

Influenza vaccination coverage for staff of long term care facilities British Columbia, 2019/20 – 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 2019/20 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 376 long term care facilities in BC, 365 are included in this analysis, and 304 (83%) reported influenza immunization coverage for long term care staff
- 105/365 (29%) facilities used data from the WHITE database; 260/365 (71%) facilities used data entered by health authority staff into the BCCDC web application because WHITE data were not available.

2019/20 influenza vaccination coverage (**Figures 1-3, Table 3**)

- 69% (25,596/37,092) of staff of long term care facilities in BC reported influenza vaccine receipt, the lowest since the Influenza Prevention Policy was enacted in 2012/13
- 64% to 73% coverage was the range across the five regional health authorities
- 55% to 84% coverage was the range across the sixteen health service delivery areas
- 9% to 100% coverage was the range across all residential care facilities in BC
- 94/365 (26%) facilities met the provincial and national target of 80% coverage

Results excluding privately funded facilities

- Out of 312 owned and operated, or contracted long term care facilities in BC, 301 are included in this analysis, and 253 (84%) reported influenza immunization coverage for long term care staff
- 65% to 73% coverage was the range across the five regional health authorities
- 70% (22,674/32,623) of staff were vaccinated against influenza

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>

Table 1: Long term care facilities included by health authority, 2019/20

Health authority	Reported facilities	Facilities included in analysis	% reported	Excluded from analysis*	Total LTC Facilities
Interior	88	92	95.7	1	93
Fraser	78	108	72.2	1	109
Vancouver Coastal	38	65	58.5	-	65
Vancouver Island	83	83	100	2	85
Northern	17	17	100	7	24
British Columbia	304	365	83.3	11	376

* 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, 2019/20

Health authority	Long term care facilities		
	WHITE*	Aggregate*	Total
Interior	34	58	92
Fraser	18	90	108
Vancouver Coastal	19	46	65
Vancouver Island	19	64	83
Northern	15	2	17
British Columbia	105	260	365

Note: WHITE data were preferentially used when available.

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

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

Figure 1: Influenza immunization coverage for staff of long term care facilities by flu season, British Columbia 2009/10 - 2019/20

