



# 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: **Jan 31, 2023**

**Principal Investigator:** Dr. Janet Smylie

**Community Leads:** Seventh Generation Midwives Toronto

**Presentation prepared by:** Stephanie McConkey & Raman Brar (Well Living House)

Seventh Generation Midwives Toronto

SGMT



Well Living House

# COVID-19 VACCINATIONS

Table 1: Proportion of Indigenous adults who have received first, second and third doses of COVID-19 vaccination as of January 31, 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]	1,992,086	85.17	10,490,895	86.09
Second Dose	479	66.27 [61.15, 71.39]	1,957,088	83.68	10,305,897	84.57
Third Dose	321	45.27 [39.70, 50.85]	1,379,325	58.97	7,066,590	57.99
Fourth Dose	164	22.57 [17.88, 27.26]	674,226	28.83	3,394,020	27.85
<b>Total</b>	<b>689</b>		<b>2,338,855</b>		<b>12,186,094</b>	

\*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.

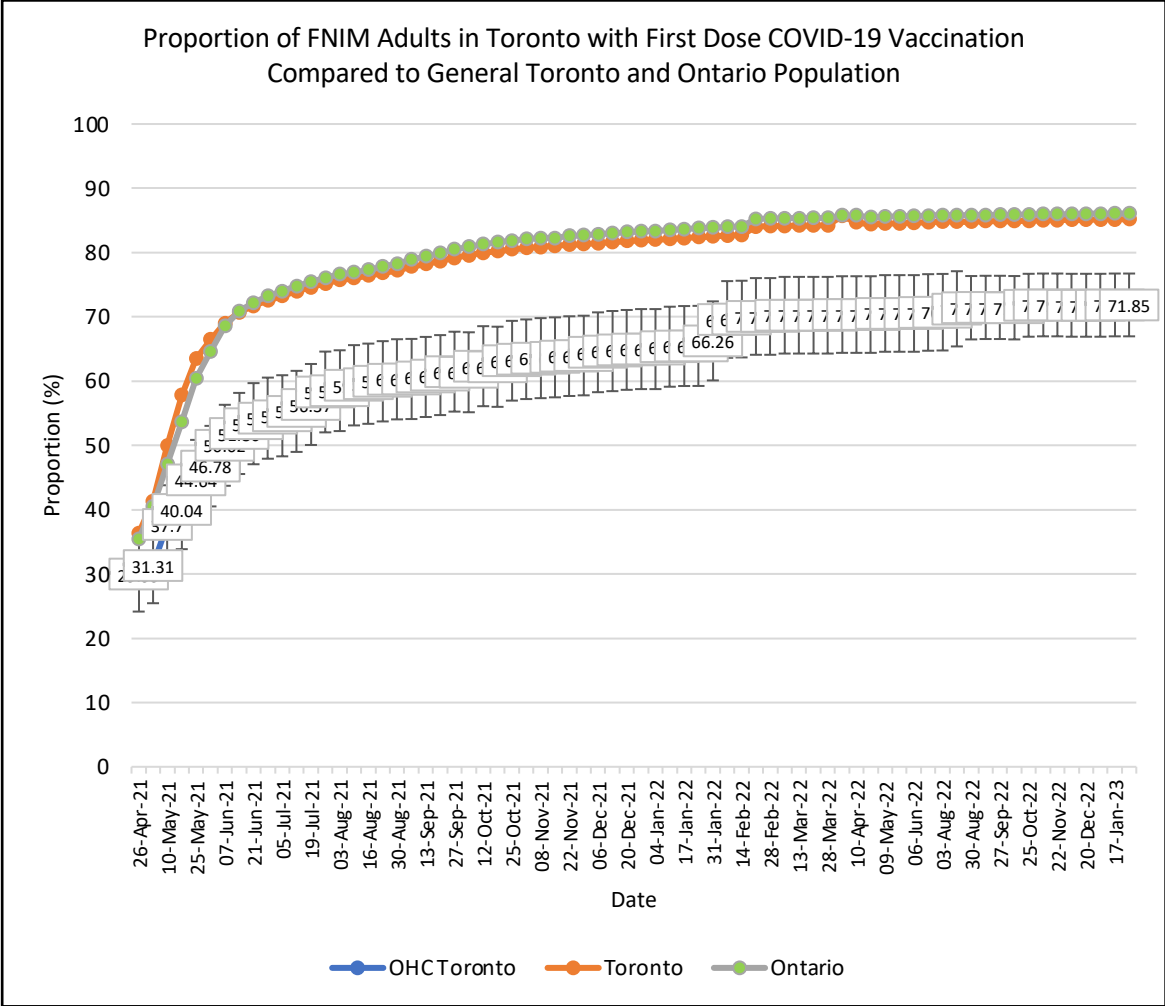
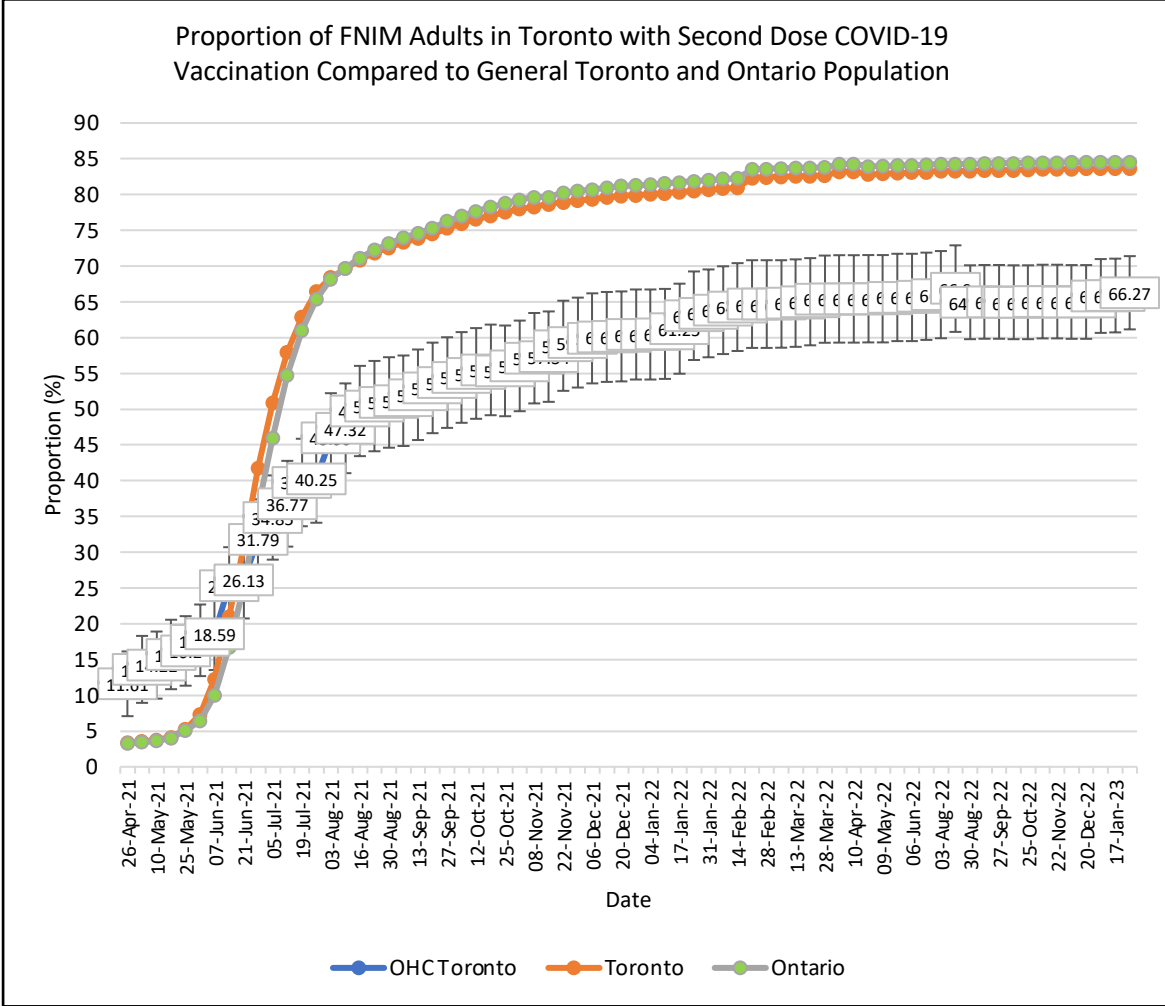


