

Addendum to the
Mental Health & Addictions Needs & Capacity Assessment
For the Champlain Local Health Integration Region March 2012

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This addendum pertains to the estimated prevalence rates provided in the report entitled [*Mental Health & Addictions Needs & Capacity Assessment – For the Champlain Local Health Integration Region*](#), that was published in March 2012. Areas of emphasis are two-fold: estimated prevalence rates are recalculated using the corresponding age range population count instead of the total population count; and, methods are summarized to display the importance of utilizing the estimated prevalence as rough estimates.

1. Recalculated prevalence rates are recalculated using the corresponding age range population count

The *Exhibit 4-2 Estimated Region-specific Population Prevalence Rates (2010)*, on page 31 of the report, provides Champlain LHIN region rates for specific diseases/conditions and for different age groups. It is important to note that the rates shown in this table have been calculated relative to the overall population count (i.e., including all ages), except for the adult specific disorders rates which have been calculated relative to the 18 year old population count. This means that:

- the estimated prevalence rate of *Dementia*, shown to be 1.13%, should actually be 4.3%; using the 55+ population count of 324,850 (for 2010) instead of the total population count of 1,245,121. And similarly,
- the *All Adolescent Disorders* rate, shown to be 1.43%, should actually be 15.0%; using the 10-17 year old population count of 119,053 (for 2010) instead of the total population count. And note that the specific adolescent disorder rates are all shown as per calculation relative to the total population count, instead of per 10-17 year old population count.

Estimated prevalence rates have been re-calculated using the *Exhibit 4-21: Estimated Affected Population in Champlain LHIN by Disorder Type for 2006, 2010, 2013, and 2020*, and the corresponding age range population count instead of the total population count, for 2010 and 2020. See table below. Appendices include Exhibit 4-2 and 4-21 for ease of reference.

**Estimated Prevalence Rates from the Mental Health & Addictions Needs & Capacity Assessment
For the Champlain Local Health Integration Region March 2012
RE-CALCULATED WITH AGE RANGE SPECIFIC DENOMINATOR VS TOTAL POPULATION DENOMINATOR**

	Corresponding Age Range	2010 Estimates, Champlain LHIN			2020 Estimates, Champlain LHIN		
		Estimated Affected Population for 2010, from Exhibit 4-21* (Numerator)	Corresponding Age Range Population Size, Estimate from Census (Denominator)	Estimated Prevalence Rate (Numerator /Denominator)	Estimated Affected Population for 2020, from Exhibit 4-21* (Numerator)	Corresponding Age Range Population Size, Estimate from Census (Denominator)	Estimated Prevalence Rate (Numerator /Denominator)
Disorder							
All MH&A Disorders (incl. Adolescents)	10+	195,413	1,114,780	18%	225,771	1,251,938	18%
All Adult Disorders	18+	175,040	995,727	18%	199,297	1,136,664	18%
Adult Anxiety Disorders	18+	115,112	995,727	12%	126,620	1,136,664	11%
Panic Disorder	18+	10,382	995,727	1%	11,418	1,136,664	1%
Agoraphobia	18+	14,600	995,727	1%	16,049	1,136,664	1%
Specific Phobia	18+	60,833	995,727	6%	66,907	1,136,664	6%
Social Phobia	18+	63,199	995,727	6%	69,536	1,136,664	6%
Generalized Anxiety Disorder	18+	10,339	995,727	1%	11,370	1,136,664	1%
Posttraumatic Stress Disorder	18+	22,751	995,727	2%	25,029	1,136,664	2%
Adult Mood Disorders	18+	42,436	995,727	4%	48,111	1,136,664	4%
Major Depressive Episode	18+	39,228	995,727	4%	44,477	1,136,664	4%
Dysthymia	18+	6,848	995,727	1%	7,753	1,136,664	1%
Mania/Hypomania	18+	5,790	995,727	1%	6,572	1,136,664	1%
Adult Behavioural Disorders	18+	85,926	995,727	9%	97,612	1,136,664	9%
Oppositional Defiant Disorder	18+	9,603	995,727	1%	10,911	1,136,664	1%
Conduct Disorder	18+	9,740	995,727	1%	11,072	1,136,664	1%
Attention-Deficit/Hyperactivity Disorder	18+	39,623	995,727	4%	44,971	1,136,664	4%
Intermittent Explosive Disorder	18+	25,029	995,727	3%	28,465	1,136,664	3%
Schizophrenia	18+	6,310	995,727	1%	7,124	1,136,664	1%
Dementia	55+	14,063	324,850	4%	19,350	446,995	4%
Adult Substance Use Disorders	18+	78,432	995,727	8%	89,387	1,136,664	8%
Alcohol Use Disorders	18+	43,397	995,727	4%	49,447	1,136,664	4%
Drug Use Disorders	18+	18,757	995,727	2%	21,390	1,136,664	2%
All Adolescent Disorders	10-17	17,858	119,053	15%	17,291	115,274	15%
Adolescent Anxiety Disorders	10-17	7,971	119,053	7%	7,718	115,274	7%
Panic Disorder	10-17	774	119,053	1%	749	115,274	1%
Agoraphobia	10-17	5,357	119,053	4%	5,187	115,274	4%
Social Phobia	10-17	1,952	119,053	2%	1,890	115,274	2%
Generalized Anxiety Disorder	10-17	488	119,053	0%	473	115,274	0%
Posttraumatic Stress Disorder	10-17	702	119,053	1%	680	115,274	1%
Obsessive Compulsive Disorder	10-17	238	119,053	0%	231	115,274	0%
Adolescent Mood Disorders	10-17	3,560	119,053	3%	3,447	115,274	3%
Any Depressive Disorder	10-17	2,560	119,053	2%	2,478	115,274	2%
Mania/Hypomania	10-17	119	119,053	0%	115	115,274	0%
Attention-Deficit/Hyperactivity Disorder	10-17	2,452	119,053	2%	2,375	115,274	2%
Adolescent Disruptive Disorders (excl. ADHD)	10-17	8,006	119,053	7%	7,752	115,274	7%
Oppositional Defiant Disorder	10-17	3,256	119,053	3%	3,153	115,274	3%
Conduct Disorder	10-17	3,929	119,053	3%	3,804	115,274	3%
Adolescent Substance Use Disorders	10-17	6,274	119,053	5%	6,075	115,274	5%
Alcohol Abuse or Dependence	10-17	3,476	119,053	3%	3,366	115,274	3%
Marijuana Abuse or Dependence	10-17	4,024	119,053	3%	3,896	115,274	3%
Other Substances Abuse or Dependence	10-17	1,071	119,053	1%	1,037	115,274	1%

