

Mental Health Service Use Among Post-Secondary Students in Alberta

Child and Youth Data Laboratory (CYDL) Longitudinal Project

Introduction

This report profiles students enrolled in publicly-funded post-secondary institutions in Alberta (aged 18 to 25 years) who received mental health services between 2005/06 and 2010/11. Only students that were full-time Alberta health care registrants were considered in this report.

The analysis considers mental health service use among **full-time** and **part-time** students and among students pursuing a range of credential types including, **Master's/PhD, Bachelor/Applied, Certificate/Diploma, University transfer and No credential**. The socio-demographic characteristics of post-secondary students who received mental health services are also examined. These characteristics include region, gender, age, Canadian citizenship and socio-economic status.

Providing new data, the report also profiles students who received mental health services by a range of government services, including health service use, justice system involvement, and income support. These students are also profiled by chronic condition status, injury/harm status, and disability status.

Key Findings

- Over the study period, about 7% of post-secondary students in Alberta received mental health services (approximately between 5,500 and 6,000 post-secondary students).

Among post-secondary students who received mental health services over the study period:

- between 11 and 13% had been high cost health service users, about 20% had received an injury/harm diagnosis, and around 15% had been diagnosed with a chronic condition (including either diabetes, asthma or cancer). All of these proportions were higher compared to the proportions among students who did not receive mental health services.
- rates of income support service use, corrections involvement, and students with disabilities were higher compared to students not receiving mental health services.
- a greater proportion of part-time compared to full-time students were diagnosed with an anxiety disorder (3.4%, part-time; 2.3% full-time) or depression (4.0% part-time; 2.3% full-time).

This report is part of the Longitudinal Project by the CYDL in collaboration with partnering Alberta government ministries. Please see the last page for a brief description of the project and go to <https://policywise.com/initiatives/cydl/P2> to access other deliverables.

Visit <https://visualization.policywise.com/P2dashboard> to view an interactive dashboard that summarizes this population. This report is a companion to the interactive dashboard.



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Background Literature

Providing a context for the current report, this section highlights select literature focusing on mental health and well-being among post-secondary students in Alberta, and nationally.

A post-secondary education is associated with positive life outcomes.¹ In addition to earning a higher than average income, individuals with a post-secondary credential can anticipate securing advanced employment opportunities¹. The road to achieving this success, however, is often paved with hardships and challenges that can take a toll on the mental well-being of learners. According to the 2016 National College Health Assessment survey, 18% of Canadian post-secondary students reported being diagnosed with anxiety, while 15% were diagnosed with depression over the last 12 months of being surveyed².

In general, poor mental health among post-secondary students has been on the rise, and as such, has become a growing concern^{3,4}. According to MacKean (2011), the rise may be due to several reasons. For example, post-secondary institutions can be high-stress environments which may impact students' mental well-being. In addition, early detection of mental health conditions means that more young people are entering into post-secondary education with a diagnosed mental health condition⁵. It has also been recognized that a greater number of students are seeking help for mental health problems². Furthermore, although many students may not be given a formal mental illness diagnosis, they are nevertheless "languishing given the stressors and challenging factors they experience everyday."⁶

Given this current climate, Alberta's major post-secondary institutions have responded to the need for increased funding toward timely and exhaustive mental health supports for students troubled by mental health issues³. In addition, *The Alberta Post-Secondary Mental Health and Addiction Framework* offers a number of recommendations for managing the mental health and well being of Alberta's post-secondary population. For example, the *Framework* recommends raising institutional awareness about mental health issues and reducing stigma for students identifying with a mental health condition. The *Framework* also emphasizes collecting data on the major mental health concerns of students, identifying at-risk students, and creating policies that focus on life coping skills and building resilience among students who have experienced mental health problems.⁶

Importantly, the current report responds to the *Framework's* recommendation to "regularly [review] evidence from various sources."⁽¹¹⁾⁶

By profiling Alberta's post-secondary students using mental health services, this report provides new data on government program involvement for post-secondary students using mental health services, including high cost health service use, chronic conditions, injury/harm status, disability status, justice system involvement, and income support.

Government of Canada's Definition of Mental Health

"The capacity of each and all of us to feel, think, and act in ways that enhance our ability to enjoy life and deal with the challenges we face. It is a positive sense of emotional and spiritual well-being that respects the importance of culture, equity, social justice, interconnections, and personal dignity" (Government of Canada, 2006: 2).⁷

FOOTNOTES: Ninety-five percent confidence intervals were calculated to enable comparison of statistical differences between groups. The Cochran-Armitage trend test was used to test trends over time. Only effects that apply to a meaningful proportion of the population were noted in the text. See <https://visualization.policywise.com/P2dashboard/PSMentalHealthStat.xlsx>

Mental health service use patterns in the general population (i.e., not enrolled in post-secondary studies) is considered in the following reports: *A profile of young Albertans using mental health services*, *A profile of young Albertans*, *A profile of income support clients*, *A profile of youth corrections involvement*, *A profile of young adult corrections involvement*. Mental health service use in the general population by disabilities status (table, page), chronic conditions (table, page) and injury diagnosis (table, page) is considered in the current report.

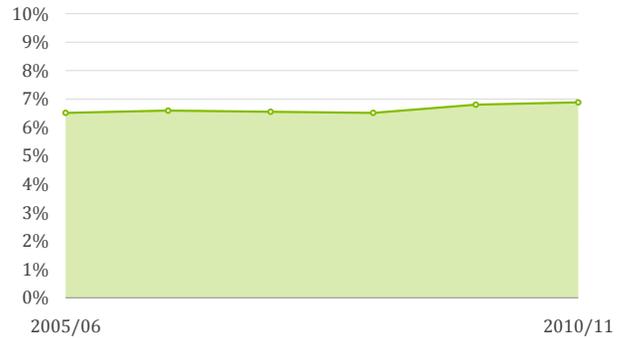
The data deliverables produced by the CYDL are not official reporting numbers generated for Alberta Advanced Education. Rather, this report deals with a subset of post-secondary data for the province. In addition, since the data was gathered for this project, there have been significant changes in the way that the department of Advanced Education reports on items such as credential type. For official enrolment numbers specific to the post-secondary system, see the department of Advanced Education's website at <http://www.iae.alberta.ca/ministry/stats/>

Mental Health Service Use Time Trend (Table 2; p. 10)

This graph represents the percentage of Alberta’s publicly-funded post-secondary students aged 18 to 25 who received a mental health service between 2005/06 to 2010/11. See page 32 for definition of mental health service use.

- About 7% of post-secondary students in Alberta received mental health services (between 5,500 and 6,000 post-secondary students over the study period).

Percentage of Alberta’s publicly-funded post-secondary students aged 18 to 25 who received a mental health service over time



Type of Mental Health Condition (Table 3; p. 10)

Type of Mental Health Condition

Number of post-secondary students by mental health condition in 2010/11

2,147	2,551	2,292
Anxiety	Depression	All Others

- Out of the total population of eligible* post-secondary students in 2010/11 (87,130), 2,147 (2.5%) were diagnosed with an anxiety disorder, 2,551 (2.9%) were diagnosed with depression, and 2,292 (2.6%) had been diagnosed with another type of mental health condition.

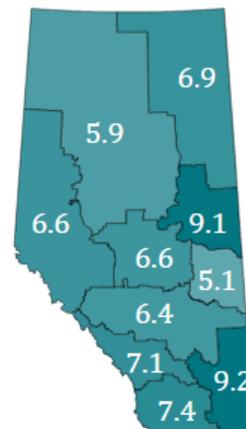
*Note that the post-secondary population in this report represents only those students who were full-time Alberta healthcare registrants.

Region (Table 4; p. 11)

This map represents the percentage of students who received mental health services out of the total eligible post-secondary population (18 to 25 years) within each Albertan region in 2010/11 (see page 33 for list of post-secondary regions).

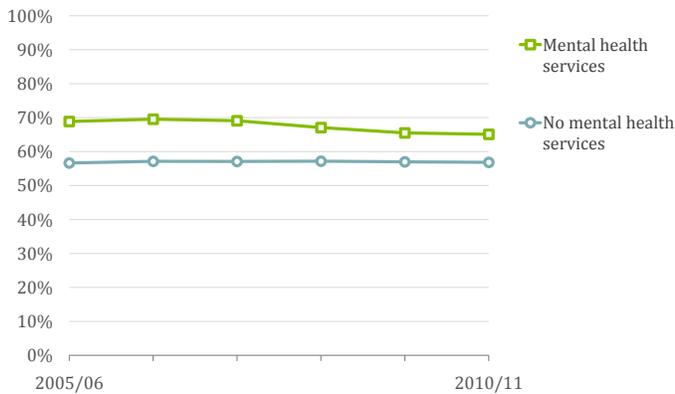
- Across Alberta, the proportion of students who received mental health services ranged between 5.1% (Lakeland) and 9.2% (Medicine Hat) in 2010/11.

