Influenza vaccination coverage for staff of long term care facilities British Columbia, 2018/19 – Summary Report

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 among staff of long term care facilities at the provincial and national levels are 80%, and 95% at the national level for staff with extensive resident contact.^{1,2}

Objectives

To quantify the proportion of staff in BC long term care facilities who:

- i) Were vaccinated against influenza in the 2018/19 season
- ii) Self-reported their vaccination or vaccine declination including by job type
- iii) Were vaccinated by different provider types

Methods

Please refer to the separate Methods document for a full description of methods including definitions, data sources, and analyses as well as changes to methodology that should be used to interpret coverage trends over time.

Results

Reporting of facilities (Table 1 & 2)

- Out of 367 long term care facilities in BC, 352 are included in this analysis, and 330 (94%) reported influenza immunization coverage for long term care staff
- 95/330 (29%) facilities used data from the WHITE database; 235/330 (71%) facilities used data
 entered by health authority staff into the BCCDC web application because WHITE data were not
 available.

2018/19 influenza vaccination coverage (Figures 1-3, Table 3)

- 74% (29,581/39,850) of staff of long term care facilities in BC reported influenza vaccine receipt, a decrease from last year (76%)
- 66% to 79% coverage was the range across the five regional health authorities
- 54% to 81% coverage was the range across the sixteen health service delivery areas
- 11% to 100% coverage was the range across all residential care facilities in BC
- 160/330 (48%) facilities met the provincial and national target of 80% coverage, a decrease from the previous three flu seasons (50% for each).

^{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. Vaccination Coverage Goals and Vaccine Preventable Disease Reduction Targets by 2025. Available at: https://www.canada.ca/en/public-health/services/immunization-vaccine-priorities/national-immunization-strategy/vaccination-coverage-goals-vaccine-preventable-diseases-reduction-targets-2025.html

Results excluding privately funded facilities

- 238/264 (90%) owned and operated, or contracted long term care facilities that report coverage for residential care staff were included
- 67% to 79% coverage was the range across the five regional health authorities
- 74% (22,292/30,217) of staff were vaccinated against influenza

Table 1: Long term care facilities included by health authority, 2018/19

Health authority	Reported facilities	Facilities included in analysis	% reported	Excluded from analysis*	Total LTC Facilities
Interior	89	91	98	-	91
Fraser	99	107	93	-	107
Vancouver Coastal	49	56	88	5	61
Vancouver Island	77	81	95	3	84
Northern	16	17	94	7	24
British Columbia	330	352	94	15	367

^{*} Facilities were excluded from analysis if they were based in an acute site, and, therefore, staff coverage could not be disaggregated from the acute site in the WHITE data.

Table 2: Data source used to calculate influenza vaccination coverage, 2018/19

	Long term care facilities							
Health authority	WHITE*	Aggregate*	Total					
Interior	33	56	89					
Fraser	17	82	99					
Vancouver Coastal	15	34	49					
Vancouver Island	16	61	77					
Northern	14	2	16					
British Columbia	95	235	330					

Note: WHITE data were preferentially used when available.

Aggregate: facility influenza immunization coverage statistics were reported in aggregate format by health authority staff.

^{*} WHITE: facility influenza immunization coverage statistics were calculated from the Workplace Health Indicator Tracking and Evaluation database.

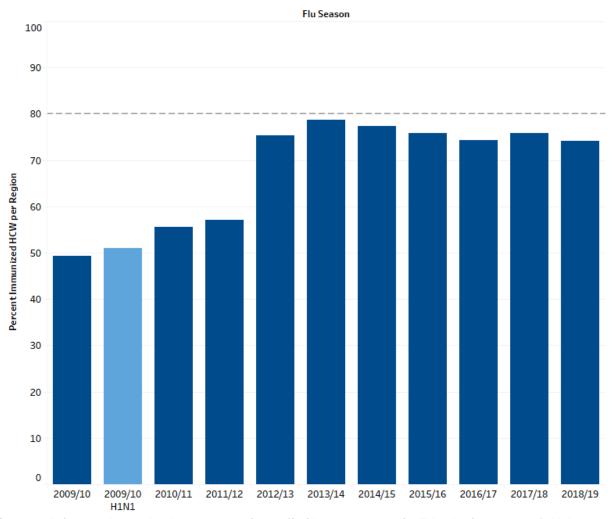


Figure 1: Influenza immunization coverage for staff of long term care facilities by flu season, British Columbia 2009/10 - 2018/19

