definition of staff is unchanged from the 2013/14 season and is based on the Ministry's Performance Agreements.

Some healthcare workers worked at multiple facilities during the influenza season. For coverage statistics at the provincial, health authority or health service delivery area level, each healthcare worker was included only in the facility where they worked the most hours. For facility level coverage statistics, healthcare workers were included in each facility where they worked for at least 8 hours during the influenza season. This is the same method that was used for last season's (2014/15) coverage report.

Changes in coverage rates over time should be interpreted with caution as the data collection methods have changed from aggregate facility level reporting of immunization coverage as of February 28<sup>th</sup> each year prior to the 2012/13 season to individual healthcare worker level reporting using WHITE data for facilities that use WHITE, and there have been incremental methodological changes in use of WHITE data.

The results were also calculated excluding privately funded facilities. Health authorities may have more influence over the immunization practices of owned and operated, and contracted facilities.

#### Results

Reporting of facilities (tables 1 and 2)

- 324/372 (87%) residential care facilities in BC are included in this report
- For 83/324 (26%) facilities, data from the WHITE database were used; for 241/324 (74%) facilities, data entered by health authority staff into the BCCDC web application were used because WHITE data were not available

2015/16 influenza vaccination coverage (tables 3 and 4; figures 1 to 5)

- 76% (27,363/36,068) of staff of residential care facilities in BC were vaccinated against influenza, a slight decrease from the prior two years (77% in 2014/15 and 79% in 2013/14).
- 63% to 86% coverage was the range across the five regional health authorities
- 50% to 88% coverage was the range across the sixteen health service delivery areas
- 5% to 100% coverage was the range across all residential care facilities in BC
- 163/324 (50%) facilities met the provincial and national target of 80% coverage target, compared with 151/296 (51%) in 2014/15 and 230/305 (75%) in 2013/14

Results excluding privately funded facilities (tables 6 and 7)

- 227/266 (85%) publicly funded or contracted residential facilities were included
- 74% (19,232/25,820) of staff were vaccinated against influenza

## Summary

Influenza immunization data were available for the majority (87%) of residential care facilities. Influenza vaccination coverage for staff of residential care facilities in BC was 76%, 4% below the Immunize BC target of 80% coverage. The coverage was 74% when privately funded facilities were excluded from the analysis.

Within each health authority, there was a wide range of influenza vaccination coverage for residential care facilities. The reasons behind the variation in vaccination coverage between facilities were not assessed.

Influenza immunization coverage for residential facility healthcare workers in BC has been similar for the 2015/16 season (76%) compared to the 2014/15 season (77%) and 2013/14 (79%) season. Although there has been a slight downward trend in coverage since 2013/14, coverage during the last four influenza seasons was much higher than before the new BC Influenza Prevention Policy was implemented. The increased influenza immunization coverage was almost certainly due to the new Policy, as this was the only apparent change to the program. However, room for improvement remains.

# **Tables and Figures**

Table 1: Residential care facilities included by health authority, 2015/16

		Residential care facilities					
Health authority	Reported	Total	% reported				
Interior	76	94	81				
Fraser	89	102	87				
Vancouver Coastal	59	62	95				
Vancouver Island	86	90	96				
Northern	14	24	58				
British Columbia	324	372	87				

Table 2: Data source used to calculate influenza vaccination coverage, 2015/16

	Residential care facilities								
Health authority	WHITE*	Aggregate*	Total						
Interior	32	44	76						
Fraser	7	82	79						
Vancouver Coastal	17	42	59						
Vancouver Island	15	71	86						
Northern	12	2	14						
British Columbia	83	241	324						

Note: WHITE data were the 1<sup>st</sup> choice and aggregate reporting was the 2<sup>nd</sup> choice.

Aggregate: facility influenza immunization coverage statistics were reported in aggregate format by health authority staff using an online database. Aggregate reporting from Fraser Health does not include casual staff.

