

# 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: Oct 25, 2022

Principal Investigator: Dr. Janet Smylie

Community Leads: Seventh Generation Midwives Toronto

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Well Living House

Table 1: Proportion of Indigenous adults who have received first, second and third doses of COVID-19 vaccination as of October 25, 2022 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 Tor	City of Toronto Population		io Population
	n	HCG-Adjusted Proportion % [95% Confidence Interval]	n	Proportion %	n	Proportion %
First Dose	509	71.80 [66.91, 76.70]	1,989,785	84.96	10,481,368	85.93
Second Dose	476	64.94 [59.78, 70.11]	1,954,864	83.47	10,296,394	84.42
Third Dose	315	44.69 [39.11, 50.26]	1,364,048	58.24	6,999,146	57.38
Fourth Dose	135	19.71 [15.27, 24.14]	505,753	21.60	2,595,943	21.28
Total	689		2,341,934		12,196,939	

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

Figure 1: Proportion of Indigenous adults who have received <u>first</u> <u>dose</u> 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.

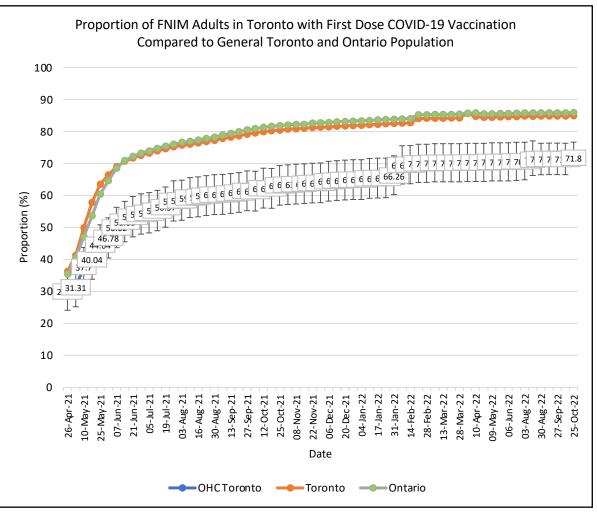


Figure 2: Proportion of Indigenous adults who have received <u>second</u> <u>dose</u> of COVID-19 vaccination over time in comparison to general Toronto and Ontario population. Results from Our Health Counts Toronto data linkage to ICES COVID-19 data.

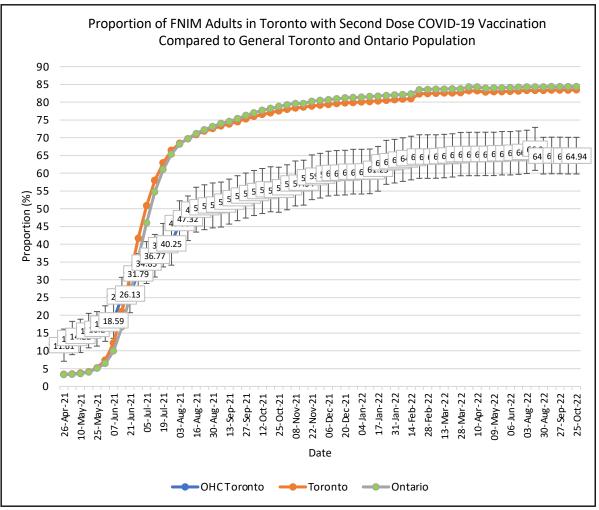


Figure 3: Proportion of Indigenous adults who have received <u>third</u> <u>dose</u> of COVID-19 vaccination over time in comparison to general Toronto and Ontario population. Results from Our Health Counts Toronto data linkage to ICES COVID-19 data.