Figure 2: Proportion of Indigenous adults who have received second dose of COVID-19 vaccination over time in comparison to general Toronto and Ontario population. Results from Our Health Counts Toronto data linkage to ICES COVID-19 data.



# 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.

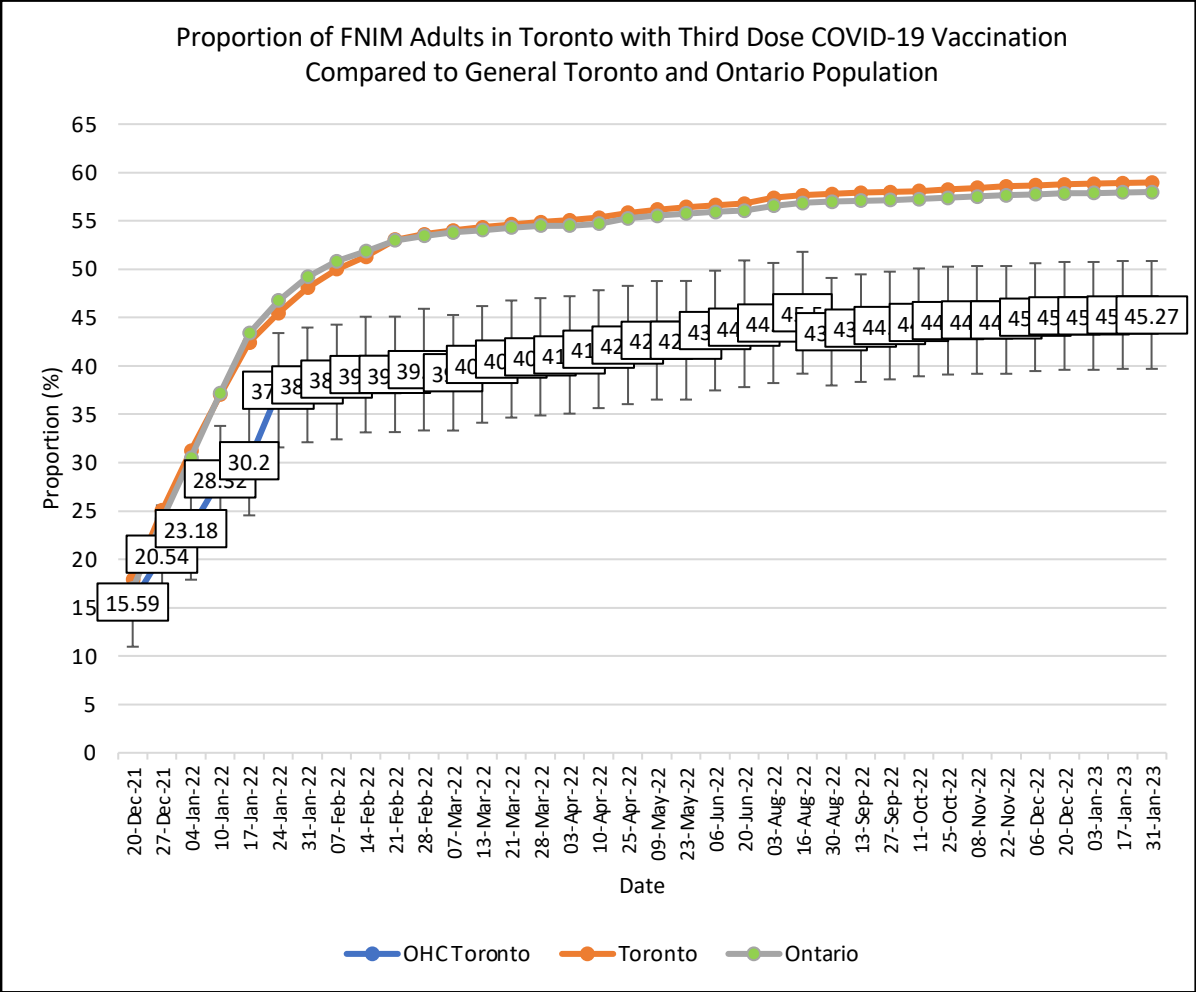
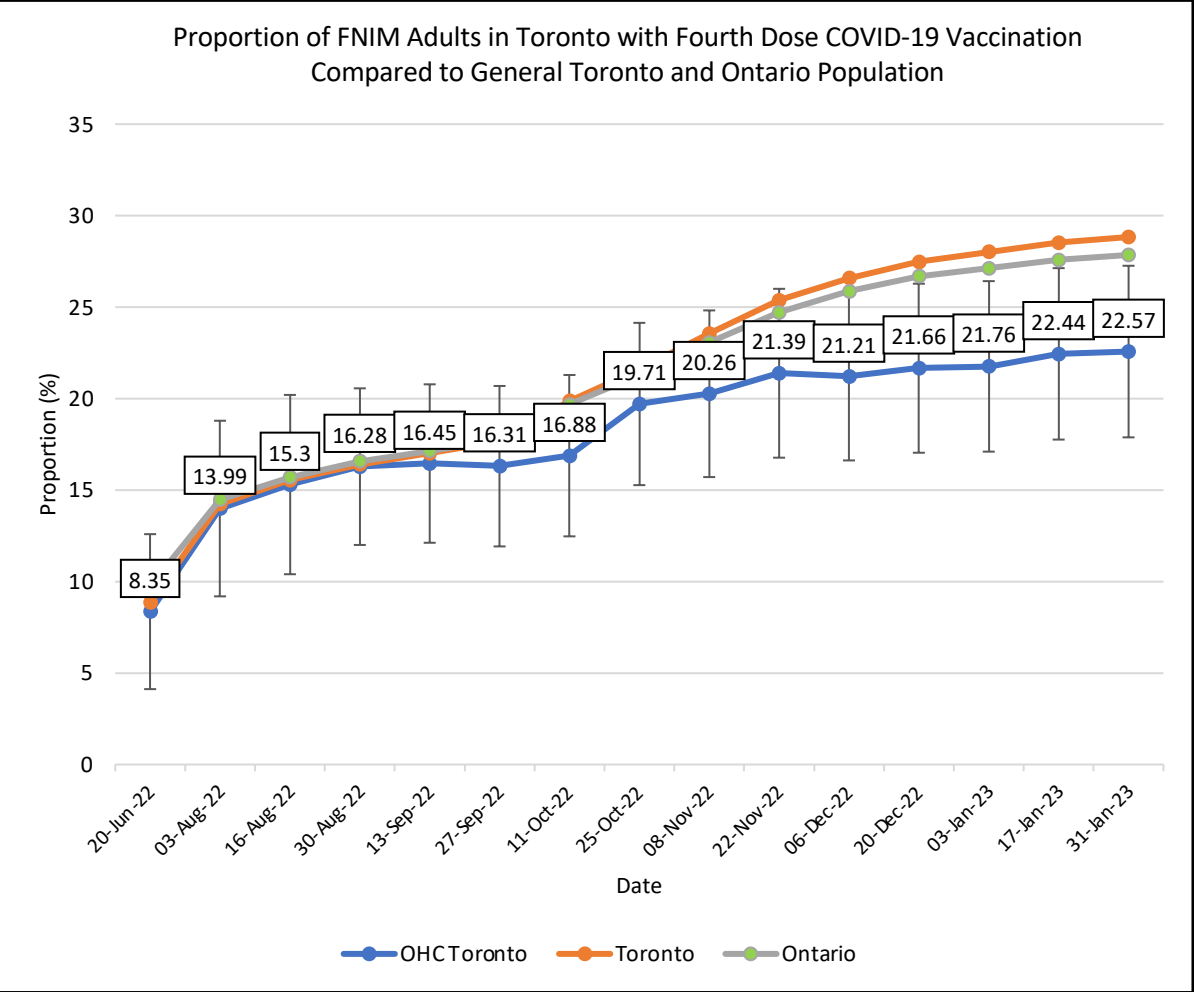


