

Appendix 1 (as supplied by the authors): Supplemental tables

Supplemental Table S1: Variables and definitions		
Variable	Data Source	Definition Description and/or Dx/fee Codes
Age	RPDB PCPOP	Age of the individual at the index date
Sex	RPDB	Sex of individual
History of substance use related care	DAD NACRS OMHRS OHIP	1 hospitalization or 2 claims in 2 years or less of any code in variable “Substance use disorder”
History of mental health related care	DAD NACRS OMHRS OHIP	1 hospitalization OR 2 claims in 2 years or less of any code in variable “Psychotic disorder” or “Non-psychotic” or “Other mental health”
Priority Population CHC (PPCHC) and Non-priority Population CHC (NPPCHC)	CHC	Presented to a CHC, between 1 April 2014 and 31 March 2015; two subgroups, PPCHC and NPPCHC, developed with CHCV geographic identifier variable.
Ontario	PCPOP	In ICES-derived Primary Care Population dataset, alive as of 1 April 2014
Income quintile	RPDB PCPOP	Neighbourhood income quintile
Residential Instability	ONMarg	Area-level concentrations of people who experience high rates of family or housing instability
Material Deprivation	ONMarg	A combined measure of income, quality of housing, educational attainment, and family structure characteristics
Dependency	ONMarg	Area-level concentrations of people who do not have income from employment
Ethnic Concentration	ONMarg	Concentrations of recent immigrants and people belonging to a ‘visible minority’ group
Recent Immigrant Status	IRCC (CIC)	Presence in IRCC database with landing date less than 10 years before index date
Rural status	RPDB	Resides in a rural area as defined as a settlement of <10,000 individuals
Rostered to a Family Physician at index	CAPE	Rostering to a family physician practice
Psychotic disorder	DAD NACRS OMHRS OHIP	ICD-10: F20, F22, F23, F24, F25, F28, F29, F323, F333; OHIP: 295, 297, 298, 295, 296, 297, 298
Non-psychotic disorder	DAD NACRS OMHRS OHIP	ICD-10: F21, F30, F31, F321, F322, F328, F330, F331, F332, F334, F338, F339, F348, F349, F380, F381, F388, F39, F40, F41, F42, F43, F48, F60, F93; OHIP: 296, 300, 301, 302, 306, 309, 311

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Substance use disorder	DAD NACRS OMHRS OHIP	ICD-10: F10, F11, F12, F13, F14, F15, F16, F17, F18, F19, F55, E244, G312, G620, G621, G720, G721, I426, I427, K292, K70, K852, K853, K860, T51, X45, Z502, Z503; OHIP: 291, 292, 303, 304, 305, A680, C680, K680, K682, K683, K684, K701
Other mental health	DAD NACRS OMHRS OHIP	ICD-10: F44, F45, F50, F5, F52, F53, F54, F55, F59, F61, F62, F63, F64, F65, F66, F68, F69, F70, F71, F72, F73, F78, F79, F80, F81, F82, F83, F84, F88, F89, F90, F91, F92, F94, F95, F98, F99, X60, X61, X62, X63, X64, X65, X66, X67, X68, X69, X70, X71, X72, X73, X74, X75, X76, X77, X78, X79, X80, X81, X82, X83, X84
Asthma	PCPOP ASTHMA	Presence in the database indicates the individual has a history of asthma
COPD	PCPOP COPD	Presence in the database indicates the individual has a history of COPD
Diabetes	PCPOP ODD	Presence in the database indicates the individual has a history of diabetes
Hypertension	PCPOP HYPER	Presence in the database indicates the individual has a history of hypertension
Infective Endocarditis	DAD	ICD-10: I330, I339
Rheumatoid Arthritis	ORAD	Presence in the database indicates the individual has a history of rheumatoid arthritis
Congestive heart failure	CHF	Presence in the database indicates the individual has a history of congestive heart failure
Chronic Liver Disease	DAD NACRS	ICD-10: B16, B17, B18, B19, I85, R17, R18, R160, R162, B942, Z225, E831, E830, K70, K713, K714, K715, K717, K721, K729, K73, K74, K753, K754, K758, K759, K76, K77; OHIP: 571, 573, 070, Z551, Z554
Chronic Kidney Disease	DAD NACRS	ICD-10: E102, E112, E132, E142, I12, I13, N00, N01, N02, N03, N04, N05, N06, N07, N08, N10, N11, N12, N13, N14, N15, N16, N17, N18, N19, N20, N21, N22, N23; OHIP: 403, 585
Crohn's Ulcerative Colitis	OCCC	Presence in the database indicates the individual has a history of Crohn's / Ulcerative Colitis
HIV	HIV	Presence in the database indicates the individual has a history of HIV
Skin and Soft Tissue Infection	DAD SDS NACRS OHIP	ICD-10: A46, B86, H00, H031, H600, H601, H602, H603, H620, H622, H623, H66, J340, J340, K122, K61, L00, L01, L02, L03, L04, L05, L08; OHIP: 035, 680, 682, 683, 684, 685, 686
Chronic Pain	DAD SDS NACRS OHIP	ICD-10: F454, M081, M2550, M2551, M2555, M2556, M2557, M432, M433, M434, M435, M436, M45, M461, M463, M464, M469, M47, M480, M481, M488, M489, M508, M509, M51, M531, M532, M533, M538, M539, M54, M608, M609, M633, M790, M791, M792, M796, M797, M961; OHIP: 720, 721, 722, 724, 729