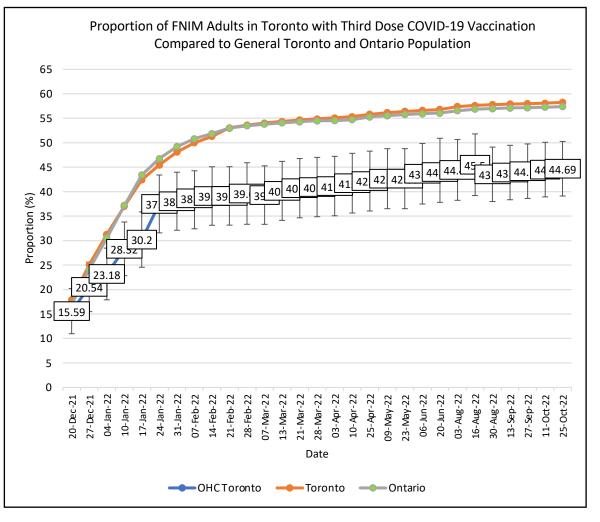
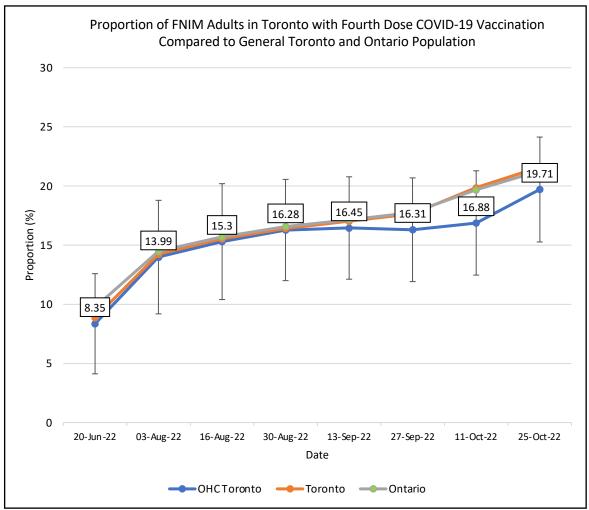


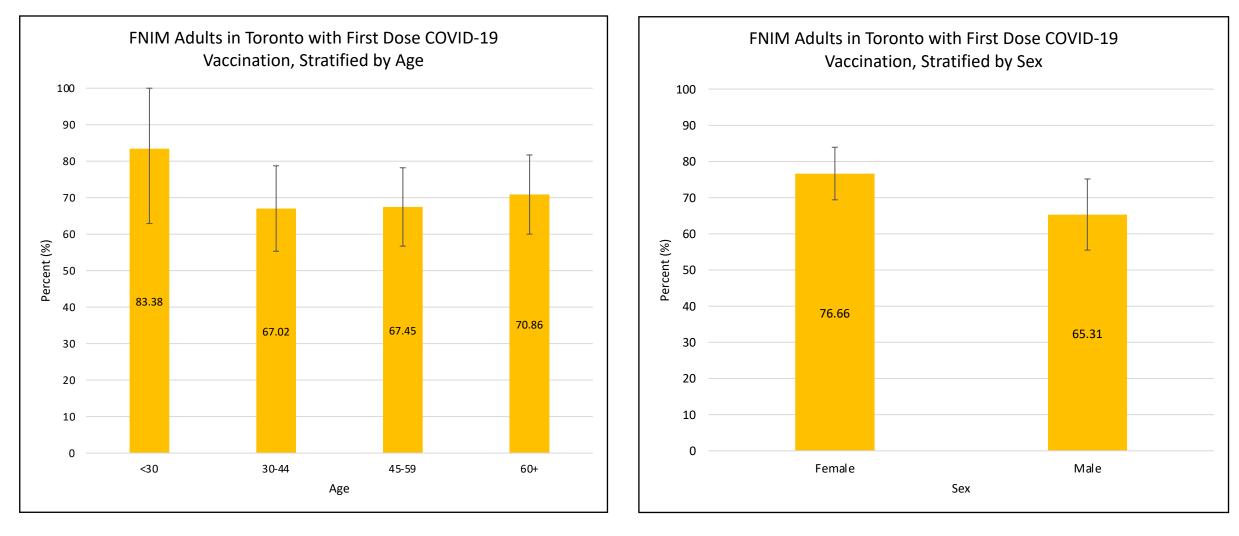
Figure 4: Proportion of Indigenous adults who have received <u>fourth</u> <u>dose</u> of COVID-19 vaccination over time in comparison to general Toronto and Ontario population. Results from Our Health Counts Toronto data linkage to ICES COVID-19 data.