Figure 4: Proportion of Indigenous adults who have received fourth dose of COVID-19 vaccination over time in comparison to general Toronto and Ontario population. Results from Our Health Counts Toronto data linkage to ICES COVID-19 data.



# 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

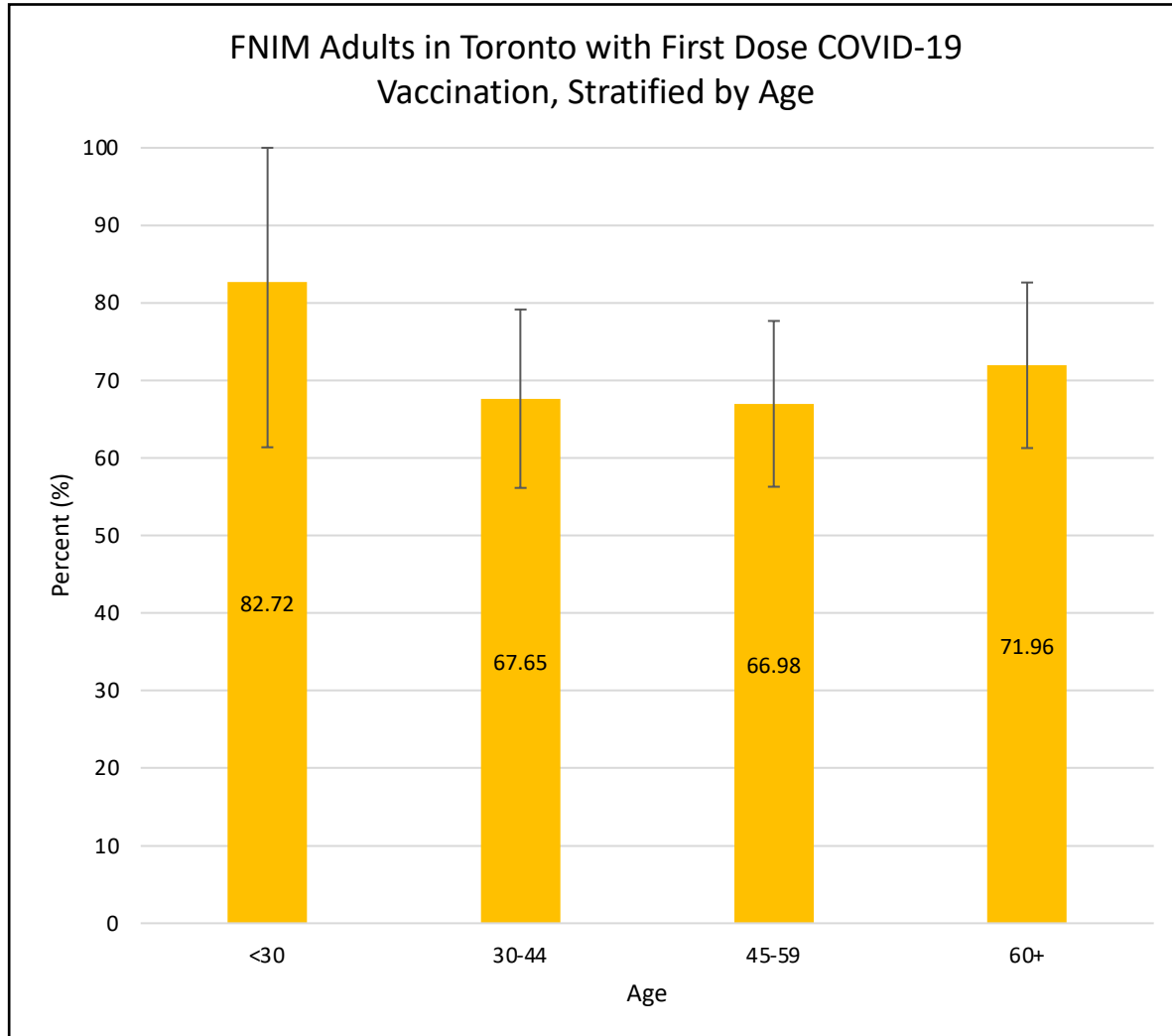
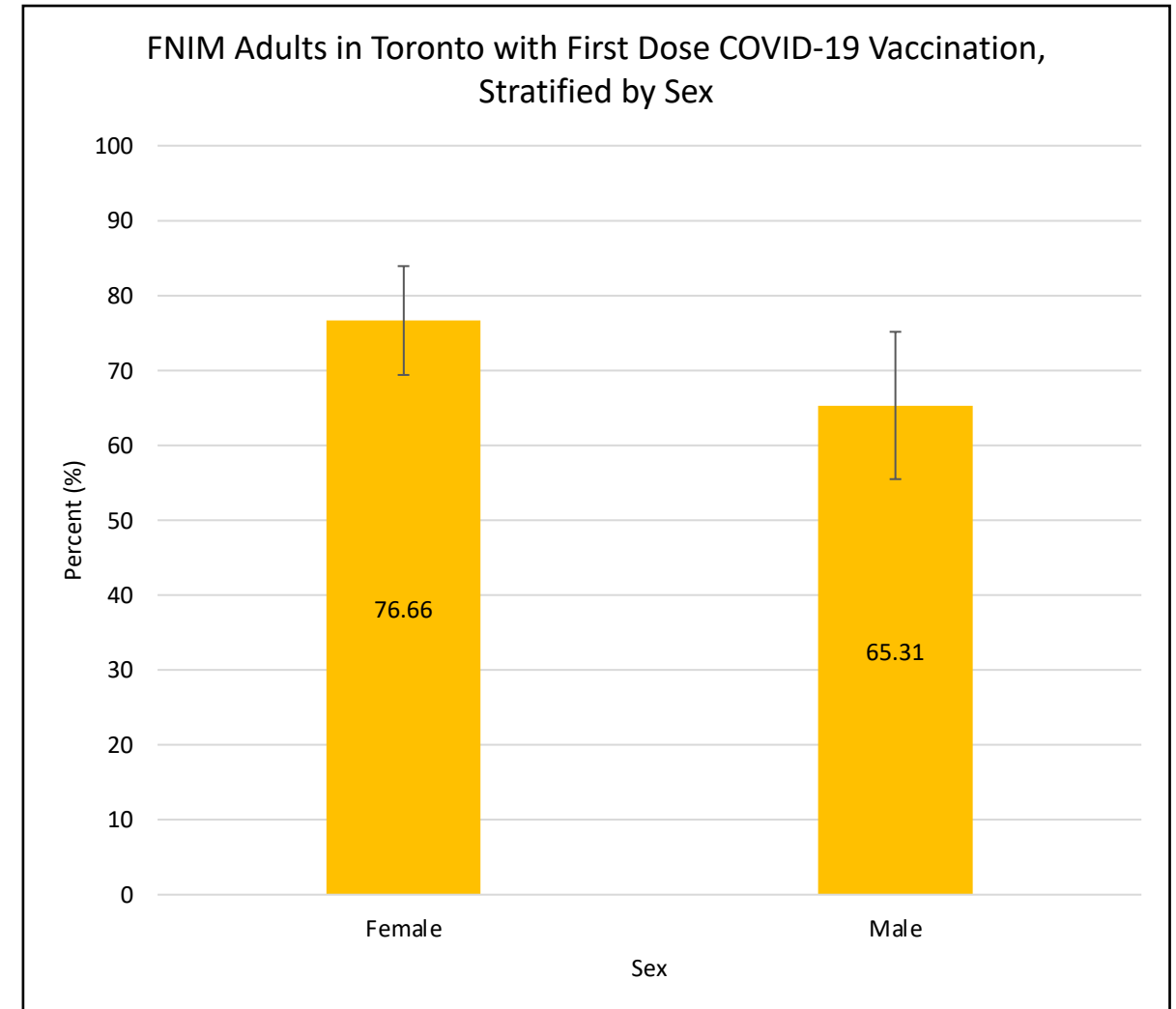


