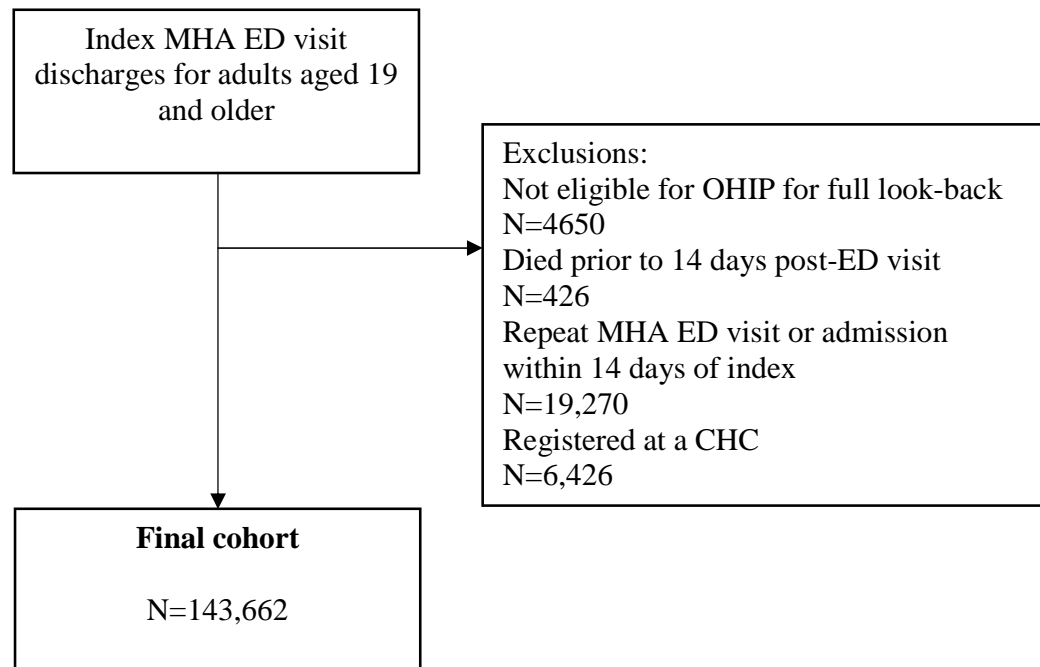


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Appendix A. Data sources used for this study (all accessed through ICES, Toronto, Canada)

Name	Description
Registered Persons Database (RPDB)	Demographics, linkage to vital statistics
National Ambulatory Care Reporting System (NACRS)	Emergency department data
Ontario Health Insurance Plan (OHIP)	Physician billings, including diagnosis
Ontario Mental Health Reporting System (OMHRS)	Psychiatric hospitalizations
Canadian Institutes of Health Information Discharge Abstract Database (CIHI-DAD)	Non-psychiatric hospitalizations

Appendix B. Cohort creation



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Appendix C. Baseline characteristics for the cohort of adults age 19 and over who were discharged home following a psychiatric ED visit (2010-2012), overall and categorized by primary diagnostic category (substance use disorder, SUD or non-substance use disorders, non-SUD) at the index ED visit. Non-SUD are further specified for specific diagnoses at the index ED visit (schizophrenia, bipolar disorder, and major depressive disorder, MDD).