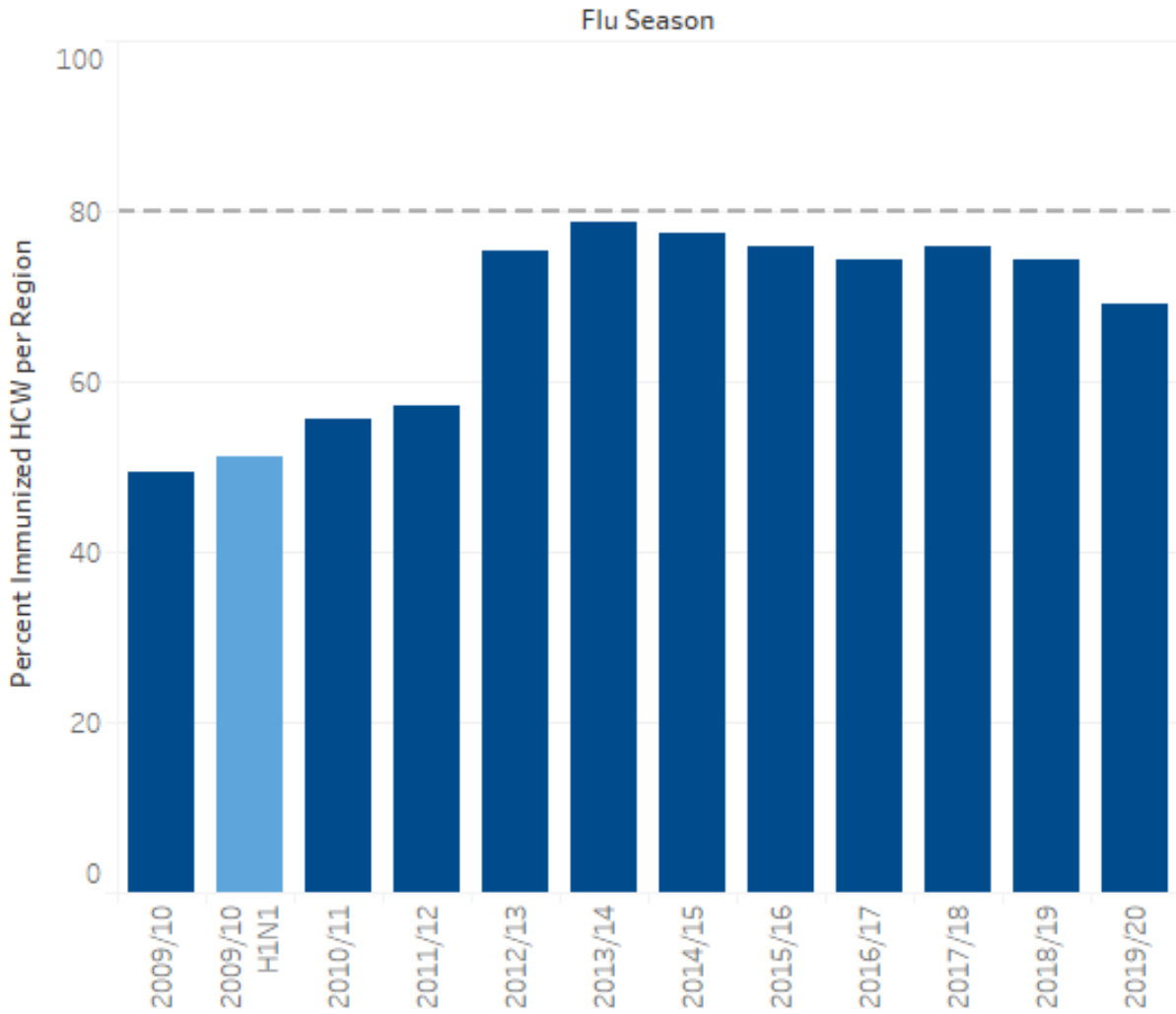


Figure 2: Influenza immunization coverage for staff of long term care facilities by health authority, British Columbia 2019/20

