

Final Report Influenza Vaccine Coverage Staff of Long Term Care Facilities (LTCF) British Columbia, 2022/23

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%.¹

Objectives

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

- i) Were vaccinated against influenza in the 2022/23 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**)

- There are 346 long term care facilities in BC, but 16 of these are within acute care sites and the data on staff cannot be disaggregated from acute care staff. Therefore, only 330 facilities are able to report on staff influenza vaccine uptake; 262 (76%) of these reported.
- 101/262 (39%) facilities used data from the WHITE² database; 161/262 (61%) facilities for which WHITE data were not available provided aggregate data.

2022/23 influenza vaccination coverage (**Figures 1-3, Table 3**)

- 40% (14,835/36,946) 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
- 31% to 49% coverage was the range across the five regional health authorities
- 24% to 51% coverage was the range across the sixteen health service delivery areas
- 3% to 100% coverage was the range across all residential care facilities in BC
- 19/330 (6%) facilities met the provincial and national target of 80% coverage

Results excluding privately funded facilities

- Out of 297 owned and operated, or contracted long term care facilities in BC, 281 are included in this analysis, and 237 (84%) reported influenza immunization coverage for long term care staff
- 31% to 48% coverage was the range across the five regional health authorities
- 39% (13,645/34,773) of staff were vaccinated against influenza

¹Public 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>

²WHITE: Workplace Health Indicator Tracking and Evaluation database

Table 1. Long term care facilities included by health authority, 2022/23

Health authority	Reported facilities	Facilities included in analysis	% reported	Excluded from analysis*	Total LTC Facilities
Interior	70	76	92	3	79
Fraser	68	91	75	1	92
Vancouver Coastal	62	65	95	3	68
Vancouver Island	45	81	56	2	83
Northern	17	17	100	7	24
British Columbia	262	330	79	16	346

* 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, 2022/23

Health authority	Long term care facilities		
	WHITE	Aggregate	Total
Interior	35	35	70
Fraser	15	53	68
Vancouver Coastal	21	41	62
Vancouver Island	15	30	45
Northern	15	2	17
British Columbia	101	168	262

WHITE data were preferentially used when available.