# **FIRST DOSE COVID-19 VACCINATIONS**

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

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



# **SECOND DOSE COVID-19 VACCINATIONS**

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

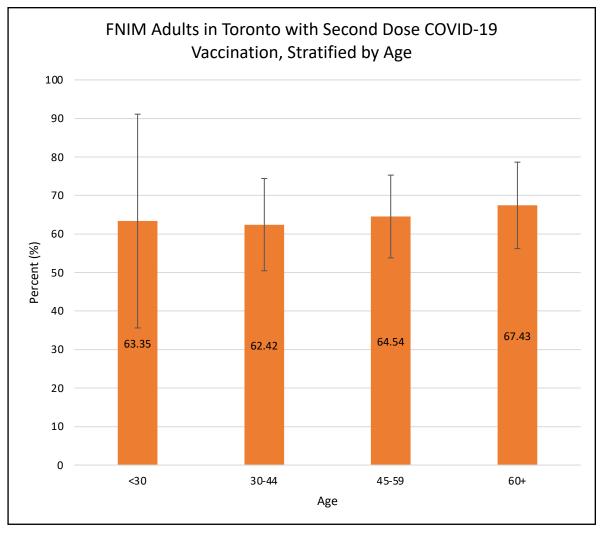
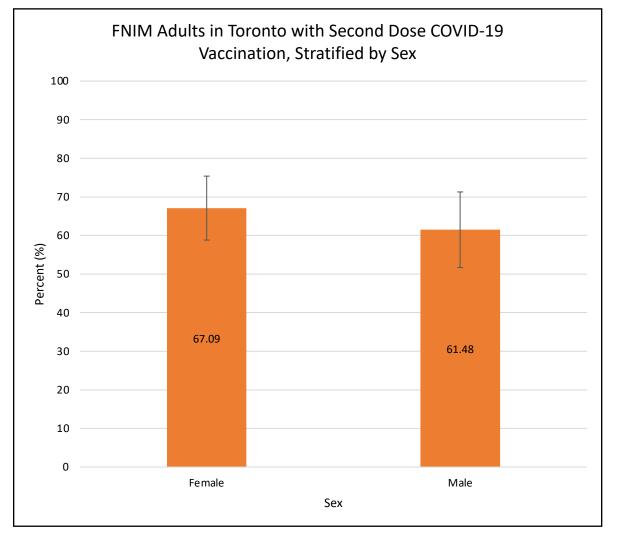


Figure 7: HCG Adjusted Proportion of Indigenous adults who have received <u>second dose</u> of COVID-19, stratified by sex



## **THIRD DOSE COVID-19 VACCINATIONS**

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

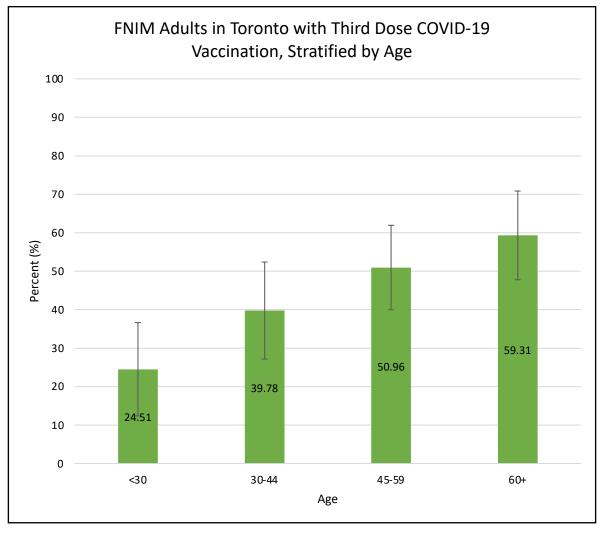
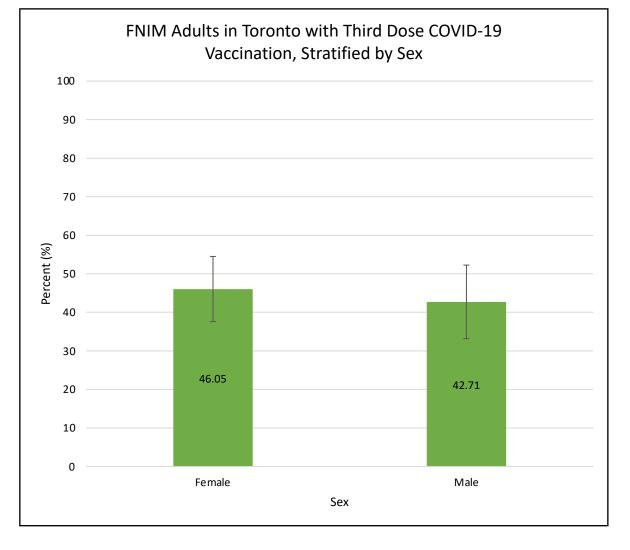