Figure 5: HCG Adjusted Proportion of Indigenous adults who have received first dose of COVID-19, stratified by sex



# 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

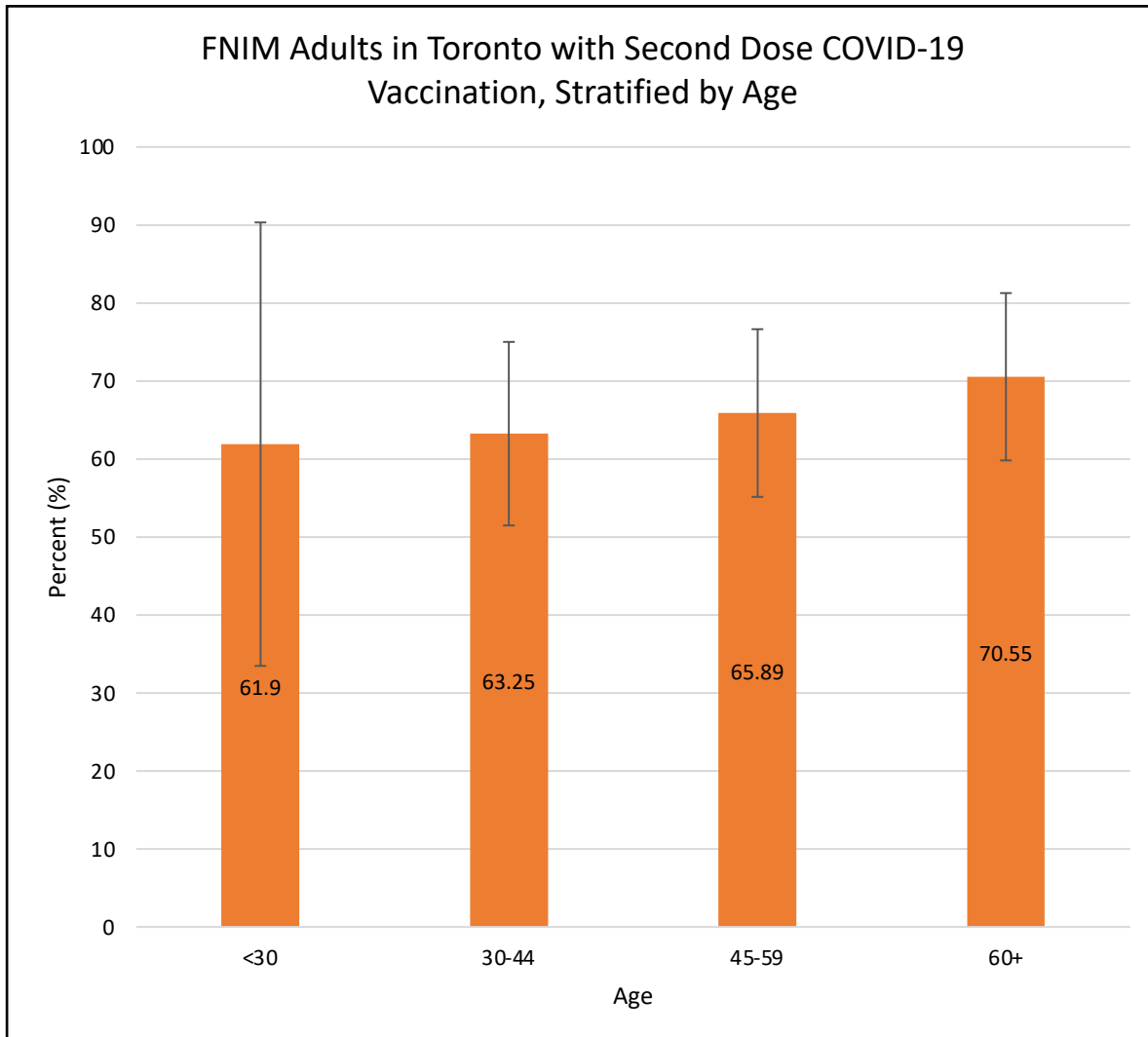
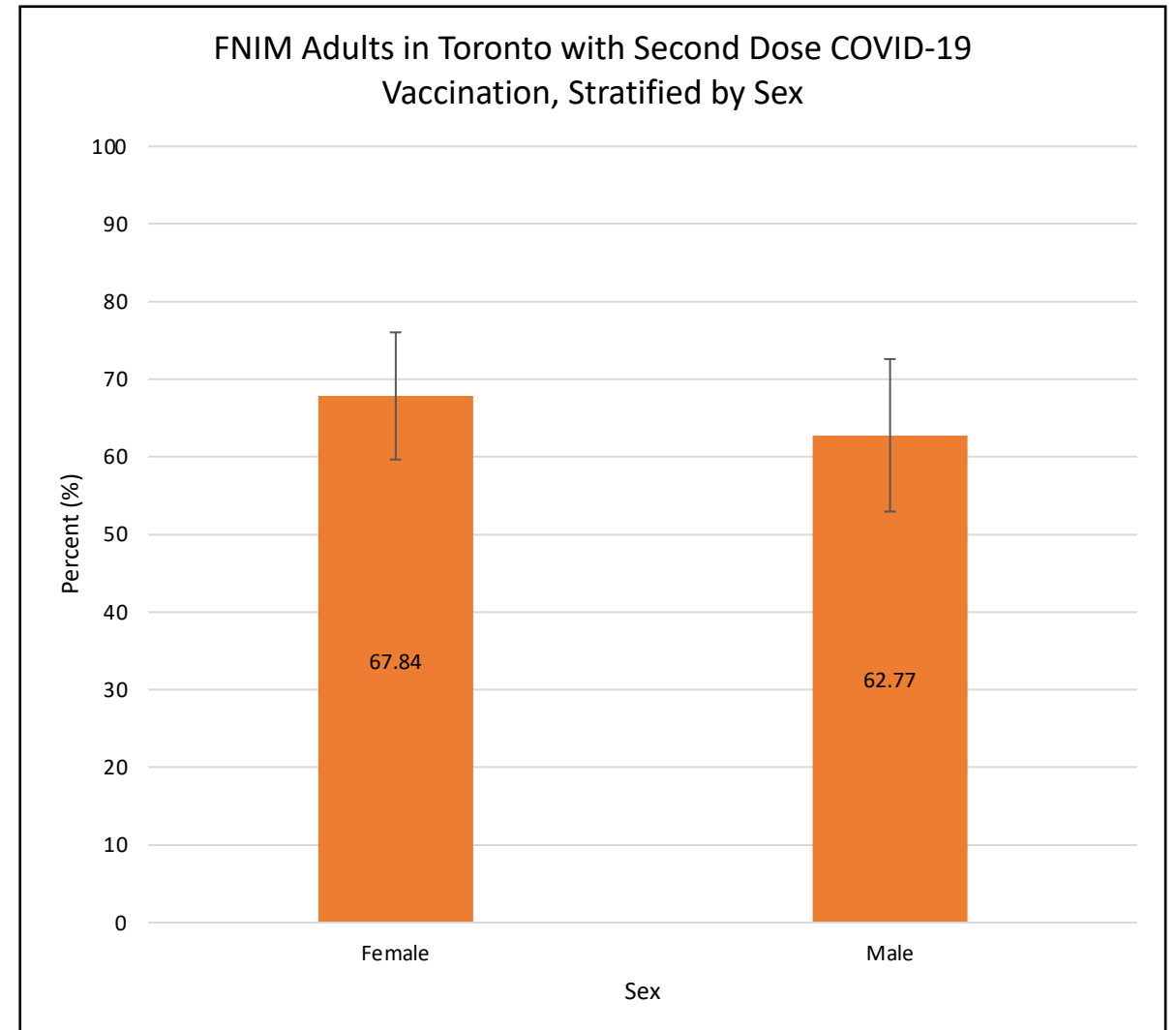