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

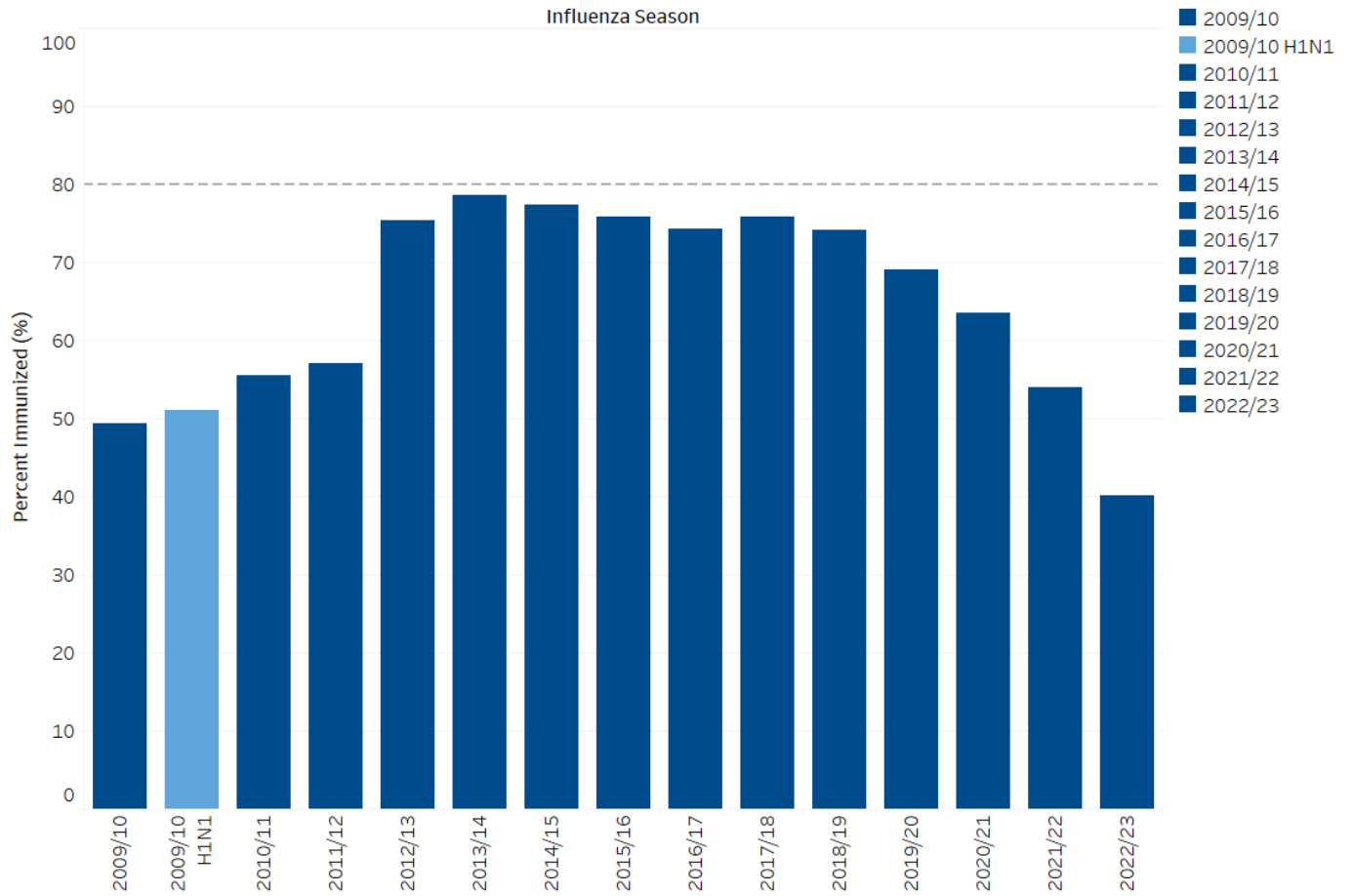


Figure 1. Influenza immunization coverage for staff of long term care facilities by influenza season, British Columbia 2009/10 - 2022/23

