

Emergency Room Usage among First Nations, Inuit & Métis Adults by Hospitals in Toronto: Results from OHC Toronto-ICES data linkage



Our Health Counts Toronto & Institute for Clinical and Evaluative Sciences (ICES) Data Linkage

- OHC Toronto is an Indigenous community-partnered project that is co-led by Well Living House and Seventh Generation Midwives Toronto, with the support of a local reference group.
- Using respondent-driven sampling, a total of **916** FNIM living in Toronto were recruited and participated in the OHC Toronto study.
- As part of the data collection process, participants were asked if they would like to consent to have their data anonymously linked to administrative health data at the Institute for Clinical and Evaluative Sciences (ICES), of which **97%** of OHC Toronto participants consented to have their data linked.
- The contents of this fact sheet were generated through linking the Our Health Counts Toronto population health data to ICES administrative health data, which has records of ER use, hospital use, and participation in preventative screening programs for all of Ontarians with a valid Ontario Health Insurance Plan (OHIP) number.
- Using the ICES health administrative database by itself, we are unable to identify who is FNIM in Toronto. Through the OHC and ICES data linkage, we can produce population health data about ER and hospital use among FNIM in Toronto and compare to general Toronto and Ontario population rates.

ER Usage by Hospitals in Toronto (Between 2016-2018)



FNIM have high rates of emergency room (ER) use across hospitals in Toronto. Almost all ERs across Toronto hospitals were accessed by FNIM more often than the general Toronto and Ontario population.

12.6x

There are high rates of ER use among FNIM at the Centre for Addiction and Mental Health (CAMH). Rates among FNIM are **12.6x** greater than the general Toronto population.