** Exhibit 4-21: Estimated Affected Population in Champlain LHIN by Disorder Type for 2006, 2010, 2013, and 2020 from Mental Health & Addictions Needs & Capacity Assessment For the Champlain Local Health Integration Region March 2012*

2. Summary of Methods

The *Mental Health & Addictions Needs & Capacity Assessment For the Champlain Local Health Integration Region March 2012* report, is the only publication providing Champlain LHIN region-specific and disorder-specific prevalence estimates for both adults and adolescent age groups. Prevalence estimates were derived using the methodology summarized below, and limitations are specified. Caution is advised to treat the percentages as rough estimates versus precise reflection of prevalence.

- Using prevalence rates found in the literature
 - Limited to what has been published.
 - Ontario rates were chosen, and if not available, Canadian rates were used or median of International rates.
 - Disorder specific rates were published over different years, and using different methodology.
- Adjusting rates from the literature to the Champlain LHIN population characteristics
 - Using the adjustment factors to account for the impact of the population demographics derived from a single study /cohort from the United States.
 - Demographics considered: age, gender, marital status, education level, family income, employment status, urbanicity. Missing characteristics: homelessness or housing status, marginalization/vulnerable populations (Francophone, Indigenous, Immigrant, LBGTQ).
- Applying an additional adjustment factor to account for individuals who may suffer from more than 1 disorder.
 - No clear description provided in the report on how this adjustment factor was calculated.

APPENDICES –

Exhibit 4-2: Champlain LHIN prevalence rates for MH&A disorders are lower than that of Ontario as a whole