Percentage of students using mental health services aged 18 to 25 by post-secondary regions in 2010/11



Mental health service use among post-secondary students in Alberta

Percentage of FEMALE students aged 18 to 25 by mental health service use over time



Gender by Mental Health Service Use (Table 5; p. 12)

This analysis represents the percentage of female post-secondary students (18 to 25 years) by mental health service use. See table 5, p. 12 for numbers and percentages for male post-secondary students.

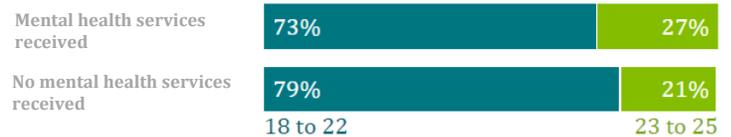
- Among students who used a mental health service, between 65% and 70% were female over the course of the study period.
- Among students who did not receive a mental health service, just under 60% were female over the study period.

Age by Mental Health Service Use (Table 6; p. 13)

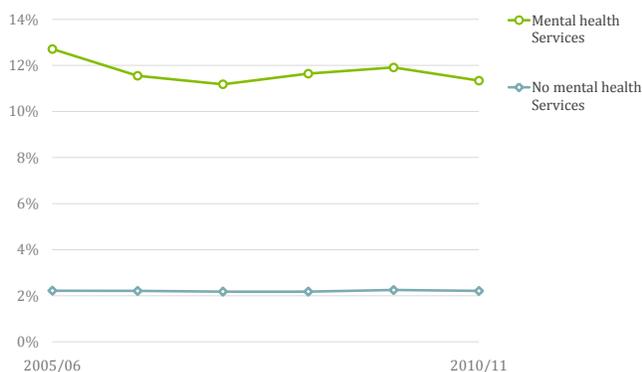
This analysis represents the percentage of post-secondary students who did and did not receive mental health services in 2010/11 by age groups.

- Among students who received mental health services, 73% were between 18 and 22 years, while over one-quarter were between 23 and 25 years in 2010/11.
- Among students who did not receive mental health service, almost 80% were between 18 and 22 years, while about 1 in 5 were represented among the 23 to 25 year old post-secondary student population.

Percentage of students aged 18 to 25 years by mental health service use status and age in 2010/11`



Percentage of students aged 18 to 25 using high cost health services by mental health service use over time



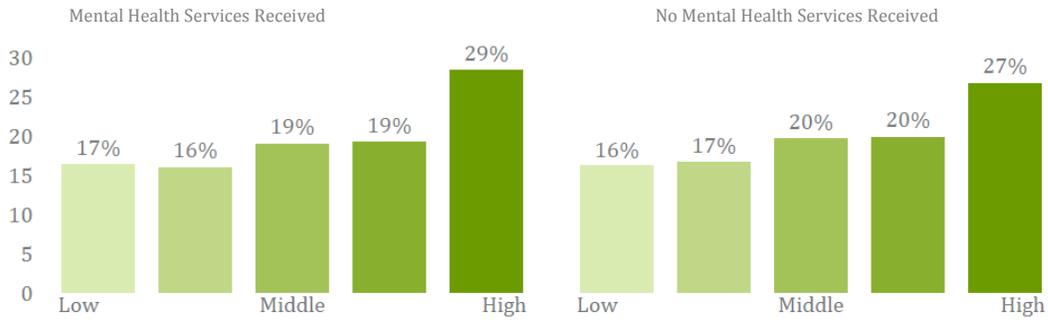
High Cost Health Service Use by Mental Health Service Use (Table 7; p. 14)

- Among students who used mental health services, between 11 and 13% had been high cost health service users over the study period.

In contrast,

- Among students who did not use mental health services, just over 2% had been high cost health service users over the study period.

Socio-economic status (SES) by Mental Health Service Use in 2010/11 (Table 8; p. 15)



In 2010/11:

- 29% of students who received mental health services lived in the highest socio-economic status neighborhoods, while 27% who did not receive mental health services lived in the same SES status neighborhoods.
- In general, the distribution pattern of all five socio-economic groups were similar between students who received and students who did not receive mental health services.

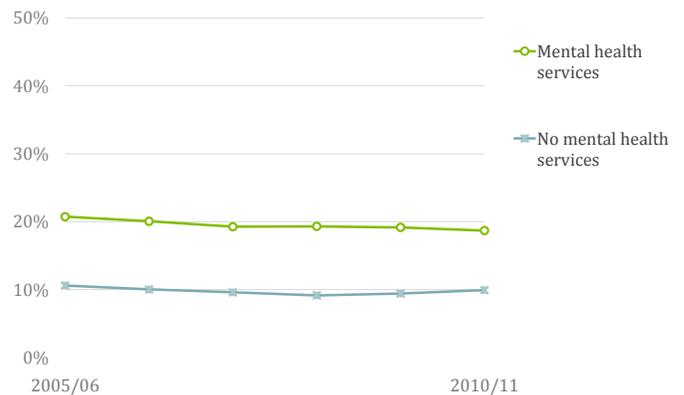
Injury/Harm by Mental Health Service Use (Table 9a; p. 16)

Over the study period:

- Among students who received mental health services, approximately 20% had received an injury/harm diagnosis.
- Among students who did not receive mental health services, around 10% had received an injury/harm diagnosis.

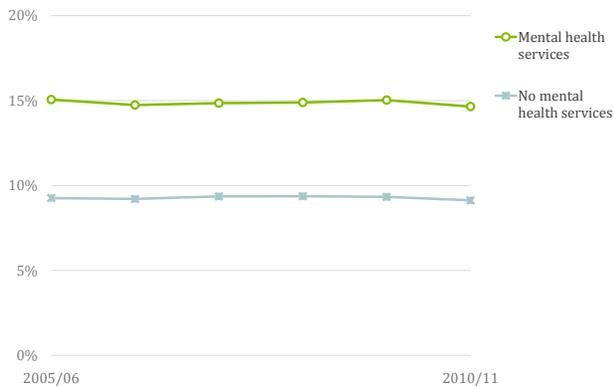
For the definition of “Injury/Harm”, see page 32. Proportions for Albertans not enrolled in post-secondary institutions are shown in table 9b, p. 16

Percentage of students aged 18 to 25 who received an injury/harm diagnosis by mental health service use over time



Mental health service use among post-secondary students in Alberta

Percentage of students aged 18 to 25 who had a chronic health condition by mental health service use over time



Chronic Conditions by Mental Health Service Use (Table 10a; p. 17)

This analysis includes students who had either an asthma or diabetes or cancer diagnosis.

Over the study period:

- Among students who used a mental health service, approximately 15% had been diagnosed with a chronic condition.

In contrast,

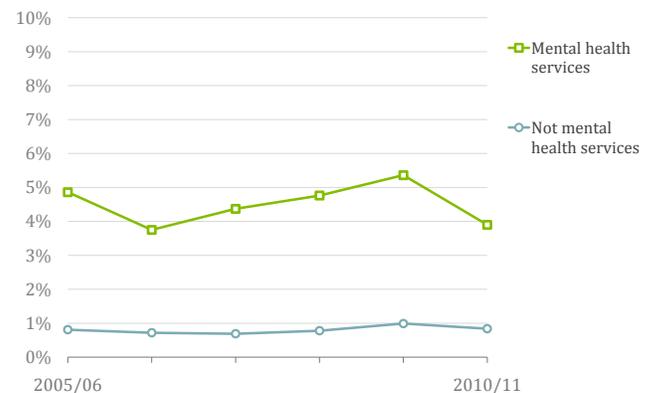
- Among students who did not receive mental health services, under 10% had a chronic condition.

Proportions for Albertans not enrolled in post-secondary institutions are shown in table 10b, p. 17

Income Support Recipients by Mental Health Service Use (Table 11; p. 18)

- Among students who used mental health services, rates of income support service use fluctuated between 3.7% and 5.4% over the study period.
- Among students who did not receive mental health services, rates of income support service use were around 1% over time.

Percentage of students aged 18 to 25 who were income support recipients by mental health service use over time



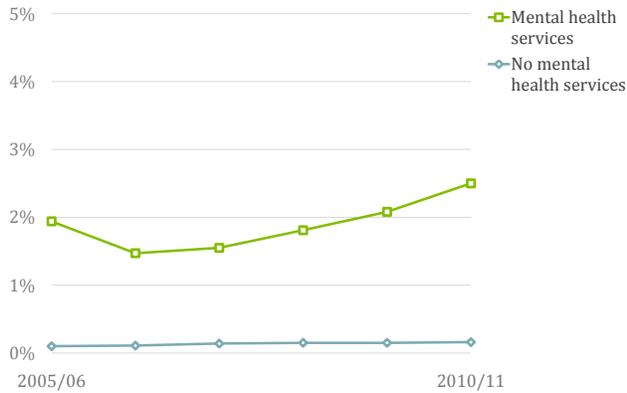
Percentage of students aged 18 to 25 who had corrections involvement by mental health service use over time



Corrections Involvement by Mental Health Service Use (Table 12; p. 19)

- Among students who received mental health services, rates of corrections involvement fluctuated between 2.6% and 3.7% over the study period.
- Among students who did not receive mental health services, rates of corrections involvement were around 1% over time.