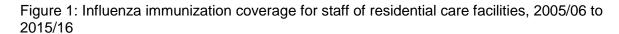
<sup>\*</sup> WHITE: facility influenza immunization coverage statistics were calculated from the Workplace Health Indicator Tracking and Evaluation database.

Table 3: Influenza vaccination coverage for staff of residential care facilities by health authority, health service delivery area, 2015/16

	Residential care facility staff					
Health authority	Immunized	Total	%			
Interior	5,627	7,803	72			
East Kootenay	650	1,054	62			
Kootenay Boundary	546	779	70			
Okanagan	3,117	4,208	74			
Thompson/Cariboo/Shuswap	1,314	1,762	75			
Fraser	7,494	9,457	79			
Fraser East	1,533	1,907	80			
Fraser North	2,801	3,470	81			
Fraser South	3,160	4,080	77			
Vancouver Coastal	7,028	8,215	86			
Richmond	789	894	88			
Vancouver	4,493	5,267	85			
N Shore/Coast Garibaldi	1,746	2,054	85			
Vancouver Island	6,240	9,049	69			
South Vancouver Island	3,316	4,936	67			
Central Vancouver Island	2,194	3,212	68			
North Vancouver Island	730	901	81			
Northern	974	1,544	63			
Northwest	271	382	71			
Northern Interior	542	843	64			
Northeast	161	319	50			
ВС	27,363	36,068	76			

Table 4: Residential care facility staff influenza vaccination coverage by health authority, 2006/07 to 2015/16

2015/16												
			Inf	luenza imr	nunization	coverage	(%)					
for staff of residential care facilities by influenza season												
Health authority	2006/07	2007/08	2008/09	2009/10	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16		
Interior	56	60	56	42	48	49	69	73	74	72		
Fraser	72	73	67	53	58	63	80	87	82	79		
Vancouver Coastal	75	76	74	61	69	67	83	83	85	86		
Vancouver Island	63	58	58	43	47	51	70	72	71	69		
Northern	57	58	49	32	49	47	70	72	71	63		
British Columbia	67	67	64	49	56	57	75	79	77	76		



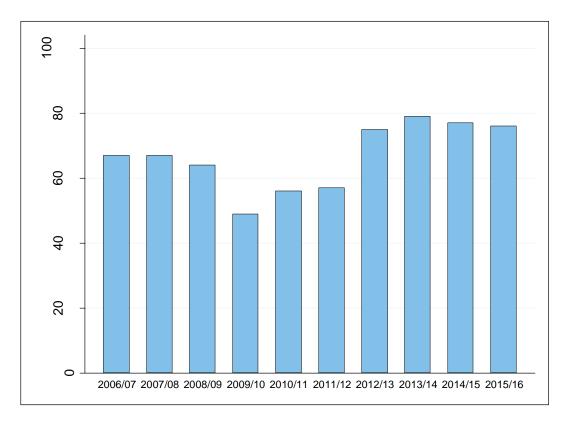


Figure 2: Influenza immunization coverage for staff of residential care facilities by health authority, 2015/16

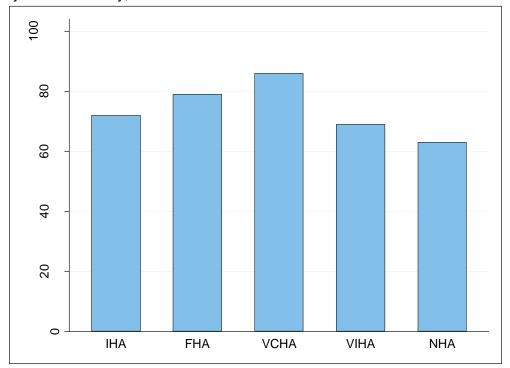


Figure 3: Influenza immunization coverage for staff of residential care facilities by health service delivery area, 2015/16