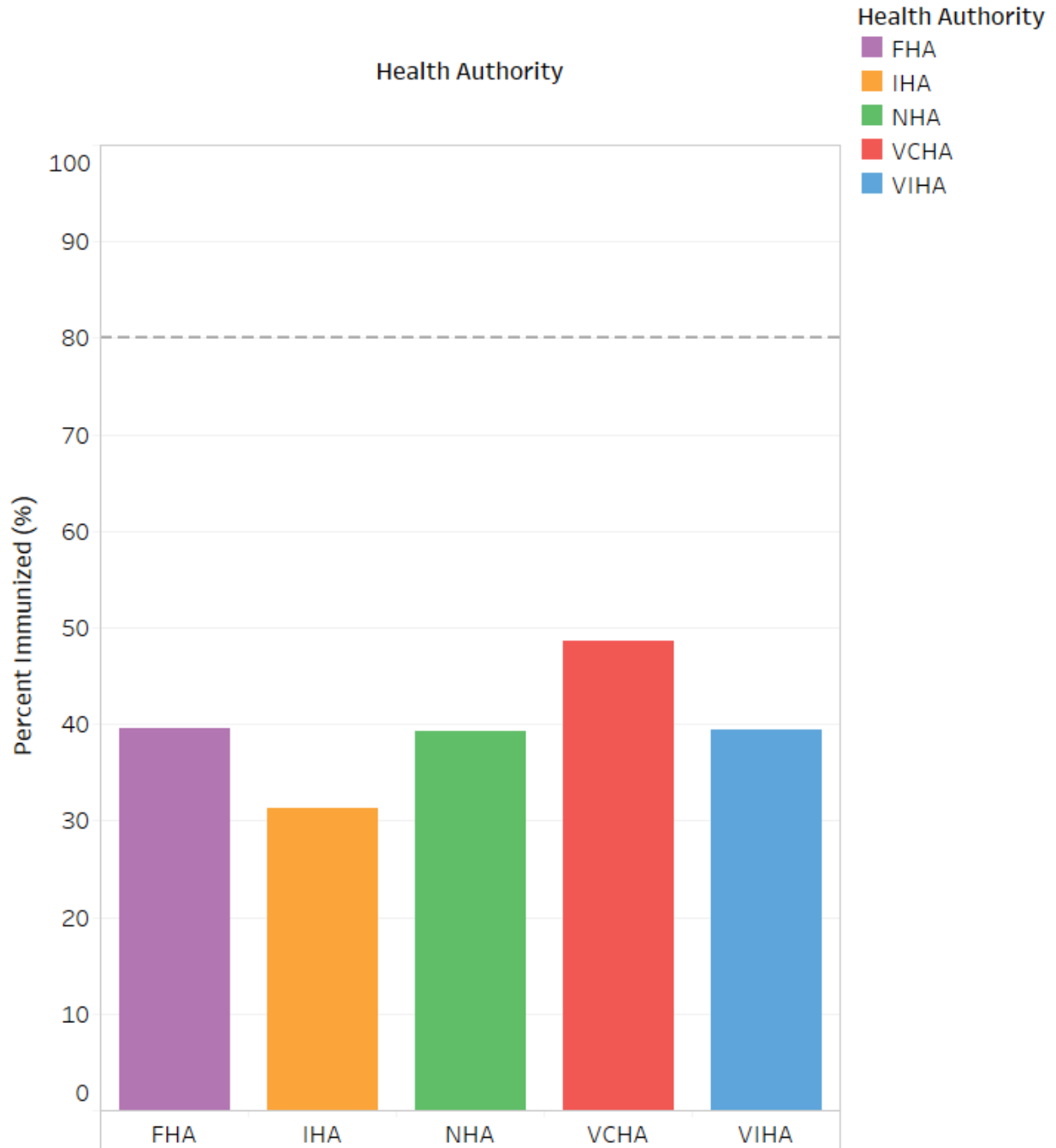


Figure 2. Influenza immunization coverage for staff of long term care facilities by health authority, British Columbia 2022/23