Figure 7: HCG Adjusted Proportion of Indigenous adults who have received second dose of COVID-19, stratified by sex



# 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

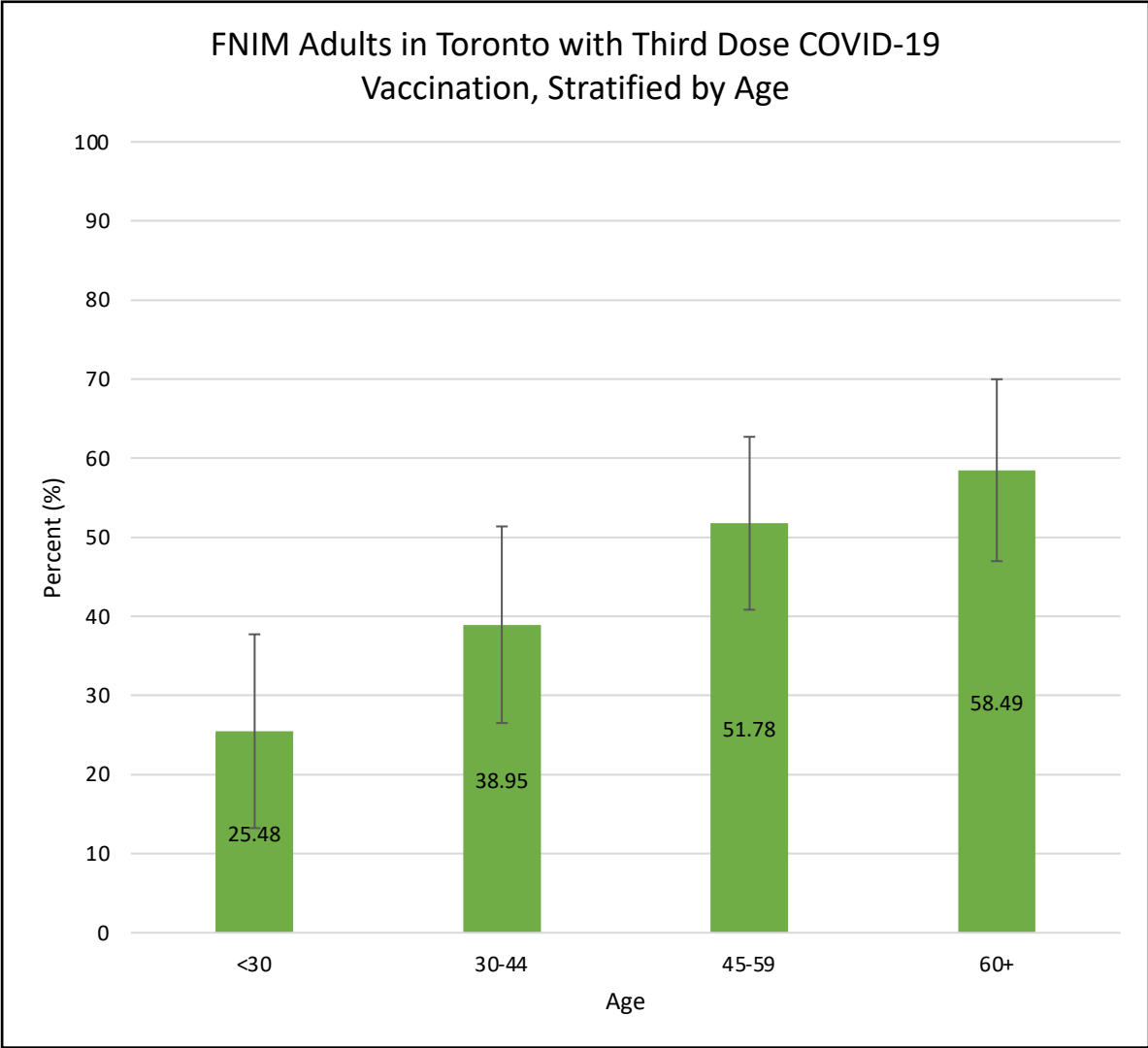
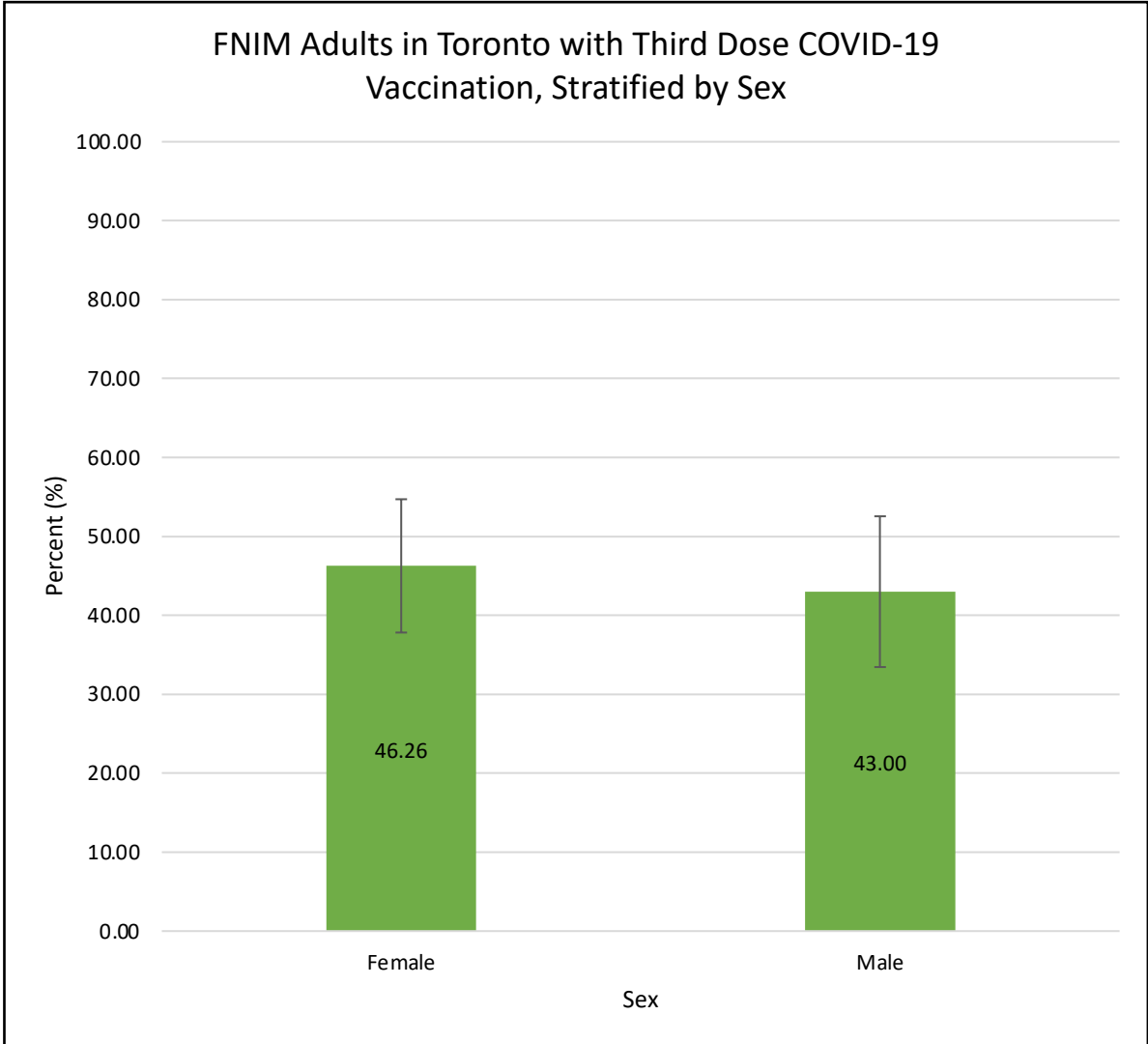