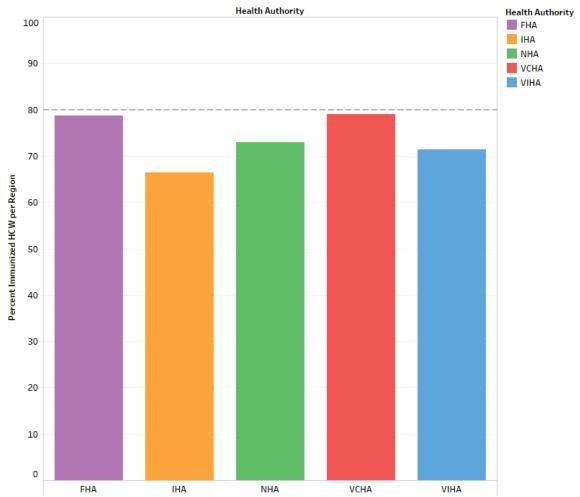


Figure 2: Influenza immunization coverage for staff of long term care facilities by health authority, British Columbia 2018/19

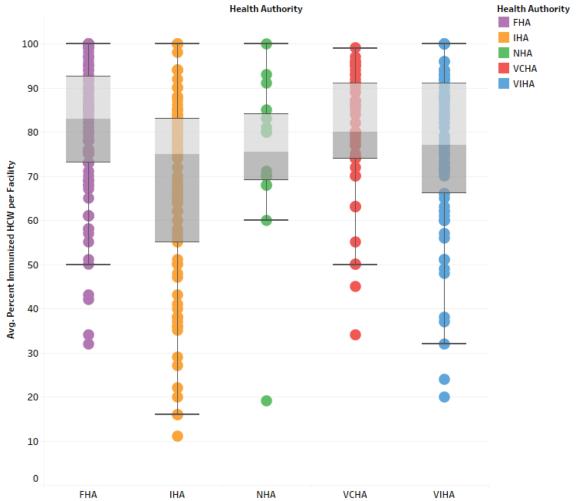


Figure 3: Influenza immunization coverage for staff of long term care facilities per facility and by health authority, British Columbia 2018/19

Table 3: Immunization coverage for staff of long term care facilities by health authority and health service delivery area, 2009/10 to 2018/19