Figure 9: HCG Adjusted Proportion of Indigenous adults who have received <u>third dose</u> of COVID-19, stratified by sex



# **FOURTH DOSE COVID-19 VACCINATIONS**

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

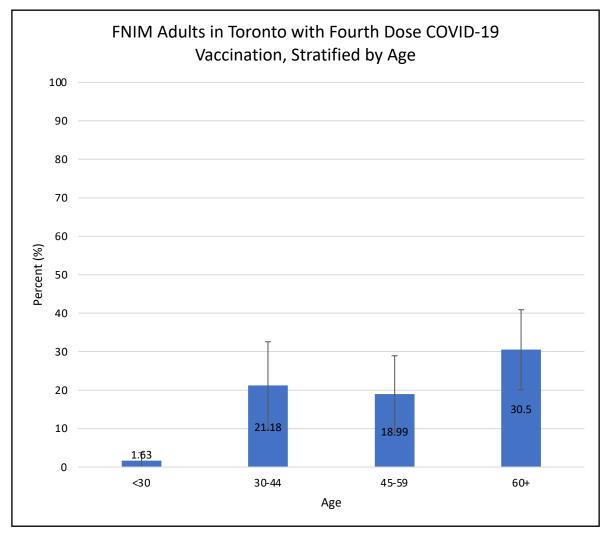


Figure 11: HCG Adjusted Proportion of Indigenous adults who have received <u>fourth dose</u> of COVID-19, stratified by sex

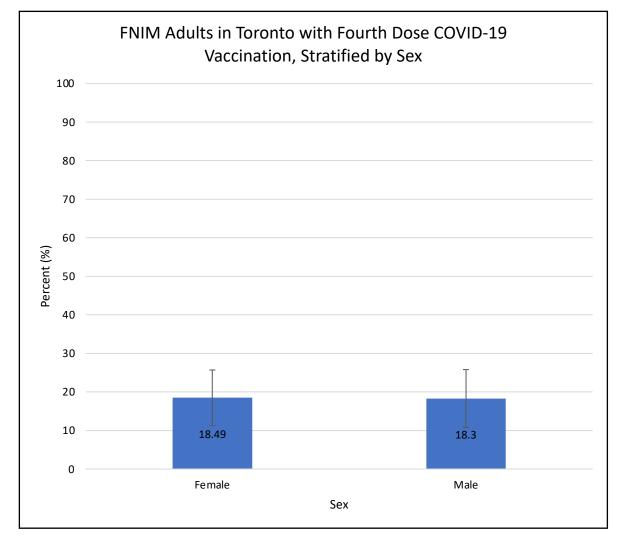


Table 2: Non-conservative 2021 Population Estimates for FNIM Adults in Toronto and Estimated Required Number of Vaccine Events to Fully Vaccinate (2 Doses) FNIM Adults in Toronto

Non-conservative population estimates for FNIM adults (15+) in	Estimated required number of vaccine events
Toronto in 2021	(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	71.80 [66.91, 76.70]	71,097	51,048		
Second Dose	64.94 [59.78, 70.11]	71,097	46,170		
Total			97,218	44,976	

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	Estimated required number of vaccine events
Toronto in 2021	(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	71.80 [66.91, 76.70]	71,097	51,048	
Second Dose	64.94 [59.78, 70.11]	71,097	46,170	
Third Dose	44.69 [39.11, 50.26]	71,097	31,773	
Total			128,991	84,300

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	Estimated required number of vaccine events
Toronto in 2021	(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	71.80 [66.91, 76.70]	71,097	51,048	
Second Dose	64.94 [59.78, 70.11]	71,097	46,170	
Third Dose	44.69 [39.11, 50.26]	71,097	31,773	
Fourth Dose	19.71 [15.27, 24.14]	71,097	14,013	
Total			143,005	141,383

