

# 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: May 23, 2022

Principal Investigator: Dr. Janet Smylie

Community Leads: Seventh Generation Midwives Toronto

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





Well Living House

Table 1: Proportion of Indigenous adults who have received first, second and third doses of COVID-19 vaccination as of May 23, 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	onto Population	Ontario Population							
	n	HCG-Adjusted Proportion % [95% Confidence Interval]	n	Proportion %	n	Proportion %						
First Dose	504	70.53 [64.57, 76.49]	1,993,600	84.56	10,516,530	85.64						
Second Dose	472	65.62 [59.51, 71.72]	1,956,400	82.98	10,321,123	84.05						
Third Dose	291	42.66 [36.52 <i>,</i> 48.79]	1,330,035	56.41	6,846,085	55.75						
Total	687		2,357,596		12,280,262							

\*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.

Proportion of FNIM Adults in Toronto with First Dose COVID-19 Vaccination Compared to General Toronto and Ontario Population 100 90 80 70 Proportion (%) 60 50 40 1// 31.31 30 2 20 10 0 26-Apr-21 25-May-21 10-Apr-22 09-May-22 16-Aug-21 17-Jan-22 28-Feb-22 07-Jun-21 30-Aug-21 -0-May-21 21-Jun-21 05-Jul-21 19-Jul-21 08-Nov-21 22-Nov-21 04-Jan-22 31-Jan-22 14-Feb-22 l3-Mar-22 8-Mar-22 03-Aug-21 13-Sep-21 25-Oct-21 27-Sep-2: 12-0ct-21 06-Dec-2: 20-Dec-21 Date ---OHC Toronto ---Ontario

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.

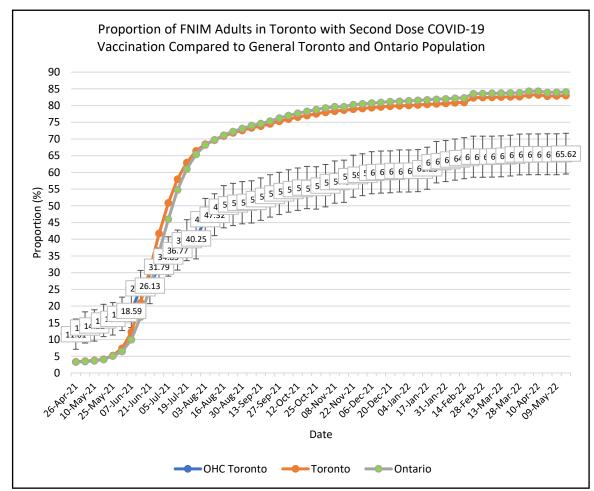
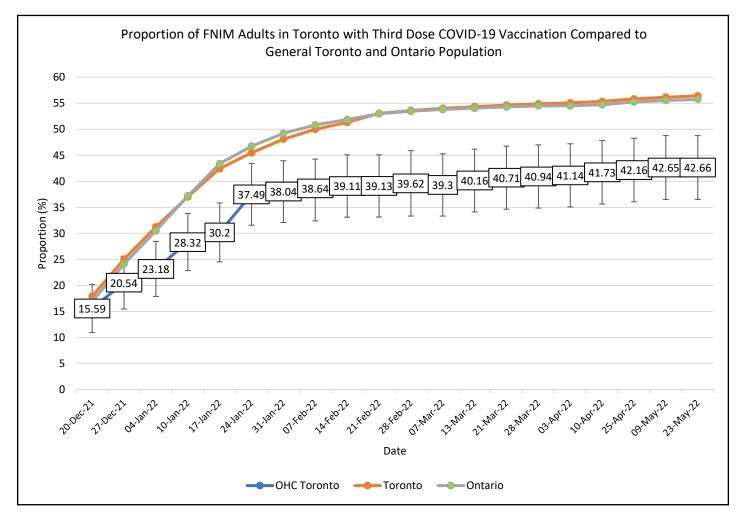


Figure 3: Proportion of Indigenous adults who have received <u>third dose</u> of COVID-19 vaccination over time in comparison to general Toronto and Ontario population. Results from Our Health Counts Toronto data linkage to ICES COVID-19 data.