2000/10 to 20						Influenza	a season					
Health authority		2009/10	2009/10 H1N1	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19
INTERIOR	immunized	3,300	-	3,606	4,359	5,386	4,801	5,819	5,627	6,366	6,258	5,735
	total staff	7,913	-	7,576	8,807	7,815	6,547	7,878	7,803	8,906	8,703	8,627
	% immunized	42	-	48	49	69	73	74	72	71	72	66
East Kootenay	immunized	303	-	235	277	655	626	594	650	703	626	576
	total staff	786	-	633	690	946	935	802	1,054	1,029	986	755
	% immunized	39	-	37	40	69	67	74	62	68	63	76
Kootenay Boundary	immunized	260	-	307	324	538	583	522	546	633	670	500
	total staff	824	-	878	777	881	836	809	779	915	978	924
	% immunized	32	-	35	42	61	70	65	70	69	69	54
Okanagan	immunized	1,809	-	2,075	3,051	3,181	2,272	3,286	3,117	3,622	3,490	3,398
	total staff	4,572	-	4,332	5,943	4,640	3,105	4,515	4,208	5,049	4,839	5,274
	% immunized	40	-	48	51	69	73	73	74	72	72	64
Thomps Carib Shuswap	immunized	928	-	989	707	1,012	1,320	1,417	1,314	1,408	1,472	1,261
. ,	total staff	1,731	-	1,733	1,397	1,348	1,671	1,752	1,762	1,913	1,900	1,674
	% immunized	54	-	57	51	75	79	81	75	74	79	75
FRASER	immunized	5,790	5,661	6,262	6,903	8,756	6,059	8,247	7,494	9,653	11,281	10,322
	total staff	10,890	10,795	10,746	11,041	10,955	6,937	10,084	9,457	12,708	14,259	13,110
	% immunized	53	52	58	63	80	87	82	79	76	79	79
Fraser East	immunized	1,118	1,010	1,303	1,370	1,409	875	1,434	1,533	1,752	2,278	1,625
	total staff	2,185	2,179	2,109	2,093	1,839	999	1,755	1,907	2,293	2,895	2,072
	% immunized	51	46	62	65	77	88	82	80	76	79	78
Fraser North	immunized	2,187	2,155	2,294	2,616	3,362	2,589	3,577	2,801	3,495	4,220	3,827
	total staff	3,818	3,806	3,982	3,955	4,213	3,025	4,562	3,470	4,528	5,214	4,742
	% immunized	57	57	58	66	80	86	78	81	77	81	81
Fraser South	immunized	2,485	2,496	2,665	2,917	3,985	2,595	3,236	3,160	4,406	4,783	4,870
	total staff	4,887	4,810	4,655	4,993	4,903	2,913	3,767	4,080	5,887	6,150	6,296
	% immunized	51	52	57	58	81	89	86	77	75	78	77

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Table 3 (cont'd): Immunization coverage for staff of long term care facilities by health authority and health service delivery area, 2009/10 to 2018/19

						Influenza	a season					
Health authority		2009/10	2009/10 H1N1	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19
VANCOUVER COASTAL	immunized	5,239	4,645	5,604	5,272	6,350	7,077	5,652	7,028	6,789	6,312	5,877
	total staff	8,564	8,564	8,073	7,816	7,652	8,491	6,672	8,215	8,233	7,750	7,432
	% immunized	61	54	69	67	83	83	85	86	82	81	79
Richmond	immunized	669	443	586	625	701	805	644	789	725	337	590
	total staff	930	930	820	903	803	918	706	894	847	447	736
	% immunized	72	48	71	69	87	88	91	88	86	84	80
Vancouver	immunized	3,342	3,138	3,734	3,445	4,196	4,827	3,881	4,493	4,612	4,396	4,556
	total staff	5,421	5,421	5,257	4,922	5,020	5,662	4,514	5,267	5,507	5,339	5,691
	% immunized	62	58	71	70	84	85	86	85	84	82	80
N Shore/Coast Garibaldi	immunized	1,228	1,064	1,284	1,202	1,453	1,445	1,127	1,746	1,452	1,539	731
	total staff	2,213	2,213	1,996	1,991	1,829	1,911	1,452	2,054	1,879	1,964	1,005
	% immunized	55	48	64	60	79	76	78	85	77	78	73
VANCOUVER ISLAND	immunized	3,596	-	4,101	4,166	5,852	6,068	6,350	6,240	6,005	6,660	6,614
	total staff	8,382	-	8,681	8,244	8,370	8,429	8,941	9,049	8,834	9,446	9,265
	% immunized	43	-	47	51	70	72	71	69	68	71	71
South Van Island	immunized	2,069	-	2,255	2,170	3,263	3,273	3,487	3,316	3,229	3,682	3,513
	total staff	4,364	-	4,322	4,016	4,563	4,475	4,992	4,936	4,748	5.200	4,928
	% immunized	47	-	52	54	72	73	70	67	68	71	71
Central Van Island	immunized	1,132	-	1,398	1,441	1,894	2,107	2,163	2,194	2,020	2,221	2,384
	total staff	3,043	-	3,283	3,218	2,828	3,106	3,117	3,212	3,120	3,273	3,429
	% immunized	37	=	43	45	67	68	69	68	65	68	70
North Van Island	immunized	395	-	448	555	695	688	700	730	756	757	717
	total staff	975	-	1,076	1,010	979	848	832	901	966	973	908
	% immunized	41	-	42	55	71	81	84	81	78	78	79

