

Table S1. CMC diagnosis codes and number of visits by health care encounter type.

Body system	Condition	Health care encounter			
		Emergency department visit or hospitalization		Physician visit	
		Codes	# Visits	Codes	# Visits
Endocrine, nutritional, and metabolic	Type 1 or type 2 diabetes, excluding gestational diabetes ¹⁸	ICD-9: 250; ICD-10: E10, E11, E13, E14	1	OHIP: 250	If <19 years, 4 visits; if ≥19 2 visits
	Thyroid disease ¹⁹	ICD-9: 242, 244; ICD-10: E00, E03, E05	1	OHIP: 242, 244	2
Circulatory	Hypertension, excluding gestational hypertension ²⁰	ICD-9: 401-405; ICD-10: I10-I13, I15	1	OHIP: 401-405	1 followed by an additional physician visit or hospitalization within 2 years
	Atrial fibrillation ²³	ICD-9: 427.3; ICD-10: I48.0	1	OHIP: 427	4
	Congestive heart failure ²²	ICD-9: 428; ICD-10: I50.0, I50.1, I50.9	1 + 1 additional visit	OHIP: 428 or feecode Q050	1 + 1 additional visit
	Myocardial infarction	ICD-9: 410; ICD-10: I21	1	n/a	n/a

Body system	Condition	Health care encounter			
		Emergency department visit or hospitalization		Physician visit	
		Codes	# Visits	Codes	# Visits
	Stroke or transient ischemic attack ²⁴	ICD-9: 362.3, 430, 431, 434, 435, 436; ICD-10: I60, I61, I63 except I63.6, I64, H34.0, H34.1, G45 except G45.4	1	OHIP: 432, 435, 436	2
Respiratory	Asthma ²⁵	ICD-9: 493; ICD-10: J45, J46	1	OHIP: 493	2
	Chronic obstructive pulmonary disease ²⁵	ICD-9: 491, 492, 496; ICD-10: J41, J42, J43, J44	1	OHIP: 491, 492, 496	1
Nervous system and sense organs	Multiple sclerosis ²⁶	ICD-9: 340; ICD-10: G35	1	OHIP: 340	5
	Epilepsy ²⁷	ICD-9: 345 except 345.2 and 345.3; ICD-10: G40	1	OHIP: 345	3
	Chronic migraine ²⁸	ICD-9: 307.8, 346, 349, 627.2, 784; ICD-10: G43, G44, G97.1, N95.1, R51	1	OHIP: 346	2
Musculoskeletal	Osteoarthritis	ICD-9: 715; ICD-10: M16-19	1	OHIP: 715	2

Body system	Condition	Health care encounter			
		Emergency department visit or hospitalization		Physician visit	
		Codes	# Visits	Codes	# Visits
	Osteoporosis ²⁹	ICD-9: 733.0; ICD-10: M80-82	1	OHIP: 733	1
	Rheumatoid arthritis ³⁰	ICD-9: 714; ICD-10: M05, M06	1	OHIP: 714	3
Skin and subcutaneous tissue	Lupus ³¹	ICD-9: 710.0; ICD-10: M32	1	OHIP: 710	3
	Psoriasis	ICD-9: 696.0, 696.1; ICD-10: L40	1	OHIP: 696	1
Genitourinary	Chronic kidney disease ³³	ICD-9: 403.0, 403.1, 403.9, 404.0, 404.1, 404.9, 580-587, 588.0, 588.8, 588.9, 593.7; ICD-10: E10.2, E11.2, E13.2, E14.2, I12, I13, N08, N18, N19	1	OHIP: 403, 585	1
Digestive	Inflammatory bowel disease ³²	ICD-9: 555, 556; ICD-10: K50, K51		OHIP: 555, 556	5 (2 years of OHIP eligibility); 3 (<2 years OHIP eligibility)

Abbreviations: ICD: International Statistical Classification of Diseases and Related Health Problems; OHIP: Ontario Health Insurance
Plan Database

Table S2. Specific chronic medical conditions and acute perinatal psychiatric health care encounters, by migrant status. Reported as n (%) unless otherwise indicated.

	Long-term residents	Immigrants	Refugees
Chronic medical conditions ^a			
Diabetes	5,484 (0.9)	2,345 (1.3)	433 (1.5)
Thyroid disease	13,899 (2.2)	7,789 (4.2)	1,069 (3.7)
Circulatory diseases	6,247 (1.0)	2,342 (1.3)	346 (1.2)
Respiratory diseases	21,757 (3.4)	3,243 (1.7)	631 (2.2)
Nervous system diseases	20,911 (3.3)	4,585 (2.5)	1,083 (3.7)
Musculoskeletal diseases	3,891 (0.6)	1,223 (0.7)	233 (0.8)
Skin and subcutaneous tissue diseases	6,921 (1.1)	1,480 (0.8)	197 (0.7)
Other ^a	2,082 (0.3)	506 (0.3)	79 (0.3)
Acute psychiatric health care encounters ^a			
Psychotic disorders	618 (0.1)	155 (0.1)	39 (0.1)
Mood or anxiety disorders	5,983 (0.9)	898 (0.5)	223 (0.8)
Substance use disorders	971 (0.2)	35 (0.02)	11 (0.04)
Self-harm	429 (0.07)	86 (0.05)	33 (0.1)
Other	805 (0.13)	165 (0.09)	29 (0.1)

Figures in **bold** indicate a standardized difference >0.10, long-term residents as referent

a. Values do not add up to total number with CMC, since women could have >1 CMC; b.