Percentage of students aged 18 to 25 who had a diagnosed disability by mental health service use over time



Disabilities by Mental Health Service Use (Table 13a; p. 20)

- Among students who used mental health services, rates of individuals with disabilities rose steadily between 1.5% in 2006/07 and 2.5% in 2010/11.
- Among students who did not receive mental health services, rates of individuals with disabilities were between 0.10% and 0.16% over the study period.

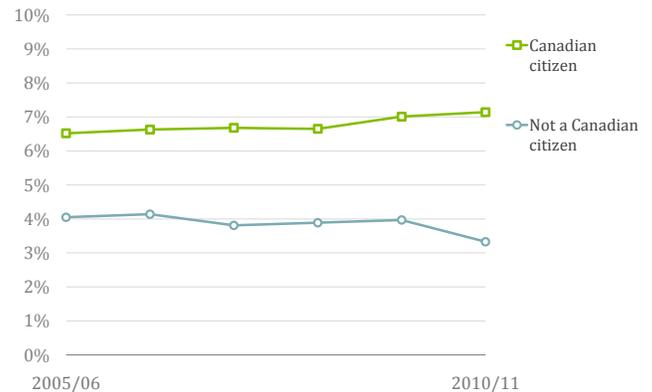
See page 31 for “Disabilities” definition. Proportions for Albertans not enrolled in post-secondary institutions are shown in table 13b, p. 20

Canadian citizen by Mental Health Service Use (Table 14; p. 21)

- Between 2005/06 and 2010/11, a greater proportion of Canadian students (between 6.5% and 7.1%) received mental health services compared to non-Canadian students (between 3.3% and 4.1%).
- The proportion of non-Canadian students receiving mental health services dropped in 2010/11 to 3.3%.

See page 31 for definition of “Canadian citizen”

Percentage of students aged 18 to 25 who used mental health services by Canadian citizenship status over time



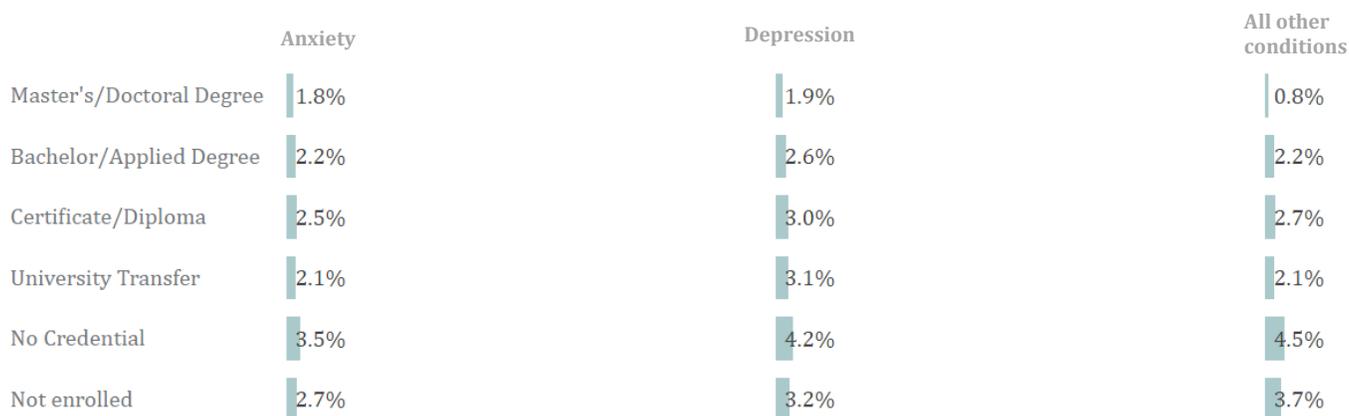
Enrolment Type by Type of Mental Health Condition in 2010/11 (Table 15, 16 and 17; pp. 22, 23, and 24)



In 2010/11:

- A greater proportion of part-time(3.4%) compared to full-time (2.3%) students were diagnosed with an anxiety disorder.
- A greater proportion of part-time(4.0%) compared to full-time (2.7%) students were diagnosed with depression.
- A greater proportion of part-time (3.8%) compared to full-time (2.4%) students had been diagnosed with a mental health condition (other than or in addition to anxiety or depression).

Credential Type by Type of Mental Health Condition in 2010/11 (Table 18, 19, and 20 pp. 25, 26, and 27)



In 2010/11:

- Anxiety (3.5%), depression (4.2%) and all other mental health conditions (4.5%) were more prevalent among students not pursuing a credential (but enrolled in post-secondary studies).
- Compared to students pursuing other credential types, anxiety (1.8%), depression (1.9%), and all other mental health conditions (0.8%) were the least prevalent among students (between 18 and 25 years) pursuing a master's or doctoral degree.

Institution Sector by Type of Mental Health Condition in 2010/11

(Table 21, 22 and 23; pp. 28, 29, and 30)

	ANXIETY	DEPRESSION	ALL OTHERS
Comprehensive Academic and Research	2.1%	2.5%	2.1%
Baccalaureate and Applied Studies	2.9%	3.4%	3.1%
Comprehensive Community	3.2%	4.2%	3.8%
Polytechnical	2.1%	2.3%	2.3%
Independent/Arts	3.0%	3.1%	3.1%
Not enrolled	2.7%	3.2%	3.7%

In 2010/11:

- Compared to individuals not enrolled in post-secondary institutions, a lower proportion of students enrolled in comprehensive academic/research institutions and polytechnical institutions were diagnosed with an anxiety disorder, depression, or any other mental health condition.
- Compared to individuals not enrolled in post-secondary institutions and students enrolled in other institutions, depression was more prevalent among students enrolled in comprehensive community institutions (4.2%).

For further details regarding institution sectors, see page 34.

Tables

TABLE 1: The number and percentage of students aged 18 to 25 years enrolled in Alberta's publicly-funded post-secondary institutions by study year

Post-secondary students	Study year					
	2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Number of students	119,039	119,192	121,407	122,574	127,427	130,585
Total population (18 to 25 years)	413,016	430,495	440,181	449,572	453,676	455,196
Percentage of the total population enrolled in a post-secondary institution	28.82	27.69	27.58	27.26	28.09	28.69

TABLE 2: The number and percentage of students aged 18 to 25 years enrolled in Alberta's publicly-funded post-secondary institutions with a mental health condition by study year

Post-secondary students with a mental health condition	Study year					
	2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Number of students with a mental health condition	5,578	5,522	5,491	5,466	5,863	5,998
Total population of eligible students*	85668	83742	83836	83938	86255	87130
Percentage of students with a mental health condition	6.51	6.59	6.55	6.51	6.80	6.88

Note: In this report being a recipient of mental health services depended on being a full-time Alberta health care registrant. Therefore, students that are not registered full time in the health care registry are not considered in this report.

TABLE 3: The number and percentage of students aged 18 to 25 years enrolled in Alberta's publicly-funded post-secondary institutions by mental health disorder diagnosis and study year

Post-secondary students with a mental health condition	Study year					
	2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Number of students						
Anxiety	1,968	1,888	1,944	1,919	2,083	2,147
Depression	2,616	2,466	2,507	2,426	2,507	2,551
All other mental health conditions	1,915	1,897	1,885	1,967	2,271	2,292
Percentage of students						
Anxiety	35.28	34.19	35.40	35.11	35.53	35.80
Depression	46.90	44.66	45.66	44.38	42.76	42.53
All other mental health conditions	34.33	34.35	34.33	35.99	38.73	38.21

Note: Totals are not reported as categories are not mutually exclusive.