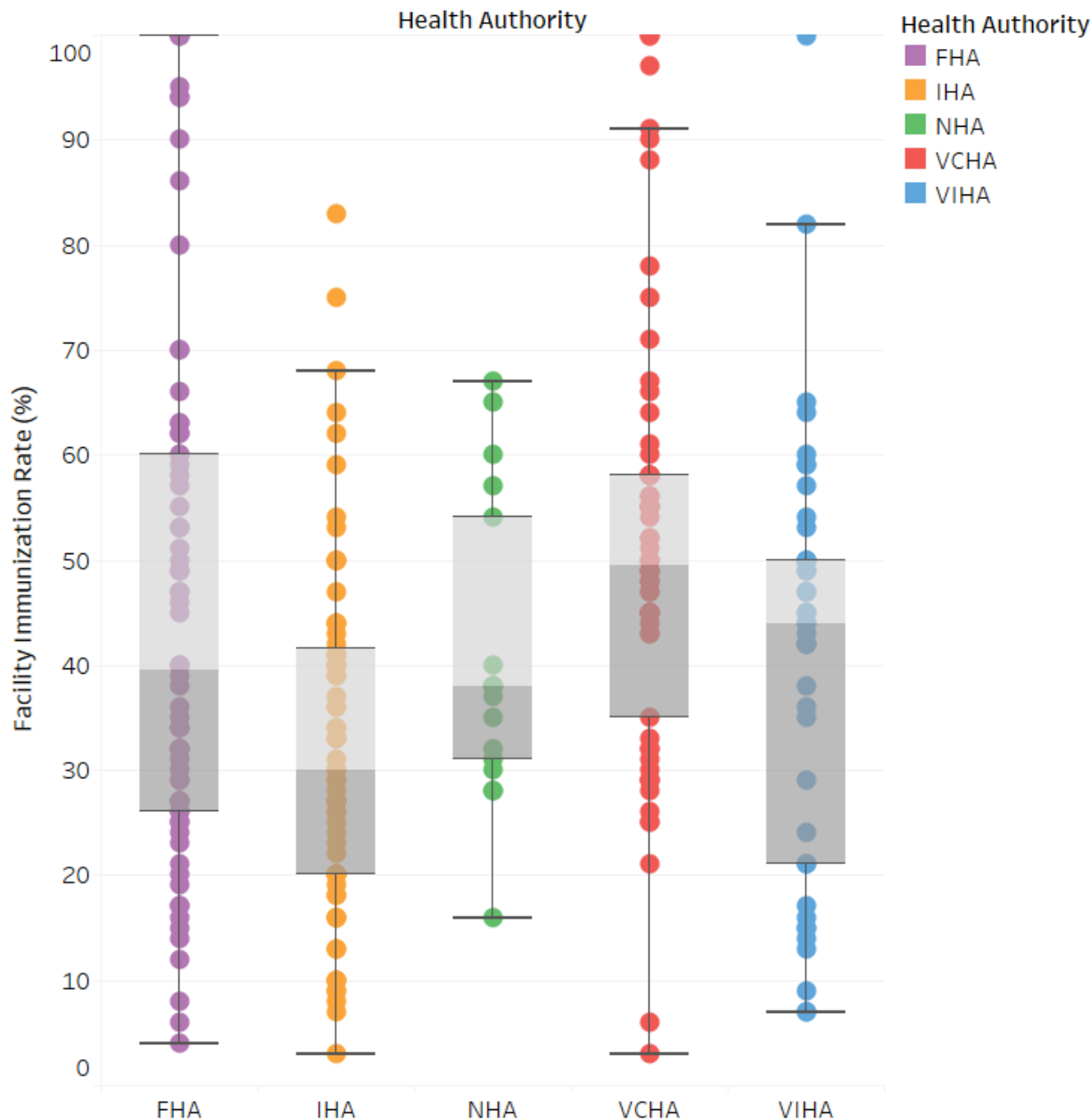


Figure 3. Influenza immunization coverage for staff of long term care facilities per facility and by health authority, British Columbia 2022/23

Figure 3 illustrates the distribution of influenza vaccine coverage for residents of LTCFs by facility in each health authority for the 2022/23 influenza season. The horizontal lines represent the minimum*, 25th percentile, median (transition from light to dark grey), 75th percentile, and maximum.

* After excluding outliers. Outliers are those below the 25th percentile minus 1.5 times the interquartile range.

Table 3. Immunization coverage for staff of long term care facilities by health authority and health service delivery area, 2012/13 to 2022/23

		Influenza season										
Health authority		2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23
INTERIOR	immunized	5,386	4,801	5,819	5,627	6,366	6,258	5,735	5,686	3,191	1,666	2,390
	total staff	7,815	6,547	7,878	7,803	8,906	8,703	8,627	8,876	5,577	3,375	8,446
	% immunized	69	73	74	72	71	72	66	64	57	49	28
East Kootenay	immunized	655	626	594	650	703	626	576	567	403	343	435
	total staff	946	935	802	1,054	1,029	986	755	805	649	648	913
	% immunized	69	67	74	62	68	63	76	70	62	53	48
Kootenay Boundary	immunized	538	583	522	546	633	670	500	495	484	147	227
	total staff	881	836	809	779	915	978	924	909	922	414	854
	% immunized	61	70	65	70	69	69	54	55	52	36	27
Okanagan	immunized	3,181	2,272	3,286	3,117	3,622	3,490	3,398	3,283	1,723	760	1,161
	total staff	4,640	3,105	4,515	4,208	5,049	4,839	5,274	5,308	3,128	1,531	3,546
	% immunized	69	73	73	74	72	72	64	62	55	50	33
Thomps Carib Shuswap	immunized	1,012	1,320	1,417	1,314	1,408	1,472	1,261	1,341	581	416	567
	total staff	1,348	1,671	1,752	1,762	1,913	1,900	1,674	1,854	878	782	2,339
	% immunized	75	79	81	75	74	79	75	72	66	53	24
FRASER	immunized	8,756	6,059	8,247	7,494	9,653	11,281	10,322	7,954	7,071	1,392	4,543
	total staff	10,955	6,937	10,084	9,457	12,708	14,259	13,110	11,203	10,210	2,624	11,482
	% immunized	80	87	82	79	76	79	79	71	69	53	40
Fraser East	immunized	1,409	875	1,434	1,533	1,752	2,278	1,625	1,574	1,304	245	595
	total staff	1,839	999	1,755	1,907	2,293	2,895	2,072	2,177	2,212	528	2,144
	% immunized	77	88	82	80	76	79	78	72	59	46	28
Fraser North	immunized	3,362	2,589	3,577	2,801	3,495	4,220	3,827	3,141	2,586	527	1,838
	total staff	4,213	3,025	4,562	3,470	4,528	5,214	4,742	4,339	3,515	958	3,919
	% immunized	80	86	78	81	77	81	81	72	74	55	47
Fraser South	immunized	3,985	2,595	3,236	3,160	4,406	4,783	4,870	3,239	3,181	620	2,110
	total staff	4,903	2,913	3,767	4,080	5,887	6,150	6,296	4,687	4,483	1,138	5,419
	% immunized	81	89	86	77	75	78	77	69	71	54	39

Table 3 (cont'd). Immunization coverage for staff of long term care facilities by health authority and health service delivery area, 2012/13 to 2022/23