# **FIRST DOSE COVID-19 VACCINATIONS**

Figure 3:RDS-II Adjusted Proportion of Indigenous adults who have received <u>first dose</u> of COVID-19, stratified by age

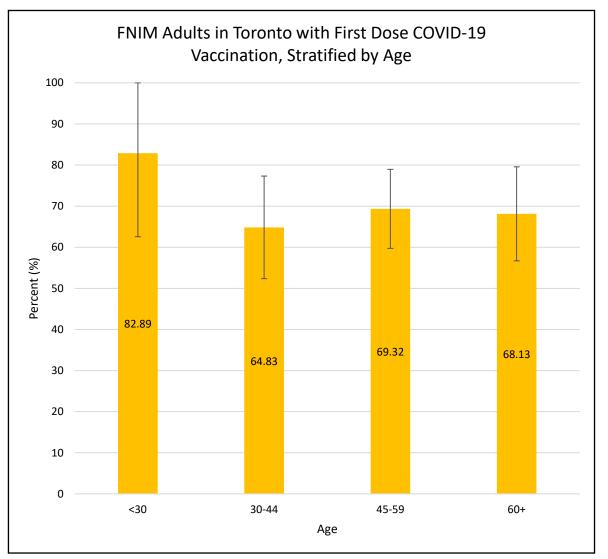
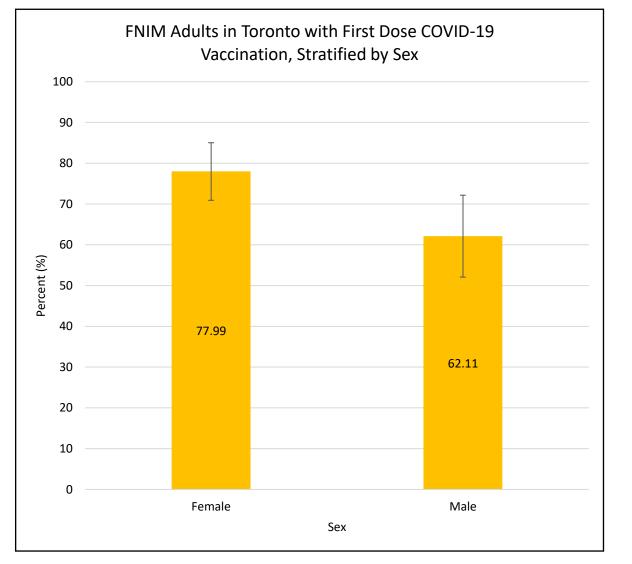


Figure 4: HCG Adjusted Proportion of Indigenous adults who have received <u>first dose</u> of COVID-19, stratified by sex



# **SECOND DOSE COVID-19 VACCINATIONS**

Figure 5: RDS-II Adjusted Proportion of Indigenous adults who have received <u>second dose</u> of COVID-19, stratified by age

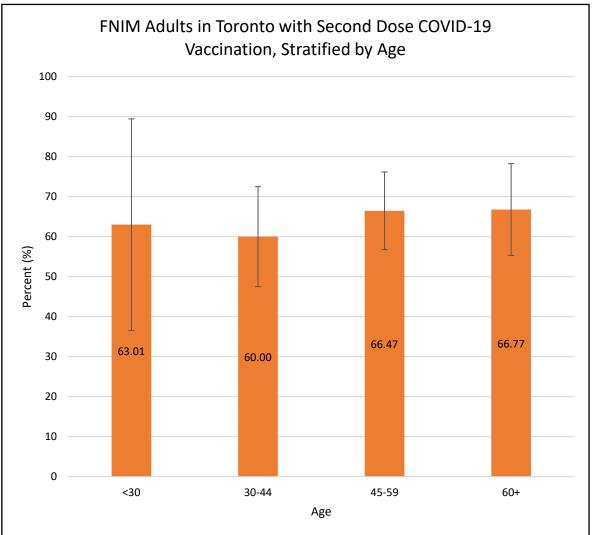
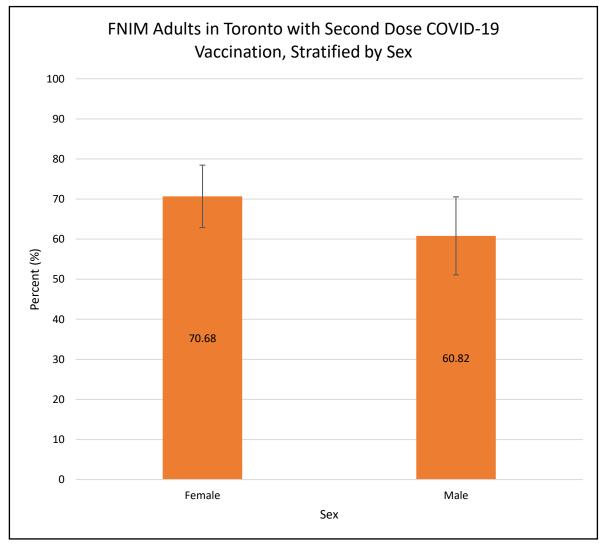


Figure 6: HCG Adjusted Proportion of Indigenous adults who have received <u>second dose</u> of COVID-19, stratified by sex



