



Our Health Counts Toronto linkage to Institute of Clinical and Evaluative Sciences (ICES) COVID-19 data holdings

Incidence of positive COVID-19 cases and proportion of COVID-19 tests, hospitalizations and vaccinations among First Nations, Inuit, and Métis (FNIM) living in Toronto.

Data reported as of: **Feb 28, 2023**

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Community Leads: Seventh Generation Midwives Toronto

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COVID-19 VACCINATIONS

Table 1: Proportion of Indigenous adults who have received first, second and third doses of COVID-19 vaccination as of February 28, 2023 in comparison to general Toronto and Ontario population. Results from Our Health Counts Toronto data linkage to ICES COVID-19 data.

	FNIM Population in Toronto*		City of Toronto Population		Ontario Population	
	n	HCG-Adjusted Proportion % [95% Confidence Interval]	n	Proportion %	n	Proportion %
First Dose	509	71.85 [66.97, 76.74]	2,020,904	85.40	10,653,996	86.29
Second Dose	479	66.27 [61.15, 71.39]	1,985,871	83.92	10,468,443	84.79
Third Dose	322	45.44 [39.86, 51.01]	1,404,387	59.34	7,208,433	58.38
Fourth Dose	168	23.01 [18.29, 27.73]	696,427	29.43	3,517,897	28.49
Total	689		2,366,519		12,346,440	

*Our Health Counts FNIM adult (15+) population living in Toronto as of December 31, 2019, excluding seeds

COVID-19 VACCINATIONS

Figure 1: Proportion of Indigenous adults who have received first dose of COVID-19 vaccination over time in comparison to general Toronto and Ontario population. Results from Our Health Counts Toronto data linkage to ICES COVID-19 data.

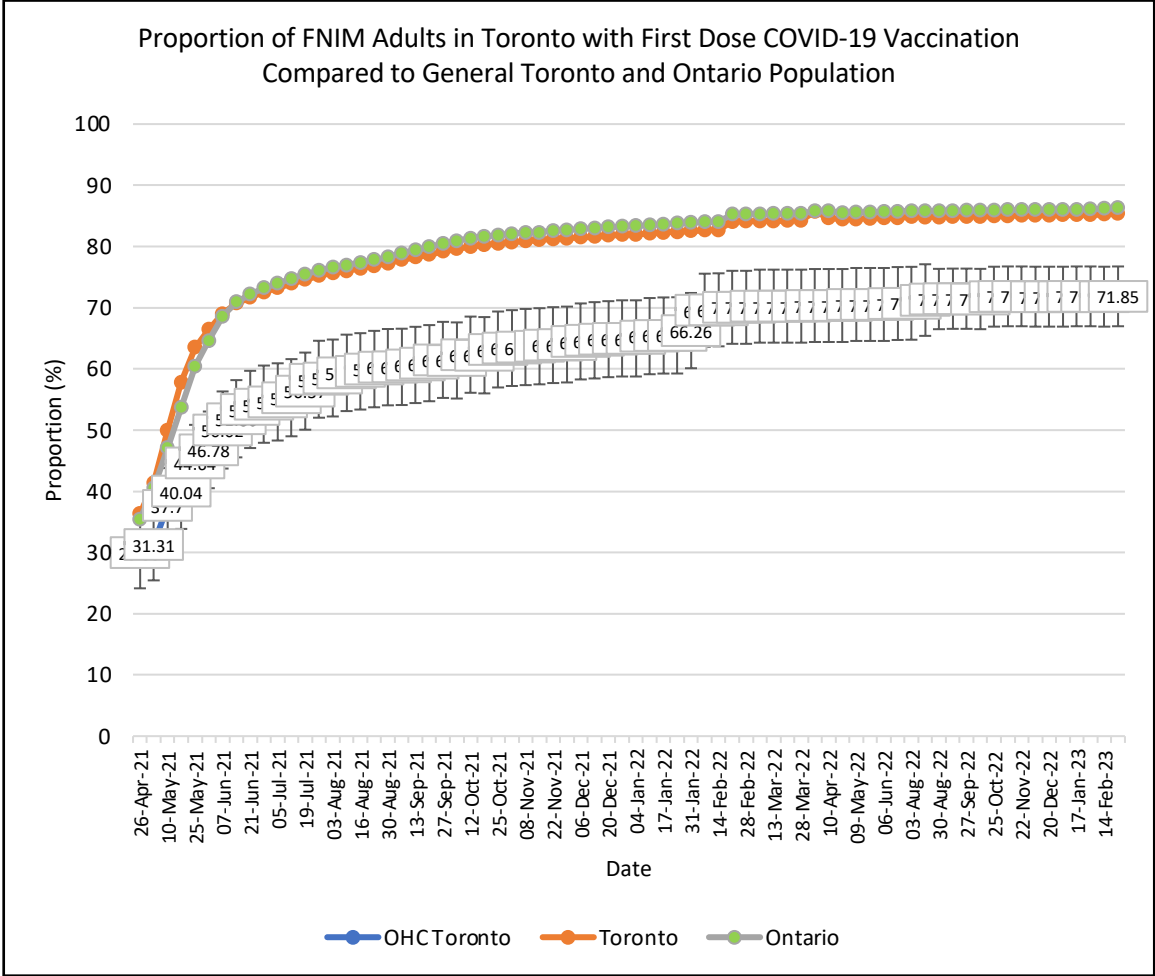
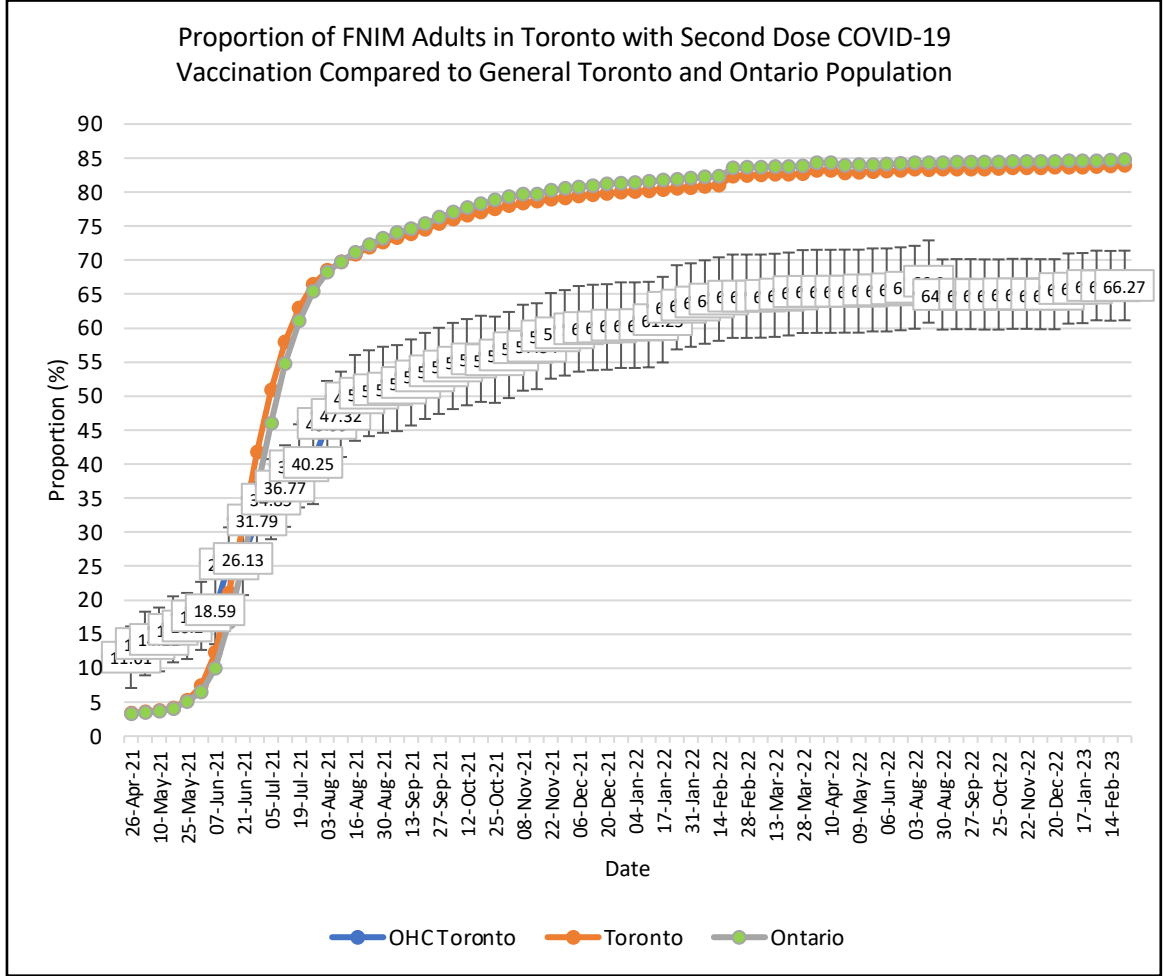


Figure 2: Proportion of Indigenous adults who have received second dose of COVID-19 vaccination over time in comparison to general Toronto and Ontario population. Results from Our Health Counts Toronto data linkage to ICES COVID-19 data.



