

Final Report Influenza Vaccine Coverage Staff of Acute Care Facilities British Columbia, 2021/22

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 acute care facilities were formerly 60% at the provincial level, but were updated to 80% as BC is signatory to the national targets by 2025.^{1,2}

Objectives

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

- i) Were vaccinated against influenza in the 2021/22 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**)

- All 92 acute care facilities in BC were included

2021/22 influenza vaccination coverage (**Figures 1-3, Table 2**)

- 60% (42,993/71,976) of staff in acute care facilities in BC reported influenza vaccine receipt, the lowest since the Influenza Prevention Policy was enacted in 2012/2013
- 55% to 68% coverage was the range across the five health authorities and PHSA
- 43% to 71% coverage was the range across the sixteen health service delivery areas and PHSA
- 29% to 80% coverage was the range across all acute care facilities in BC
- 42% to 72% coverage was the range across the 32 facilities with 500 or more staff
- 50/93 (54%) facilities had coverage of 60% or higher
- 1/92 (1%) facility met the provincial and national coverage target of 80%

¹Immunize 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>

²Public 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. Acute care facilities included by health authority, 2021/22

Health authority	Number of acute care facilities
Interior	27
Fraser	13
Vancouver Coastal	14
Vancouver Island	14
Northern	18
Provincial Health Services ³	6
British Columbia	92

