

Influenza vaccination coverage for staff of long term care facilities British Columbia, 2020/21 – 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 2020/21 season
- ii) Self-reported their vaccination or vaccine declination including by job type

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 360 long term care facilities in BC, 345 are included in this analysis, and 252 (73%) reported influenza immunization coverage for long term care staff
- 99/252 (39%) facilities used data from the WHITE database; 153/252 (61%) facilities used data entered by health authority staff into the BCCDC web application because WHITE data were not available.

2020/21 influenza vaccination coverage (**Figures 1-3, Table 3**)

- 64% (19,006/29,925) of staff of long term care facilities with data available reported influenza vaccine receipt, the lowest since the Influenza Prevention Policy was enacted in 2012/13
- 52% to 69% coverage was the range across the five regional health authorities
- 38% to 74% coverage was the range across the sixteen health service delivery areas
- 6% to 100% coverage was the range across all residential care facilities in BC
- 52/345 (15%) facilities met the provincial and national target of 80% coverage

Results excluding privately funded facilities

- Out of 313 owned and operated, or contracted long term care facilities in BC, 298 are included in this analysis, and 222 (75%) reported influenza immunization coverage for long term care staff
- 52% to 69% coverage was the range across the five regional health authorities
- 63% (18,051/28,506) 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, 2020/21

Health authority	Reported facilities	Facilities included in analysis	% reported	Excluded from analysis*	Total LTC Facilities
Interior	62	91	68.1	3	94
Fraser	72	92	78.3	1	93
Vancouver Coastal	21	63	33.3	2	65
Vancouver Island	80	82	97.6	2	84
Northern	17	17	100	7	24
British Columbia	252	345	73.0	15	360

* 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, 2020/21

Health authority	Long term care facilities		
	WHITE*	Aggregate*	Total
Interior	34	28	62
Fraser	14	58	72
Vancouver Coastal	19	2	21
Vancouver Island	17	63	80
Northern	15	2	17
British Columbia	99	153	252