COVID-19 VACCINATIONS

Figure 3: Proportion of Indigenous adults who have received third dose of COVID-19 vaccination over time in comparison to general Toronto and Ontario population. Results from Our Health Counts Toronto data linkage to ICES COVID-19 data.

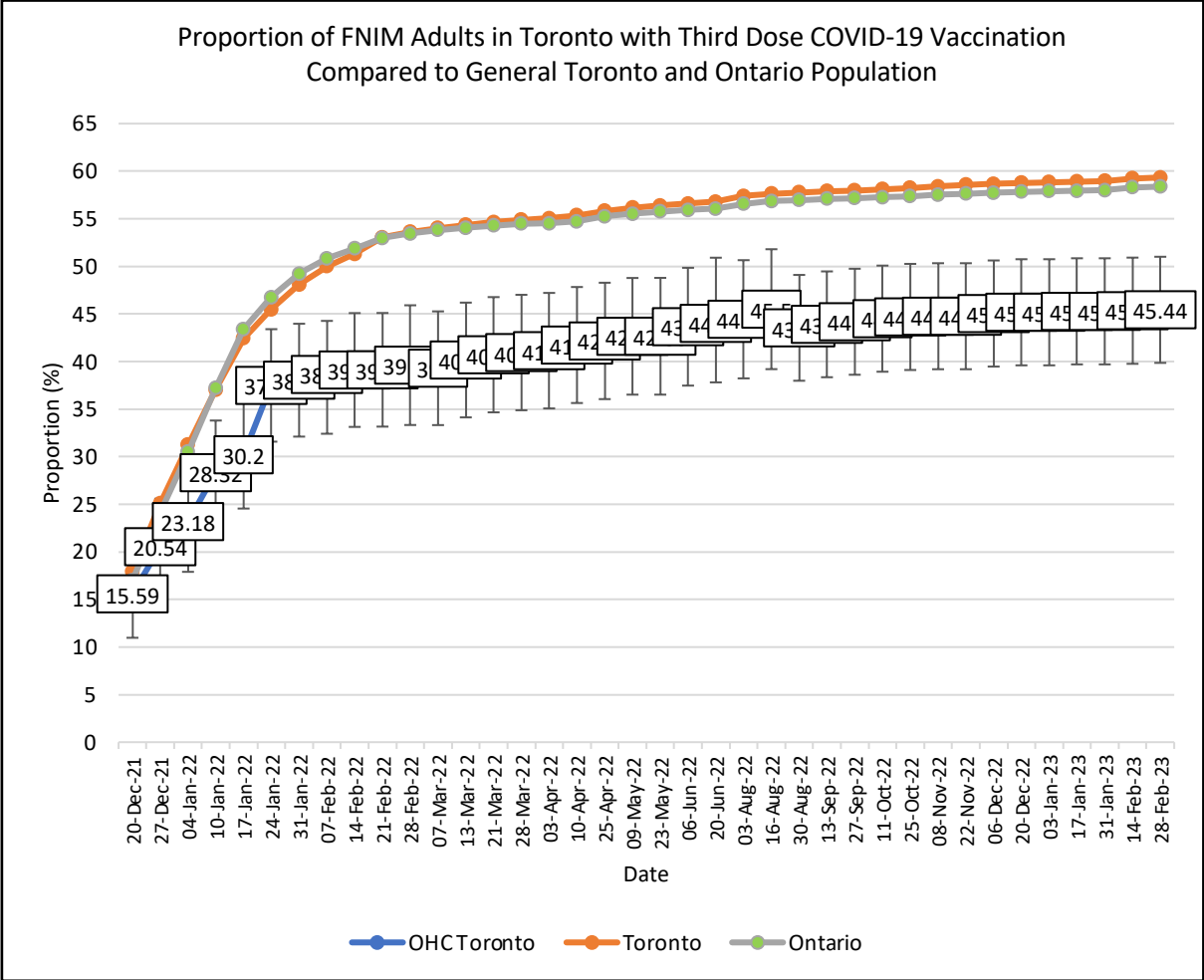
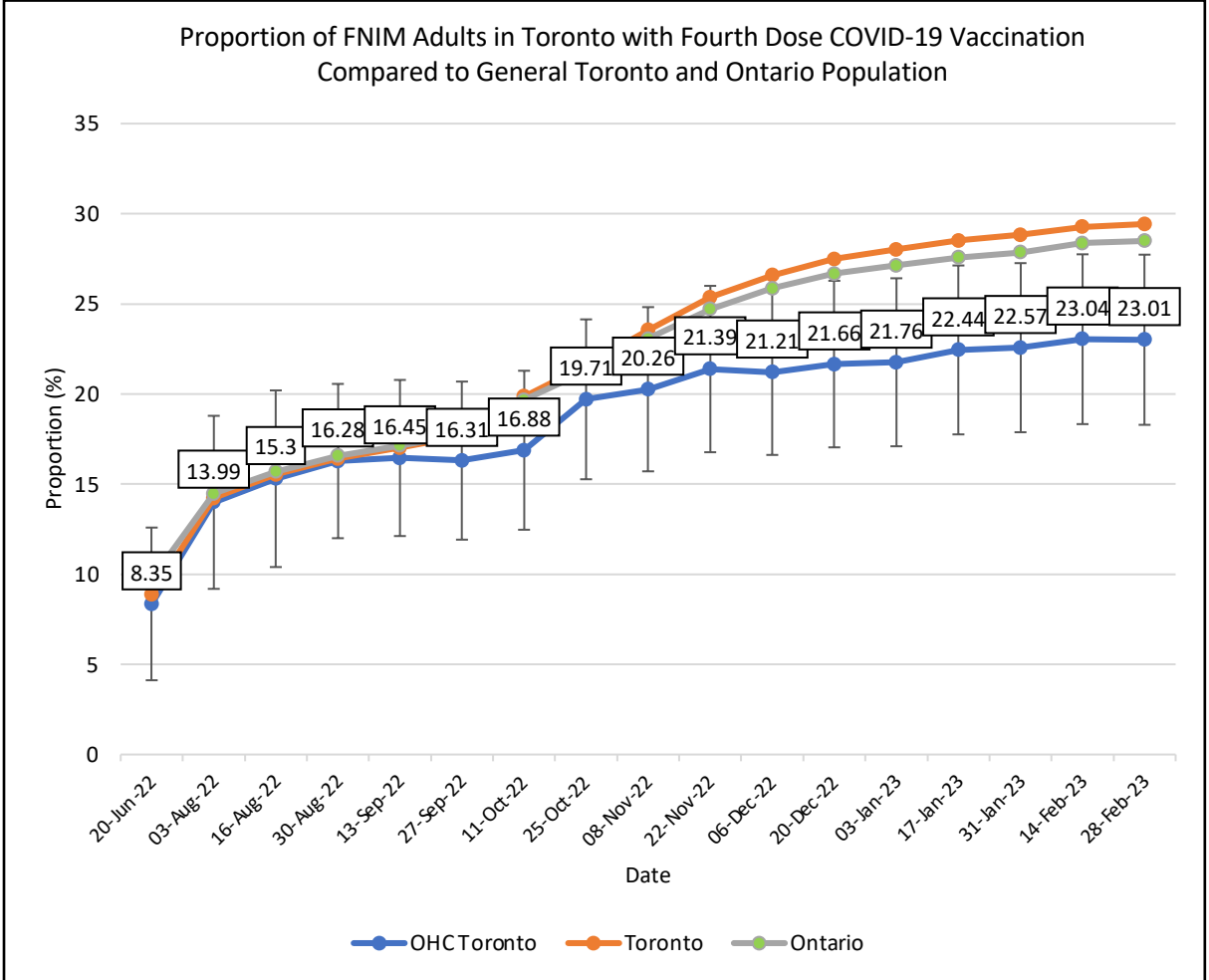


Figure 4: Proportion of Indigenous adults who have received fourth dose of COVID-19 vaccination over time in comparison to general Toronto and Ontario population. Results from Our Health Counts Toronto data linkage to ICES COVID-19 data.