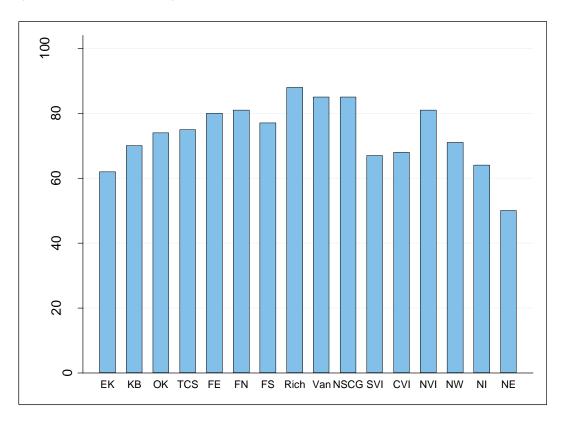


Figure 4: Influenza immunization coverage for staff of residential care facilities by facility size (number of staff), 2015/16

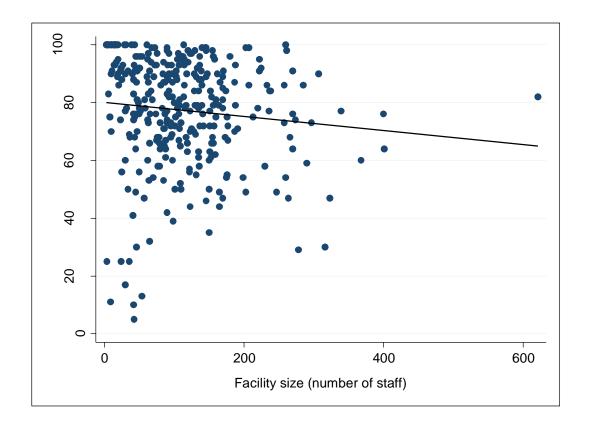


Figure 5: Influenza immunization coverage for staff of residential care facilities by facility within each health authority, 2015/16

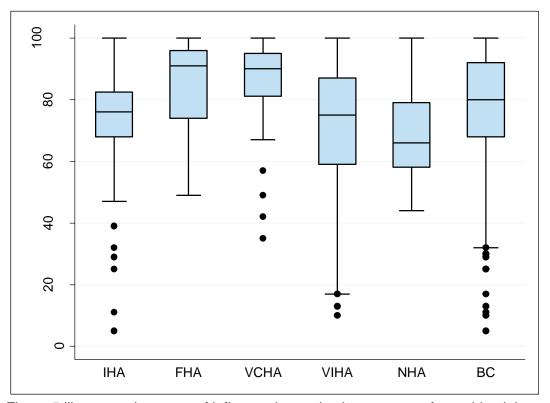


Figure 5 illustrates the range of influenza immunization coverage for residential care facilities in each health authority and for BC for the 2015/16 influenza season. The horizontal line below each box represents the lowest observed coverage value that is greater than or equal to the first quartile minus 1.5 times the interquartile range; the lower edge of each box represents the 25<sup>th</sup> percentile; the solid horizontal line within each box represent the median coverage value; the upper edge of each box represents the 75<sup>th</sup> percentile; the horizontal line above each box represents the highest observed coverage value that is less than or equal to the third quartile plus the interquartile range; and the dots represent facilities with unusually high or low coverage values which may be outliers.

Table 5: Immunization coverage for staff of residential care facilities by health authority, health service delivery area, 2007/08 to 2015/16