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 - 2020/21

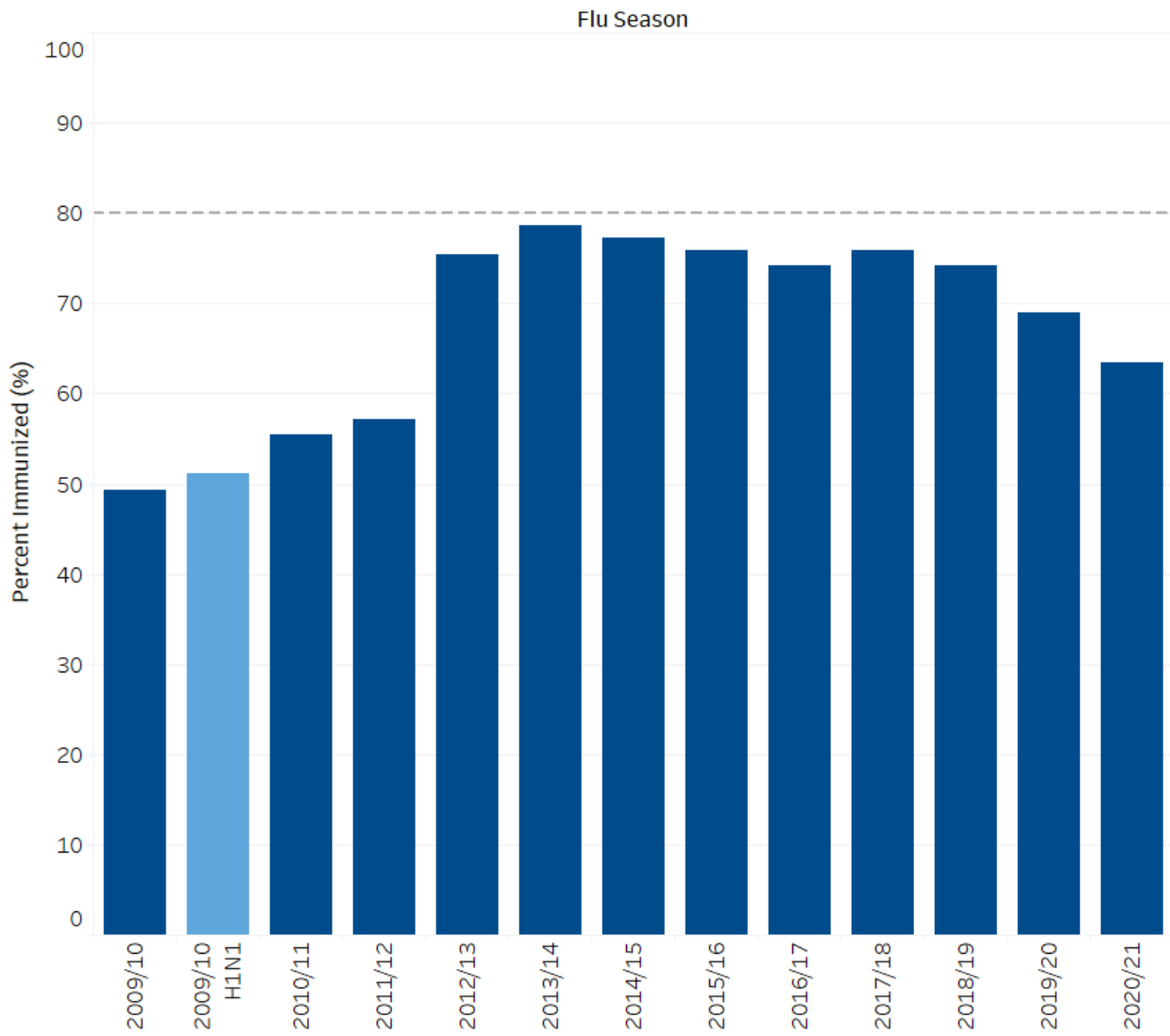


Figure 2: Influenza immunization coverage for staff of long term care facilities by health authority, British Columbia 2020/21