# **THIRD DOSE COVID-19 VACCINATIONS**

Figure 7: RDS-II Adjusted Proportion of Indigenous adults who have received <u>third dose</u> of COVID-19, stratified by age

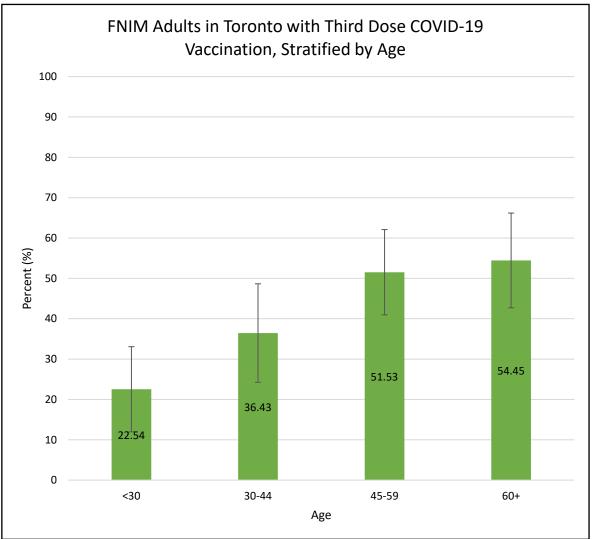


Figure 8: HCG Adjusted Proportion of Indigenous adults who have received <u>third dose</u> of COVID-19, stratified by sex

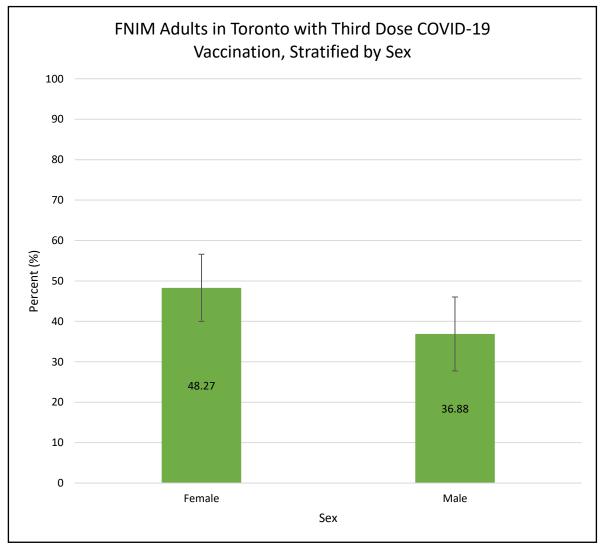


Table 2: Non-conservative 2021 Population Estimates for FNIM Adults in Toronto and Estimated Required Number of Vaccine Events to Fully Vaccination FNIM Adults in Toronto

Non-conservative population estimates for FNIM adults (15+) in	Estimated required number of vaccine events
Toronto in 2021	(FNIM population x 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 3: 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	70.53 [64.57, 76.49]	71,097	50,145	
Second Dose	65.62 [59.51, 71.72]	71,097	46,654	
Third Dose	42.66 [36.52, 48.79]	71,097	30,330	
Total			127,129	86,162

# **COVID-19 HOSPITALIZATIONS**

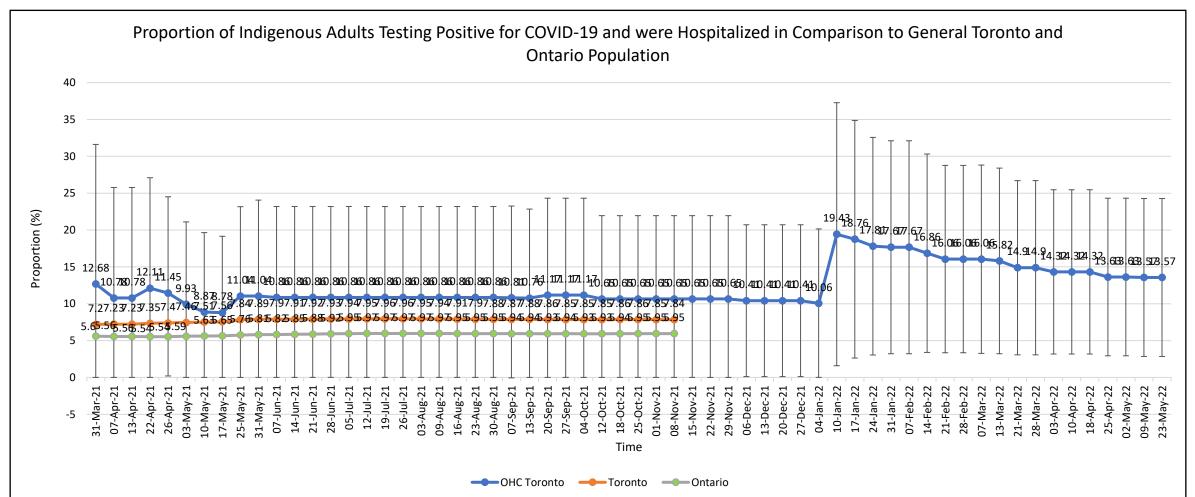
Table 4: Proportion of Indigenous adults testing positive for COVID-19 and were hospitalized in comparison to general Toronto and Ontario population from January 2020 to May 23, 2022. Total sample n= 687, representing n=71,096 FNIM in Toronto\*\*. Results from Our Health Counts Toronto data linkage to ICES COVID-19 data holdings.