Includes chronic kidney disease, inflammatory bowel disease.

Table S3. Impact of specific CMCs on the risk of any acute perinatal psychiatric health encounter, by migrant status.

	Long-term residents		Immigrants		Refugees	
	N (%) with outcome	aRR (95% CI)	N (%) with outcome	aRR (95% CI)	N (%) with outcome	aRR (95% CI)
Diabetes						
Present	75 (1.4)	1.40 (1.11-1.78)	16 (0.7)	1.30 (0.79-2.11)	7 (1.6)	2.00 (0.93-4.30)
Absent	6,759 (1.1)	[Referent]	970 (0.5)	[Referent]	240 (0.8)	[Referent]
Thyroid disorders						
Present	108 (0.8)	1.01 (0.84-1.22)	35 (0.5)	0.90 (0.64-1.25)	8 (0.8)	0.91 (0.45-1.82)
Absent	6,726 (1.1)	[Referent]	951 (0.5)	[Referent]	239 (0.9)	[Referent]
Circulatory disorders						
Present	49 (0.8)	0.93 (0.70-1.23)	15 (0.6)	1.21 (0.73-2.02)	6 (1.7)	2.13 (0.92-4.96)
Absent	6,785 (1.1)	[Referent]	971 (0.5)	[Referent]	241 (0.8)	[Referent]
Respiratory disorders						
Present	347 (1.6)	1.25 (1.12-1.39)	20 (0.6)	1.06 (0.69-1.64)	6 (1.0)	1.04 (0.41-2.63)
Absent	6,487 (1.1)	[Referent]	966 (0.5)	[Referent]	241 (0.8)	[Referent]
Nervous system disorders						
Present	481 (2.3)	1.76 (1.60-1.93)	58 (1.3)	2.59 (1.74-2.94)	26 (2.4)	2.79 (1.85-4.22)
Absent	6,353 (1.0)	[Referent]	928 (0.5)	[Referent]	221 (0.8)	[Referent]
Musculoskeletal diseases						
Present	47 (1.2)	1.26 (0.95-1.68)	*	*	*	*

	Long-term residents		Immigrants		Refugees	
	N (%) with outcome	aRR (95% CI)	N (%) with outcome	aRR (95% CI)	N (%) with outcome	aRR (95% CI)
Absent	6787 (1.1)	[Referent]	*	[Referent]	*	[Referent]
Skin and subcutaneous tissue diseases						
Present	65 (0.94)	0.97 (0.76-1.23)	6 (0.4)	0.75 (0.34-1.66)	*	*
Absent	6769 (1.1)	[Referent]	980 (0.53)	[Referent]	*	[Referent]
Other diseases ^a						
Present	23 (1.1)	1.11 (0.74-1.66)	*	*	*	*
Absent	6811 (1.1)	[Referent]	*	[Referent]	*	[Referent]

aRR (95% CI) in **bold** indicates statistically significant interaction, at $p < 0.05$.

* Values suppressed due to cell sizes < 6 .

Adjusted models control for age, parity, low neighbourhood income, material deprivation, residential instability, dependency, ethnic concentration, remote history of mental illness, and the presence of any other CMC. We could not adjust for rurality due to small cell sizes.

Table S4. Impact of any CMC on the risk of specific acute perinatal psychiatric health encounters by migrant category.

	Long-term residents		Immigrants		Refugees	
	N (%) with outcome	aRR (95% CI)	N (%) with outcome	aRR (95% CI)	N (%) with outcome	aRR (95% CI)
Psychotic disorders						
CMC present	91 (0.1)	1.22 (0.97-1.52)	18 (0.1)	1.01 (0.63-1.61)	7 (0.2)	1.47 (0.64-3.35)
CMC absent	527 (0.1)	[Referent]	137 (0.1)	[Referent]	32 (0.1)	[Referent]
Mood or anxiety disorders						
CMC present	959 (1.3)	1.39 (1.30-1.49)	127 (0.6)	1.25 (1.03-1.51)	46 (1.3)	1.86 (1.33-2.61)
CMC absent	5,024 (0.9)	[Referent]	771 (0.5)	[Referent]	177 (0.7)	[Referent]
Substance use disorders						
CMC present	152 (0.2)	1.36 (1.14-1.63)	*	*	*	*
CMC absent	819 (0.1)	[Referent]	*	[Referent]	*	[Referent]
Self-harm						
CMC present	57 (0.1)	1.23 (0.93-1.64)	11 (0.1)	1.15 (0.61-2.17)	*	*
CMC absent	372 (0.1)	[Referent]	75 (0.1)	[Referent]	*	[Referent]
Other						
CMC present	132 (0.2)	1.42 (1.17-1.70)	21 (0.1)	1.65 (1.20-2.27)	6 (0.2)	**
CMC absent	673 (0.1)	[Referent]	144 (0.1)	[Referent]	23 (0.1)	[Referent]

aRR (95% CI) in **bold** indicates statistically significant interaction, at p<0.05.

* Values suppressed due to cell size <6; ** Model did not converge due to small numbers.

Adjusted models control for age, parity, low neighbourhood income, material deprivation, residential instability, dependency, ethnic concentration, and remote history of mental illness. We could not adjust for rurality due to small cell sizes.