FIRST DOSE COVID-19 VACCINATIONS

Figure 4: RDS-II Adjusted Proportion of Indigenous adults who have received first dose of COVID-19, stratified by age

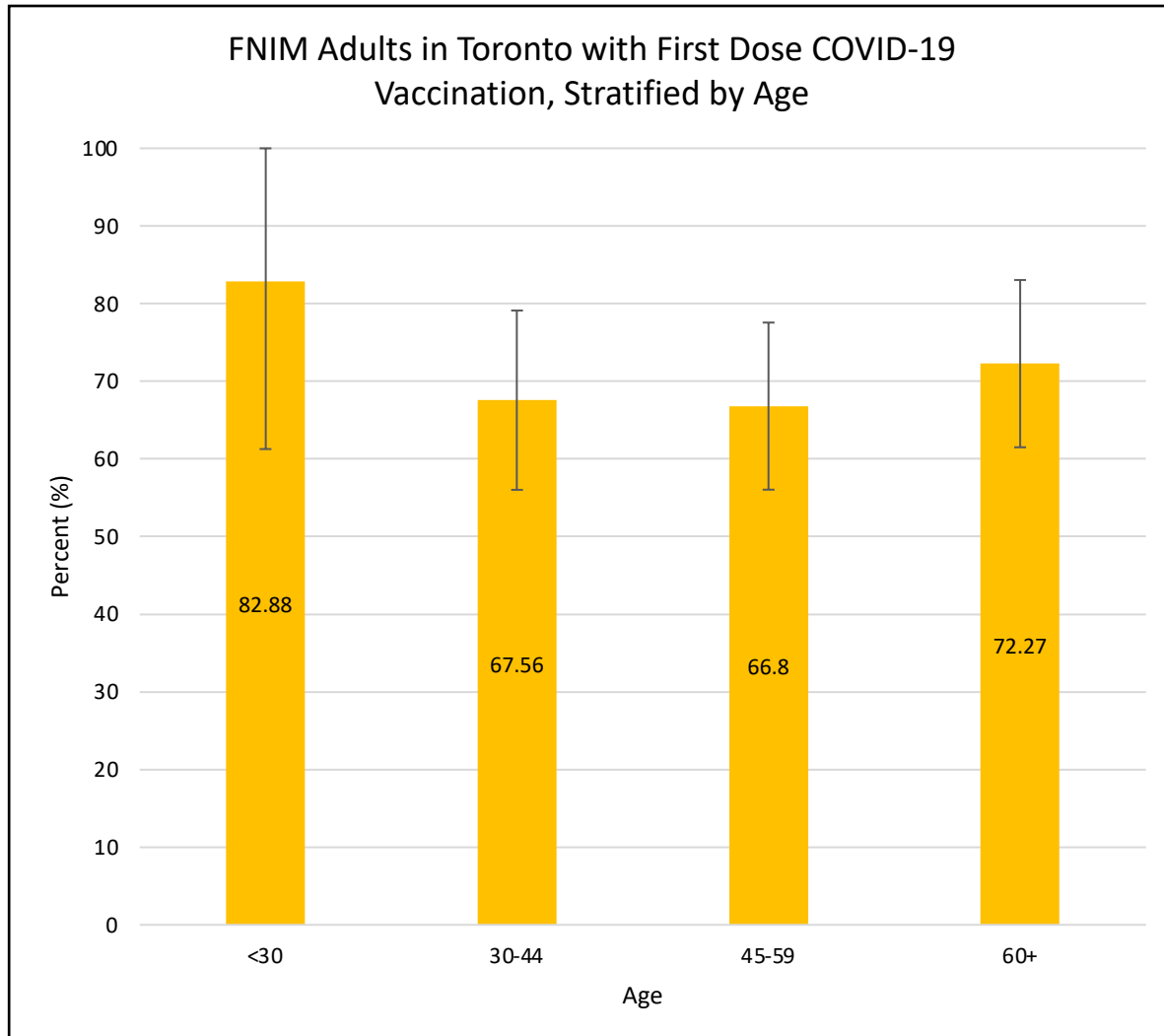
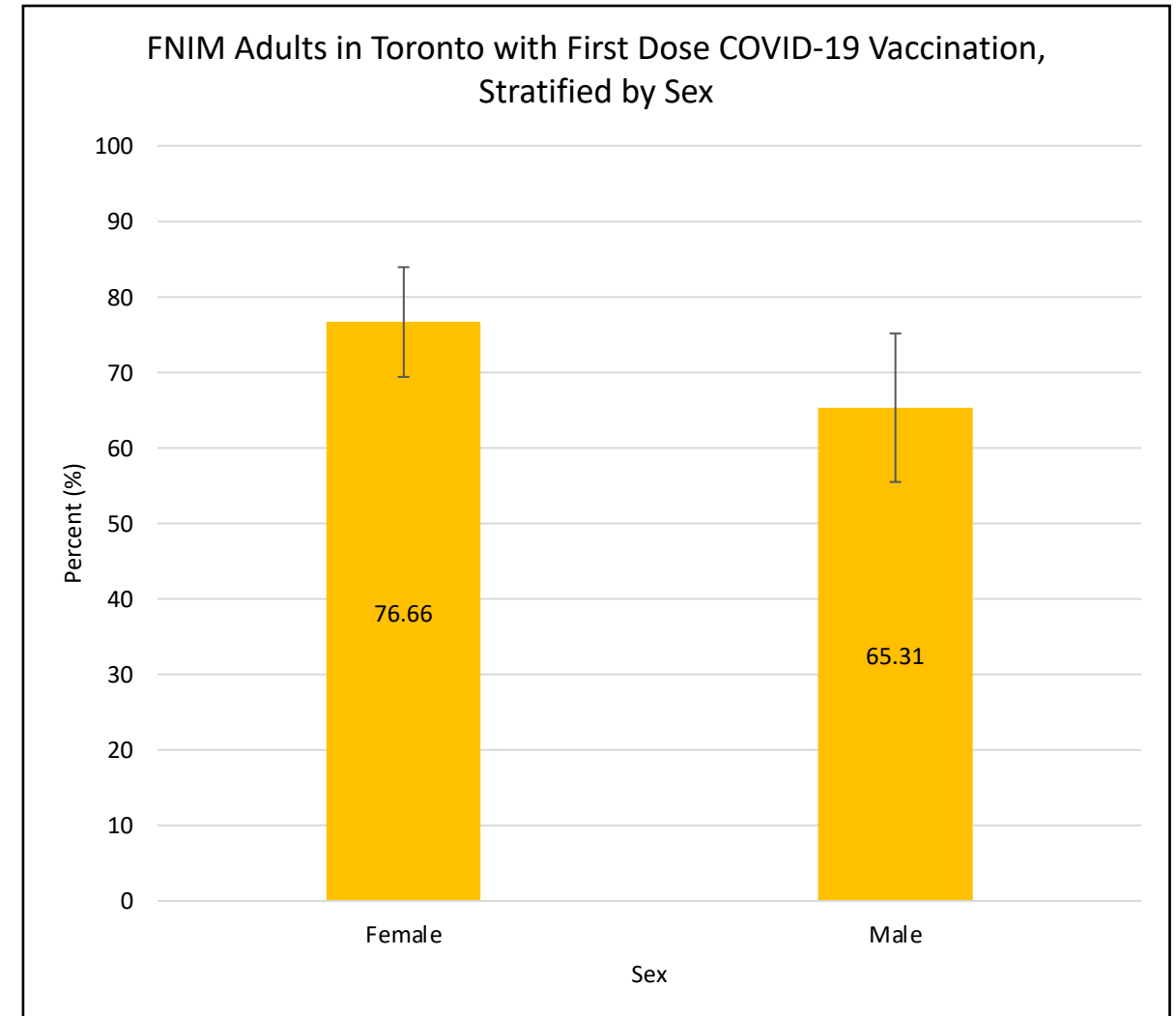