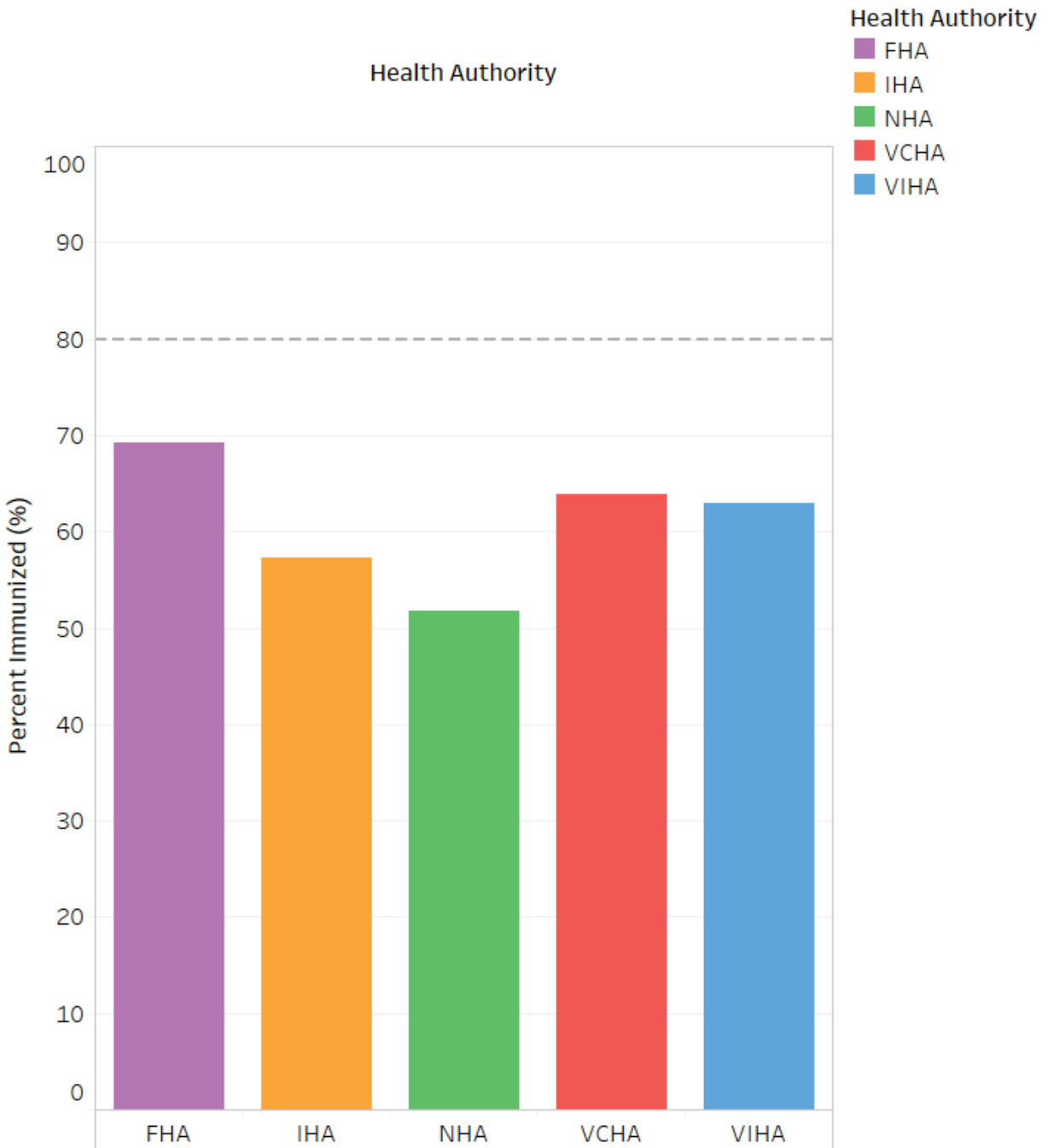


Figure 3: Influenza immunization coverage for staff of long term care facilities per facility and by health authority, British Columbia 2020/21