					Influenza	season					
Health authority		2007/08	2008/09	2009/10	2009/10 H1N1	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16
INTERIOR	immunized	4,512	4,196	3,300	-	3,606	4,359	5,386	4,801	5,819	5,627
	total staff	7,491	7,491	7,913	-	7,576	8,807	7,815	6,547	7,878	7,803
	% immunized	60	56	42	-	48	49	69	73	74	72
East Kootenay	immunized	449	211	303	-	235	277	655	626	594	650
	total staff	750	400	786	-	633	690	946	935	802	1,054
	% immunized	60	53	39	-	37	40	69	67	74	62
Kootenay Boundary	immunized	386	365	260	-	307	324	538	583	522	546
	total staff	804	859	824	-	878	777	881	836	809	779
	% immunized	48	42	32	-	35	42	61	70	65	70
Okanagan	immunized	2,439	2,363	1,809	-	2,075	3,051	3,181	2,272	3,286	3,117
	total staff	4,146	4,142	4,572	-	4,332	5,943	4,640	3,105	4,515	4,208
	% immunized	59	57	40	-	48	51	69	73	73	74
Thomps Carib Shuswap	immunized	1,238	1,257	928	-	989	707	1,012	1,320	1,417	1,314
	total staff	1,791	2,090	1,731	-	1,733	1,397	1,348	1,671	1,752	1,762
	% immunized	69	60	54	-	57	51	75	79	81	75
FRASER	immunized	7,550	7,043	5,790	5,661	6,262	6,903	8,756	6,059	8,247	7,494
	total staff	10,319	10,500	10,890	10,795	10,746	11,041	10,955	6,937	10,084	9,457
	% immunized	73	67	53	52	58	63	80	87	82	79
Fraser East	immunized	1,386	1,246	1,118	1,010	1,303	1,370	1,409	875	1,434	1,533
	total staff	2,070	1,994	2,185	2,179	2,109	2,093	1,839	999	1,755	1,907
E N. d	% immunized	67	62	51	46	62	65	77	88	82	80
Fraser North	immunized	3,009	2,686	2,187	2,155	2,294	2,616	3,362	2,589	3,577	2,801
	total staff	4,003	3,926	3,818	3,806	3,982	3,955	4,213	3,025	4,562	3,470
France Courth	% immunized	75	68	57	57	58	66	80	86	78	81
Fraser South	immunized	3,155	3,111	2,485	2,496	2,665	2,917	3,985	2,595	3,236	3,160
	total staff	4,246	4,580	4,887	4,810	4,655	4,993	4,903	2,913	3,767	4,080
	% immunized	74	68	51	52	57	58	81	89	86	77

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Table 5 (continued): Immunization coverage for staff of residential care facilities by health authority, health service delivery area, 2007/08 to 2015/16

					Influenza	season					
Health authority		2007/08	2008/09	2009/10	2009/10 H1N1	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16
VANCOUVER COASTAL	immunized	6,107	6,045	5,239	4,645	5,604	5,272	6,350	7,077	5,652	7,028
	total staff	8,070	8,185	8,564	8,564	8,073	7,816	7,652	8,491	6,672	8,215
	% immunized	76	74	61	54	69	67	83	83	85	86
Richmond	immunized	716	755	669	443	586	625	701	805	644	789
	total staff	921	951	930	930	820	903	803	918	706	894
	% immunized	78	79	72	48	71	69	87	88	91	88
Vancouver	immunized	4,128	3,818	3,342	3,138	3,734	3,445	4,196	4,827	3,881	4,493
	total staff	5,344	5,077	5,421	5,421	5,257	4,922	5,020	5,662	4,514	5,267
	% immunized	77	75	62	58	71	70	84	85	86	85
N Shore/Coast Garibaldi	immunized	1,263	1,472	1,228	1,064	1,284	1,202	1,453	1,445	1,127	1,746
	total staff	1,805	2,157	2,213	2,213	1,996	1,991	1,829	1,911	1,452	2,054
	% immunized	70	68	55	48	64	60	79	76	78	85
VANCOUVER ISLAND	immunized	4,331	4,528	3,596	-	4,101	4,166	5,852	6,068	6,350	6,240
	total staff	7,420	7,809	8,382	-	8,681	8,244	8,370	8,429	8,941	9,049
	% immunized	58	58	43	-	47	51	70	72	71	69
South Van Island	immunized	2,462	2,352	2,069	-	2,255	2,170	3,263	3,273	3,487	3,316
	total staff	3,930	4,027	4,364	-	4,322	4,016	4,563	4,475	4,992	4,936
	% immunized	63	58	47	-	52	54	72	73	70	67
Central Van Island	immunized	1,492	1,724	1,132	-	1,398	1,441	1,894	2,107	2,163	2,194
	total staff	2,715	2,931	3,043	-	3,283	3,218	2,828	3,106	3,117	3,212
	% immunized	55	59	37	-	43	45	67	68	69	68
North Van Island	immunized	377	452	395	-	448	555	695	688	700	730
	total staff	775	851	975	-	1,076	1,010	979	848	832	901
	% immunized	49	53	41	-	42	55	71	81	84	81