TABLE 4: The number and percentage of students (aged 18 to 25 years) enrolled in Alberta's publicly-funded post-secondary institutions who used mental health services by study year and region

Post-secondary regions	Study year					
	2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Number of students who used mental health services by region	2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Calgary	2,071	2,118	2,149	2,156	2,291	2,426
Central	315	320	310	338	344	360
Edmonton	2,187	2,144	2,025	1,977	2,169	2,172
Grande Prairie	134	132	127	123	146	150
Keyano	82	86	77	75	125	92
Lakeland	64	52	60	60	59	64
Lethbridge	299	260	319	310	313	314
Medicine Hat	183	194	209	206	192	215
Northern Lakes	134	99	117	110	107	57
Portage	109	117	98	111	117	148
Total number of post-secondary students in region	2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Calgary	31,989	31,463	32,103	32,834	33,752	34,365
Central	5,280	5,104	5,198	5,306	5,454	5,652
Edmonton	33,674	32,999	32,158	31,852	32,683	33,119
Grande Prairie	2,205	2,120	2,253	2,212	2,372	2,258
Keyano	1,153	1,115	1,244	1,172	1,286	1,340
Lakeland	1,268	1,166	1,193	1,204	1,240	1,265
Lethbridge	4,757	4,534	4,488	4,247	4,285	4,220
Medicine Hat	2,337	2,338	2,335	2,266	2,299	2,328
Northern Lakes	1,392	1,296	1,319	1,312	1,330	962
Portage	1,613	1,607	1,545	1,533	1,553	1,618
Percentage of students who used mental health services by region	2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Calgary	6.47	6.73	6.69	6.57	6.79	7.06
Central	5.97	6.27	5.96	6.37	6.31	6.37
Edmonton	6.49	6.50	6.30	6.21	6.64	6.56
Grande Prairie	6.08	6.23	5.64	5.56	6.16	6.64
Keyano	7.11	7.71	6.19	6.40	9.72	6.87
Lakeland	5.05	4.46	5.03	4.98	4.76	5.06
Lethbridge	6.29	5.73	7.11	7.30	7.30	7.44
Medicine Hat	7.83	8.30	8.95	9.09	8.35	9.24
Northern Lakes	9.63	7.64	8.87	8.38	8.05	5.93
Portage	6.76	7.28	6.34	7.24	7.53	9.15

Mental health service use among post-secondary students in Alberta

TABLE 5: The number and percentage of students (aged 18 to 25 years) enrolled in Alberta's publicly-funded post-secondary institutions by mental health services received, gender, and study year

Mental health services received	Gender	Study year					
		2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Number of students		2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Mental health services received	Female	3,842	3,840	3,795	3,667	3,842	3,905
	Male	1,736	1,682	1,696	1,799	2,021	2,093
	Total	5,578	5,522	5,491	5,466	5,863	5,998
No mental health services received	Female	45,369	44,691	44,724	44,857	45,826	46,120
	Male	34,721	33,529	33,621	33,615	34,566	35,012
	Total	80,090	78,220	78,345	78,472	80,392	81,132
Percentage of students		2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Mental health services received	Female	68.88	69.54	69.11	67.09	65.53	65.11
	Male	31.12	30.46	30.89	32.91	34.47	34.89
	Total	100	100	100	100	100	100
No mental health services received	Female	56.65	57.14	57.09	57.16	57	56.85
	Male	43.35	42.86	42.91	42.84	43.00	43.15
	Total	100	100	100	100	100	100

TABLE 6: The number and percentage of students (aged 18 to 25 years) enrolled in Alberta's publicly-funded post-secondary institutions by mental health services received, age groups and study year

Mental health services received	Age in years	Study year					
		2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Number of students		2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Mental health services received	18 to 22	4,158	4,108	4,081	4,057	4,355	4,408
	23 to 25	1,420	1,414	1,410	1,409	1,508	1,590
	Total	5,578	5,522	5,491	5,466	5,863	5,998
No mental health services received	18 to 22	64,705	62,891	63,080	62,728	63,582	64,021
	23 to 25	15,385	15,329	15,265	15,744	16,810	17,111
	Total	80,090	78,220	78,345	78,472	80,392	81,132
Percentage of students		2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Mental health services received	18 to 22	74.54	74.39	74.32	74.22	74.28	73.49
	23 to 25	25.46	25.61	25.68	25.78	25.72	26.51
	Total	100	100	100	100	100	100
No mental health services received	18 to 22	80.79	80.40	80.52	79.94	79.09	78.91
	23 to 25	19.21	19.60	19.48	20.06	20.91	21.09
	Total	100	100	100	100	100	100

Mental health service use among post-secondary students in Alberta

TABLE 7: The number and percentage of students (aged 18 to 25 years) enrolled in Alberta's publicly-funded post-secondary institutions by mental health services received, high cost health service use, and study year

Mental health services received		High cost health user		Study year			
Number of students		2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Mental health services received	Yes	709	638	614	636	698	680
	No	1777	1727	1704	1707	1805	1790
	Total	2,486	2,365	2,318	2,343	2,503	2,470
No mental health services received	Yes	4869	4884	4876	4828	5163	5316
	No	78,311	76,492	76,639	76,762	78,583	79,338
	Total	83180	81376	81515	81590	83746	84654
Percentage of students		2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Mental health services received	Yes	12.71	11.55	11.18	11.64	11.91	11.34
	No	87.29	88.45	88.82	88.36	88.09	88.66
	Total	100	100	100	100	100	100
No mental health services received	Yes	2.22	2.21	2.18	2.18	2.25	2.21
	No	97.78	97.79	97.82	97.82	97.75	97.79
	Total	100	100	100	100	100	100

TABLE 8: The number and percentage of students (aged 18 to 25 years) enrolled in Alberta's publicly-funded post-secondary institutions by mental health services received, socio-economic status, and study year

Mental health services received		Socio-economic status		Study year			
Number of students		2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Mental health services received	Lowest	1082	995	1002	952	1010	965
	Low middle	973	890	895	940	942	949
	Middle	1056	1045	1011	1064	1075	1123
	High middle	975	1,004	987	979	1,171	1,132
	Highest	1313	1421	1435	1380	1499	1667
No mental health services received	Lowest	14042	13369	13095	12680	12971	12892
	Low middle	14,171	13,588	13,167	13,223	13,389	13,341
	Middle	15868	15355	15095	15104	15389	15655
	High middle	14,042	14,029	14,678	14,869	15,397	15,907
	Highest	19911	19885	20347	20651	21172	21339
Percentage of students		2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Mental health services received	Lowest	20.04	18.58	18.8	17.91	17.73	16.54
	Low middle	18.02	16.62	16.79	17.69	16.54	16.26
	Middle	19.56	19.51	18.97	20.02	18.87	19.24
	High middle	18.06	18.75	18.52	18.42	20.55	19.40
	Highest	24.32	26.54	26.92	25.96	26.31	28.56
No mental health services received	Total	100	100	100	100	100	100
	Lowest	17.99	17.54	17.14	16.57	16.56	16.29
	Low middle	18.16	17.83	17.24	17.28	17.10	16.86
	Middle	20.33	20.14	19.76	19.74	19.65	19.78
	High middle	17.99	18.40	19.22	19.43	19.66	20.10
	Highest	25.52	26.09	26.64	26.99	27.03	26.97
	Total	100	100	100	100	100	100

Mental health service use among post-secondary students in Alberta

TABLE 9a: The number and percentage of students (aged 18 to 25 years) enrolled in Alberta's publicly-funded post-secondary institutions by mental health services received, injury/harm diagnosis, and study year

Mental health services received	Injury/harm diagnosis	Study year					
		2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Number of students		2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Mental health services received	Yes	1,157	1,108	1,058	1,055	1,123	1,121
	No	4,421	4,414	4,432	4,409	4,738	4,875
	Total	5,578	5,522	5,490	5,464	5,861	5,996
No mental health services received	Yes	8,493	7,857	7,529	7,180	7,576	8,056
	No	71,595	70,362	70,814	71,289	72,812	73,072
	Total	80,088	78,219	78,343	78,469	80,388	81,128
Percentage of students		2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Mental health services received	Yes	20.74	20.07	19.27	19.31	19.16	18.70
	No	79.26	79.93	80.73	80.69	80.84	81.30
	Total	100	100	100	100	100	100
No mental health services received	Yes	10.60	10.04	9.61	9.15	9.42	9.93
	No	89.40	89.96	90.39	90.85	90.58	90.07
	Total	100	100	100	100	100	100

TABLE 9b: The number and percentage of Albertans (aged 18 to 25 years) not enrolled in Alberta's publicly-funded post-secondary institutions (PS) by mental health services received, injury/harm diagnosis, and study year

Mental health services received	Injury/harm diagnosis	Study year					
		2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Number of Albertans not enrolled in PS		2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Mental health services received	Yes	5,867	6,142	6,158	6,128	6,126	6,366
	No	13,426	13,885	14,467	15,124	15,475	15,666
	Total	19,293	20,027	20,625	21,252	21,601	22,032
No mental health services received	Yes	35,605	36,088	36,236	35,466	34,490	35,904
	No	182,637	189,106	198,936	210,626	218,888	220,421
	Total	218,242	225,194	235,172	246,092	253,378	256,325
Percentage of Albertans not enrolled in PS		2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Mental health services received	Yes	30.41	30.67	29.86	28.83	28.36	28.89
	No	69.59	69.33	70.14	71.17	71.64	71.11
	Total	100	100	100	100	100	100
No mental health services received	Yes	16.31	16.03	15.41	14.41	13.61	14.01
	No	83.69	83.97	84.59	85.59	86.39	85.99
	Total	100	100	100	100	100	100

TABLE 10a: The number and percentage of students (aged 18 to 25 years) enrolled in Alberta's publicly-funded post-secondary institutions by mental health services received, chronic condition, and study year