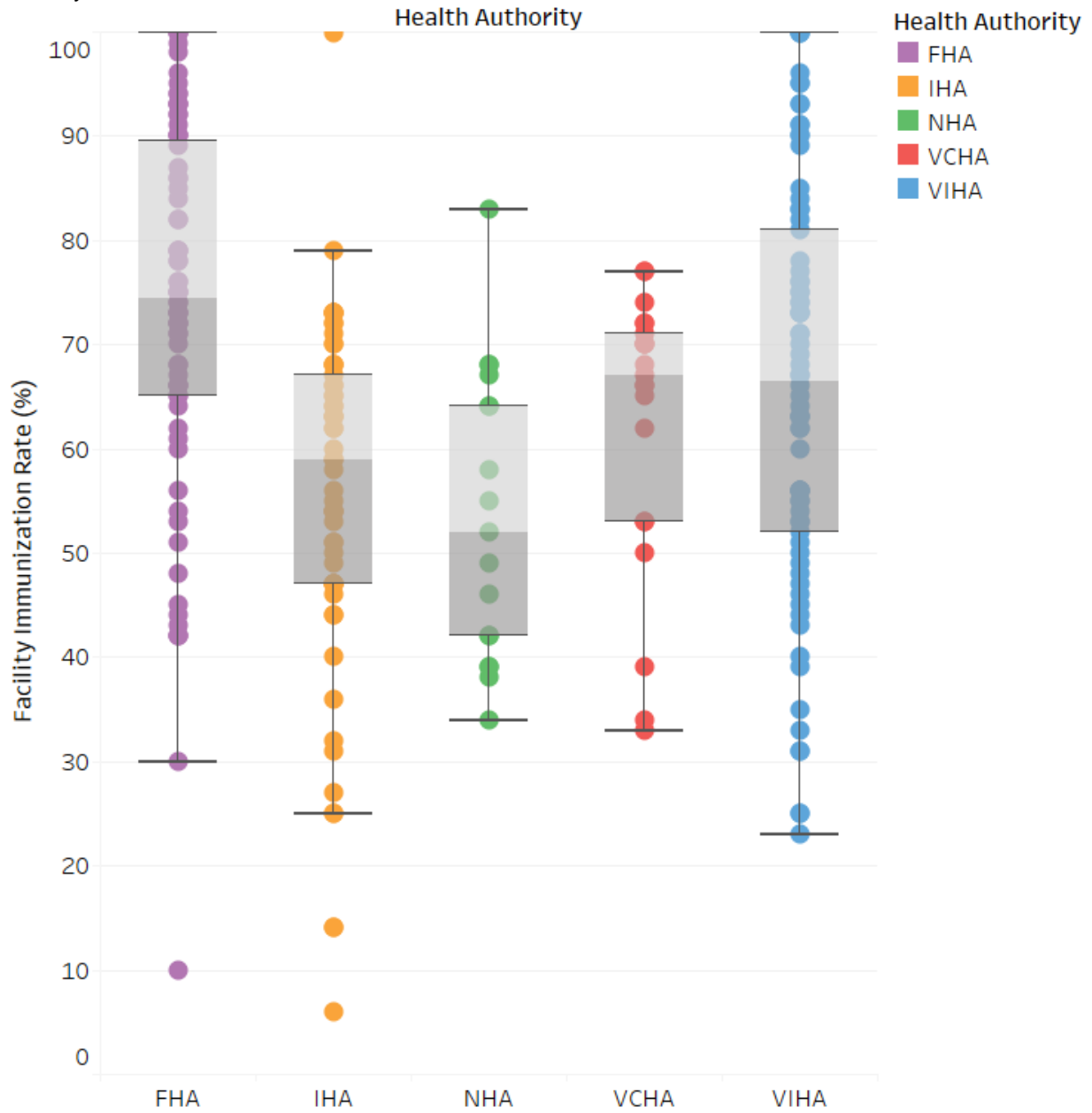


Table 3: Immunization coverage for staff of long term care facilities by health authority and health service delivery area, 2011/12 to 2020/21

Health authority		Influenza season									
		2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21
INTERIOR	immunized	4,359	5,386	4,801	5,819	5,627	6,366	6,258	5,735	5,686	3,191
	total staff	8,807	7,815	6,547	7,878	7,803	8,906	8,703	8,627	8,876	5,577
	% immunized	49	69	73	74	72	71	72	66	64	57
East Kootenay	immunized	277	655	626	594	650	703	626	576	567	403
	total staff	690	946	935	802	1,054	1,029	986	755	805	649
	% immunized	40	69	67	74	62	68	63	76	70	62
Kootenay Boundary	immunized	324	538	583	522	546	633	670	500	495	484
	total staff	777	881	836	809	779	915	978	924	909	922
	% immunized	42	61	70	65	70	69	69	54	55	52
Okanagan	immunized	3,051	3,181	2,272	3,286	3,117	3,622	3,490	3,398	3,283	1,723
	total staff	5,943	4,640	3,105	4,515	4,208	5,049	4,839	5,274	5,308	3,128
	% immunized	51	69	73	73	74	72	72	64	62	55
Thomps Carib Shuswap	immunized	707	1,012	1,320	1,417	1,314	1,408	1,472	1,261	1,341	581
	total staff	1,397	1,348	1,671	1,752	1,762	1,913	1,900	1,674	1,854	878
	% immunized	51	75	79	81	75	74	79	75	72	66
FRASER	immunized	6,903	8,756	6,059	8,247	7,494	9,653	11,281	10,322	7,954	7,071
	total staff	11,041	10,955	6,937	10,084	9,457	12,708	14,259	13,110	11,203	10,210
	% immunized	63	80	87	82	79	76	79	79	71	69
Fraser East	immunized	1,370	1,409	875	1,434	1,533	1,752	2,278	1,625	1,574	1,304
	total staff	2,093	1,839	999	1,755	1,907	2,293	2,895	2,072	2,177	2,212
	% immunized	65	77	88	82	80	76	79	78	72	59
Fraser North	immunized	2,616	3,362	2,589	3,577	2,801	3,495	4,220	3,827	3,141	2,586
	total staff	3,955	4,213	3,025	4,562	3,470	4,528	5,214	4,742	4,339	3,515
	% immunized	66	80	86	78	81	77	81	81	72	74
Fraser South	immunized	2,917	3,985	2,595	3,236	3,160	4,406	4,783	4,870	3,239	3,181
	total staff	4,993	4,903	2,913	3,767	4,080	5,887	6,150	6,296	4,687	4,483
	% immunized	58	81	89	86	77	75	78	77	69	71

Table 3 (cont'd): Immunization coverage for staff of long term care facilities by health authority and health service delivery area, 2011/12 to 2020/21