Figure 5: HCG Adjusted Proportion of Indigenous adults who have received first dose of COVID-19, stratified by sex



SECOND DOSE COVID-19 VACCINATIONS

Figure 6: RDS-II Adjusted Proportion of Indigenous adults who have received second dose of COVID-19, stratified by age

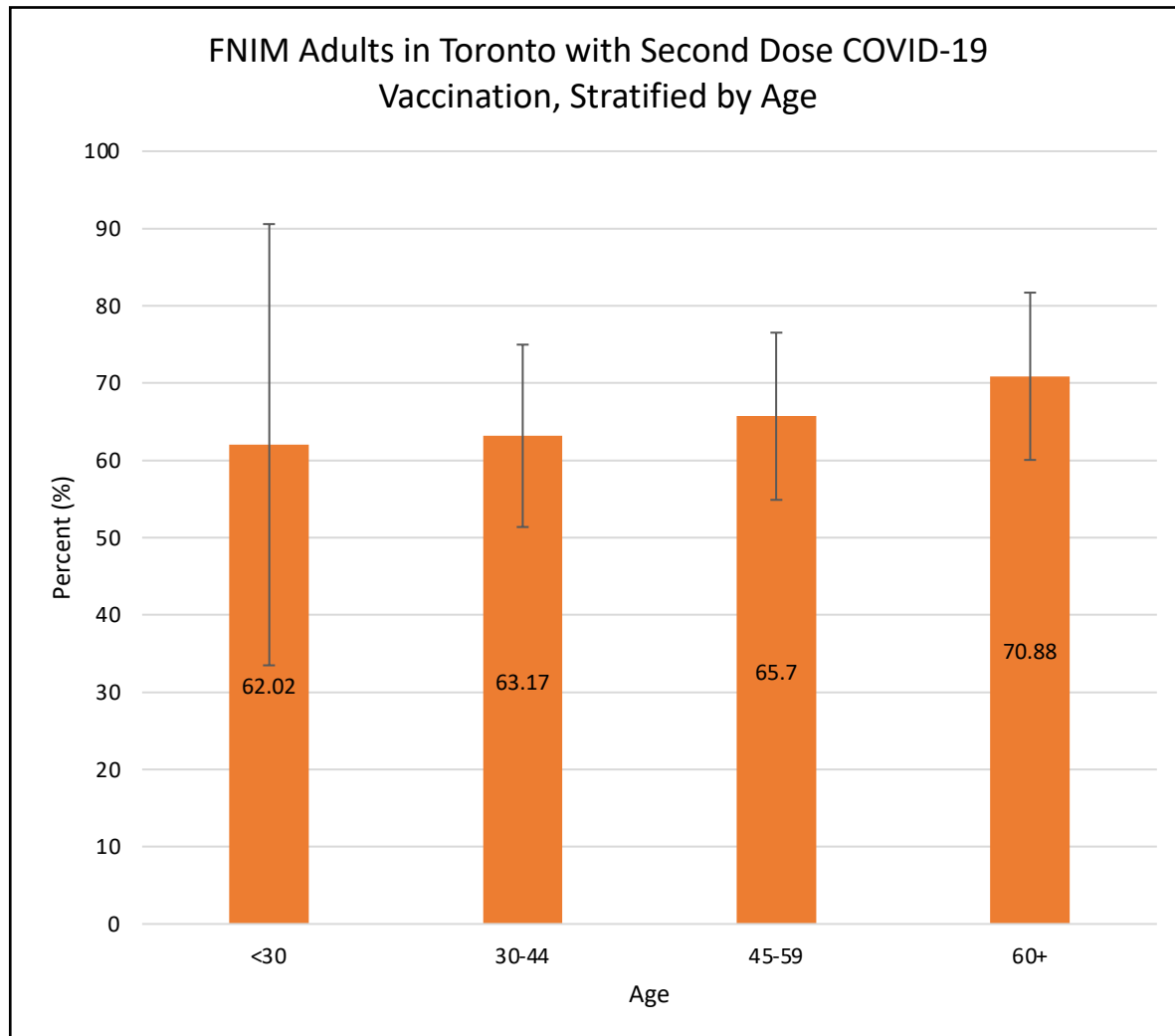
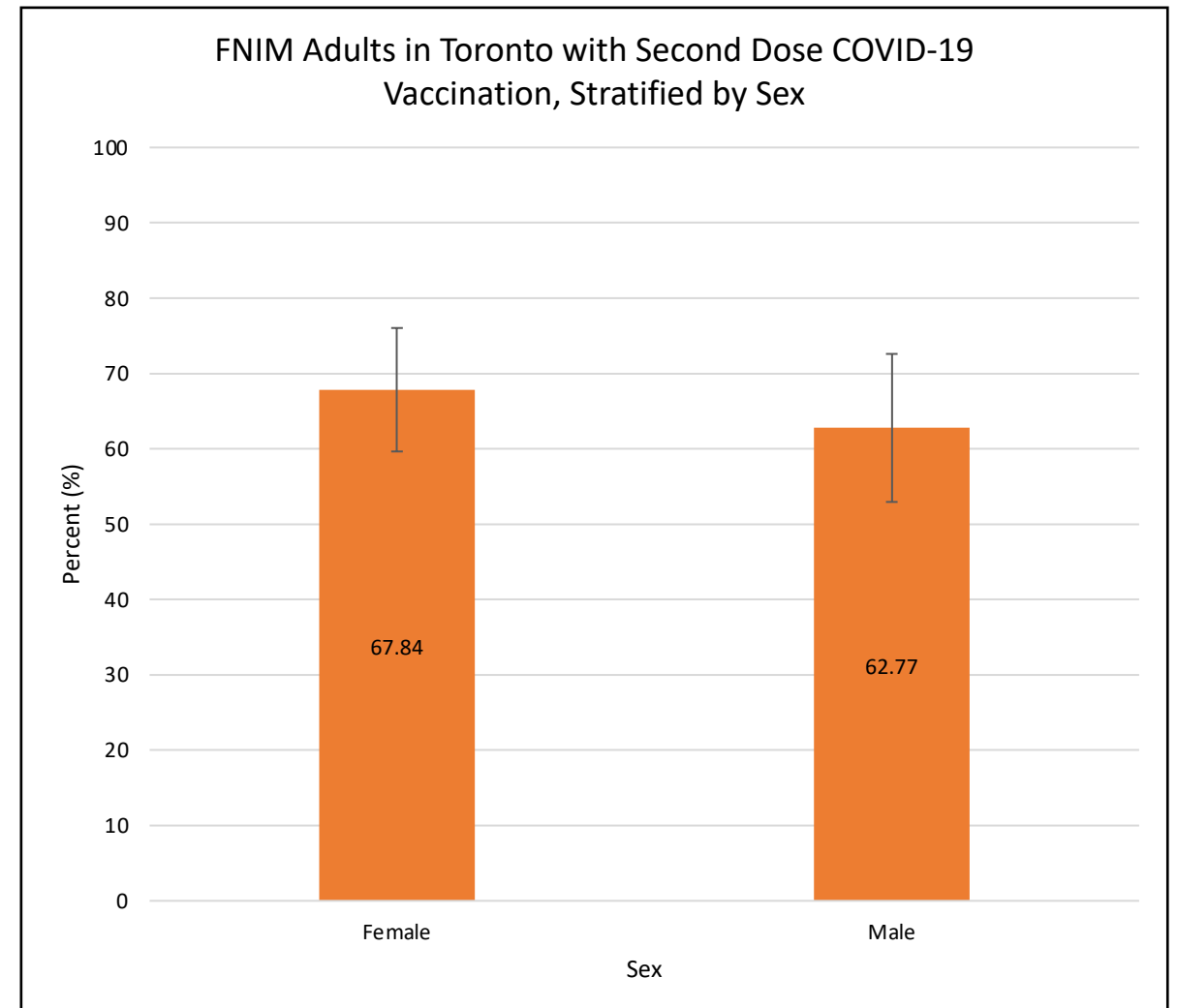