Mental health services received	Chronic condition	Study year					
		2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Number of students		2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Mental health services received	Yes	840	814	815	814	881	879
	No	4,738	4,708	4,675	4,652	4,981	5,119
	Total	5,578	5,522	5,490	5,466	5,862	5,998
No mental health services received	Yes	7,413	7,206	7,332	7,354	7,500	7,411
	No	72,677	71,014	71,012	71,118	72,892	73,721
	Total	80,090	78,220	78,344	78,472	80,392	81,132
Percentage of students		2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Mental health services received	Yes	15.06	14.74	14.85	14.89	15.03	14.65
	No	84.94	85.26	85.15	85.11	84.97	85.35
	Total	100	100	100	100	100	100
No mental health services received	Yes	9.26	9.21	9.36	9.37	9.33	9.13
	No	90.74	90.79	90.64	90.63	90.67	90.87
	Total	100	100	100	100	100	100

TABLE 10b: The number and percentage of Albertans (aged 18 to 25 years) not enrolled in Alberta's publicly-funded post-secondary institutions (PS) by mental health services received, chronic condition, and study year

Mental health services received	Chronic condition	Study year					
		2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Number of Albertans not enrolled in PS		2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Mental health services received	Yes	3,197	3,419	3,406	3,514	3,485	3,578
	No	16,133	16,661	17,273	17,797	18,189	18,524
	Total	19,330	20,080	20,679	21,311	21,674	22,102
No mental health services received	Yes	19,672	20,521	21,334	22,150	22,324	22,380
	No	198,672	204,785	213,956	224,062	231,173	234,075
	Total	218,344	225,306	235,290	246,212	253,497	256,455
Percentage of Albertans not enrolled in PS		2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Mental health services received	Yes	16.54	17.03	16.47	16.49	16.08	16.19
	No	83.46	82.97	83.53	83.51	83.92	83.81
	Total	100	100	100	100	100	100
No mental health services received	Yes	9.01	9.11	9.07	9.00	8.81	8.73
	No	90.99	90.89	90.93	91.00	91.19	91.27
	Total	100	100	100	100	100	100

Mental health service use among post-secondary students in Alberta

TABLE 11: The number and percentage of students (aged 18 to 25 years) enrolled in Alberta's publicly-funded post-secondary institutions by mental health services received, income support recipient status, and study year

Mental health services received	Income support recipient	Study year					
		2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Number of students		2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Mental health services received	Yes	271	207	240	260	314	234
	No	5,307	5,315	5,251	5,206	5,549	5,764
	Total	5,578	5,522	5,491	5,466	5,863	5,998
No mental health services received	Yes	651	565	537	612	797	679
	No	79,439	77,655	77,808	77,860	79,595	80,453
	Total	80,090	78,220	78,345	78,472	80,392	81,132
Percentage of students		2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Mental health services received	Yes	4.86	3.75	4.37	4.76	5.36	3.90
	No	95.14	96.25	95.63	95.24	94.64	96.10
	Total	100	100	100	100	100	100
No mental health services received	Yes	0.81	0.72	0.69	0.78	0.99	0.84
	No	99.19	99.28	99.31	99.22	99.01	99.16
	Total	100	100	100	100	100	100

TABLE 12: The number and percentage of students (aged 18 to 25 years) enrolled in Alberta's publicly-funded post-secondary institutions by mental health services received, corrections involvement, and study year

Mental health services received	Corrections involvement	Study year					
		2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Number of students		2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Mental health services received	Yes	207	178	143	161	182	135
	No	5,371	5,344	5,348	5,305	5,681	5,863
	Total	5,578	5,522	5,491	5,466	5,863	5,998
No mental health services received	Yes	648	732	602	647	758	801
	No	79,442	77,488	77,743	77,825	79,634	80,331
	Total	80,090	78,220	78,345	78,472	80,392	81,132
Percentage of students		2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Mental health services received	Yes	3.71	3.22	2.60	2.95	3.10	2.25
	No	96.29	96.78	97.40	97.05	96.90	97.75
	Total	100	100	100	100	100	100
No mental health services received	Yes	0.81	0.94	0.77	0.82	0.94	0.99
	No	99.19	99.06	99.23	99.18	99.06	99.01
	Total	100	100	100	100	100	100

Mental health service use among post-secondary students in Alberta

TABLE 13a: The number and percentage of students (aged 18 to 25 years) enrolled in Alberta's publicly-funded post-secondary institutions by mental health services received, disabilities status, and study year

Mental health services received	Disabilities	Study year					
		2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Number of students		2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Mental health services received	Yes	108	81	85	99	122	150
	No	5,470	5,441	5,406	5,367	5,741	5,848
	Total	5,578	5,522	5,491	5,466	5,863	5,998
No mental health services received	Yes	77	84	109	116	119	130
	No	80,013	78,136	78,236	78,356	80,273	81,002
	Total	80,090	78,220	78,345	78,472	80,392	81,132
Percentage of students		2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Mental health services received	Yes	1.94	1.47	1.55	1.81	2.08	2.50
	No	98.06	98.53	98.45	98.19	97.92	97.50
	Total	100	100	100	100	100	100
No mental health services received	Yes	0.10	0.11	0.14	0.15	0.15	0.16
	No	99.90	99.89	99.86	99.85	99.85	99.84
	Total	100	100	100	100	100	100

TABLE 13b: The number and percentage of Albertans (aged 18 to 25 years) not enrolled in Alberta's publicly-funded post-secondary institutions (PS) by mental health services received, disabilities status, and study year

Mental health services received	Disabilities	Study year					
		2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Number of Albertans not enrolled in PS		2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Mental health services received	Yes	1,333	1,449	1,642	1,778	1,987	2,200
	No	17,999	18,632	19,038	19,535	19,691	19,904
	Total	19,332	20,081	20,680	21,313	21,678	22,104
No mental health services received	Yes	1,898	2,006	2,066	2,122	2,223	2,340
	No	216,446	223,300	233,224	244,090	251,274	254,115
	Total	218,344	225,306	235,290	246,212	253,497	256,455
Percentage of Albertans not enrolled in PS		2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Mental health services received	Yes	6.90	7.22	7.94	8.34	9.17	9.95
	No	93.10	92.78	92.06	91.66	90.83	90.05
	Total	100	100	100	100	100	100
No mental health services received	Yes	0.87	0.89	0.88	0.86	0.88	0.91
	No	99.13	99.11	99.12	99.14	99.12	99.09
	Total	100	100	100	100	100	100

TABLE 14: The number and percentage of students (aged 18 to 25 years) receiving mental health services by Canadian citizenship status, and study year

Canadian citizenship	Mental health services received	Study year					
		2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Number of students		2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Canadian	Yes	5,186	5,167	5,247	5,186	5,626	5,723
	No	74,383	72,774	73,312	72,791	74,629	74,456
	Total	79,569	77,941	78,559	77,977	80,255	80,179
Not a Canadian	Yes	172	183	181	207	237	215
	No	4,072	4,241	4,569	5,118	5,737	6,238
	Total	4,244	4,424	4,750	5,325	5,974	6,453
Percentage of students		2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Mental health services received	Yes	6.52	6.63	6.68	6.65	7.01	7.14
	No	93.48	93.37	93.32	93.35	92.99	92.86
	Total	100	100	100	100	100	100
No mental health services received	Yes	4.05	4.14	3.81	3.89	3.97	3.33
	No	95.95	95.86	96.19	96.11	96.03	96.67
	Total	100	100	100	100	100	100

Mental health service use among post-secondary students in Alberta

TABLE 15: The number and percentage of students (aged 18 to 25 years) enrolled in Alberta's publicly-funded post-secondary institutions by enrolment status, anxiety disorder diagnosis, and study year

Enrolment status	Anxiety	Study year					
		2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Number of students		2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Full time	Yes	1479	1467	1501	1424	1610	1659
	No	69084	67932	68186	68488	70148	71464
	Total	70,563	69,399	69,687	69,912	71,758	73,123
Part time	Yes	456	394	412	456	425	444
	No	13802	13228	12925	12607	12903	12553
	Total	14,258	13,622	13,337	13,063	13,328	12,997
Not enrolled	Yes	6287	6380	6545	7020	7392	7556
	No	231384	239002	249418	260499	267774	270998
	Total	237,671	245,382	255,963	267,519	275,166	278,554
Percentage of students		2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Full time	Yes	2.1	2.11	2.15	2.04	2.24	2.27
	No	97.9	97.89	97.85	97.96	97.76	97.73
	Total	100	100	100	100	100	100
Part time	Yes	3.2	2.89	3.09	3.49	3.19	3.42
	No	96.8	97.11	96.91	96.51	96.81	96.58
	Total	100	100	100	100	100	100
Not enrolled	Yes	2.65	2.6	2.56	2.62	2.69	2.71
	No	97.35	97.4	97.44	97.38	97.31	97.29
	Total	100	100	100	100	100	100

TABLE 16: The number and percentage of students (aged 18 to 25 years) enrolled in Alberta's publicly-funded post-secondary institutions by enrolment status, depression diagnosis, and study year