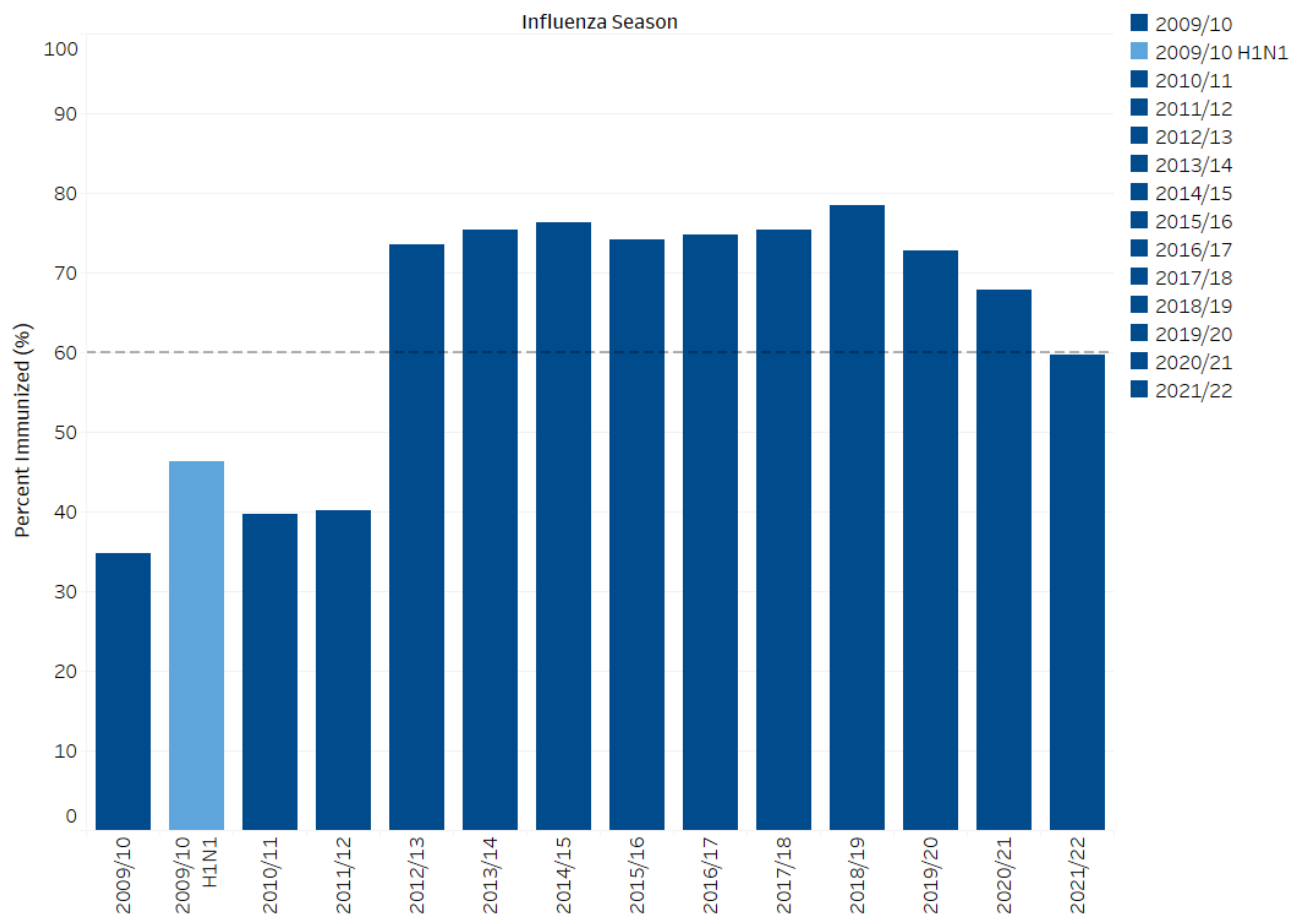


Figure 1. Influenza immunization coverage for staff of acute care facilities by influenza season, British Columbia 2009/10 – 2021/22

³Provincial Health Service Authority acute care facilities include: BC Cancer Agency (Abbotsford, Centre for the Southern Interior, Vancouver, Vancouver Island), BC Children & Women’s Health Centre, and Fraser Valley Cancer Centre