	FNIM	Population in Toronto*	City of T	oronto Population	Ontario Population							
	n	RDS-II Adjusted Proportion % [95% Confidence Interval]	n	Proportion %	n	Proportion %						
Hospitalizations	-	13.57 [2.86, 24.27]	12,308	5.15	42,262	4.00						
Total COVID-19 positive cases	97		239,067		1,056,676							

\*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 9: 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**

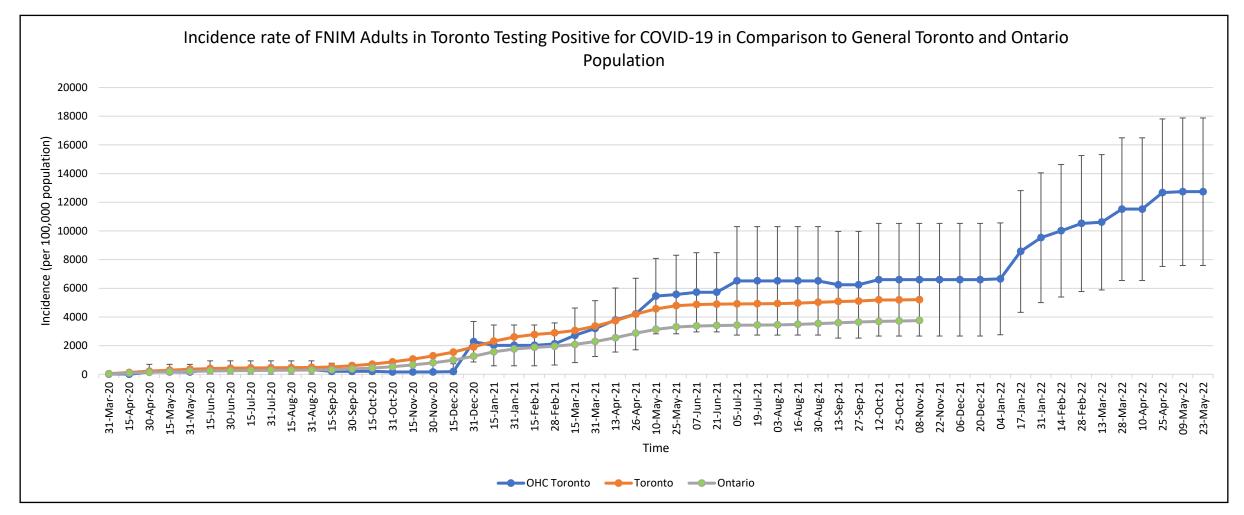
Table 5: Incidence rate of Indigenous adults testing positive for COVID-19 in comparison to general Toronto and Ontario population from January 2020 to May 23, 2022. Results from Our Health Counts Toronto data linkage to ICES COVID-19 data holdings.

	FNI	<b>M Population in Toronto</b> *	City of Tor	onto Population	Ontario Population							
	n	HCG-Adjusted Incidence Incidence per 100,000 FNIM population [95% Confidence Interval]	n	<b>Crude Incidence</b> Incidence per 100,000 population	n	Crude Incidence Incidence per 100,000 population						
Positive COVID-19 test	97	12,740 [7,590, 17,880]	239,067	10,140.30	1,056,676	8,604.67						
Total	687		2,357,596		12,280,262							

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

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

Figure 11: 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 12: 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.

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#### **COVID-19 TESTING PREVALENCE**

Table 6: Prevalence of COVID-19 testing among FNIM adults in Toronto in comparison to general Toronto and Ontario population from January 2020 to May 23, 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 Period Prevalence % [95% Confidence Interval]	n	Crude Period Prevalence %	n	Crude Period Prevalence %						
Tested	459	57.99 [51.88, 64.09]	1,185,529	50.29	6,092,187	49.61						
Not Tested	228	42.01 [35.91, 48.12]	1,172,067	49.71	6,188,075	50.39						
Total	687		2,357,596		12,280,262							

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

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