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Table 5 (continued): Immunization coverage for staff of residential care facilities by health authority, health service delivery area, 2007/08 to 2015/16

					Influenza	season					
Health authority		2007/08	2008/09	2009/10	2009/10 H1N1	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16
NORTHERN	immunized	845	779	529	424	777	835	1,273	1,035	1,099	974
	total staff	1,470	1,578	1,651	1,647	1,584	1,792	1,828	1,432	1,558	1,544
	% immunized	57	49	32	26	49	47	70	72	71	63
Northwest	immunized	277	183	177	132	284	296	394	287	327	271
	total staff	516	514	434	457	458	511	495	368	401	382
	% immunized	54	36	41	29	62	58	80	78	82	71
Northern Interior	immunized	402	427	270	225	369	423	616	574	594	542
	total staff	617	652	828	801	842	875	866	769	857	843
	% immunized	65	65	33	28	44	48	71	75	69	64
Northeast	immunized	166	169	82	67	124	116	263	174	178	161
	total staff	337	412	389	389	284	406	467	295	300	319
	% immunized	49	41	21	17	44	29	56	59	59	50
BC	immunized	23,345	22,591	18,454	-	20,350	21,535	27,617	25,040	27,167	27,363
	total staff	34,770	35,563	37,400	-	36,660	37,700	36,620	31,836	35,133	36,068
	% immunized	67	64	49	-	56	57	75	79	77	76

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### Coverage excluding privately funded residential care facilities

Table 6: Number and proportion of residential care facilities reporting coverage by health authority, 2015/16

(excluding privately funded residential care facilities)

	Reside	Residential care facilities				
Health authority	Reported	Total	% reported			
Interior	47	58	81			
Fraser	78	91	86			
Vancouver Coastal	20	21	95			
Vancouver Island	70	74	95			
Northern	12	22	55			
British Columbia	227	266	85			

Table 7: Influenza vaccination coverage for staff of residential care facilities by health authority, health service delivery area, 2015/16 (excluding privately funded residential care facilities)

	Reside	ntial care facility	staff
Health authority	Immunized	Total	%
Interior	3,381	4,633	73
East Kootenay	370	483	77
Kootenay Boundary	308	462	67
Okanagan	1,636	2,261	72
Thompson/Cariboo/Shuswap	1,067	1,427	75
Fraser	6,764	8,603	79
Fraser East	1,520	1893	80
Fraser North	2,547	3,178	80
Fraser South	2,697	3,532	76
Vancouver Coastal	2,473	2,976	83
Richmond	355	400	89
Vancouver	1,298	1,496	87
N Shore/Coast Garibaldi	820	1,080	76
Vancouver Island	5,716	8,233	69
South Vancouver Island	2,900	4,320	67
Central Vancouver Island	2,086	3,012	69
North Vancouver Island	730	901	81
Northern	898	1,375	65
Northwest	271	382	71
Northern Interior	466	674	69
Northeast	161	319	50
BC	19,232	25,820	74

### References

- 1. Immunize BC: a strategic framework for immunization in B.C. 2007. Victoria, BC: British Columbia Ministry of Health. Available at: http://www.health.gov.bc.ca/library/publications/year/2007/immunizebc.pdf
- 2. Public Health Agency of Canada. Final Report of Outcomes from the National Consensus Conference for Vaccine-Preventable Diseases in Canada. *Can Commun Dis Rep* 2007;33S3:1-56. Available at: <a href="http://www.phac-aspc.gc.ca/publicat/ccdr-mtc/08pdf/34s2-eng.pdf">http://www.phac-aspc.gc.ca/publicat/ccdr-mtc/08pdf/34s2-eng.pdf</a>

### **APPENDIX**

# Additional vaccination and Policy compliance information for staff of residential care facilities British Columbia, 2015/16

Since 2013/14, health authority staff covered by the Influenza Prevention Policy have been required to self-report their influenza vaccination via an online self-reporting website. For the first time, in the 2015/16 season, all staff were asked to self-report either being vaccinated, or declining vaccination with the commitment to wear a mask in patient care areas throughout the influenza season. Online self-reporting was only possible for facilities that use the electronic Workplace Health Indicator Tracking and Evaluation (WHITE) database of occupational health records.