Enrolment status	Depression	Study year					
		2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Number of students		2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Full time	Yes	1963	1896	1921	1796	1904	1964
	No	68599	67503	67766	68113	69850	71157
	Total	70,562	69,399	69,687	69,909	71,754	73,121
Part time	Yes	607	539	545	588	536	517
	No	13650	13082	12791	12473	12791	12476
	Total	14,257	13,621	13,336	13,061	13,327	12,993
Not enrolled	Yes	8547	8878	8832	8910	8879	8934
	No	228988	236343	246965	258434	266100	269423
	Total	237,535	245,221	255,797	267,344	274,979	278,357
Percentage of students		2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Full time	Yes	2.78	2.73	2.76	2.57	2.65	2.69
	No	97.22	97.27	97.24	97.43	97.35	97.31
	Total	100	100	100	100	100	100
Part time	Yes	4.26	3.96	4.09	4.5	4.02	3.98
	No	95.74	96.04	95.91	95.5	95.98	96.02
	Total	100	100	100	100	100	100
Not enrolled	Yes	3.6	3.62	3.45	3.33	3.23	3.21
	No	96.4	96.38	96.55	96.67	96.77	96.79
	Total	100	100	100	100	100	100

Mental health service use among post-secondary students in Alberta

TABLE 17: The number and percentage of students (aged 18 to 25 years) enrolled in Alberta's publicly-funded post-secondary institutions by enrolment status, all other mental health conditions*, and study year

Enrolment status	All other mental health conditions	Study year					
		2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Number of students		2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Full time	Yes	1344	1380	1408	1462	1715	1734
	No	69219	68019	68280	68450	70044	71389
	Total	70563	69399	69688	69912	71759	73123
Part time	Yes	530	490	444	476	501	497
	No	13728	13132	12894	12587	12827	12500
	Total	14258	13622	13338	13063	13328	12997
Not enrolled	Yes	8447	8761	9074	9521	9851	10261
	No	229229	236626	246896	258004	265324	268298
	Total	237676	245387	255970	267525	275175	278559
Percentage of students		2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Full time	Yes	1.9	1.99	2.02	2.09	2.39	2.37
	No	98.1	98.01	97.98	97.91	97.61	97.63
	Total	100	100	100	100	100	100
Part time	Yes	3.72	3.6	3.33	3.64	3.76	3.82
	No	96.28	96.4	96.67	96.36	96.24	96.18
	Total	100	100	100	100	100	100
Not enrolled	Yes	3.55	3.57	3.54	3.56	3.58	3.68
	No	96.45	96.43	96.46	96.44	96.42	96.32
	Total	100	100	100	100	100	100

*Note : This analysis considers students diagnosed with a mental health condition other than anxiety or depression.

TABLE 18: The number and percentage of students (aged 18 to 25 years) enrolled in Alberta's publicly-funded post-secondary institutions by credential type, anxiety disorder diagnosis, and study year

Credential Type	Anxiety	Study year					
		2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Number of students		2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Master's/Doctoral	Yes	22	25	21	25	35	29
	No	1,077	1,083	1,172	1,228	1,420	1,558
	Total	1,099	1,108	1,193	1,253	1,455	1,587
Bachelor/Applied	Yes	801	869	926	898	984	1,082
	No	40,294	41,791	42,620	44,084	46,431	47,968
	Total	41,095	42,660	43,546	44,982	47,415	49,050
Certificate/Diploma	Yes	472	445	455	463	502	506
	No	21,539	20,592	19,872	19,756	19,763	19,680
	Total	22,011	21,037	20,327	20,219	20,265	20,186
University Transfer	Yes	162	106	94	82	68	68
	No	7,759	5,974	5,722	4,102	3,119	3,194
	Total	7,921	6,080	5,816	4,184	3,187	3,262
No Credential	Yes	511	443	448	451	494	462
	No	13,031	12,414	12,504	12,849	13,438	12,583
	Total	13,542	12,857	12,952	13,300	13,932	13,045
Not enrolled	Yes	6,287	6,380	6,545	7,020	7,392	7,556
	No	231,384	239,002	249,418	260,499	267,774	270,998
	Total	237,671	245,382	255,963	267,519	275,166	278,554
Percentage of students		2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Master's/Doctoral	Yes	2	2.26	1.76	2	2.41	1.83
	No	98	97.74	98.24	98	97.59	98.17
	Total	100	100	100	100	100	100
Bachelor/Applied	Yes	1.95	2.04	2.13	2	2.08	2.21
	No	98.05	97.96	97.87	98	97.92	97.79
	Total	100	100	100	100	100	100
Certificate/Diploma	Yes	2.14	2.12	2.24	2.29	2.48	2.51
	No	97.86	97.88	97.76	97.71	97.52	97.49
	Total	100	100	100	100	100	100
University Transfer	Yes	2.05	1.74	1.62	1.96	2.13	2.08
	No	97.95	98.26	98.38	98.04	97.87	97.92
	Total	100	100	100	100	100	100
No Credential	Yes	3.77	3.45	3.46	3.39	3.55	3.54
	No	96.23	96.55	96.54	96.61	96.45	96.46
	Total	100	100	100	100	100	100
Not enrolled	Yes	2.65	2.6	2.56	2.62	2.69	2.71
	No	97.35	97.4	97.44	97.38	97.31	97.29
	Total	100	100	100	100	100	100

Mental health service use among post-secondary students in Alberta

TABLE 19: The number and percentage of students (aged 18 to 25 years) enrolled in Alberta's publicly-funded post-secondary institutions by credential type, depression diagnosis, and study year

Credential Type	Depression	Study year					
		2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Number of students		2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Master's/Doctoral	Yes	23	27	28	32	31	30
	No	1076	1081	1165	1221	1424	1557
	Total	1099	1108	1193	1253	1455	1587
Bachelor/Applied	Yes	1054	1107	1088	1096	1163	1261
	No	40041	41553	42458	43885	46252	47787
	Total	41095	42660	43546	44981	47415	49048
Certificate/Diploma	Yes	629	578	632	612	609	609
	No	21382	20459	19695	19607	19654	19576
	Total	22011	21037	20327	20219	20263	20185
University Transfer	Yes	239	198	173	108	85	101
	No	7682	5882	5643	4076	3102	3161
	Total	7921	6080	5816	4184	3187	3262
No Credential	Yes	671	556	586	578	619	550
	No	12869	12300	12365	12718	13310	12492
	Total	13540	12856	12951	13296	13929	13042
Not enrolled	Yes	8547	8878	8832	8910	8879	8934
	No	228988	236343	246965	258434	266100	269423
	Total	237,535	245,221	255,797	267,344	274,979	278,357
Percentage of students		2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Master's/Doctoral	Yes	2.09	2.44	2.35	2.55	2.13	1.89
	No	97.91	97.56	97.65	97.45	97.87	98.11
	Total	100	100	100	100	100	100
Bachelor/Applied	Yes	2.56	2.59	2.5	2.44	2.45	2.57
	No	97.44	97.41	97.5	97.56	97.55	97.43
	Total	100	100	100	100	100	100
Certificate/Diploma	Yes	2.86	2.75	3.11	3.03	3.01	3.02
	No	97.14	97.25	96.89	96.97	96.99	96.98
	Total	100	100	100	100	100	100
University Transfer	Yes	3.02	3.26	2.97	2.58	2.67	3.1
	No	96.98	96.74	97.03	97.42	97.33	96.9
	Total	100	100	100	100	100	100
No Credential	Yes	4.96	4.32	4.52	4.35	4.44	4.22
	No	95.04	95.68	95.48	95.65	95.56	95.78
	Total	100	100	100	100	100	100
Not enrolled	Yes	3.6	3.62	3.45	3.33	3.23	3.21
	No	96.4	96.38	96.55	96.67	96.77	96.79
	Total	100	100	100	100	100	100

TABLE 20: The number and percentage of students (aged 18 to 25 years) enrolled in Alberta's publicly-funded post-secondary institutions by credential type, all other mental health conditions*, and study year

Credential Type	All other mental health conditions	Study year					
		2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Number of students		2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Master's/Doctoral	Yes	16	10	16	22	18	13
	No	1083	1098	1177	1231	1437	1574
	Total	1099	1108	1193	1253	1455	1587
Bachelor/Applied	Yes	696	753	754	844	1002	1084
	No	40399	41907	42793	44138	46413	47966
	Total	41095	42660	43547	44982	47415	49050
Certificate/Diploma	Yes	484	495	452	461	580	536
	No	21527	20542	19875	19758	19686	19650
	Total	22011	21037	20327	20219	20266	20186
University Transfer	Yes	134	124	120	93	53	70
	No	7787	5956	5696	4091	3134	3192
	Total	7921	6080	5816	4184	3187	3262
No Credential	Yes	585	515	543	547	618	589
	No	12957	12342	12410	12753	13314	12456
	Total	13542	12857	12953	13300	13932	13045
Not enrolled	Yes	8447	8761	9074	9521	9851	10261
	No	229229	236626	246896	258004	265324	268298
	Total	237,676	245,387	255,970	267,525	275,175	278,559
Percentage of students		2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Master's/Doctoral	Yes	1.46	0.9	1.34	1.76	1.24	0.82
	No	98.54	99.1	98.66	98.24	98.76	99.18
	Total	100	100	100	100	100	100
Bachelor/Applied	Yes	1.69	1.77	1.73	1.88	2.11	2.21
	No	98.31	98.23	98.27	98.12	97.89	97.79
	Total	100	100	100	100	100	100
Certificate/Diploma	Yes	2.2	2.35	2.22	2.28	2.86	2.66
	No	97.8	97.65	97.78	97.72	97.14	97.34
	Total	100	100	100	100	100	100
University Transfer	Yes	1.69	2.04	2.06	2.22	1.66	2.15
	No	98.31	97.96	97.94	97.78	98.34	97.85
	Total	100	100	100	100	100	100
No Credential	Yes	4.32	4.01	4.19	4.11	4.44	4.52
	No	95.68	95.99	95.81	95.89	95.56	95.48
	Total	100	100	100	100	100	100
Not enrolled	Yes	3.55	3.57	3.54	3.56	3.58	3.68
	No	96.45	96.43	96.46	96.44	96.42	96.32
	Total	100	100	100	100	100	100

*Note: This analysis considers students diagnosed with a mental health condition other than anxiety or depression.