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Table 3 (cont'd): Immunization coverage for staff of long term care facilities by health authority and health service delivery area, 2009/10 to 2018/19

						Influenza	season					
Health authority		2009/10	2009/10 H1N1	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19
NORTHERN	immunized	529	424	777	835	1,273	1,035	1,099	974	1,078	1,156	1,033
	total staff	1,651	1,647	1,584	1,792	1,828	1,432	1,558	1,544	1,562	1,596	1,416
	% immunized	32	26	49	47	70	72	71	63	69	72	73
Northwest	immunized	177	132	284	296	394	287	327	271	292	333	276
	total staff	434	457	458	511	495	368	401	382	416	439	352
	% immunized	41	29	62	58	80	78	82	71	70	76	78
Northern Interior	immunized	270	225	369	423	616	574	594	542	597	612	584
	total staff	828	801	842	875	866	769	857	843	833	838	795
	% immunized	33	28	44	48	71	75	69	64	72	73	73
Northeast	immunized	82	67	124	116	263	174	178	161	189	211	173
	total staff	389	389	284	406	467	295	300	319	313	320	269
	% immunized	21	17	44	29	56	59	59	50	60	66	64
ВС	immunized	18,454	-	20,350	21,535	27,617	25,040	27,167	27,363	29,891	31.667	29,581
	total staff	37,400	-	36,660	37,700	36,620	31,836	35,133	36,068	40,243	41,755	39,850
	% immunized	49	-	56	57	75	79	77	76	74	76	74

2018/19 policy compliance results (Figure 4, Table 4)

- Policy compliance status was available for 38% (11,492/30,217) of staff at long term care facilities that are included in WHITE data (n=95)
- Allied health staff reported the highest coverage
- 79% of staff in long term care facilities in BC reported being vaccinated, 11% reported declining vaccination, and 10% did not report vaccination status and were considered to be unvaccinated

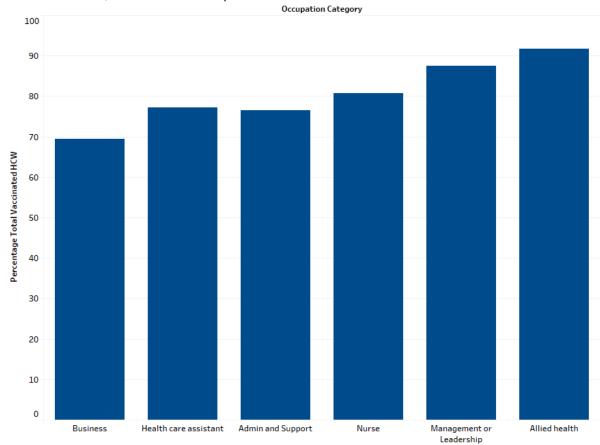


Figure 4: Influenza immunization coverage for staff of long term care facilities by occupation group, British Columbia 2018/19

Table 4: Influenza Prevention Policy compliance for staff of long term care facilities who are included in WHITE by health authority, 2018/19

	Compliance Status										
Health	Vaccinated	Vaccinated	Declined	Declined	Not reported	Not reported	Total	Total			
Authority	No.	%	No.	%	No.	%	No.	%			
IHA	2561	80	355	11	296	9	3212	100			
FHA	2141	81	276	10	241	9	2658	100			
VCHA	1613	79	171	8	262	13	2046	100			
VIHA	1820	78	290	12	226	10	2336	100			
NHA	920	74	203	16	117	9	1240	100			
Total	9055	79	1295	11	1142	10	11492	100			