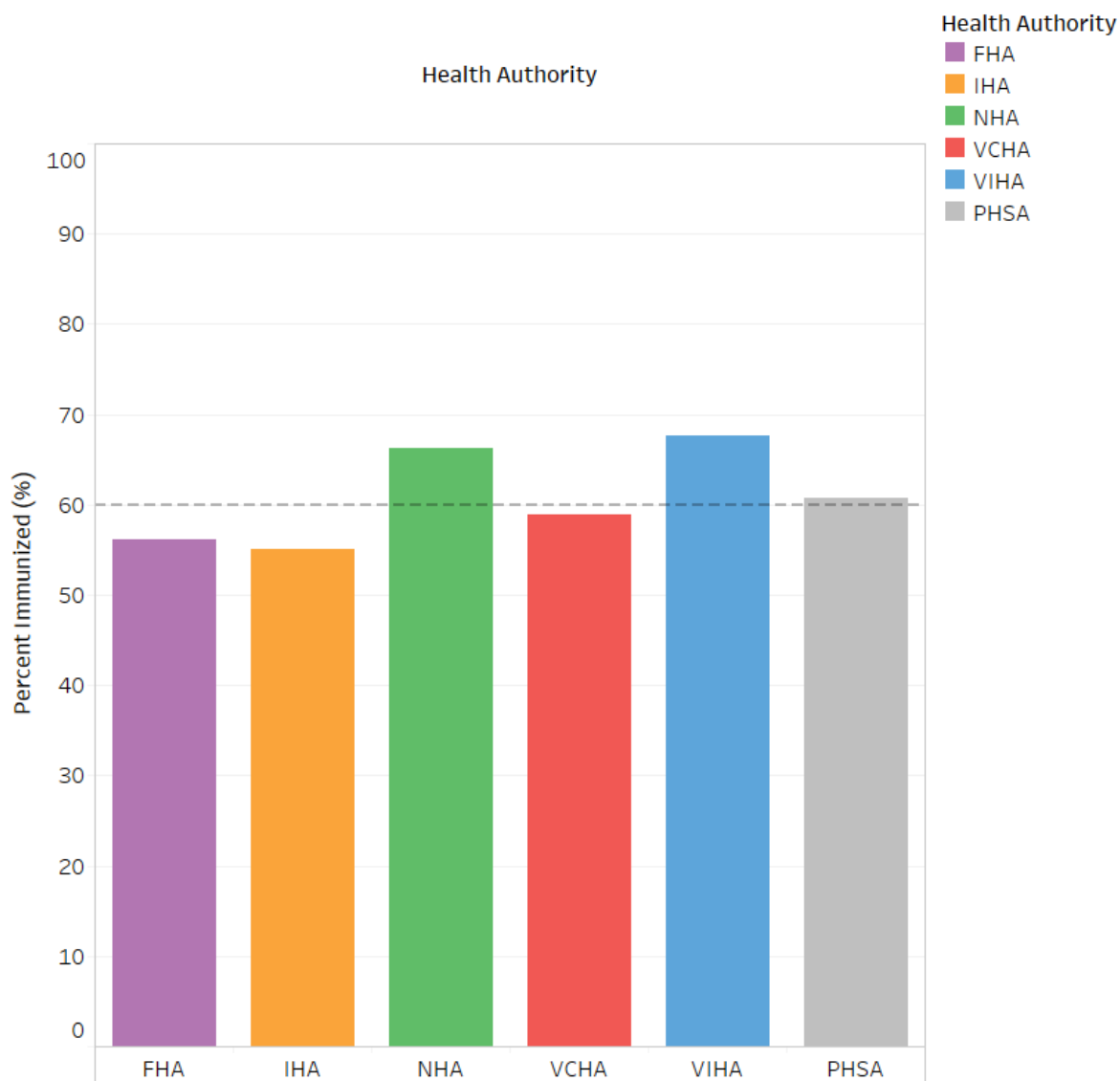


Figure 2. Influenza immunization coverage for staff of acute care facilities by health authority, British Columbia 2021/22