# **COVID-19 HOSPITALIZATIONS**

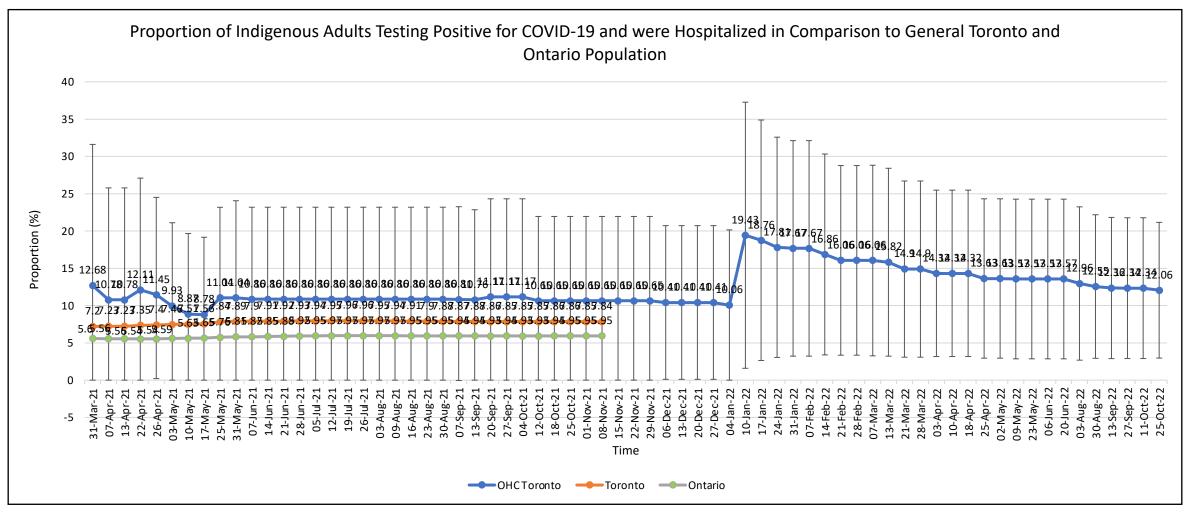
Table 8: Proportion of Indigenous adults testing positive for COVID-19 and were hospitalized in comparison to general Toronto and Ontario population from January 2020 to October 25, 2022. Total sample n= 687, representing n=71,096 FNIM in Toronto\*\*. Results from Our Health Counts Toronto data linkage to ICES COVID-19 data holdings.

	FNIM Population in Toronto*		City of T	City of Toronto Population		Ontario Population	
	n	RDS-II Adjusted Proportion % [95% Confidence Interval]	n	Proportion %	n	Proportion %	
Hospitalizations	12	12.06 [2.96, 21.16]	13,465	5.04	50,237	4.16	
Total COVID-19 positive cases	113		267,353		1,207,856		

\*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**

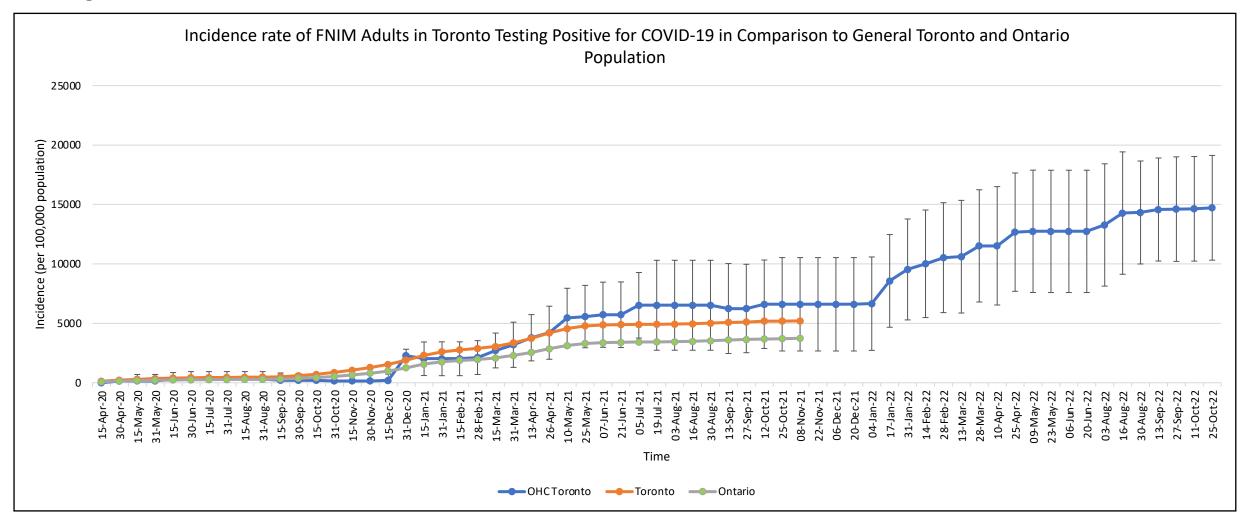
Table 9: Incidence rate of Indigenous adults testing positive for COVID-19 in comparison to general Toronto and Ontario population from January 2020 to October 25, 2022. Results from Our Health Counts Toronto data linkage to ICES COVID-19 data holdings.