Disorder	Estimated Region-specific Population Prevalence Rates (2010)			
	Champlain LHIN	Ontario	Lowest LHIN	Highest LHIN
All MH&A Disorders (incl. Adolescents)	15.69%	15.98%	15.02%	16.77%
All Adult Disorders	17.58%	18.08%	17.55%	18.87%
Adult Anxiety Disorders	11.56%	11.85%	11.52%	12.28%
Panic Disorder	1.04%	1.07%	1.03%	1.11%
Agoraphobia	1.47%	1.55%	1.47%	1.67%
Specific Phobia	6.11%	6.22%	6.04%	6.38%
Social Phobia	6.35%	6.51%	6.33%	6.75%
Generalized Anxiety Disorder	1.04%	1.07%	1.03%	1.12%
Posttraumatic Stress Disorder	2.28%	2.33%	2.27%	2.40%
Adult Mood Disorders	4.26%	4.46%	4.26%	4.78%
Major Depressive Episode	3.94%	4.02%	3.93%	4.27%
Dysthymia	0.69%	0.79%	0.69%	0.95%
Mania/Hypomania	0.58%	0.60%	0.58%	0.62%
Adult Behavioural Disorders	8.63%	8.84%	8.57%	9.19%
Oppositional Defiant Disorder	0.96%	0.99%	0.95%	1.04%
Conduct Disorder	0.98%	0.99%	0.97%	1.03%
Attention-Deficit/Hyperactivity Disorder	3.98%	4.07%	3.91%	4.25%
Intermittent Explosive Disorder	2.51%	2.59%	2.51%	2.71%
Schizophrenia	0.51%	0.52%	0.47%	0.61%
Dementia	1.13%	1.12%	0.93%	1.39%
Adult Substance Use Disorders	7.88%	7.93%	7.65%	8.16%
Alcohol Use Disorders	4.36%	4.39%	4.23%	4.51%
Drug Use Disorders	1.88%	1.90%	1.83%	1.96%
All Adolescent Disorders	1.43%	1.48%	1.25%	1.60%
Adolescent Anxiety Disorders	0.64%	0.66%	0.56%	0.71%
Panic Disorder	0.062%	0.064%	0.054%	0.069%
Agoraphobia	0.43%	0.44%	0.37%	0.48%
Social Phobia	0.16%	0.16%	0.14%	0.17%
Generalized Anxiety Disorder	0.039%	0.040%	0.034%	0.044%
Posttraumatic Stress Disorder	0.056%	0.058%	0.049%	0.063%
Obsessive Compulsive Disorder	0.019%	0.020%	0.017%	0.021%
Adolescent Mood Disorders	0.29%	0.29%	0.25%	0.32%
Any Depressive Disorder	0.21%	0.21%	0.18%	0.23%
Mania/Hypomania	0.010%	0.010%	0.008%	0.011%
Attention-Deficit/Hyperactivity Disorder	0.20%	0.20%	0.17%	0.22%
Adolescent Disruptive Disorders (excl. ADHD)	0.64%	0.66%	0.56%	0.72%
Oppositional Defiant Disorder	0.26%	0.27%	0.23%	0.29%
Conduct Disorder	0.32%	0.32%	0.27%	0.35%
Adolescent Substance Use Disorders	0.50%	0.52%	0.44%	0.56%
Alcohol Abuse or Dependence	0.28%	0.29%	0.24%	0.31%
Marijuana Abuse or Dependence	0.32%	0.33%	0.28%	0.36%
Other Substances Abuse or Dependence	0.09%	0.09%	0.07%	0.10%

Exhibit 4-21: Estimated Affected Population in Champlain LHIN by Disorder Type for 2006, 2010, 2013, and 2020

Disorder	2006	2010	2013	2020
All MH&A Disorders (incl. Adolescents)	181,233	195,413	204,660	225,771
All Adult Disorders	163,113	175,040	182,572	199,297
Adult Anxiety Disorders	106,971	115,112	117,990	126,620
Panic Disorder	9,650	10,382	10,640	11,418
Agoraphobia	13,579	14,600	14,957	16,049
Specific Phobia	56,537	60,833	62,348	66,907
Social Phobia	58,710	63,199	64,795	69,536
Generalized Anxiety Disorder	9,610	10,339	10,596	11,370
Posttraumatic Stress Disorder	21,138	22,751	23,322	25,029
Adult Mood Disorders	38,648	42,436	44,226	48,111
Major Depressive Episode	35,724	39,228	40,886	44,477
Dysthymia	6,248	6,848	7,128	7,753
Mania/Hypomania	5,264	5,790	6,041	6,572
Adult Behavioural Disorders	78,063	85,926	89,710	97,612
Oppositional Defiant Disorder	8,723	9,603	10,028	10,911
Conduct Disorder	8,842	9,740	10,175	11,072
Attention-Deficit/Hyperactivity Disorder	36,039	39,623	41,334	44,971
Intermittent Explosive Disorder	22,705	25,029	26,158	28,465
Schizophrenia	5,814	6,310	6,553	7,124
Dementia	12,306	14,063	15,536	19,350
Adult Substance Use Disorders	70,968	78,432	82,122	89,387
Alcohol Use Disorders	39,279	43,397	45,429	49,447
Drug Use Disorders	16,960	18,757	19,650	21,390
All Adolescent Disorders	18,488	17,858	17,152	17,291
Adolescent Anxiety Disorders	8,252	7,971	7,656	7,718
Panic Disorder	801	774	743	749
Agoraphobia	5,546	5,357	5,146	5,187
Social Phobia	2,021	1,952	1,875	1,890
Generalized Anxiety Disorder	505	488	469	473
Posttraumatic Stress Disorder	727	702	675	680
Obsessive Compulsive Disorder	247	238	229	231
Adolescent Mood Disorders	3,685	3,560	3,419	3,447
Any Depressive Disorder	2,650	2,560	2,459	2,478
Mania/Hypomania	123	119	114	115
Attention-Deficit/Hyperactivity Disorder	2,539	2,452	2,356	2,375
Adolescent Disruptive Disorders (excl. ADHD)	8,289	8,006	7,690	7,752
Oppositional Defiant Disorder	3,371	3,256	3,127	3,153
Conduct Disorder	4,067	3,929	3,774	3,804
Adolescent Substance Use Disorders	6,495	6,274	6,026	6,075
Alcohol Abuse or Dependence	3,599	3,476	3,339	3,366
Marijuana Abuse or Dependence	4,166	4,024	3,865	3,896
Other Substances Abuse or Dependence	1,109	1,071	1,029	1,037