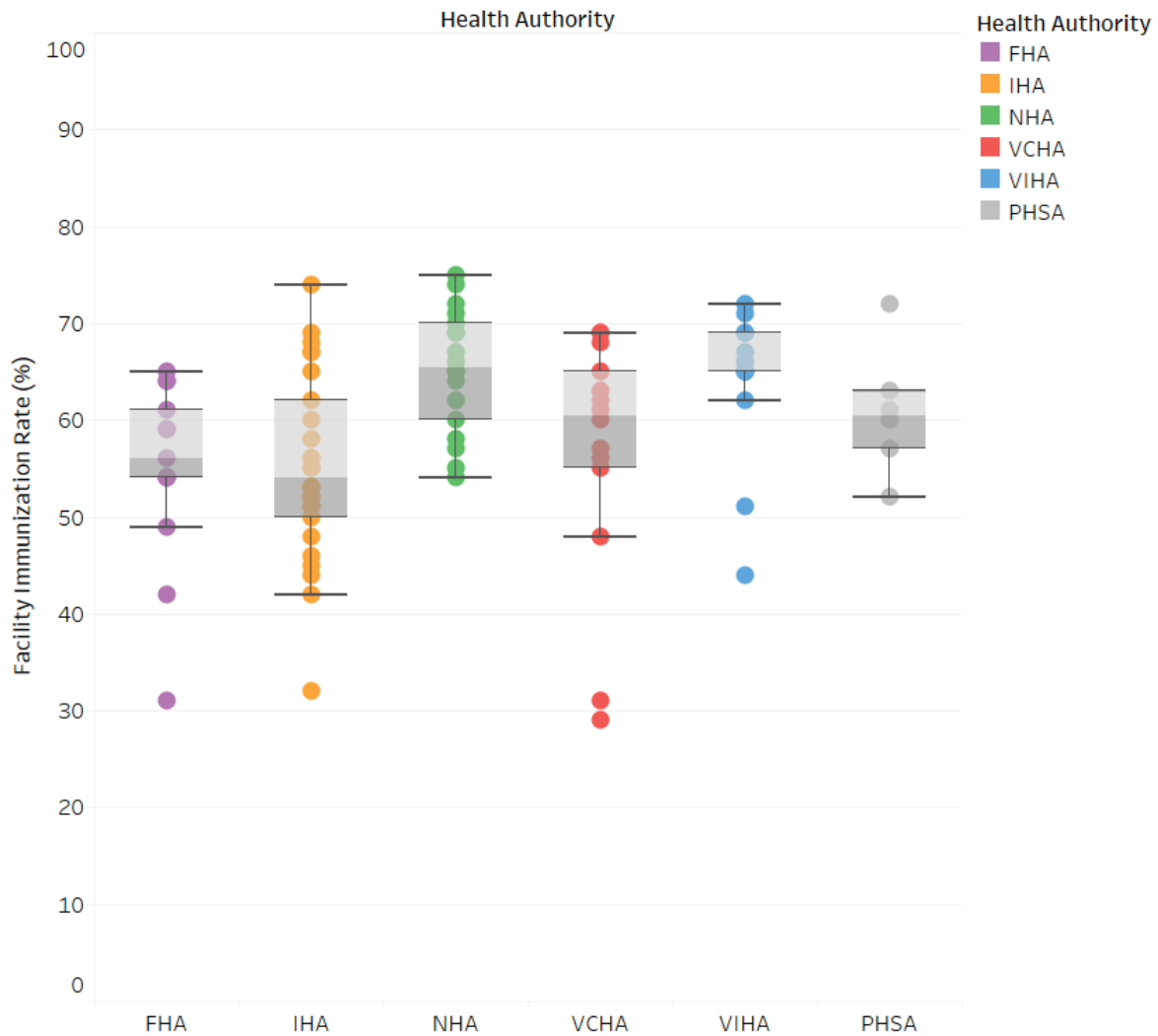


Figure 3. Influenza immunization coverage for staff of acute care facilities by facility and by health authority, British Columbia 2021/22

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 2. Immunization coverage for staff of acute care facilities by health authority and health service delivery area, 2011/12 to 2021/22

Health authority		Influenza season										
		2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22
INTERIOR	immunized	4,558	6,540	7,419	8,152	7,982	8,482	8,958	8,802	8,742	7,945	6,389
	total staff	10,473	8,593	10,726	10,647	10,989	10,936	11,060	10,781	11,593	12,123	11,600
	% immunized	44	76	69	77	73	78	80	82	75	66	55
East Kootenay	immunized	540	684	739	780	758	767	822	764	838	742	626
	total staff	1,031	812	970	953	982	966	995	913	1,017	1,102	1,091
	% immunized	52	84	76	82	77	79	83	84	82	67	57
Kootenay Boundary	immunized	381	706	817	928	891	915	950	919	928	813	627
	total staff	1,306	995	1,230	1,197	1,220	1,184	1,224	1,197	1,252	1,342	1,257
	% immunized	29	71	66	78	73	77	78	77	74	61	50
Okanagan	immunized	2,156	3,323	3,901	3,886	3,829	4,134	4,359	4,380	4,262	3,828	3,040
	total staff	5,412	4,593	5,845	5,283	5,509	5,520	5,529	5,437	5,872	6,126	5,875
	% immunized	40	72	67	74	70	75	79	81	73	63	52
Thomps Carib Shuswap	immunized	1,481	1,827	1,962	2,558	2,504	2,666	2,827	2,739	2,714	2,562	2,096
	total staff	2,724	2,193	2,681	3,214	3,278	3,266	3,312	3,234	3,452	3,553	3,377
	% immunized	54	83	73	80	76	82	85	85	79	72	62
FRASER	immunized	5,446	11,013	15,247	15,399	15,547	14,110	14,213	13,566	13,141	12,720	10,436
	total staff	15,881	14,883	19,001	19,262	19,742	18,057	18,032	17,434	18,388	18,726	18,592
	% immunized	34	74	80	80	79	78	79	79	72	68	56
Fraser East	immunized	1,219	2,053	2,761	2,859	2,745	2,504	2,491	2,379	2,448	2,236	1,457
	total staff	3,115	2,781	3,510	3,635	3,655	3,310	3,318	3,155	3,464	3,435	3,372
	% immunized	39	74	79	79	75	76	75	75	71	65	43
Fraser North	immunized	2,110	4,390	5,893	5,790	6,007	5,588	5,641	5,413	5,103	4,962	4,474
	total staff	6,228	5,825	7,301	7,167	7,492	7,038	6,931	6,749	6,939	7,020	7,037
	% immunized	34	75	81	81	80	79	81	80	74	71	64
Fraser South	immunized	2,117	4,570	6,593	6,750	6,795	6,018	6,081	5,774	5,590	5,522	4,510
	total staff	6,538	6,277	8,190	8,460	8,595	7,709	7,783	7,530	7,985	8,271	8,200
	% immunized	32	73	81	80	79	78	78	77	70	67	55

Table 2 (cont'd). Immunization coverage for staff of acute care facilities by health authority and health service delivery area, 2011/12 to 2021/22