Figure 7: HCG Adjusted Proportion of Indigenous adults who have received second dose of COVID-19, stratified by sex



THIRD DOSE COVID-19 VACCINATIONS

Figure 8: RDS-II Adjusted Proportion of Indigenous adults who have received third dose of COVID-19, stratified by age

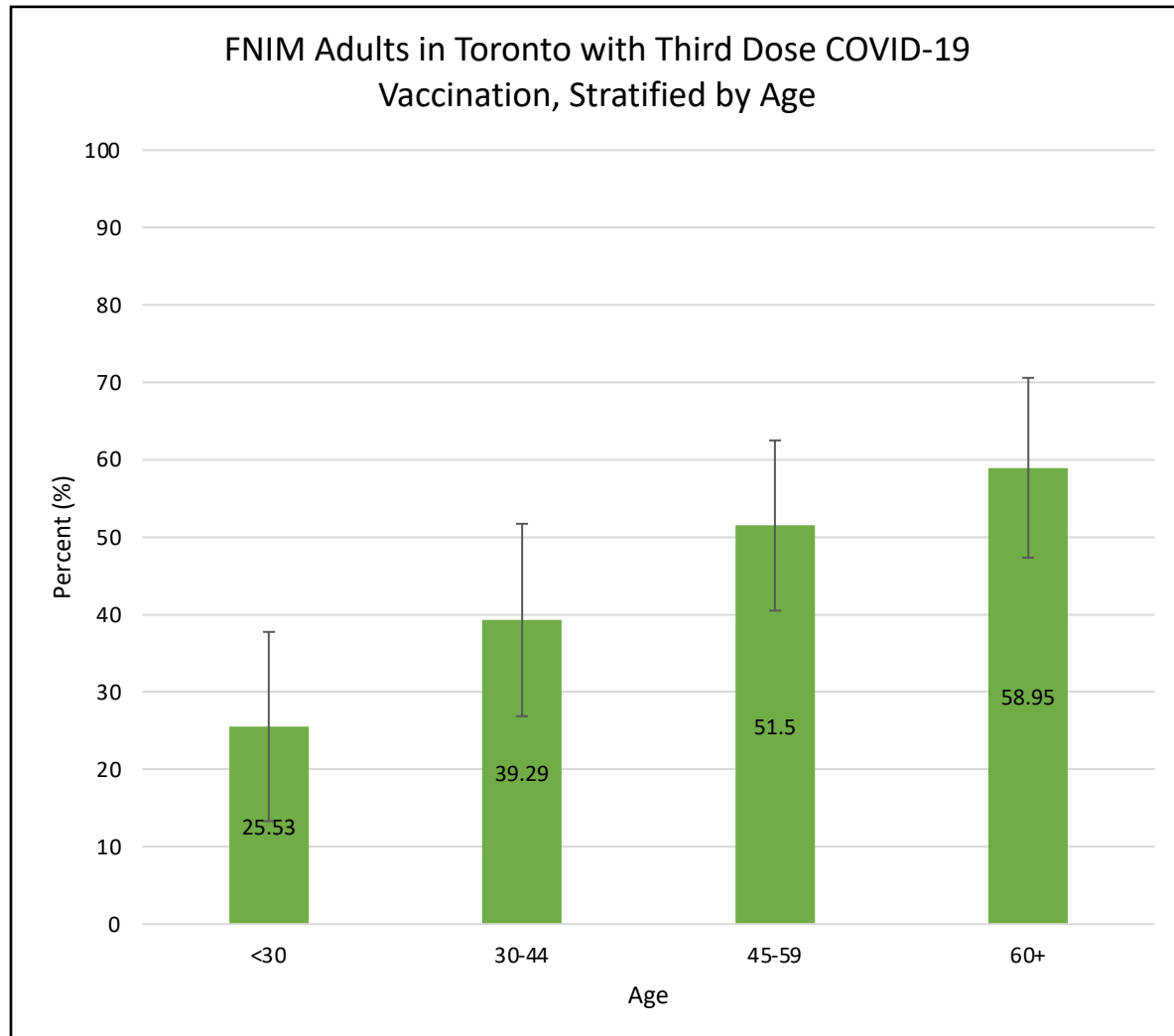
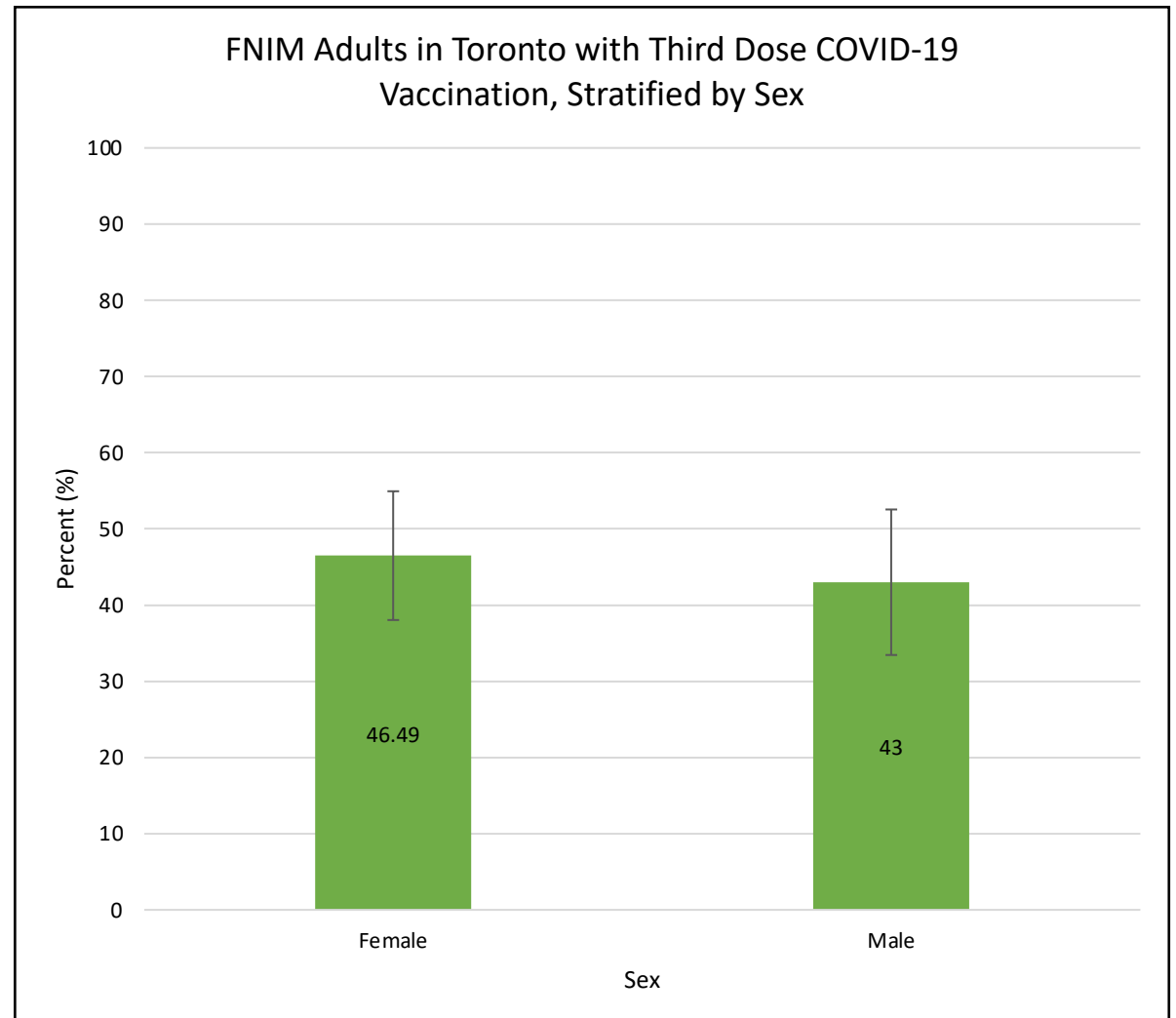


Figure 9: HCG Adjusted Proportion of Indigenous adults who have received third dose of COVID-19, stratified by sex