Mental health service use among post-secondary students in Alberta

TABLE 21: The number and percentage of students (aged 18 to 25 years) enrolled in Alberta's publicly-funded post-secondary institutions by institution sector, anxiety disorder diagnosis, and study year

Institution Sector	Anxiety	Study year					
		2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Number of students		2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Comprehensive Academic and Research	Yes	817	817	854	788	822	866
	No	39583	39560	39827	39504	39815	40323
	Total	40400	40377	40681	40292	40637	41189
Baccalaureate and Applied Studies	Yes	366	365	393	433	511	506
	No	15040	14515	14814	15632	16640	16976
	Total	15406	14880	15207	16065	17151	17482
Comprehensive Community	Yes	501	391	389	411	457	446
	No	13999	12952	12842	12663	13680	13651
	Total	14500	13343	13231	13074	14137	14097
Polytechnical	Yes	199	227	234	215	221	249
	No	12161	12074	11668	11611	11439	11437
	Total	12360	12301	11902	11826	11660	11686
Independent Academic/Specialized Arts and Culture	Yes	85	88	74	72	72	80
	No	2917	2753	2739	2609	2597	2596
	Total	3002	2841	2813	2681	2669	2676
Not enrolled	Yes	6287	6380	6545	7020	7392	7556
	No	231384	239002	249418	260499	267774	270998
	Total	237,671	245,382	255,963	267,519	275,166	278,554
Percentage of students		2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Comprehensive Academic and Research	Yes	2.02	2.02	2.1	1.96	2.02	2.1
	No	97.98	97.98	97.9	98.04	97.98	97.9
	Total	100	100	100	100	100	100
Baccalaureate and Applied Studies	Yes	2.38	2.45	2.58	2.7	2.98	2.89
	No	97.62	97.55	97.42	97.3	97.02	97.11
	Total	100	100	100	100	100	100
Polytechnical	Yes	1.61	1.85	1.97	1.82	1.9	2.13
	No	98.39	98.15	98.03	98.18	98.1	97.87
	Total	100	100	100	100	100	100
Comprehensive Community	Yes	3.46	2.93	2.94	3.14	3.23	3.16
	No	96.54	97.07	97.06	96.86	96.77	96.84
	Total	100	100	100	100	100	100
Independent Academic/Specialized Arts and Culture	Yes	2.83	3.1	2.63	2.69	2.7	2.99
	No	97.17	96.9	97.37	97.31	97.3	97.01
	Total	100	100	100	100	100	100
Not enrolled	Yes	2.65	2.6	2.56	2.62	2.69	2.71
	No	97.35	97.4	97.44	97.38	97.31	97.29
	Total	100	100	100	100	100	100

TABLE 22: The number and percentage of students (aged 18 to 25 years) enrolled in Alberta's publicly-funded post-secondary institutions by institution sector, depression diagnosis, and study year

Institution Sector	Depression	Study year					
		2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Number of students		2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Comprehensive Academic and Research	Yes	1047	1008	1016	952	952	1017
	No	39353	39369	39665	39340	39685	40170
	Total	40400	40377	40681	40292	40637	41187
Baccalaureate and Applied Studies	Yes	524	511	536	551	578	594
	No	14882	14369	14671	15513	16573	16888
	Total	15406	14880	15207	16064	17151	17482
Comprehensive Community	Yes	662	567	581	573	639	594
	No	13836	12775	12649	12497	13493	13500
	Total	14498	13342	13230	13070	14132	14094
Polytechnical	Yes	278	271	290	249	253	263
	No	12082	12030	11612	11577	11407	11423
	Total	12360	12301	11902	11826	11660	11686
Independent Academic/Specialized Arts and Culture	Yes	105	109	84	101	85	83
	No	2897	2732	2729	2580	2584	2592
	Total	3002	2841	2813	2681	2669	2675
Not enrolled	Yes	8547	8878	8832	8910	8879	8934
	No	228988	236343	246965	258434	266100	269423
	Total	237,535	245,221	255,797	267,344	274,979	278,357
Percentage of students		2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Comprehensive Academic and Research	Yes	2.59	2.5	2.5	2.36	2.34	2.47
	No	97.41	97.5	97.5	97.64	97.66	97.53
	Total	100	100	100	100	100	100
Baccalaureate and Applied Studies	Yes	3.4	3.43	3.52	3.43	3.37	3.4
	No	96.6	96.57	96.48	96.57	96.63	96.6
	Total	100	100	100	100	100	100
Polytechnical	Yes	2.25	2.2	2.44	2.11	2.17	2.25
	No	97.75	97.8	97.56	97.89	97.83	97.75
	Total	100	100	100	100	100	100
Comprehensive Community	Yes	4.57	4.25	4.39	4.38	4.52	4.21
	No	95.43	95.75	95.61	95.62	95.48	95.79
	Total	100	100	100	100	100	100
Independent Academic/Specialized Arts and Culture	Yes	3.5	3.84	2.99	3.77	3.18	3.1
	No	96.5	96.16	97.01	96.23	96.82	96.9
	Total	100	100	100	100	100	100
Not enrolled	Yes	3.6	3.62	3.45	3.33	3.23	3.21
	No	96.4	96.38	96.55	96.67	96.77	96.79
	Total	100	100	100	100	100	100

Mental health service use among post-secondary students in Alberta

TABLE 23: The number and percentage of students (aged 18 to 25 years) enrolled in Alberta's publicly-funded post-secondary institutions by institution sector, all other mental health conditions*, and study year

Institution Sector	All other mental health conditions	Study year					
		2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Number of students		2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Comprehensive Academic and Research	Yes	689	695	718	757	813	865
	No	39711	39682	39964	39535	39824	40324
	Total	40400	40377	40682	40292	40637	41189
Baccalaureate and Applied Studies	Yes	341	329	390	417	536	538
	No	15065	14551	14817	15648	16615	16944
	Total	15406	14880	15207	16065	17151	17482
Polytechnical	Yes	244	281	239	247	295	271
	No	12116	12020	11663	11579	11366	11415
	Total	12360	12301	11902	11826	11661	11686
Comprehensive Community	Yes	557	510	477	476	554	535
	No	13943	12833	12755	12598	13583	13562
	Total	14500	13343	13232	13074	14137	14097
Independent Academic/Specialized Arts and Culture	Yes	84	82	61	70	73	83
	No	2918	2759	2752	2611	2596	2593
	Total	3002	2841	2813	2681	2669	2676
Not enrolled	Yes	8447	8761	9074	9521	9851	10261
	No	229229	236626	246896	258004	265324	268298
	Total	237,676	245,387	255,970	267,525	275,175	278,559
Percentage of students		2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Comprehensive Academic and Research	Yes	1.71	1.72	1.76	1.88	2	2.1
	No	98.29	98.28	98.24	98.12	98	97.9
	Total	100	100	100	100	100	100
Baccalaureate and Applied Studies	Yes	2.21	2.21	2.56	2.6	3.13	3.08
	No	97.79	97.79	97.44	97.4	96.87	96.92
	Total	100	100	100	100	100	100
Comprehensive Community	Yes	3.84	3.82	3.6	3.64	3.92	3.8
	No	96.16	96.18	96.4	96.36	96.08	96.2
	Total	100	100	100	100	100	100
Polytechnical	Yes	1.97	2.28	2.01	2.09	2.53	2.32
	No	98.03	97.72	97.99	97.91	97.47	97.68
	Total	100	100	100	100	100	100
Independent Academic/Specialized Arts and Culture	Yes	2.8	2.89	2.17	2.61	2.74	3.1
	No	97.2	97.11	97.83	97.39	97.26	96.9
	Total	100	100	100	100	100	100
Not enrolled	Yes	3.55	3.57	3.54	3.56	3.58	3.68
	No	96.45	96.43	96.46	96.44	96.42	96.32
	Total	100	100	100	100	100	100

*Note: This analysis considers students diagnosed with a mental health condition other than anxiety or depression.