		Influenza season										
Health authority		2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22
VANCOUVER COASTAL	immunized	5,541	5,553	12,060	12,274	12,702	12,000	11,471	11,741	11,303	11,231	10,239
	total staff	12,897	7,828	15,982	16,312	16,785	16,249	15,615	16,074	17,159	17,588	17,401
	% immunized	43	71	75	75	76	74	73	73	66	64	59
Richmond	immunized	520	792	1,055	1,086	1,119	1,024	1,002	1,097	976	914	853
	total staff	1,085	993	1,327	1,285	1,353	1,297	1,252	1,415	1,382	1,379	1,386
	% immunized	48	80	80	85	83	79	80	78	71	66	62
Vancouver	immunized	4,219	3,364	8,994	9,093	9,558	9,091	8,508	8,792	8,423	8,525	7,772
	total staff	9,805	4,996	12,003	12,400	12,767	12,430	11,876	12,186	12,942	13,292	13,161
	% immunized	43	67	75	73	75	73	72	72	65	64	59
N Shore/Coast Garibaldi	immunized	802	1,397	2,011	2,095	2,025	1,885	1,907	1,852	1,904	1,792	1,614
	total staff	2,007	1,839	2,652	2,627	2,665	2,522	2,487	2,473	2,835	2,917	2,854
	% immunized	40	76	76	80	76	75	77	75	67	61	57
VANCOUVER ISLAND	immunized	3,844	6,143	8,241	7,811	7,593	7,653	7,432	9,154	9,713	9,486	8,600
	total staff	9,166	8,345	11,360	11,119	11,592	11,585	11,447	11,454	12,072	12,797	12,701
	% immunized	42	74	73	70	66	66	65	80	81	74	68
South Van Island	immunized	1,944	3,975	4,722	4,458	4,312	4,345	4,148	5,029	5,345	5,334	4,866
	total staff	4,860	5,295	6,402	6,395	6,585	6,487	6,402	6,290	6,605	6,947	6,901
	% immunized	40	75	74	70	65	67	65	80	81	77	71
Central Van Island	immunized	1,139	1,673	2,070	2,060	1,970	1,967	2,023	2,507	2,678	2,454	2,224
	total staff	2,766	2,401	3,119	3,080	3,231	3,247	3,342	3,255	3,436	3,532	3,486
	% immunized	41	70	66	67	61	61	62	77	78	69	64
North Van Island	immunized	761	495	1,449	1,293	1,311	1,341	1,261	1,618	1,690	1,698	1,510
	total staff	1,540	649	1,839	1,644	1,776	1,851	1,803	1,909	2,031	2,318	2,314
	% immunized	49	76	79	79	74	72	72	85	83	73	65

Table 2 (cont'd). Immunization coverage for staff of acute care facilities by health authority and health service delivery area, 2011/12 to 2021/22

		Influenza season										
Health authority		2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22
NORTHERN	immunized	1,623	2,612	2,913	3,012	2,849	3,035	2,956	3,010	3,244	2,872	2,844
	total staff	4,354	3,459	3,992	4,007	4,232	4,117	4,123	3,882	4,289	4,319	4,289
	% immunized	37	76	73	75	67	74	72	78	76	67	66
Northwest	immunized	548	673	732	774	736	786	780	770	840	724	695
	total staff	1,121	909	1,017	1,035	1,078	1,077	1,081	991	1,090	1,069	1,037
	% immunized	49	74	72	75	68	73	72	78	77	68	67
Northern Interior	immunized	785	1,473	1,661	1,695	1,618	1,751	1,666	1,759	1,869	1,706	1,752
	total staff	2,467	1,908	2,229	2,228	2,387	2,307	2,325	2,238	2,475	2,512	2,548
	% immunized	32	77	75	76	68	76	72	79	76	68	69
Northeast	immunized	290	466	520	543	495	498	510	481	535	442	397
	total staff	766	642	746	744	767	733	717	653	724	738	704
	% immunized	38	73	70	73	65	68	71	74	74	60	56
PHSA	immunized	2,363	4,038	4,998	4,932	5,215	5,155	5,570	5,479	5,185	4,939	4,480
	total staff	5,441	5,710	6,398	6,233	6,622	6,512	6,778	6,328	6,966	6,892	7,376
	% immunized	43	71	78	79	79	79	82	87	74	72	61
BC	immunized	23,375	35,899	50,878	51,580	51,888	50,435	50,456	51,752	51,328	49,193	42,993
	total staff	58,212	48,818	67,459	67,580	69,962	67,456	67,055	65,953	70,467	72,445	71,976
	% immunized	40	74	75	76	74	75	75	78	73	68	60

2021/22 policy compliance results (Figure 4, Table 3)