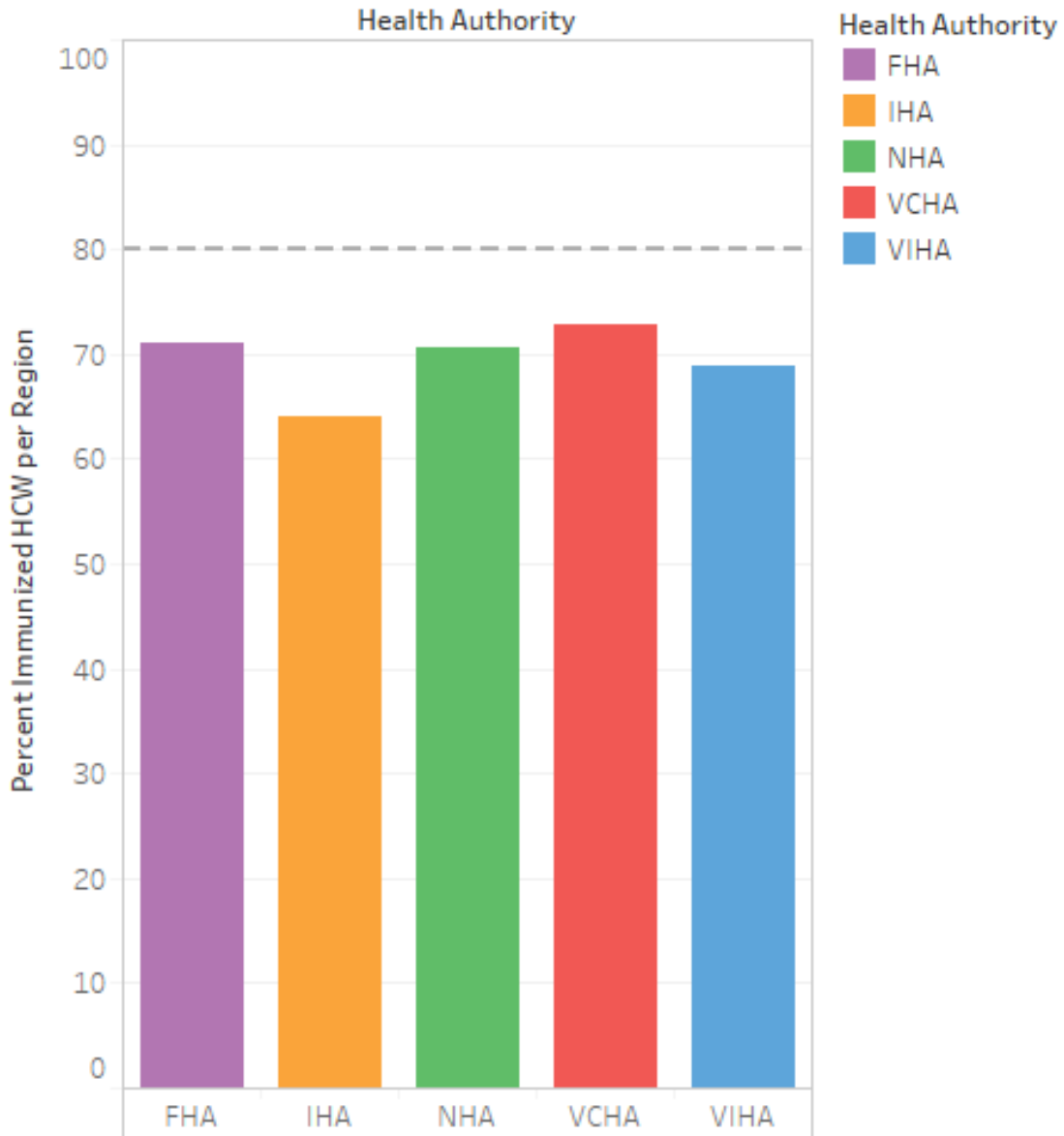


Figure 3: Influenza immunization coverage for staff of long term care facilities per facility and by health authority, British Columbia 2019/20