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Variable	Data Source	Definition Description and/or Dx/fee Codes
Primary healthcare visits*	OHIP CHC	Number of physician visits within 1 year after to the index date, defined as one visit per day per physician
Emergency department visits*	PCPOP NACRS	Number of ED visits within 1 year after to the index date
Hospitalizations*	DAD	Number of admissions to acute care hospitals within 1 year after to the index date
Specialist visit * Psychiatrist Respirologist Endocrinologist Cardiologist	PCPOP OHIP	Number of specialist visits within 1 year prior to the index date, defined as one visit per day per physician; PCPOP: SV_CARDIO = cardiologist, SV_ENDO = endocrinologist, SV_RESP=respirologist, SV_PSYCH=psychiatrist; OHIP: 2113 (Psychiatrist), 260 (Respirologist), 187 (Endocrinologist), 606 (Cardiologist)
*study outcome variable		

Supplemental Table S2: Adjusted odds ratio of all covariates during follow-up period		
	Adjusted odds ratio of psychiatric care during follow-up (1 year)¹	Adjusted odds ratio of emergency department visit during follow-up (1 year)²
Age at cohort entry, per year increase	0.99 (0.99-0.99)	1.00 (0.99-1.00)
Sex (reference=female)	1.03 (1.02-1.04)	0.92 (0.92-0.92)
Income Quintile (reference=Quintile 1)		
Quintile 2	0.97 (0.96-0.98)	1.01 (1.00-1.02)
Quintile 3	0.99 (0.98-1.00)	1.00 (1.00-1.01)
Quintile 4	0.99 (0.98-1.00)	0.99 (0.98-1.00)
Quintile 5 (highest)	1.07 (1.06-1.09)	0.95 (0.94-0.96)
Residential Instability (reference=Quintile 1)		
Quintile 2	0.96 (0.95-0.97)	0.99 (0.98-1.00)
Quintile 3	0.99 (0.98-1.00)	1.00 (0.99-1.01)
Quintile 4	1.03 (1.02-1.04)	1.01 (1.01-1.02)
Quintile 5 (most)	1.09 (1.08-1.10)	1.03 (1.03-1.04)
Material Deprivation (reference=Quintile 1)		
Quintile 2	0.98 (0.97-0.99)	0.96 (0.95-0.97)
Quintile 3	1.00 (0.99-1.01)	0.99 (0.99-1.00)
Quintile 4	1.00 (0.99-1.01)	1.04 (1.03-1.05)
Quintile 5 (most)	1.03 (1.02-1.04)	1.11 (1.10-1.12)
Dependency (reference=Quintile 1)		
Quintile 2	1.00 (0.97-0.99)	0.97 (0.97-0.98)
Quintile 3	1.02 (0.99-1.01)	1.00 (0.99-1.01)
Quintile 4	1.01 (1.00-1.02)	1.02 (1.01-1.03)