This appendix presents self-reported compliance with the policy and other vaccination information for all residential care staff in the WHITE database.

## **Objectives**

- To quantify the percentages of staff in residential care facilities in British Columbia who self-reported vaccination or vaccine declinations as per the Influenza Prevention Policy
- ii) To quantify self-reported vaccination and vaccine declinations by job type among residential care staff
- iii) To quantify the source of influenza vaccination among residential care staff by immunizer type

#### **Methods**

The only source of data for analyses in this appendix is an anonymized individual healthcare worker level dataset from the electronic Workplace Health Indicator Tracking and Evaluation (WHITE) database of occupational health records.

Staff whose records were included in the analysis must have been employed by a health authority and have worked for a minimum of 8 hours during the influenza season, defined as the period December 1, 2015 to April 15, 2016. Staff who were not on a health authority's payroll (contracted staff, trainees, etc.) were not included in the WHITE database. Physicians and medical residents were not included in the WHITE database for most facilities.

Staff were defined as all persons who work or train on a full time, part time or casual basis in a facility or hospital who have direct or indirect contact with patients or residents, regardless of whether they are health care providers. This includes administrative and non-patient care staff (e.g., medical records, housekeeping and dietary) and excludes volunteers. This definition of staff is unchanged from the 2013/14 season and is based on the Ministry's Performance Agreements.

Some healthcare workers (HCWs) worked at multiple facilities or in multiple positions during the influenza season. For coverage statistics at the provincial, health authority or health service delivery area level, each healthcare worker was included only in the facility and the job at which they worked the most hours.

Data on 'policy compliance status' (Table 2) originates from the self-reporting website at which staff have the option to record their vaccination or vaccine declination. The self-reporting website populates each HCW's WHITE database record. Data on HCWs' job descriptions (Table 3) is recorded in WHITE using job codes designated by Health Sector Compensation Information Systems (HSCIS). HSCIS codes are grouped into 162 subfamilies, which have been further collapsed into 11 job categories and 1 'other' category for the purposes of this report. Data on the immunizer type (Table 4) is reported by staff on the self-reporting website.

Table 1: Residential care facilities with healthcare worker immunization data in WHITE database, by health authority 2015/16

Health authority	Residentia uthority WHITE data Total						
Interior	32	94	34				
Fraser	7	102	7				
Vancouver Coastal	17	62	27				
Vancouver Island	15	90	17				
Northern	12	24	50				
British Columbia	83	372	22				

Table 2: Policy compliance status for staff of the 83 residential care facilities with healthcare worker immunization data in WHITE database by health authority, health service delivery area, 2015/16

### Residential care facility staff

Residential care racinty starr							
Health authority					Not		
	Vaccinated	%	Declined	%	reported	%	Total
Interior	2,594	75	289	8	583	17	3,466
East Kootenay	491	77	58	9	90	14	639
Kootenay Boundary	308	67	55	12	99	21	462
Okanagan	1,177	75	123	8	269	17	1,569
Thompson/Cariboo/Shuswap	618	78	53	7	125	16	796
Fraser	1,168	76	130	9	231	15	1,529
Fraser East	91	78	3	3	22	19	116
Fraser North	607	79	75	10	86	11	768
Fraser South	470	73	52	8	123	19	645
Vancouver Coastal	2,346	84	209	7	249	9	2,804
Richmond	355	89	20	5	25	6	400
Vancouver	1,298	87	81	5	117	8	1,496
N Shore/Coast Garibaldi	693	76	108	12	107	12	908
Vancouver Island	1,440	62	103	4	779	34	2,322
South Vancouver Island	673	55	45	4	503	41	1,221
Central Vancouver Island	597	67	38	4	258	29	893
North Vancouver Island	170	82	20	10	18	9	208
Northern	898	65	130	9	347	25	1,375
Northwest	271	71	30	8	81	21	382
Northern Interior	466	69	56	8	152	23	674
Northeast	161	50	44	14	114	36	319
BC	8,446	<sup>†</sup> 73	861	7	2,189	19	11,496