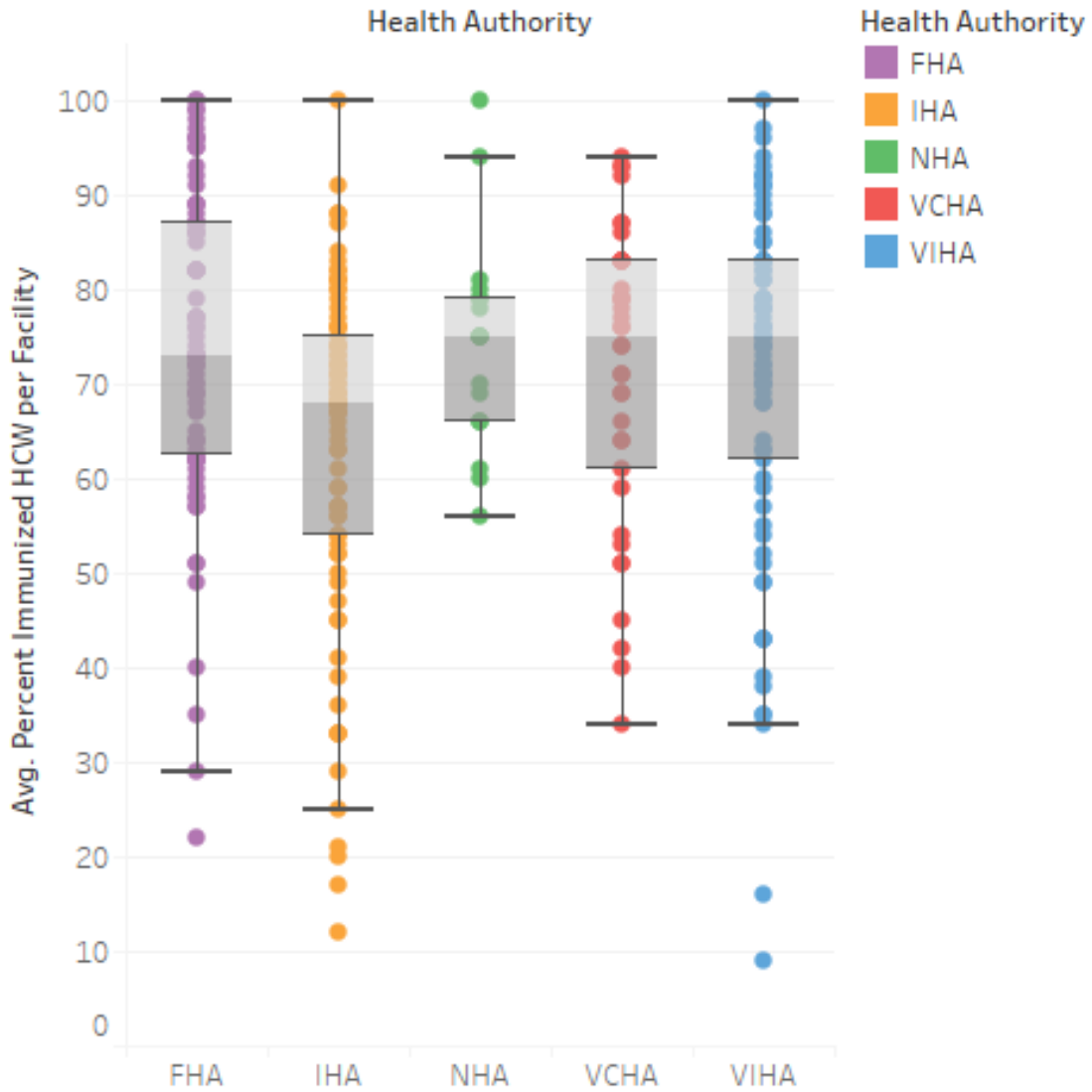


Table 3: Immunization coverage for staff of long term care facilities by health authority and health service delivery area, 2010/11 to 2019/20

Health authority		Influenza season									
		2010/11	2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20
INTERIOR	immunized	3,606	4,359	5,386	4,801	5,819	5,627	6,366	6,258	5,735	5,686
	total staff	7,576	8,807	7,815	6,547	7,878	7,803	8,906	8,703	8,627	8,876
	% immunized	48	49	69	73	74	72	71	72	66	64
East Kootenay	immunized	235	277	655	626	594	650	703	626	576	567
	total staff	633	690	946	935	802	1,054	1,029	986	755	805
	% immunized	37	40	69	67	74	62	68	63	76	70
Kootenay Boundary	immunized	307	324	538	583	522	546	633	670	500	495
	total staff	878	777	881	836	809	779	915	978	924	909
	% immunized	35	42	61	70	65	70	69	69	54	55
Okanagan	immunized	2,075	3,051	3,181	2,272	3,286	3,117	3,622	3,490	3,398	3,283
	total staff	4,332	5,943	4,640	3,105	4,515	4,208	5,049	4,839	5,274	5,308
	% immunized	48	51	69	73	73	74	72	72	64	62
Thomps Carib Shuswap	immunized	989	707	1,012	1,320	1,417	1,314	1,408	1,472	1,261	1,341
	total staff	1,733	1,397	1,348	1,671	1,752	1,762	1,913	1,900	1,674	1,854
	% immunized	57	51	75	79	81	75	74	79	75	72
FRASER	immunized	6,262	6,903	8,756	6,059	8,247	7,494	9,653	11,281	10,322	7,954
	total staff	10,746	11,041	10,955	6,937	10,084	9,457	12,708	14,259	13,110	11,203
	% immunized	58	63	80	87	82	79	76	79	79	71
Fraser East	immunized	1,303	1,370	1,409	875	1,434	1,533	1,752	2,278	1,625	1,574
	total staff	2,109	2,093	1,839	999	1,755	1,907	2,293	2,895	2,072	2,177
	% immunized	62	65	77	88	82	80	76	79	78	72
Fraser North	immunized	2,294	2,616	3,362	2,589	3,577	2,801	3,495	4,220	3,827	3,141
	total staff	3,982	3,955	4,213	3,025	4,562	3,470	4,528	5,214	4,742	4,339
	% immunized	58	66	80	86	78	81	77	81	81	72
Fraser South	immunized	2,665	2,917	3,985	2,595	3,236	3,160	4,406	4,783	4,870	3,239
	total staff	4,655	4,993	4,903	2,913	3,767	4,080	5,887	6,150	6,296	4,687
	% immunized	57	58	81	89	86	77	75	78	77	69