Figure 9: HCG Adjusted Proportion of Indigenous adults who have received third dose of COVID-19, stratified by sex



# 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

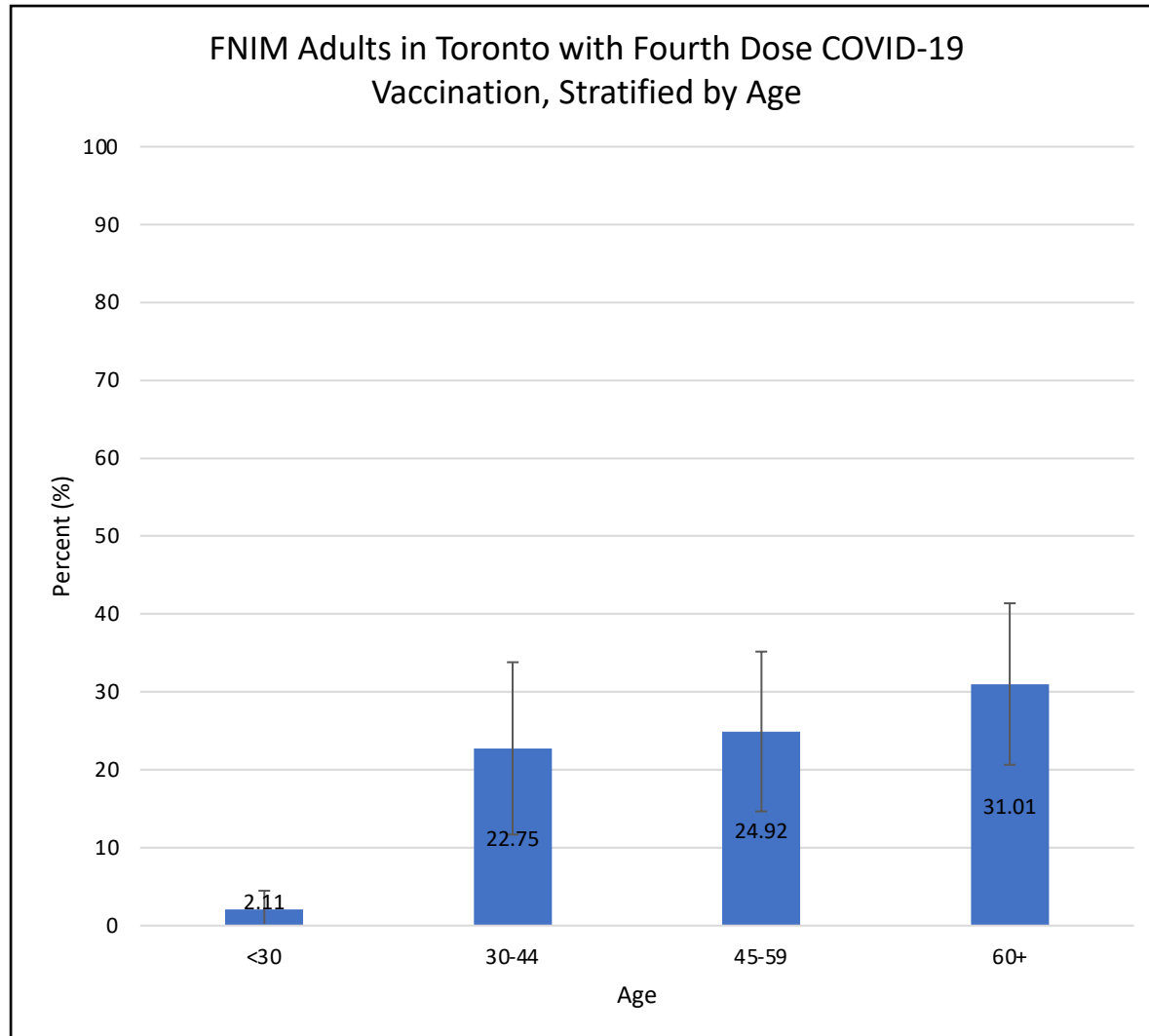
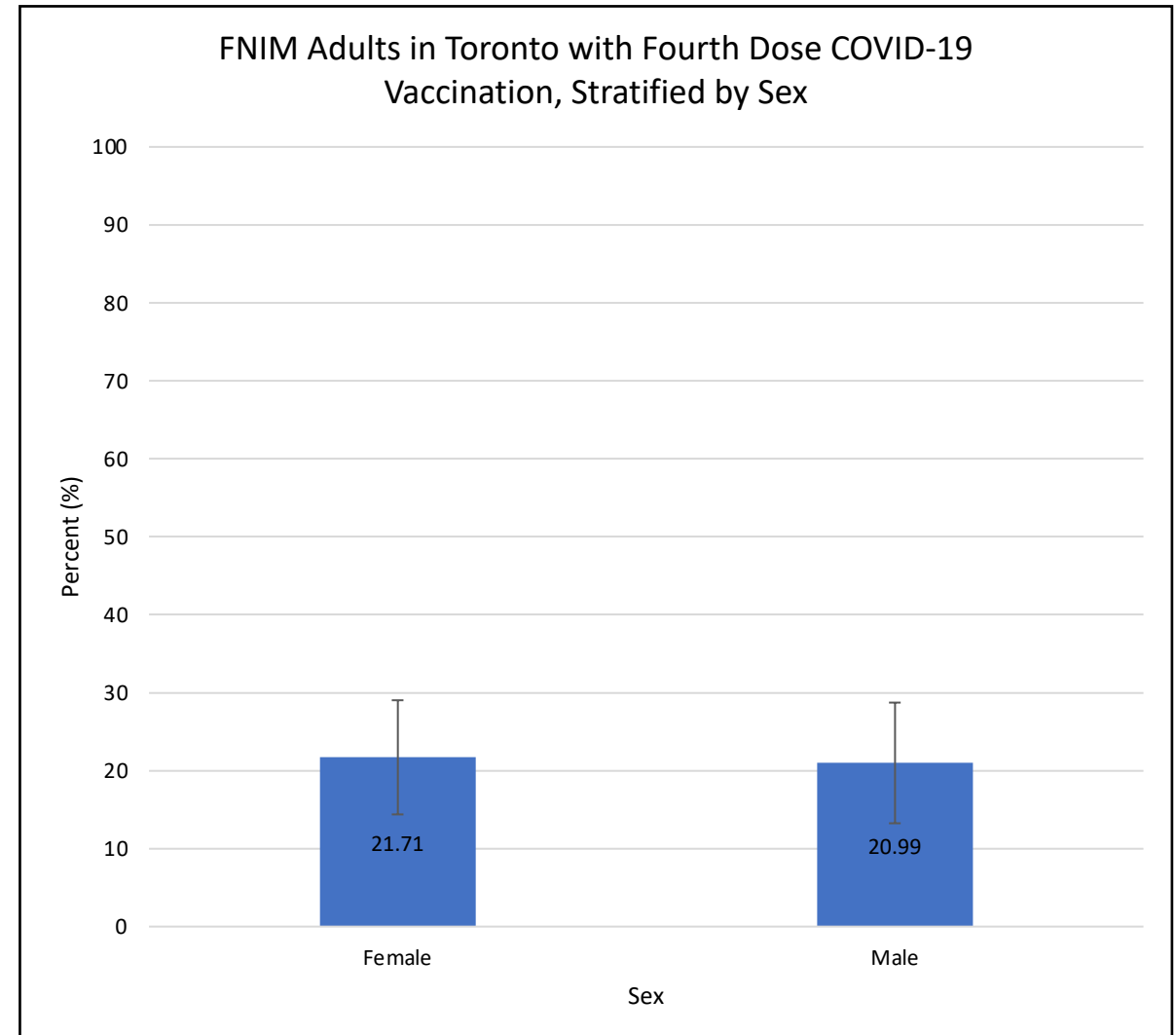