	FNIM Population in Toronto*		City of Tor	onto 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	113	14,719 [10,237, 19,202]	267,353	11,416	1,207,856	9,903
Total	689		2,341,934		12,196,939	

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

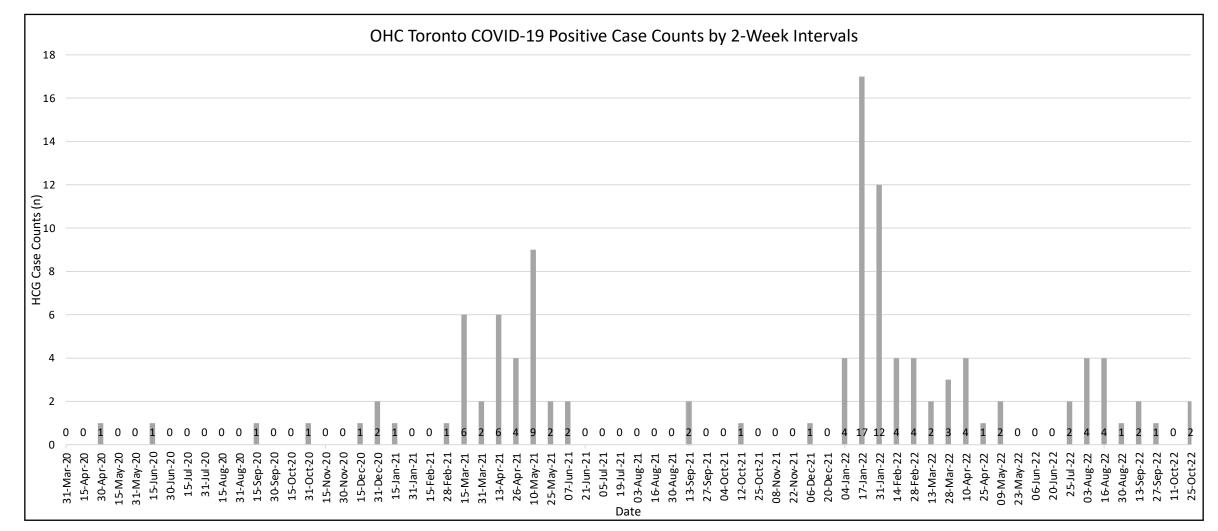
# **INCIDENCE OF COVID-19 POSITIVE CASES**

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 October 11, 2022. Results from Our Health Counts Toronto data linkage to ICES COVID-19 data holdings.

	FNIM Population in Toronto*		City of To	ronto Population	Onta	rio Population
	n	HCG-Adjusted Period Prevalence % [95% Confidence Interval]	n	Crude Period Prevalence %	n	Crude Period Prevalence %
Tested	474	60.78 [55.42 <i>,</i> 66.14]	1,210,026	51.63	6,202,150	50.82
Not Tested	215	39.22 [33.86, 44.58]	1,133,697	48.37	6,001,329	49.18
Total	689		2,343,723		12,203,479	

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

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