Table 3 (cont'd): Immunization coverage for staff of long term care facilities by health authority and health service delivery area, 2010/11 to 2019/20

Health authority		Influenza season									
		2010/11	2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20
VANCOUVER COASTAL	immunized	5,604	5,272	6,350	7,077	5,652	7,028	6,789	6,312	5,877	4,025
	total staff	8,073	7,816	7,652	8,491	6,672	8,215	8,233	7,750	7,432	5,527
	% immunized	69	67	83	83	85	86	82	81	79	73
Richmond	immunized	586	625	701	805	644	789	725	337	590	309
	total staff	820	903	803	918	706	894	847	447	736	404
	% immunized	71	69	87	88	91	88	86	84	80	77
Vancouver	immunized	3,734	3,445	4,196	4,827	3,881	4,493	4,612	4,396	4,556	2,732
	total staff	5,257	4,922	5,020	5,662	4,514	5,267	5,507	5,339	5,691	3,479
	% immunized	71	70	84	85	86	85	84	82	80	79
N Shore/Coast Garibaldi	immunized	1,284	1,202	1,453	1,445	1,127	1,746	1,452	1,539	731	984
	total staff	1,996	1,991	1,829	1,911	1,452	2,054	1,879	1,964	1,005	1,644
	% immunized	64	60	79	76	78	85	77	78	73	60
VANCOUVER ISLAND	immunized	4,101	4,166	5,852	6,068	6,350	6,240	6,005	6,660	6,614	6,774
	total staff	8,681	8,244	8,370	8,429	8,941	9,049	8,834	9,446	9,265	9,847
	% immunized	47	51	70	72	71	69	68	71	71	69
South Van Island	immunized	2,255	2,170	3,263	3,273	3,487	3,316	3,229	3,682	3,513	3,491
	total staff	4,322	4,016	4,563	4,475	4,992	4,936	4,748	5,200	4,928	5,145
	% immunized	52	54	72	73	70	67	68	71	71	68
Central Van Island	immunized	1,398	1,441	1,894	2,107	2,163	2,194	2,020	2,221	2,384	2,463
	total staff	3,283	3,218	2,828	3,106	3,117	3,212	3,120	3,273	3,429	3,726
	% immunized	43	45	67	68	69	68	65	68	70	66
North Van Island	immunized	448	555	695	688	700	730	756	757	717	820
	total staff	1,076	1,010	979	848	832	901	966	973	908	976
	% immunized	42	55	71	81	84	81	78	78	79	84

Table 3 (cont'd): Immunization coverage for staff of long term care facilities by health authority and health service delivery area, 2010/11 to 2019/20

Health authority		Influenza season									
		2010/11	2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20
NORTHERN	immunized	777	835	1,273	1,035	1,099	974	1,078	1,156	1,033	1,157
	total staff	1,584	1,792	1,828	1,432	1,558	1,544	1,562	1,596	1,416	1,639
	% immunized	49	47	70	72	71	63	69	72	73	71
Northwest	immunized	284	296	394	287	327	271	292	333	276	336
	total staff	458	511	495	368	401	382	416	439	352	450
	% immunized	62	58	80	78	82	71	70	76	78	75
Northern Interior	immunized	369	423	616	574	594	542	597	612	584	631
	total staff	842	875	866	769	857	843	833	838	795	865
	% immunized	44	48	71	75	69	64	72	73	73	73
Northeast	immunized	124	116	263	174	178	161	189	211	173	190
	total staff	284	406	467	295	300	319	313	320	269	324
	% immunized	44	29	56	59	59	50	60	66	64	59
BC	immunized	20,350	21,535	27,617	25,040	27,167	27,363	29,891	31,667	29,581	25,596
	total staff	36,660	37,700	36,620	31,836	35,133	36,068	40,243	41,755	39,850	37,092
	% immunized	56	57	75	79	77	76	74	76	74	69