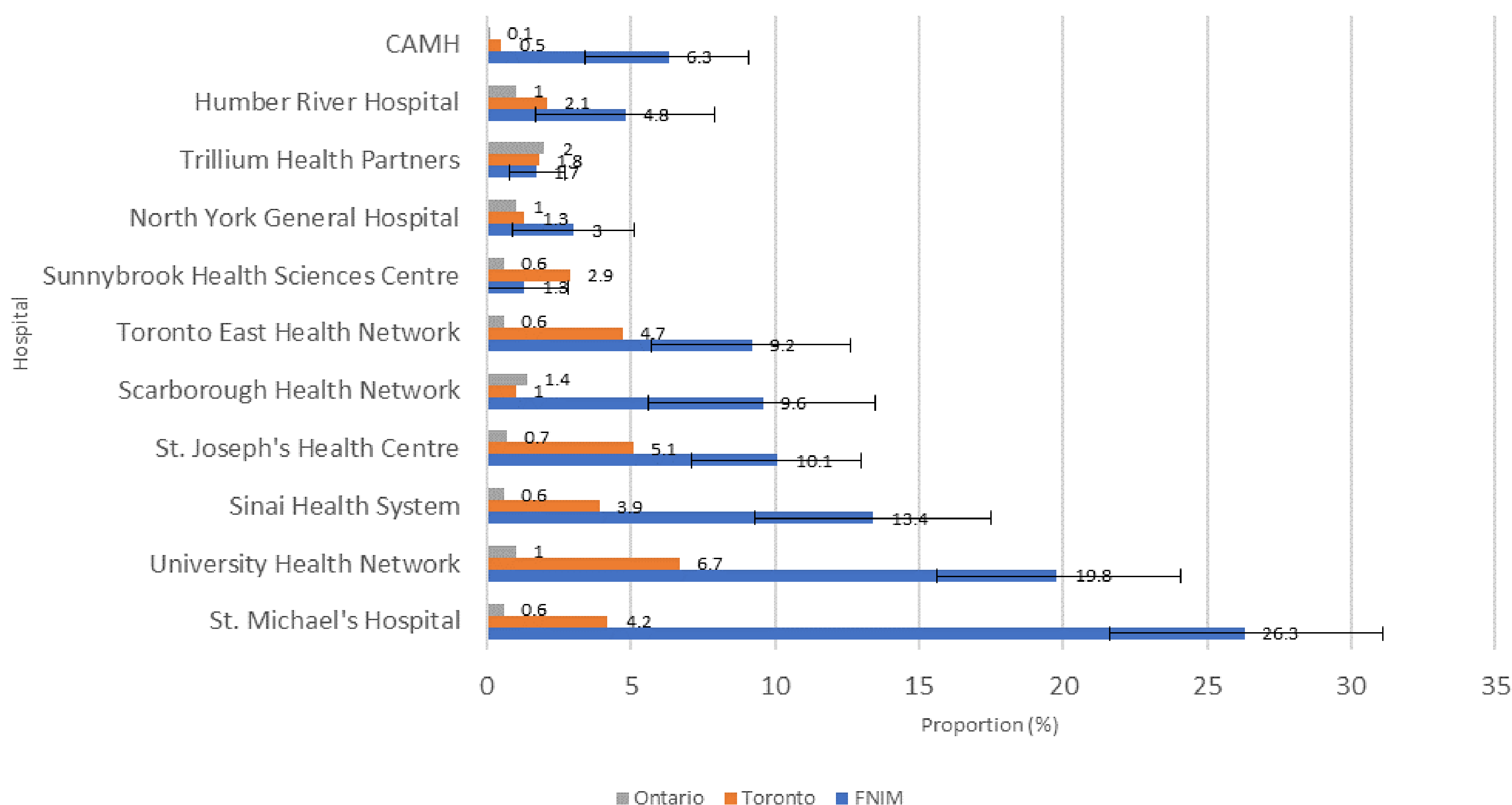


University Health Network, Sinai Health System, and St. Joseph's Health Centre also had high rates of ER use among FNIM in Toronto in comparison to the general city and provincial populations.

>20,000¹

St. Michael's Hospital has the highest Indigenous health service usage rate of any hospital in the Greater Toronto Area (GTA). Between 2016-2018, FNIM adults in Toronto visited the SMH ER **6.3x** more than the general Toronto population. FNIM adults in Toronto account for more than **20,000¹** ER visits at St. Michael's Hospital each year

Proportion of FNIM, general Toronto and Ontario populations that attended hospital ER at least one time between 2016-2018



FNIM have high rates of emergency room (ER) use across hospitals in Toronto. Almost all ERs across Toronto hospitals were accessed by FNIM more often than the general Toronto and Ontario population.

¹ This estimate was calculated using the lower bounds of the point estimates for 2-year proportion of FNIM who ever used the ER and the lower bounds of the point estimate of average number of ER visits among FNIM who ever used ER.

Appendix

Hospital	Proportion of FNIM who ever used ER* (2016-2018) RDS-II % (95% CI)	Average # of ER visits among FNIM** (2016-2018) Avg. (95% CI)	Annual # of ER visits among FNIM***
St Michael's Hospital	26.3 (21.6, 31.1)	5.3 (3.0, 7.7)	47,500
University Health Network	19.8 (15.6, 24.1)	3.2 (2.3, 4.1)	21,500
Sinai Health System	13.4 (9.3, 17.5)	2.8 (1.7, 3.8)	12,500
St. Joseph's Health Centre	10.1 (7.1, 13.0)	1.9 (1.2, 2.6)	6,500
Scarborough Health Network	9.6 (5.6, 13.5)	1.9 (1.4, 2.5)	6,200
Michael Garron Hospital (formerly Toronto East Health Network)	9.2 (5.7, 12.6)	2.6 (1.9, 3.4)	8,100
Sunnybrook Health Sciences Centre	1.3 (0.0, 2.8)	1.3 (0.9, 1.6)	500
North York General Hospital	3.0 (0.9, 5.1)	1.2 (0.9, 1.4)	1,100
Trillium Health Partners	1.7 (0.8, 2.7)	1.3 (0.8, 1.8)	700
Humber River Hospital	4.8 (1.7, 7.9)	1.8 (1.3, 2.3)	2,900
Centre for Addiction and Mental Health	6.3 (3.4, 9.1)	2.2 (0.8, 3.5)	4,600

*Proportion of FNIM adults (15+) in Toronto who have ever used the ER between 2016-2018

**Average number of ER visits among FNIM adults in Toronto who have ever used the ER

*** Annual number of ER visits were calculated using FNIM adult population size for Toronto of 67,711 in 2016 and the point estimates for 2-year proportion of FNIM who ever used the ER x point estimate of average number of ER visits among FNIM who ever used the ER / 2