Health authority		Influenza season									
		2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21
VANCOUVER COASTAL	immunized	5,272	6,350	7,077	5,652	7,028	6,789	6,312	5,877	4,025	2,063
	total staff	7,816	7,652	8,491	6,672	8,215	8,233	7,750	7,432	5,527	3,233
	% immunized	67	83	83	85	86	82	81	79	73	64
Richmond	immunized	625	701	805	644	789	725	337	590	309	280
	total staff	903	803	918	706	894	847	447	736	404	403
	% immunized	69	87	88	91	88	86	84	80	77	70
Vancouver	immunized	3,445	4,196	4,827	3,881	4,493	4,612	4,396	4,556	2,732	1,232
	total staff	4,922	5,020	5,662	4,514	5,267	5,507	5,339	5,691	3,479	1,872
	% immunized	70	84	85	86	85	84	82	80	79	66
N Shore/Coast Garibaldi	immunized	1,202	1,453	1,445	1,127	1,746	1,452	1,539	731	984	551
	total staff	1,991	1,829	1,911	1,452	2,054	1,879	1,964	1,005	1,644	958
	% immunized	60	79	76	78	85	77	78	73	60	58
VANCOUVER ISLAND	immunized	4,166	5,852	6,068	6,350	6,240	6,005	6,660	6,614	6,774	5,824
	total staff	8,244	8,370	8,429	8,941	9,049	8,834	9,446	9,265	9,847	9,248
	% immunized	51	70	72	71	69	68	71	71	69	63
South Van Island	immunized	2,170	3,263	3,273	3,487	3,316	3,229	3,682	3,513	3,491	3,158
	total staff	4,016	4,563	4,475	4,992	4,936	4,748	5,200	4,928	5,145	4,541
	% immunized	54	72	73	70	67	68	71	71	68	70
Central Van Island	immunized	1,441	1,894	2,107	2,163	2,194	2,020	2,221	2,384	2,463	1,854
	total staff	3,218	2,828	3,106	3,117	3,212	3,120	3,273	3,429	3,726	3,483
	% immunized	45	67	68	69	68	65	68	70	66	53
North Van Island	immunized	555	695	688	700	730	756	757	717	820	812
	total staff	1,010	979	848	832	901	966	973	908	976	1,224
	% immunized	55	71	81	84	81	78	78	79	84	66

Table 3 (cont'd): Immunization coverage for staff of long term care facilities by health authority and health service delivery area, 2011/12 to 2020/21

Health authority		Influenza season									
		2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21
NORTHERN	immunized	835	1,273	1,035	1,099	974	1,078	1,156	1,033	1,157	857
	total staff	1,792	1,828	1,432	1,558	1,544	1,562	1,596	1,416	1,639	1,657
	% immunized	47	70	72	71	63	69	72	73	71	52
Northwest	immunized	296	394	287	327	271	292	333	276	336	269
	total staff	511	495	368	401	382	416	439	352	450	438
	% immunized	58	80	78	82	71	70	76	78	75	61
Northern Interior	immunized	423	616	574	594	542	597	612	584	631	469
	total staff	875	866	769	857	843	833	838	795	865	905
	% immunized	48	71	75	69	64	72	73	73	73	52
Northeast	immunized	116	263	174	178	161	189	211	173	190	119
	total staff	406	467	295	300	319	313	320	269	324	314
	% immunized	29	56	59	59	50	60	66	64	59	38
BC	immunized	21,535	27,617	25,040	27,167	27,363	29,891	31,667	29,581	25,596	19,006
	total staff	37,700	36,620	31,836	35,133	36,068	40,243	41,755	39,850	37,092	29,925
	% immunized	57	75	79	77	76	74	76	74	69	64

2020/21 policy compliance results (**Figure 4, Table 4**)

- Policy compliance status was available for 44% (13,107/29,925) of staff at long term care facilities (i.e., those that are included in WHITE data)
- Allied health staff reported the highest coverage
- 64% of staff in long term care facilities in BC reported being vaccinated, 16% reported declining vaccination, and 21% 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 2020/21