2019/20 policy compliance results (**Figure 4, Table 4**)

- Policy compliance status was available for 37% (13,708/37,092) of staff at long term care facilities that are included in WHITE data (n=95)
- Allied health staff reported the highest coverage
- 73% of staff in long term care facilities in BC reported being vaccinated, 10% reported declining vaccination, and 17% 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 2019/20

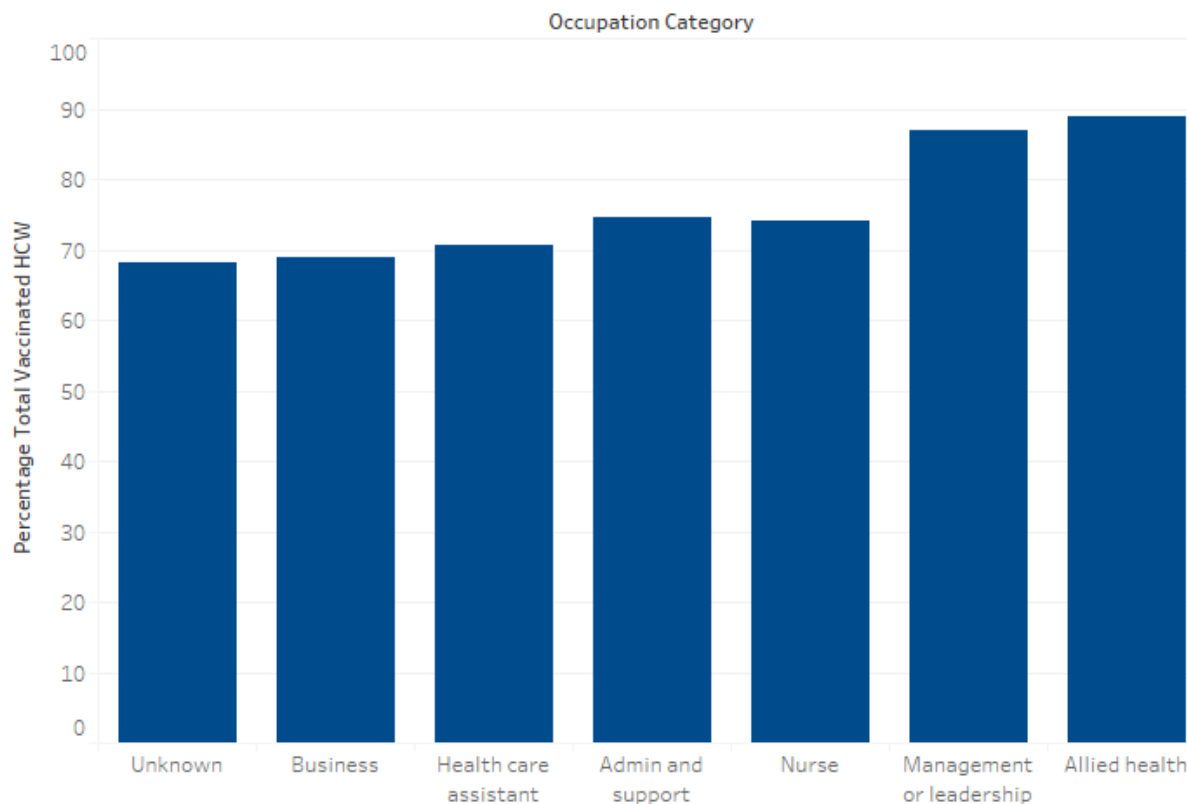


Table 4: Influenza Prevention Policy compliance for staff of long term care facilities who are included in WHITE by health authority, 2019/20

Health Authority	Compliance Status						Total No.	Total %
	Vaccinated No.	Vaccinated %	Declined No.	Declined %	Not reported No.	Not reported %		
IHA	2555	75	374	11	486	14	3415	100
FHA	2122	71	261	9	626	21	3009	100
VCHA	2159	72	261	9	626	21	3046	100
VIHA	2146	78	306	11	309	11	2761	100
NHA	1043	71	199	14	235	16	1477	100
Total	10025	73	1401	10	2282	17	13708	100