<sup>&</sup>lt;sup>†</sup>This coverage percentage differs from the overall 2015/16 coverage for residential care staff (76%) due to the under-representation of residential care facilities in WHITE data. Only 83 of 372 (22%) of residential care facilities in the province have data in the WHITE database. The data presented in this appendix do not include aggregate reporting from the BCCDC Web application.

Table 3: Policy compliance status for staff of the 83 residential care facilities with healthcare worker immunization data in WHITE database by job description, 2015/16

### Residential care facility staff

	Vaccinated	%	Declined	%	Not reported	%	Total
Health care assistant	4,245	72	439	7	1,252	21	5,936
Nurse	2,319	77	252	8	459	15	3,030
Admin and Support	1,140	70	109	7	374	23	1,623
Allied health <sup>‡</sup>	315	84	24	6	35	9	374
Management or Leadership	279	83	15	4	44	13	338
Business	71	68	15	14	18	17	104
Pharmacy staff	36	82	5	11	3	7	44
Laboratory worker	11	79	1	7	2	14	14
Non-lab technologists	8	89	0	0	1	11	9
Other	16	89	1	6	1	6	18
Public health	6	100	0	0	0	0	6
Total	8,446	<sup>†</sup> 73	861	7	2,189	19	11,496

<sup>&</sup>lt;sup>†</sup>This coverage percentage differs from the overall 2015/16 coverage for residential care staff (76%) due to the under-representation of residential care facilities in WHITE data. Only 83 of 372 (22%) of residential care facilities in the province have data in the WHITE database. The data presented in this appendix do not include aggregate reporting from the BCCDC Web application.

<sup>&</sup>lt;sup>‡</sup> Allied health refers to professions in health care other than medicine and nursing (e.g. dietitians, occupational/physical/respiratory therapists, social workers etc.).

Table 4: Immunizer type for staff of the 83 residential care facilities with healthcare worker immunization data in WHITE database by health authority, 2015/16

Health Authority		IHA	FHA	VCHA	VIHA	NHA	ВС
Flu Clinic Nurse	No.	1,032	430	572	580	279	2,893
	%	40	37	24	40	31	34
Peer Nurse Immunizer	No.	884	399	501	536	377	2,697
	%	34	34	21	37	42	32
Pharmacist	No.	358	170	816	167	119	1,630
	%	14	15	35	12	13	19
Public Health	No.	163	31	72	52	85	403
	%	6	3	3	4	9	5
Family Physician	No.	54	70	193	43	16	376
	%	2	6	8	3	2	4
Other	No.	78	56	138	40	17	329
	%	3	5	6	3	2	4
Not Selected	No.	25	12	54	22	5	118
	%	1	1	2	2	1	1
Total	No.	2,594	1,168	2,346	1,440	898	8,446

### Summary

2015/16 is the first season in which WHITE data was analyzed to determine use of the self-reporting system, vaccination rates by job type, and immunizer type. Interpretation of these data is limited by the low participation in WHITE for residential care facilities.

The pattern of lower influenza vaccine uptake for 'Admin and Support' as well as 'Business' staff, also seen in the acute care staff data, suggests that direct patient care is influential in the decision to be vaccinated.

The majority of residential care staff are immunized at work by a flu clinic nurse or peer nurse immunizer. Regional variability in immunizer type may be indicative of the availability of immunizing personnel in the community (e.g. family physicians or pharmacist immunizers) as well as management decisions in how to deliver the influenza vaccine program to HCWs at the workplace.