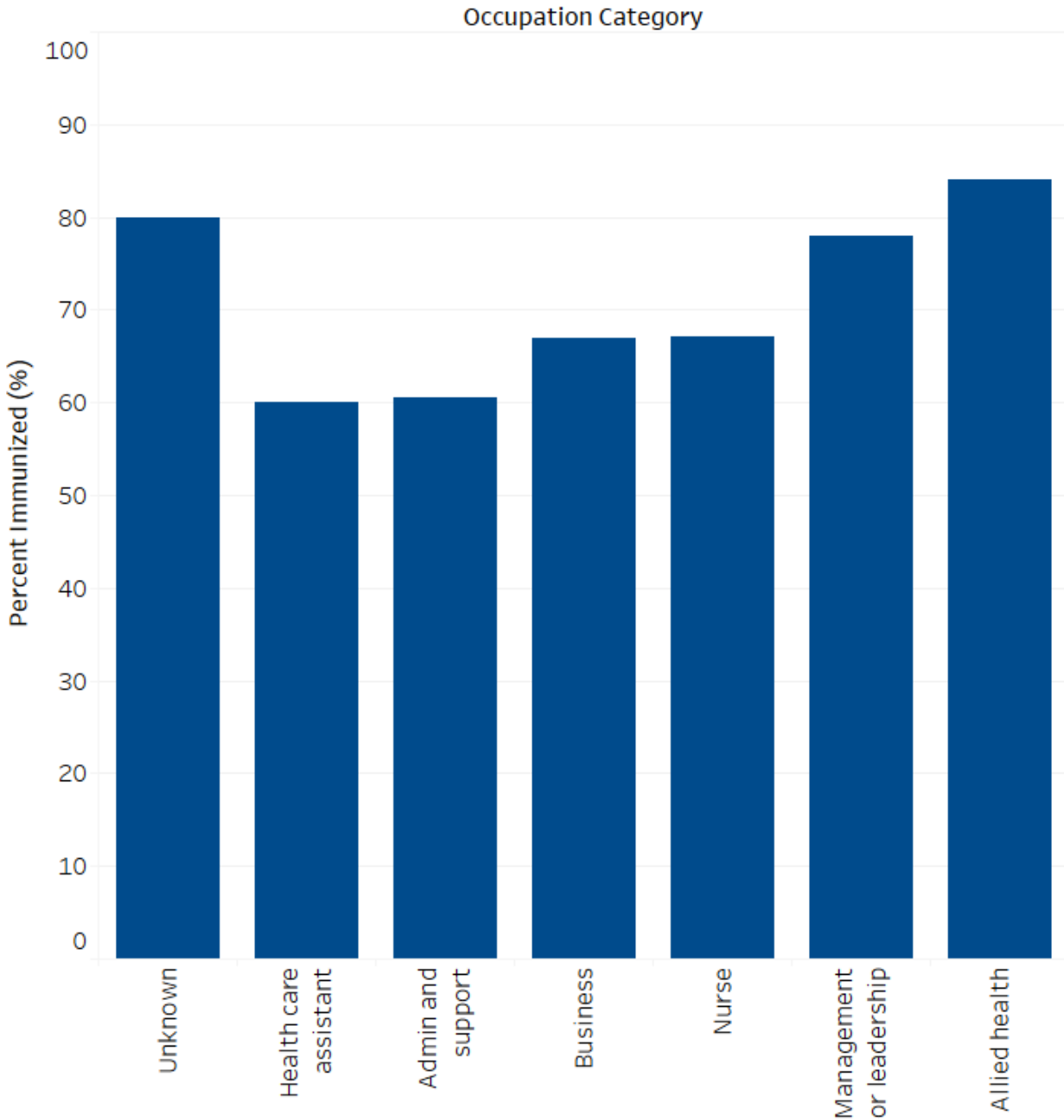


Table 4: Influenza Prevention Policy compliance for staff of long term care facilities who are included in WHITE by health authority, 2020/21

Health Authority	Vaccinated		Declined		Compliance Status		Total No.	Total %
	No.	%	No.	%	Not reported No.	Not reported %		
IHA	2,062	61	620	18	721	21	3,403	100
FHA	1,726	69	408	16	364	15	2,498	100
VCHA	1,913	65	203	7	844	29	2,960	100
VIHA	1,870	68	574	21	314	11	2,758	100
NHA	772	52	257	17	459	31	1,488	100
Total	8,343	64	2,062	16	2,702	21	13,107	100