FOURTH DOSE COVID-19 VACCINATIONS

Figure 10: RDS-II Adjusted Proportion of Indigenous adults who have received fourth dose of COVID-19, stratified by age

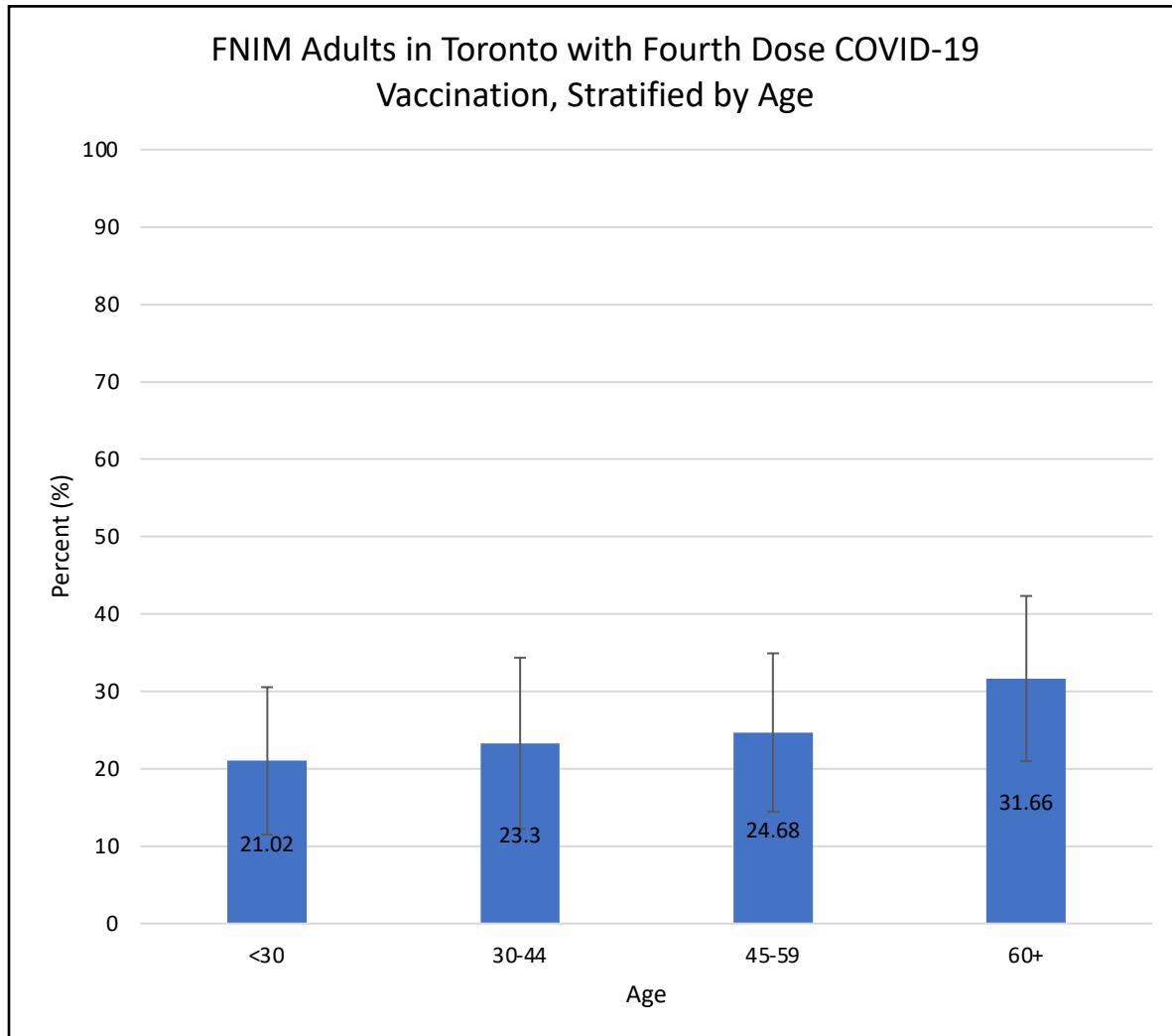
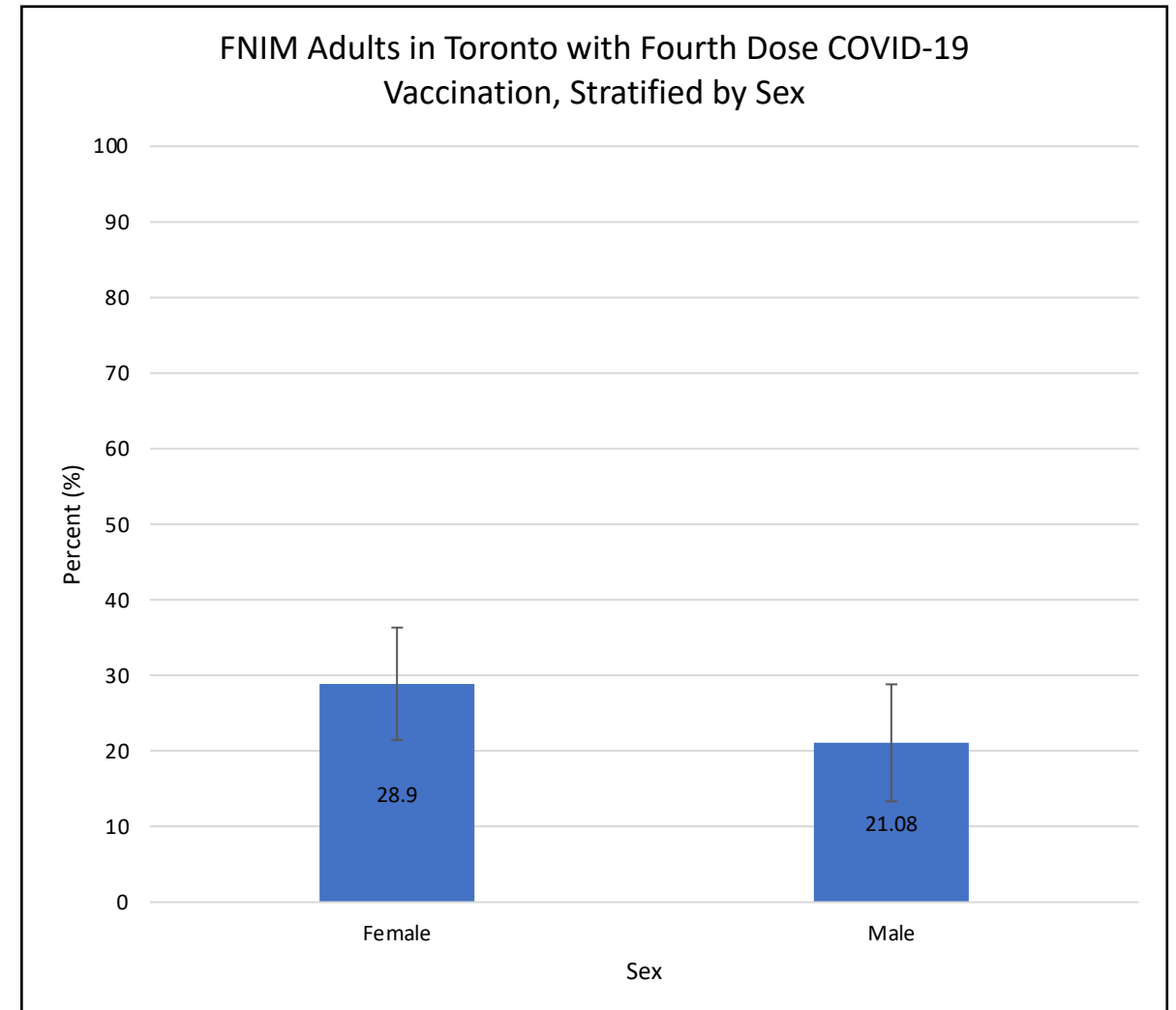


Figure 11: HCG Adjusted Proportion of Indigenous adults who have received fourth dose of COVID-19, stratified by sex



COVID-19 VACCINATIONS

Table 2: Non-conservative 2021 Population Estimates for FNIM Adults in Toronto and Estimated Required Number of Vaccine Events to Fully Vaccinate (2 Doses) FNIM Adults in Toronto

Non-conservative population estimates for FNIM adults (15+) in Toronto in 2021	Estimated required number of vaccine events (FNIM population x 2 doses)
71,097*	142,194

*Non-conservative population estimates for FNIM adults (15+) in Toronto in 2021. Estimate includes assumption that Indigenous population has grown by 5% since 2016

Table 3: Estimated number of FNIM vaccination events required for complete vaccination (2 doses) FNIM adult population in Toronto.