Health authority		Influenza season										
		2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23
VANCOUVER COASTAL	immunized	6,350	7,077	5,652	7,028	6,789	6,312	5,877	4,025	2,063	1,750	4,707
	total staff	7,652	8,491	6,672	8,215	8,233	7,750	7,432	5,527	3,233	3,222	9,691
	% immunized	83	83	85	86	82	81	79	73	64	54	49
Richmond	immunized	701	805	644	789	725	337	590	309	280	231	569
	total staff	803	918	706	894	847	447	736	404	403	409	1,255
	% immunized	87	88	91	88	86	84	80	77	70	56	45
Vancouver	immunized	4,196	4,827	3,881	4,493	4,612	4,396	4,556	2,732	1,232	1,117	3,210
	total staff	5,020	5,662	4,514	5,267	5,507	5,339	5,691	3,479	1,872	1,864	6,355
	% immunized	84	85	86	85	84	82	80	79	66	60	51
N Shore/Coast Garibaldi	immunized	1,453	1,445	1,127	1,746	1,452	1,539	731	984	551	402	928
	total staff	1,829	1,911	1,452	2,054	1,879	1,964	1,005	1,644	958	949	2,081
	% immunized	79	76	78	85	77	78	73	60	58	42	45
VANCOUVER ISLAND	immunized	5,852	6,068	6,350	6,240	6,005	6,660	6,614	6,774	5,824	2,898	2,566
	total staff	8,370	8,429	8,941	9,049	8,834	9,446	9,265	9,847	9,248	4,877	6,582
	% immunized	70	72	71	69	68	71	71	69	63	59	39
South Van Island	immunized	3,263	3,273	3,487	3,316	3,229	3,682	3,513	3,491	3,158	1,729	1,596
	total staff	4,563	4,475	4,992	4,936	4,748	5,200	4,928	5,145	4,541	2,530	3,435
	% immunized	72	73	70	67	68	71	71	68	70	68	46
Central Van Island	immunized	1,894	2,107	2,163	2,194	2,020	2,221	2,384	2,463	1,854	873	530
	total staff	2,828	3,106	3,117	3,212	3,120	3,273	3,429	3,726	3,483	1,847	1,832
	% immunized	67	68	69	68	65	68	70	66	53	47	29
North Van Island	immunized	695	688	700	730	756	757	717	820	812	296	440
	total staff	979	848	832	901	966	973	908	976	1,224	500	1,255
	% immunized	71	81	84	81	78	78	79	84	66	59	35

Table 3 (cont'd). Immunization coverage for staff of long term care facilities by health authority and health service delivery area, 2012/13 to 2022/23

Health authority		Influenza season										
		2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23
NORTHERN	immunized	1,273	1,035	1,099	974	1,078	1,156	1,033	1,157	857	759	629
	total staff	1,828	1,432	1,558	1,544	1,562	1,596	1,416	1,639	1,657	1,594	1,599
	% immunized	70	72	71	63	69	72	73	71	52	48	39
Northwest	immunized	394	287	327	271	292	333	276	336	269	239	184
	total staff	495	368	401	382	416	439	352	450	438	449	413
	% immunized	80	78	82	71	70	76	78	75	61	53	45
Northern Interior	immunized	616	574	594	542	597	612	584	631	469	391	355
	total staff	866	769	857	843	833	838	795	865	905	845	885
	% immunized	71	75	69	64	72	73	73	73	52	46	40
Northeast	immunized	263	174	178	161	189	211	173	190	119	129	90
	total staff	467	295	300	319	313	320	269	324	314	300	301
	% immunized	56	59	59	50	60	66	64	59	38	43	30
BC	immunized	27,617	25,040	27,167	27,363	29,891	31,667	29,581	25,596	19,006	8,465	14,835
	total staff	36,620	31,836	35,133	36,068	40,243	41,755	39,850	37,092	29,925	15,692	37,800
	% immunized	75	79	77	76	74	76	74	69	64	54	39

2022/23 policy compliance results (**Figure 4, Table 4**)

- Policy compliance status was available for 38% (14,145/36,946) of staff at long term care facilities (i.e., those that are included in WHITE data)
- Management or leadership staff reported the highest coverage, followed by allied health
- Using WHITE data only, 43% of staff in long term care facilities in BC reported being vaccinated, 18% reported declining vaccination, and 39% did not report vaccination status and were considered to be unvaccinated for the purpose of this report