Definitions and notes (continued)

- **Age, gender**, and postal code (translated into Statistics Canada **dissemination areas**) were provided for each individual by each participating program. In the case of discrepancies between programs, the most common value for an indicator was chosen. In the event of two or more most common values, the value for the indicator was chosen randomly from the most common values.
- The **Alberta Health Care Registry** (also known as the Alberta Health Care Insurance Plan - AHCIP) includes all study participants (aged 0 to 30) who are eligible to receive insured hospital and physician services.
- Youth and young adults with **corrections involvement** have appeared before the Court or a Justice of the Peace for an offence charge and have been remanded in custody or placed under pre-trial supervision in the community awaiting further court dates, or have been found guilty and sentenced to a community disposition (i.e. Fine, Probation, Community Service Work, Deferred Custody) and/or custody (in which the sentence is served in a young offender or adult custodial facility).
- Five **credential types** are considered in this report including: Master's/Doctoral, Bachelor/Applied, Certificate/Diploma, University transfer, and No credential programs. University transfer programs allow students to start a degree-level program in one institution and then transfer to another institution to complete the degree. Students enrolled in a post-secondary institution, but not pursuing a credential are classified as "no credential" students.
- **Canadian citizenship status** includes two categories: "Canadian" and "not Canadian". The "Not Canadian" category includes the following values: "Permanent resident/landed immigrant", "student visa", "Other visa", and Other/Unknown".
- **Cross-ministry analyses included only study participants who were linked across the relevant programs.** This means that not all participants in the project were represented in every analysis. As well, only participants with a value for a given indicator were included in analyses involving that indicator (i.e., missing values were excluded).
- Three **chronic health** conditions were defined: asthma, diabetes, and cancer. **Asthma** was defined as having two or more physician visits at least 30 days apart and within two years, with an ICD-9 diagnostic code 293 in any field, or any ambulatory care visit or hospitalization with an ICD-10 diagnostic code J45 to J46 in any field. **Diabetes** was defined as having two or more physician visits at least one day apart and within two years, with an ICD-9 diagnostic code 250 in any field, or any ambulatory care visit or hospitalization with an ICD-10 diagnostic code E10 to E24 in any field, or from a medical code 12 from Assured Income for the Severely Handicapped (AISH) services. Gestational diabetes diagnoses were excluded and were defined as a diabetes code 120 days prior to or 180 day after a pregnancy code (ICD-9: 641 to 676.7, V27-V27.9 and ICD-10 CA: O10 to O16.9, O21 to O95.9, O98 to O99.9, Z37 to Z37.99). An individual was considered to have **cancer** if they received any cancer code (ICD-9: 140 to 208.92) from physician visits, or any ambulatory care visit or hospitalization with a diagnostic code (ICD-10: C00 to C97.9) in any field, or an AISH medical code 10. Only Albertans who were registered with the Alberta Health Care Insurance plan for the full fiscal year were included.
- Individuals with **disabilities** include those who were either Persons with Developmental Disabilities clients, or Assured Income for the Severely Handicapped clients or Family Support for Children with Disabilities clients.

Definitions and notes (continued)

- **Enrolment status** refers to post-secondary students enrolled either full time or part time in the school year. Full time students are enrolled in at least 60% of a full course load in at least one session in the academic years. Part time students were enrolled in less than 60% of a full course in all sessions attended for the academic year.
- **High cost health service use:** Cost estimates per type of service across physician visits (general practitioner or specialist), ambulatory care visits (emergency or other ambulatory care), and hospitalizations (by type of service) were obtained from the Canadian Institute for Health Information. Estimated costs per visit were summed across all visits for each individual. High cost health users were those in the top 5% of estimated costs for their age groups and genders.
- **Income Support** provides financial assistance to individuals (aged 16 and older) who are unable to meet their basic needs.
- **Injury/harm** was defined by the presence or absence of injury diagnostic codes (a single ICD-10CA: V01-Y89.9) in Alberta Health and Wellness' databases (Inpatient-Discharge Abstract Database and Ambulatory care). Only Albertans who were registered with the Alberta Health Care Insurance plan for the full fiscal year were included.
- **Institution Sector** Alberta Advanced Education classifies post-secondary institutions into six sectors. These include: Comprehensive Academic and Research institutions (University of Alberta, University of Calgary, University of Lethbridge, Athabasca University); Baccalaureate and Applied Studies institutions (Grant MacEwan University, Mount Royal University); Polytechnical institutions (NAIT and SAIT); Comprehensive Community institutions (Bow Valley College, Grande Prairie Regional College, Keyano College, Lakeland College, Lethbridge College, Medicine Hat College, NorQuest College, Northern Lakes College, Olds College, Portage College, Red Deer College); Independent Academic institutions (Ambrose University College, St. Mary's University College, Canadian University College, Concordia University College, The King's University College); and Specialized Arts and Culture institutions (Alberta College of Art and Design, The Banff Centre).
- **Mental health service** was defined by the presence or absence of mental health diagnosis codes (Two or more ICD-9: 290-309.9, 311-314.9, 316, or a single ICD-10CA: F00-F06.9, F09-F69, F84-F99, G31.2, G44.2, R41.0) in Alberta Health and Wellness' databases (Inpatient—Discharge Abstract Database, Ambulatory Care, and Practitioner Payments), or in the Family Support for Children with Disabilities (FSCD) or the Assured Income for the Severely Handicapped (AISH) information systems. Only Albertans who were registered with the Alberta Health Care Insurance Plan for the full fiscal year or who had a mental health service with FSCD or AISH were included. Mental health service use is a proxy for presence of a mental health condition; some youth with mental health conditions may not have accessed mental health services in Alberta during the year, and some mental health service use may have occurred for youth who did not in fact have mental health conditions.
- **Post-secondary** students are individuals in this report (aged 18 to 25 years) who were enrolled in publicly-funded post-secondary institutions in Alberta and who were registered full time in the Alberta health care registry.

Definitions and notes (continued)

- **Post-secondary** service delivery **regions** were used for regional analyses. Dissemination areas from the 2006 Statistics Canada Census were used to determine region. Those with missing dissemination areas are excluded from analyses. There are ten regions (Northern Lakes, Keyano, Grande Prairie, Edmonton, Portage, Central, Lakeland, Calgary, Medicine Hat and Lethbridge); the boundaries for these regions are shown on the map.
- **Report population:** For this report, age groups were equated across study years. This meant that individuals over the age of 25 years were excluded from analyses by year, because no study participants were older than 25 years in the first study year.
- **Socio-economic status (SES)** captures the social and material environments in which individuals live. An individual was assigned a socio-economic status via an index based on the Statistics Canada dissemination area in which he or she resided⁵. Six indicators were included in the index: percent without a high school diploma, the employment rate, average income, percent of single families, percent of persons living alone, and percent of persons separated, divorced, or widowed. Socio-economic status values fell into five quintiles.⁸
- **Study population:** The study included individuals with a date of birth between April 1, 1980 and March 31, 2011 and who received services from one of the programs in the study or were registered in the Alberta Health Care Insurance Plan between April 1, 2005 and March 31, 2011. The youngest study participants were those born in the last study year. The oldest study participants were 25 years old at the end of the first study year and consequently 30 years old at the end of the last study year.
- **Tables** are shown by post-secondary study year.



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The Child and Youth Data Laboratory

The Child and Youth Data Laboratory's (CYDL's) Longitudinal Project (*Experiences of Albertan Children and Youth over Time, 2005/06 to 2010/11*) is a joint initiative between PolicyWise for Children & Families and participating ministries in the Government of Alberta. The mandate of the CYDL is to link and analyse administrative data from Government ministries, to provide evidence for policy and program development.

The CYDL is managed by **PolicyWise for Children & Families**. PolicyWise is a not-for-profit organization whose mission is to develop and integrate evidence to inform, identify and promote effective public policy and service delivery to improve the well-being of children, families and communities in Alberta, Canada and internationally.

This project

The current project, **The CYDL Longitudinal Project**, focuses on understanding the experiences of Albertan children and youth as they develop. The focus is service use within and across ministries, as it is related to key indicators and to the passage of time. Studying experiences over several years of development adds a valuable level of richness to an already ground-breaking initiative, providing detailed insight into the factors that help to shape our children and youth as they develop.

Our partners

This project was carried out on behalf of six ministries of the Government of Alberta. Each ministry collaborated extensively with the CYDL on this project, and their dedication to the project is gratefully acknowledged:

Advanced Education
Community and Social Services

Education
Indigenous Relations

Health

Children's Services
Justice and Solicitor General

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This study is based in part on data provided by the Government of Alberta. The interpretation and conclusions contained herein are those of the researchers and do not necessarily represent the views of the Government of Alberta. The Government of Alberta does not express any opinion in relation to this study.



Policy Wise
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