Figure 11: HCG Adjusted Proportion of Indigenous adults who have received fourth dose of COVID-19, stratified by sex





# 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	
<b>Total</b>			<b>98,199</b>	<b>43,995</b>

# 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	45.27 [39.70, 50.85]	71,097	32,186	
<b>Total</b>			<b>130,385</b>	<b>82,906</b>

# 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	45.27 [39.70, 50.85]	71,097	32,186	
Fourth Dose	22.57 [17.88, 27.26]	71,097	16,047	
<b>Total</b>			<b>146,431</b>	<b>137,957</b>

# 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 January 31, 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.

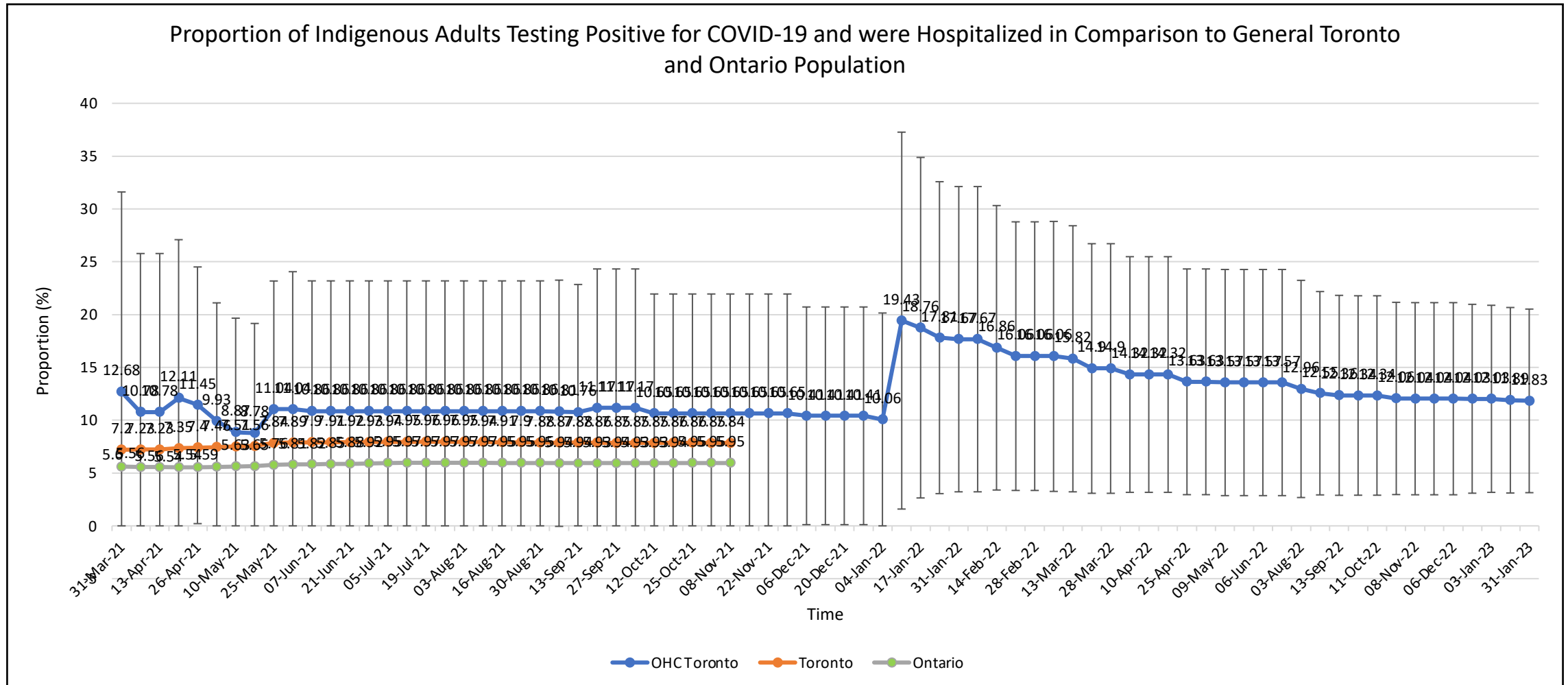
	FNIM Population in Toronto*		City of Toronto Population		Ontario Population	
	n	RDS-II Adjusted Proportion % [95% Confidence Interval]	n	Proportion %	n	Proportion %
Hospitalizations	12	11.83 [3.14, 20.52]	14,139	5.06	55,576	4.36
Total COVID-19 positive cases	<b>120</b>		<b>279,694</b>		<b>1,275,495</b>	