- Allied health, pharmacy, and management/leadership staff reported the highest coverage; this is the same finding as in the previous five influenza seasons
- 60% of staff in acute care facilities in BC reported being vaccinated, 13% reported declining vaccination, and 27% did not report vaccination status and were considered unvaccinated for the purpose of this report
 - The low coverage in certain occupation categories (e.g., medical staff) is largely due to non-reporting rather than declining vaccination. In 2021-2022, only 0.5% of medical staff declined vaccination, while 65% did not report their vaccination status

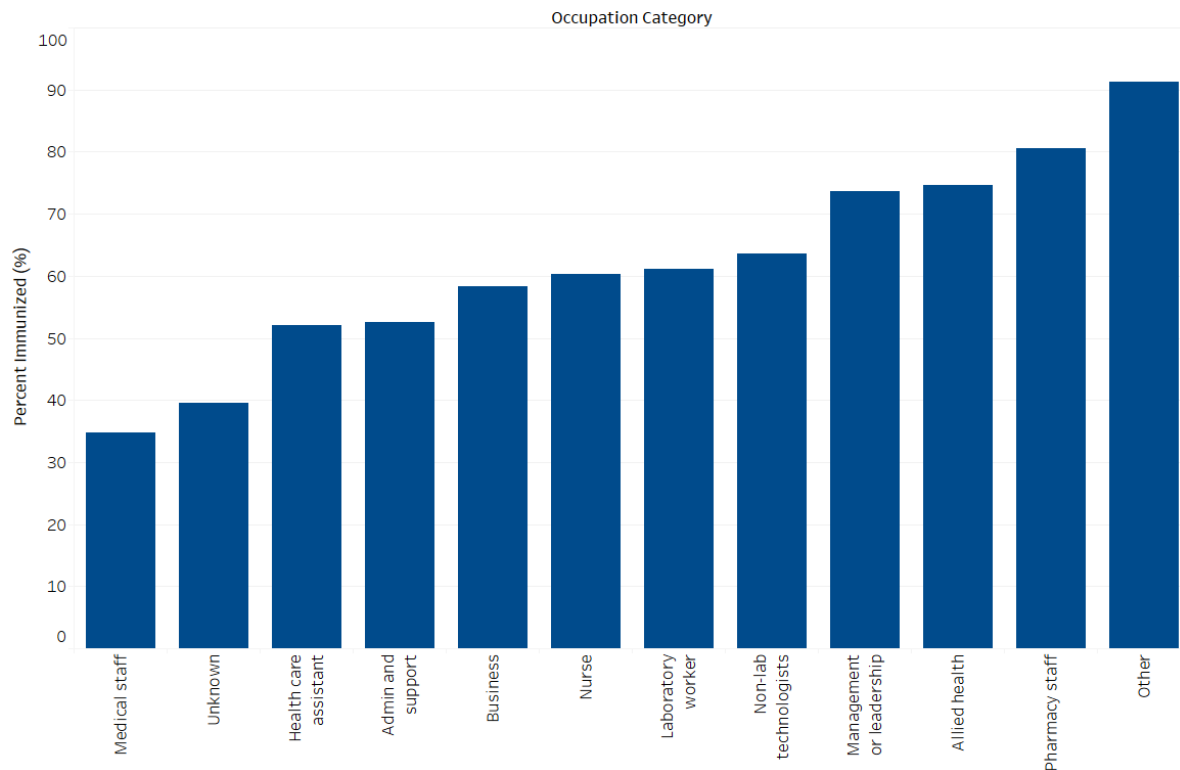


Figure 4. Influenza immunization coverage for staff of acute care facilities by occupation group, British Columbia 2021/22

Table 3. Influenza Prevention Policy compliance for acute health care workers by health authority, 2021/22

Health Authority	Vaccinated		Declined		Compliance Status		Total	
	No.	%	No.	%	Not reported No.	Not reported %	No.	%
IHA	6,389	55	1,635	14	3,576	31	11,600	100
FHA	10,441	56	3,006	16	5,162	28	18,609	100
VCHA	10,239	59	918	5	6,244	36	17,401	100
VIHA	8,600	68	2,531	20	1,570	12	12,701	100
NHA	2,844	66	812	18	633	15	4,289	100
PHSA	4,480	61	374	5	2,522	34	7,376	100
Total	42,993	60	9,276	13	19,707	27	71,976	100