

## APPENDIX

*Appendix Table 1: Health administrative data definitions for mental health services use*

Type of health contact	Database	Definition	Diagnostic codes (ICD-9 / ICD-10)
Physician visits <sup>1</sup>	OHIP	Any record with: 1) a MH/A-related procedure code ( <i>feecode</i> ); or 2) a MH/A-related diagnostic code ( <i>dxcode</i> ); or 3) a psychiatrist specialty code ( <i>spec</i> )	295-298, 300-304, 306, 309, 311, 897-902, 904-906, 909
Emergency department visits	CIHI-NACRS	Any record with an MH/A or self-harm related diagnostic code	MH/A: F00-F99 Self-harm: X60-X84
Hospitalizations	CIHI-DAD	Any record with an MH/A related diagnostic code	F00-F99
	OMHRS	Any record	All codes

<sup>1</sup> Steele, 2004

OHIP: Ontario Health Insurance Plan

CIHI-NACRS: Canadian Institute for Health Information National Ambulatory Care Reporting System

CIHI-DAD: Canadian Institute for Health Information Discharge Abstract Database

OMHRS: Ontario Mental Health Reporting System

ICD: International Classification of Diseases

MH/A: Mental health/addictions

*Appendix Table 2: Demographic profile of youths and young adults with mental health services use in Ontario correctional centres, April 1, 2010 to March 31, 2012*

Variable	Youths/young adults with any physician visit in corrections		Youths/young adults with a mental health physician visit in corrections		Proportion of youths/young adults in corrections with a mental health visit
	N <sup>1</sup>	%	N <sup>1</sup>	%	
<b>Total</b>	13,919	100	5823	100	41.8
<b>Sex</b>					
Male	10,515	75.5	5102	87.6	48.5
Female	3,404	24.5	721	12.4	21.2
<b>Age group</b>					
12-17	2,454	17.6	306	5.3	12.5
18-24	11,465	82.4	5517	94.7	48.1
<b>Rural residence<sup>2</sup></b>					
No	12,590	90.5	5065	87.0	40.2
Yes	1,318	9.5	755	13.0	57.3
<b>Neighbourhood income quintile<sup>3</sup></b>					
1 (lowest)	4,282	30.8	2271	39.0	53.0

2	2,917	21.0	1204	20.7	41.3
3	3,029	21.8	953	16.4	31.5
4	2,113	15.2	776	13.3	36.7
5 (highest)	1,424	10.2	539	9.3	37.8

<sup>1</sup> Values may not add up to total N due to missing information

<sup>2</sup> Based on the Statistics Canada definition of rurality, where Census Metropolitan Areas that have a population of less than 10,000 are considered to be rural (du Plessis V, Beshiri R, Bollman RD, Clemenson H. Definitions of "Rural". 2002. Ottawa, ON, Statistics Canada)

<sup>3</sup> Estimated using income quintiles from neighbourhood postal code data in the RPDB and 2006 Statistics Canada Census Area Profiles data. Statistics Canada classifies Canadian neighbourhoods into one of five quintiles, ranked from poorest (quintile 1) to wealthiest (quintile 5) (Wilkins R. PCCF+ Version 5E User's Guide. 2009. Ottawa, ON, Statistics Canada)

*Appendix Table 3: Primary mental health diagnoses of youths and young adults with mental health services use in Ontario correctional centres (N = 5823) between April 1, 2010 and March 31, 2012*

<b>Variable</b>	<b>Schizophrenia<sup>1</sup></b>		<b>Mood disorder</b>		<b>Drug use</b>		<b>Anxiety disorder</b>		<b>Other MH</b>	
	<i>N</i>	%	<i>N</i>	%	<i>N</i>	%	<i>N</i>	%	<i>N</i>	%
<b>N(%) with correctional MH/A services use<sup>2</sup></b>	507	8.7	729	12.5	1225	21.0	2856	49.0	506	8.7
<b>Sex<sup>2</sup></b>										
Male	483	95.2	664	91.1	946	77.2	324	89.7	477	94.3
Female	24	4.7	65	8.9	279	22.8	2532	11.3	29	5.7
<b>Age<sup>2</sup></b>										
12-17	*	*	61	8.3	38	3.1	135	4.7	67	13.2
18-24	*	*	668	91.6	1187	96.9	2721	95.3	439	86.8

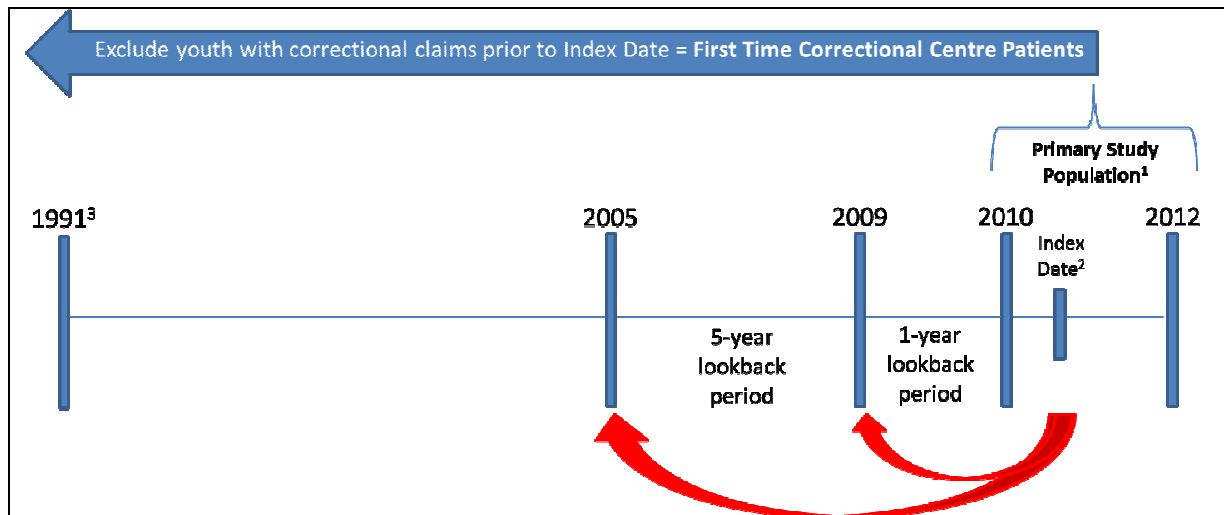
<sup>1</sup>All diagnostic categories are hierarchical and mutually exclusive

<sup>2</sup> N(%) of each diagnostic column

MH/A: Mental health/addictions

\*Suppressed for confidentiality purposes due to small cell counts in the 12-17 age group

*Appendix Figure 1 – Schematic to define first-time correctional centre patients with mental health services use and their pre-correctional mental health treatment (1 year and 5 years prior to correctional entry)*



<sup>1</sup> Individuals who had at least one mental health-specific physician visit in correctional custody between April 1, 2010 and March 31, 2012 (the correctional study period)

<sup>2</sup> For each individual in the primary study population, the earliest date of an OHIP claim during the correctional study period

<sup>3</sup> OHIP Claims Database available from 1991 onward

OHIP: Ontario Health Insurance Plan