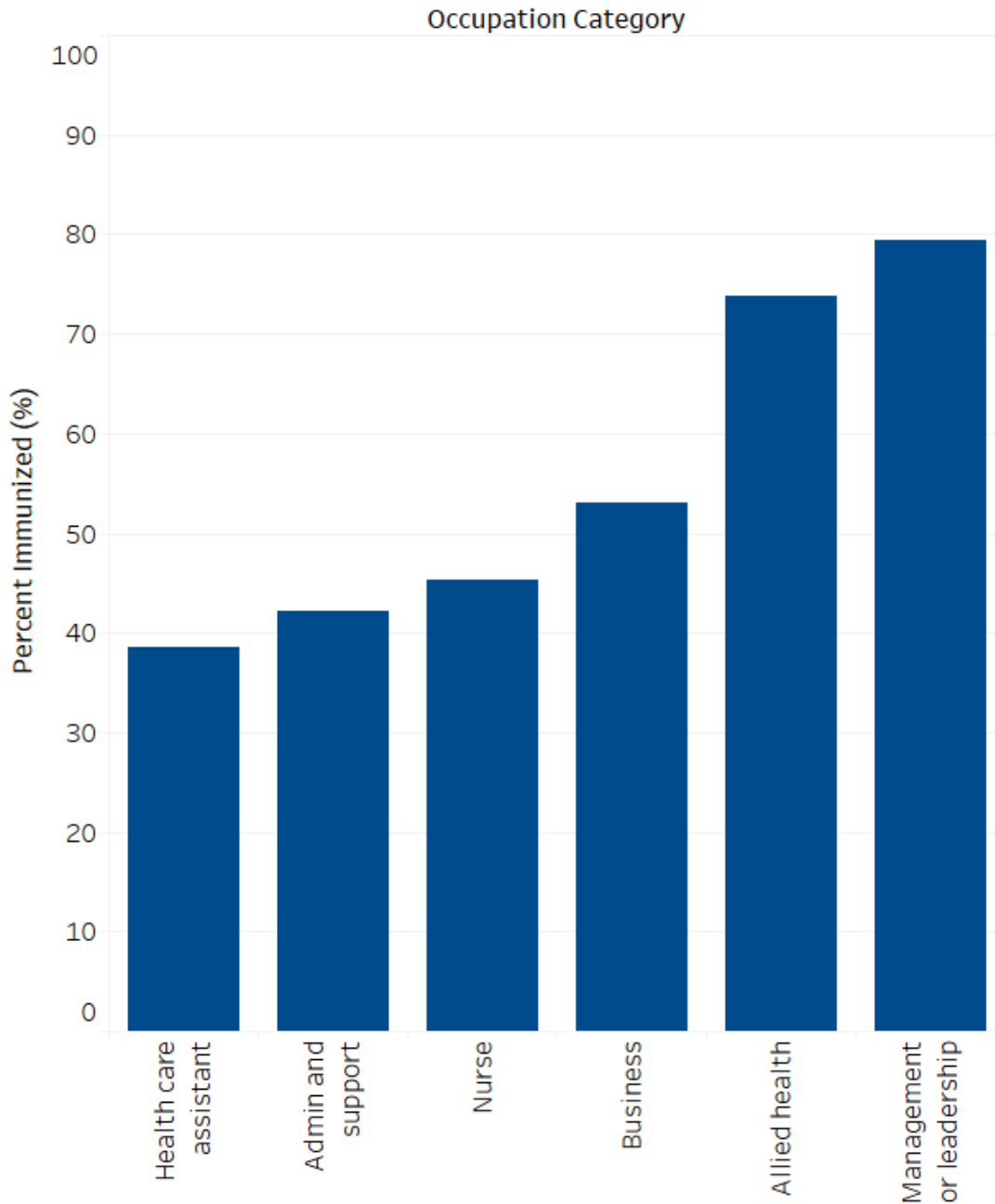


Figure 4. Influenza immunization coverage for staff of long term care facilities by occupation group, British Columbia 2022/23

Table 4. Influenza Prevention Policy compliance for staff of long term care facilities who are included in WHITE by health authority, 2022/23

Health Authority	Compliance Status						Total No.	Total %
	Vaccinated		Declined		Not reported			
	No.	%	No.	%	No.	%		
IHA	1,379	40	636	19	1,431	42	3,446	100
FHA	1,049	39	598	22	1,039	39	2,686	100
VCHA	1,635	45	203	6	1,790	49	3,628	100
VIHA	1,462	49	702	24	803	27	2,967	100
NHA	565	40	460	32	393	28	1,418	100
Total	6,090	43	2,599	18	5,456	39	14,145	100