Variable	Overall N=143,662	SUD and non-SUD		Select non-SUD diagnoses		
		SUD N=31,592	All non-SUD N=112,070	Schizophrenia N=4765	Bipolar disorder N=2222	MDD N=17,643
<i>Sociodemographics</i>						
Age, mean ± SD	40.8 ± 17.9	38.1 ± 16.7	41.5 ± 18.2	42.37 ± 15.67	40.04 ± 14.47	40.07 ± 16.55
Female, n (%)	73,588 (51.2)	11,200 (35.5)	62,388 (55.7)	1,762 (37.0%)	1,279 (57.6)	10,134 (57.4)
Income quintile, n (%)*						
1 (lowest)	39,485 (27.5)	9,101 (28.8)	30,384 (27.1)	1,693 (35.5)	645 (29.0)	4,715 (26.7)
2	30,580 (21.3)	6,532 (20.7)	24,048 (21.5)	1,037 (21.8)	531 (23.9)	3,747 (21.2)
3	26,035 (18.1)	5,518 (17.5)	20,517 (18.3)	763 (16.0)	359 (16.2)	3,265 (18.5)
4	24,464 (17.0)	5,140 (16.3)	19,324 (17.2)	678 (14.2)	352 (15.8)	3,078 (17.4)
5 (highest)	21,845 (15.2)	4,880 (15.4)	16,965 (15.1)	550 (11.5)	328 (14.8)	2,733 (15.5)
Missing	1,253 (0.9)	421 (1.3)	832 (0.7)	44 (0.9)	7 (0.3)	105 (0.6)
Rural (<10,000 inhabitants), n (%)	22,932 (16.0)	3,867 (12.3)	19,065 (17.0)	424 (8.9)	286 (12.9)	2,907 (16.5)
<i>Comorbidity</i>						
Aggregated Clinical Groups (14), n(%)						
0	2,133 (1.5)	891 (2.8)	1,242 (1.1)	51 (1.1)	9 (0.4)	130 (0.7)
1-4	95,804 (66.7)	22,996 (72.8)	72,808 (65.0)	3,424 (71.9)	1,485 (66.8)	11,774 (66.7)
≥5	45,725 (31.8)	7,705 (24.4)	38,020 (33.9)	1,290 (27.0)	728 (32.8)	5,739 (32.5)
<i>Primary care enrolment</i>						
Primary care enrolment, n(%)						
Capitation	63,213 (44.0)	12,731 (40.3%)	50,482 (45.0)	1,639 (34.4)	999 (45.0)	7,998 (45.3)
Enhanced fee-for-service	52,793 (36.7)	11,669 (36.9)	41,124 (36.7)	1,960 (41.1)	852 (38.3)	6,471 (36.7)
Non enrollment	7,097 (4.9)	2,470 (7.8)	4,627 (4.1)	339 (7.1)	68 (3.1)	653 (3.7)
Other models	20,559 (14.3)	4,722 (14.9)	15,837 (14.1)	827 (17.4)	303 (13.6)	2,521 (14.3)
<i>Health care utilization (past 2 years)</i>						
Family physician outpatient MH visits, n(%)						
0	65,786 (45.8)	17,270 (54.7)	48,516 (43.3)	1,457 (30.6)	454 (20.4)	5,643 (32.0)
1	21,829 (15.2)	4,085 (12.9)	17,744 (15.8)	733 (15.4)	312 (14.0)	2,837 (16.1)
2	12,682 (8.8)	2,156 (6.8)	10,526 (9.4)	490 (10.3)	267 (12.0)	1,954 (11.1)
≥3	43,365 (30.2)	8,081 (25.6)	35,284 (31.5)	2,085 (43.8)	1,189 (53.5)	7,209 (40.9)

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Family physician outpatient non-MH visits, n(%)	0	16,412 (11.4)	4,840 (15.3)	11,572 (10.3)	875 (18.4)	253 (11.4)	1,908 (10.8)
	1	12,883 (9.0)	3,382 (10.7)	9,501 (8.5)	524 (11.0)	192 (8.6)	1,625 (9.2)
	2	12,282 (8.5)	3,124 (9.9)	9,158 (8.2)	471 (9.9)	206 (9.3)	1,538 (8.7)
	≥3	102,085 (71.1)	20,246 (64.1)	81,839 (73.0)	2,895 (60.8)	1,571 (70.7)	12,572 (71.3)
Psychiatrist outpatient visits, n(%)	0	112,449 (78.3)	26,669 (84.4)	85,780 (76.5)	1,933 (40.6)	723 (32.5)	12,542 (71.1)
	1-2	11,712 (8.15)	2,188 (6.92)	9,524 (8.50)	649 (13.6)	339 (15.3)	1,911 (10.8)
	≥3	19,501 (13.6)	2,735 (8.7)	16,766 (15.0)	2,183 (45.8)	1,160 (52.2)	3,190 (18.1)
Psychiatric ED visits, n(%)	0-2	138,016 (96.1)	29,981 (94.9)	108,035 (96.4)	4,026 (84.5)	1,962 (88.3)	17,052 (96.7)
	3-9	5,033 (3.5)	1,382 (4.4)	3,651 (3.3)	648 (13.6)	234 (10.5)	540 (3.1)
	≥10	613 (0.4)	229 (0.7)	384 (0.3)	91 (1.9)	26 (1.2)	51 (0.3)
Psychiatric admissions, n(%)	≥1	11,637 (8.1)	2,054 (6.5)	9,583 (8.6)	1,883 (39.5)	726 (32.7)	1,742 (9.9)

*Neighbourhood level

MH=Mental health