\*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

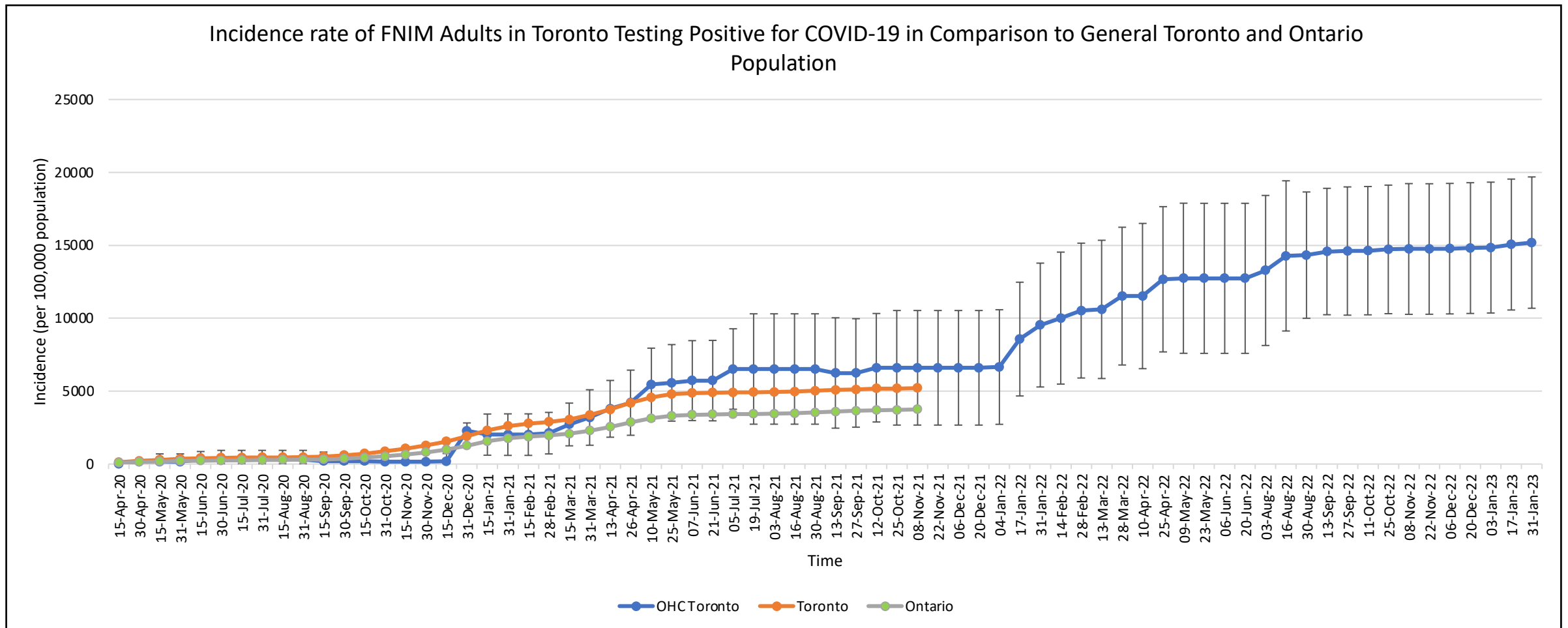
Table 9: Incidence rate of Indigenous adults testing positive for COVID-19 in comparison to general Toronto and Ontario population from January 2020 to January 31, 2023. Results from Our Health Counts Toronto data linkage to ICES COVID-19 data holdings.

	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]	279,694	11,959	1,275,495	10,467
Total	689		2,338,855		12,186,094	

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

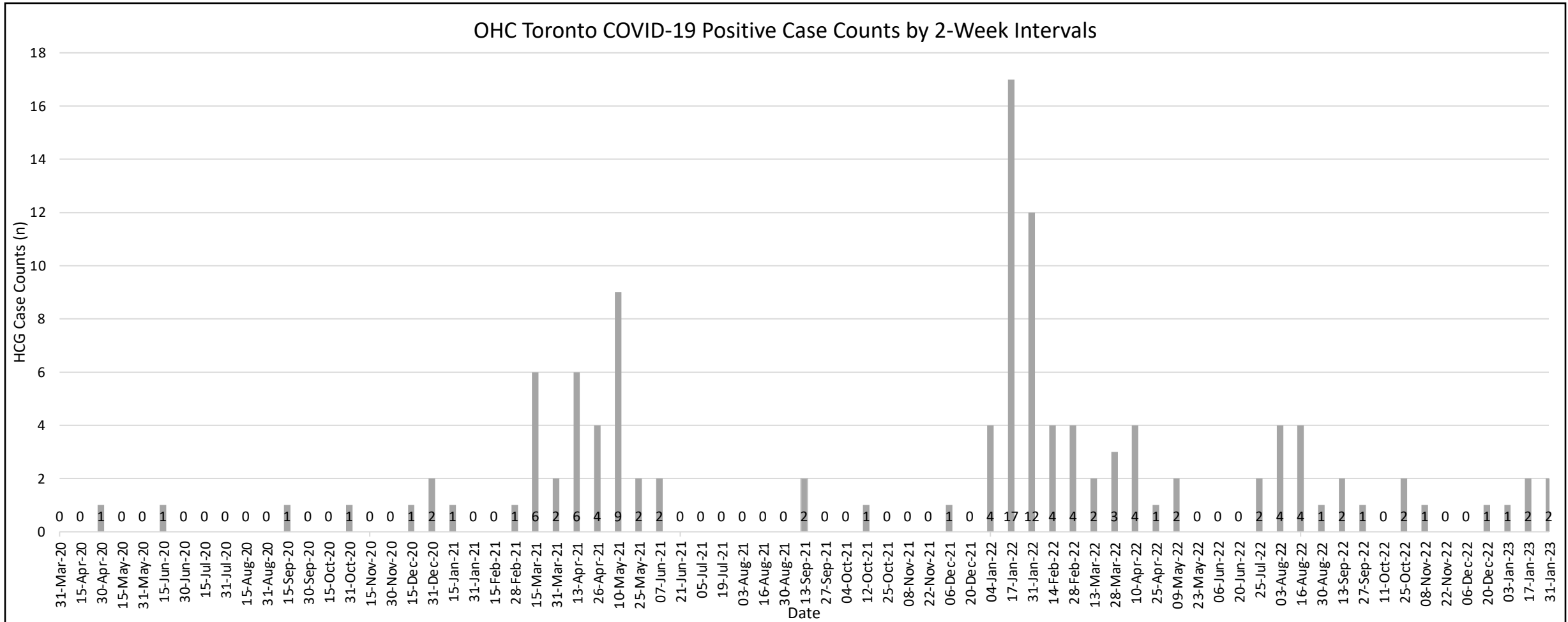
# INCIDENCE OF COVID-19 POSITIVE CASES

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 January 17, 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	481	62.55 [57.22, 67.88]	1,223,679	52.31	6,276,752	51.50
Not Tested	208	37.45 [32.12, 42.78]	1,115,657	47.69	5,911,072	48.50
Total	689		2,339,336		12,187,824	

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