Vaccination	HCG-Adjusted Proportion of First & Second Dose Vaccinations Administered to FNIM OHC Toronto Adults (%)	Non-conservative 2021 population estimates for FNIM adults (15+) in Toronto	Estimated # of Vaccinations Given (FNIM population x % vaccines administered)	Estimated # of Vaccinations Required (Estimated required number of vaccine events - Estimated # of Vaccinations Given)
First Dose	71.85 [66.97, 76.74]	71,097	51,083	
Second Dose	66.27 [61.15, 71.39]	71,097	47,116	
Total			98,199	43,995

COVID-19 VACCINATIONS

Table 4: Non-conservative 2021 Population Estimates for FNIM Adults in Toronto and Estimated Required Number of Vaccine Events to Fully Vaccinate FNIM Adults in Toronto, Including Third Dose of Booster

Non-conservative population estimates for FNIM adults (15+) in Toronto in 2021	Estimated required number of vaccine events (FNIM population x 3 doses)
71,097*	213,291

*Non-conservative population estimates for FNIM adults (15+) in Toronto in 2021. Estimate includes assumption that Indigenous population has grown by 5% since 2016

Table 5: Estimated number of FNIM vaccination events required for complete vaccination, including third dose booster of FNIM adult population in Toronto.

Vaccination	HCG-Adjusted Proportion of First & Second Dose Vaccinations Administered to FNIM OHC Toronto Adults (%)	Non-conservative 2021 population estimates for FNIM adults (15+) in Toronto	Estimated # of Vaccinations Given (FNIM population x % vaccines administered)	Estimated # of Vaccinations Required (Estimated required number of vaccine events - Estimated # of Vaccinations Given)
First Dose	71.85 [66.97, 76.74]	71,097	51,083	
Second Dose	66.27 [61.15, 71.39]	71,097	47,116	
Third Dose	45.44 [39.86, 51.01]	71,097	32,306	
Total			130,506	82,785

COVID-19 VACCINATIONS

Table 6: Non-conservative 2021 Population Estimates for FNIM Adults in Toronto and Estimated Required Number of Vaccine Events to Fully Vaccination FNIM Adults in Toronto, Including Fourth Dose of Booster

Non-conservative population estimates for FNIM adults (15+) in Toronto in 2021	Estimated required number of vaccine events (FNIM population x 4 doses)
71,097*	284,388

*Non-conservative population estimates for FNIM adults (15+) in Toronto in 2021. Estimate includes assumption that Indigenous population has grown by 5% since 2016

Table 7: Estimated number of FNIM vaccination events required for complete vaccination, including fourth dose booster of FNIM adult population in Toronto.

Vaccination	HCG-Adjusted Proportion of First & Second Dose Vaccinations Administered to FNIM OHC Toronto Adults (%)	Non-conservative 2021 population estimates for FNIM adults (15+) in Toronto	Estimated # of Vaccinations Given (FNIM population x % vaccines administered)	Estimated # of Vaccinations Required (Estimated required number of vaccine events - Estimated # of Vaccinations Given)
First Dose	71.85 [66.97, 76.74]	71,097	51,083	
Second Dose	66.27 [61.15, 71.39]	71,097	47,116	
Third Dose	45.44 [39.86, 51.01]	71,097	32,306	
Fourth Dose	23.01 [18.29, 27.73]	71,097	16,359	
Total			146,865	137,523

COVID-19 HOSPITALIZATIONS

Table 8: Proportion of Indigenous adults testing positive for COVID-19 and were hospitalized in comparison to general Toronto and Ontario population from January 2020 to February 28, 2023. Total sample n= 687, representing n=71,096 FNIM in Toronto**. Results from Our Health Counts Toronto data linkage to ICES COVID-19 data holdings.

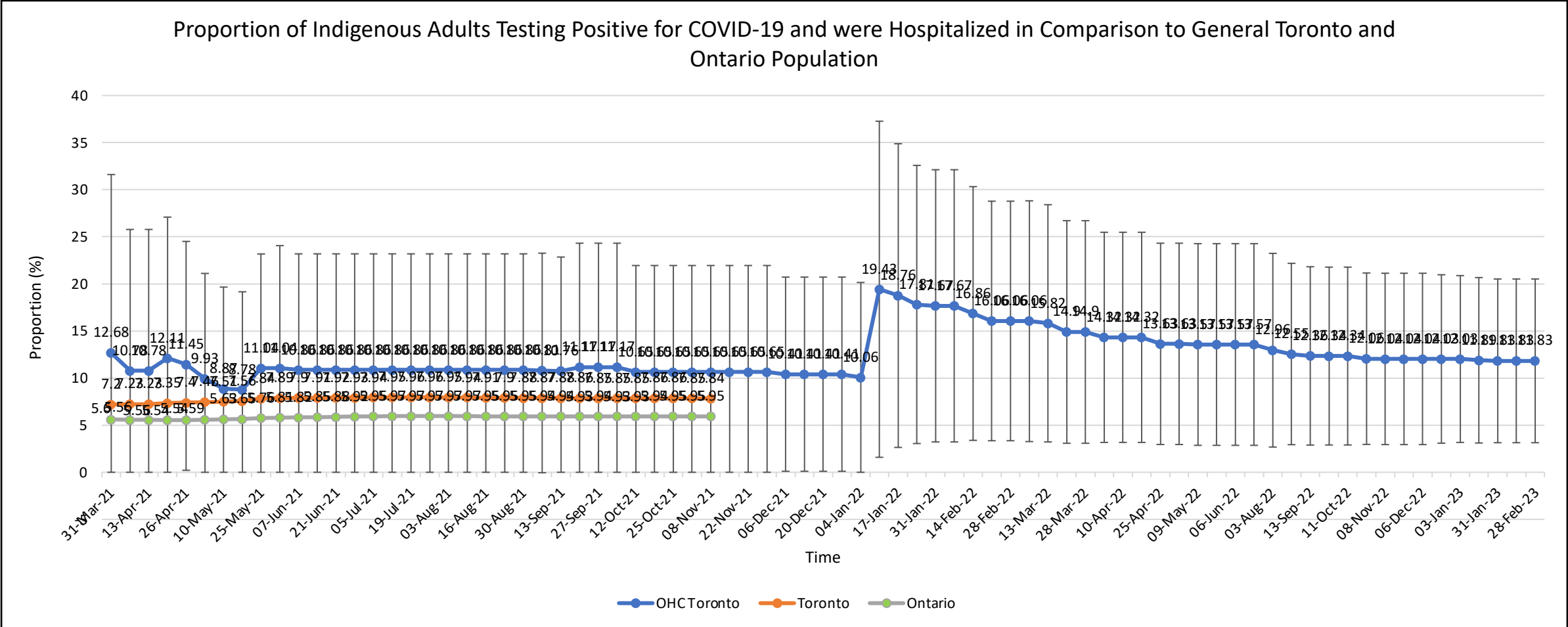
	FNIM Population in Toronto*		City of Toronto Population		Ontario Population	
	n	RDS-II Adjusted Proportion % [95% Confidence Interval]	n	Proportion %	n	Proportion %
Hospitalizations	12	11.83 [3.14, 20.52]	14,543	5.11	57,602	4.43
Total COVID-19 positive cases	120		284,396		1,299,650	

*Our Health Counts FNIM adult (15+) population living in Toronto as of December 31, 2019 and have tested positive for COVID-19, excluding seeds

**Non-conservative population estimates for FNIM adults (15+) in Toronto in 2021

COVID-19 HOSPITALIZATIONS

Figure 12: Proportion of Indigenous adults testing positive for COVID-19 and were hospitalized over time in comparison to general Toronto and Ontario population. Results from Our Health Counts Toronto data linkage to ICES COVID-19 data holdings.