Quintile 5 (most)	0.99 (0.98-1.00)	1.03 (1.03-1.04)
Ethnic Concentration (reference=Quintile 1)		
Quintile 2	0.96 (0.95-0.97)	1.05 (1.04-1.06)
Quintile 3	1.01 (1.00-1.01)	1.01 (1.00-1.01)
Quintile 4	1.06 (1.05-1.07)	0.96 (0.95-0.97)
Quintile 5 (most)	1.05 (1.03-1.06)	0.93 (0.92-0.93)
Recent Immigrant Status (reference='no')	0.88 (0.86-0.89)	0.95 (0.94-0.96)
Rural (reference='urban')	0.93 (0.92-0.94)	1.08 (1.07-1.09)
Healthcare related to:		
Non-Psychotic Disorder (reference= no)	1.88 (1.87-1.89)	1.12 (1.12-1.13)
Psychotic Disorder (reference= no)	2.49 (2.48-2.51)	1.11 (1.10-1.11)
Substance use Disorder (reference= no)	0.98 (0.97-0.99)	1.28 (1.28-1.29)
Co-morbidities (reference= no)		
Asthma		1.15 (1.14-1.15)
COPD		1.12 (1.11-1.13)
Diabetes		1.10 (1.10-1.11)
Hypertension		1.11 (1.10-1.11)
Rheumatoid Arthritis		1.01 (0.99-1.04)
Congestive Heart Failure		1.31 (1.30-1.33)
Chronic Liver Disease		1.11 (1.10-1.12)
Chronic Kidney Disease		1.34 (1.33-1.35)
Crohn's/Ulcerative Colitis		1.15 (1.13-1.17)
HIV		0.68 (0.65-0.72)
Skin/Soft Tissue Infections (within 1 year)		1.27 (1.26-1.28)
Chronic Pain (within 1 year)		1.23 (1.22-1.24)
<p>CHC: Community Health Centre; No.: number; Residential Instability, Material Deprivation, Dependency, Ethnic Concentration drawn from ONMarg; Recent Immigrant Status: Presence in IRCC database with landing date less than 10 years before index date; Rural: resides in a rural area as defined as a settlement of <10,000 individuals; Psychotic Disorder, Non-psychotic disorder, Substance use Disorder includes any hospitalization or 2 claims in 2 years or less of any related diagnostic or fee code; COPD: chronic obstructive pulmonary disease; HIV: human immunodeficiency virus.</p> <p>¹Variables adjusted for in psychiatric care model: age, sex, income quintile, resident instability, material deprivation, dependency, ethnic concentration, recent immigrant status, rural, mental health-related healthcare, CHC usage in 3 years, rostered to family physician at index (clustering of family physician at index was accounted for).</p> <p>²Variables adjusted for in emergency department visit model: age, sex, income quintile, resident instability, material deprivation, dependency, ethnic concentration, recent immigrant status, rural, mental health-related healthcare, CHC usage in 3 years, rostered to family physician at index (clustering of family physician at index was accounted for), comorbidities in last 3 years prior to the index date (ie, Chronic Liver Disease, Chronic Kidney Disease, Crohn's/Ulcerative Colitis, Rheumatoid Arthritis, Infective Endocarditis,) any diagnosis of comorbidity that prior to index date (ie, Asthma, COPD, Diabetes, Hypertension, Congestive heart failure, HIV), comorbidities in last 1 year prior to the index date (ie, Skin and Soft Tissue Infections, Chronic Pain).</p>		