INCIDENCE OF COVID-19 POSITIVE CASES

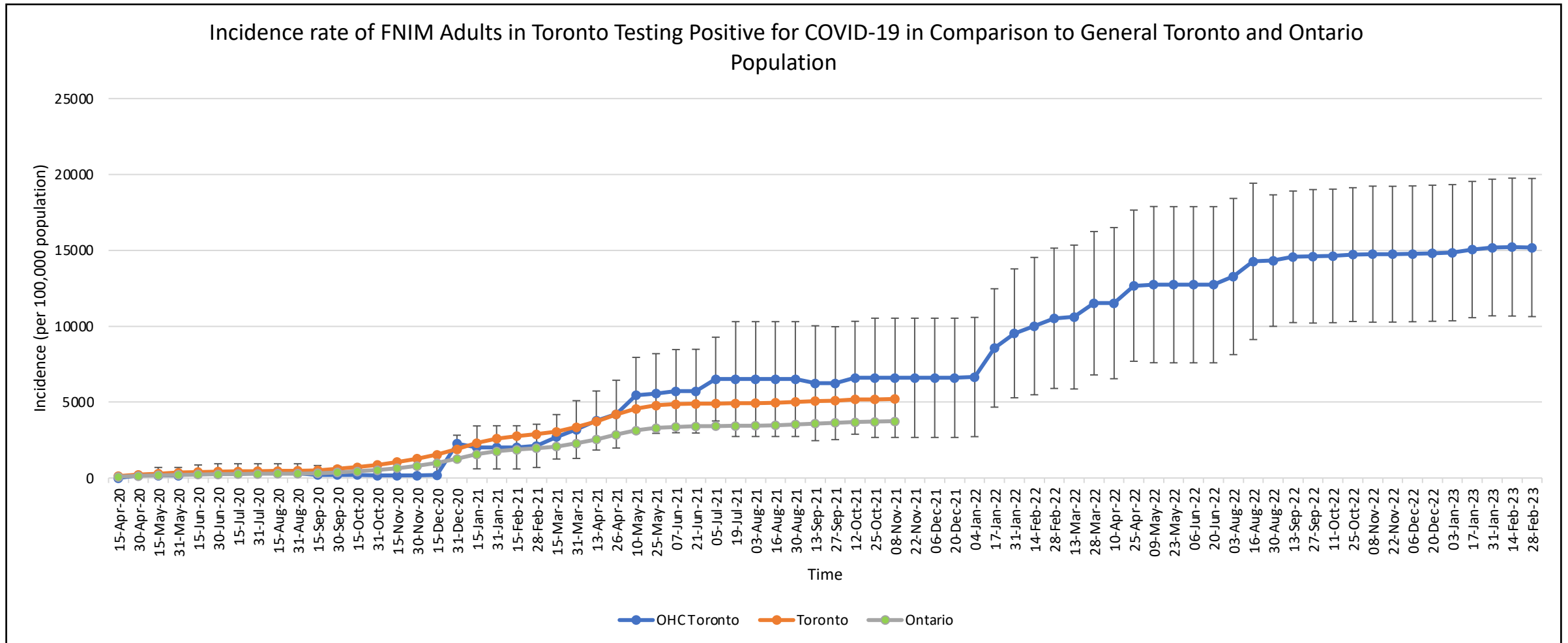
Table 9: Incidence rate of Indigenous adults testing positive for COVID-19 in comparison to general Toronto and Ontario population from January 2020 to February 28, 2023. Results from Our Health Counts Toronto data linkage to ICES COVID-19 data holdings.

	FNIM Population in Toronto*		City of Toronto Population		Ontario Population	
	n	HCG-Adjusted Incidence Incidence per 100,000 FNIM population [95% Confidence Interval]	n	Crude Incidence Incidence per 100,000 population	n	Crude Incidence Incidence per 100,000 population
Positive COVID-19 test	120	15,186 [10,643, 19,729]	284,396	12,017	1,299,650	10,527
Total	689		2,366,519		12,346,440	

*Our Health Counts FNIM adult (15+) population living in Toronto as of December 31, 2019, excluding seeds

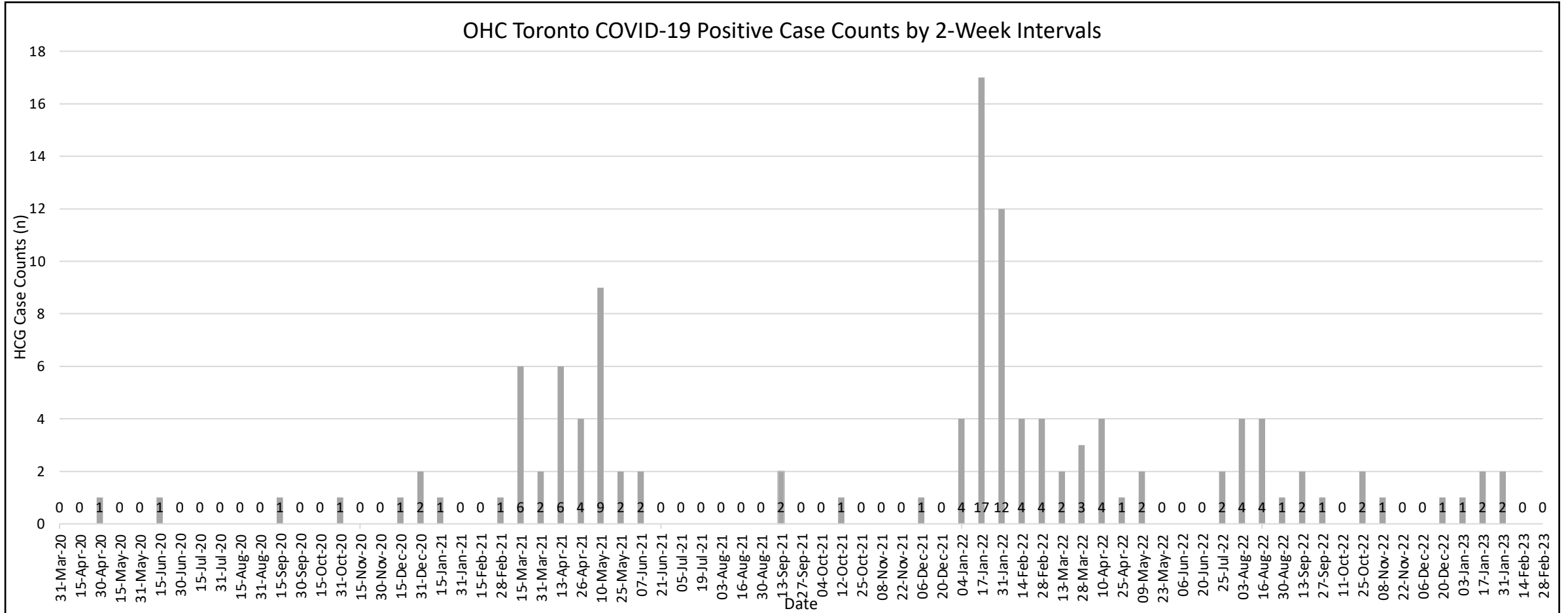
INCIDENCE OF COVID-19 POSITIVE CASES

Figure 13: Incidence rate of Indigenous adults testing positive for COVID-19 over time in comparison to general Toronto and Ontario population. Results from Our Health Counts Toronto data linkage to ICES COVID-19 data holdings.



COVID-19 POSITIVE CASES

Figure 14: Indigenous adult COVID-19 positive case counts by two-week intervals. Results from Our Health Counts Toronto data linkage to ICES COVID-19 data holdings.



COVID-19 TESTING PREVALENCE

Table 10: Prevalence of COVID-19 testing among FNIM adults in Toronto in comparison to general Toronto and Ontario population from January 2020 to February 28, 2023. Results from Our Health Counts Toronto data linkage to ICES COVID-19 data holdings.

	FNIM Population in Toronto*		City of Toronto Population		Ontario Population	
	n	HCG-Adjusted Period Prevalence % [95% Confidence Interval]	n	Crude Period Prevalence %	n	Crude Period Prevalence %
Tested	484	62.92 [57.59, 68.24]	1,245,597	52.63	6,395,353	51.80
Not Tested	205	37.08 [31.76, 42.41]	1,120,922	47.37	5,951,087	48.20
Total	689		2,366,519		12,346,440	

*Our Health Counts FNIM adult (15+) population living in Toronto as of December 31, 2019, excluding seeds

