

## Health Reports

# Depression and suicidal ideation among Canadians aged 15 to 24

by Leanne Findlay

Release date: January 18, 2017



Statistics  
Canada

Statistique  
Canada

Canada

---

## How to obtain more information

For information about this product or the wide range of services and data available from Statistics Canada, visit our website, [www.statcan.gc.ca](http://www.statcan.gc.ca).

You can also contact us by

email at [STATCAN.infostats-infostats.STATCAN@canada.ca](mailto:STATCAN.infostats-infostats.STATCAN@canada.ca)

telephone, from Monday to Friday, 8:30 a.m. to 4:30 p.m., at the following numbers:

- Statistical Information Service 1-800-263-1136
- National telecommunications device for the hearing impaired 1-800-363-7629
- Fax line 1-514-283-9350

### Depository Services Program

- Inquiries line 1-800-635-7943
- Fax line 1-800-565-7757

## Standards of service to the public

Statistics Canada is committed to serving its clients in a prompt, reliable and courteous manner. To this end, Statistics Canada has developed standards of service that its employees observe. To obtain a copy of these service standards, please contact Statistics Canada toll-free at 1-800-263-1136. The service standards are also published on [www.statcan.gc.ca](http://www.statcan.gc.ca) under “Contact us” > “Standards of service to the public.”

## Note of appreciation

Canada owes the success of its statistical system to a long-standing partnership between Statistics Canada, the citizens of Canada, its businesses, governments and other institutions. Accurate and timely statistical information could not be produced without their continued co-operation and goodwill.

## Standard table symbols

The following symbols are used in Statistics Canada publications:

- . not available for any reference period
- .. not available for a specific reference period
- ... not applicable
- 0 true zero or a value rounded to zero
- 0<sup>s</sup> value rounded to 0 (zero) where there is a meaningful distinction between true zero and the value that was rounded
- <sup>P</sup> preliminary
- <sup>r</sup> revised
- X suppressed to meet the confidentiality requirements of the *Statistics Act*
- <sup>E</sup> use with caution
- F too unreliable to be published
- \* significantly different from reference category ( $p < 0.05$ )

Published by authority of the Minister responsible for Statistics Canada

© Minister of Industry, 2017

All rights reserved. Use of this publication is governed by the Statistics Canada [Open Licence Agreement](#).

**An HTML version is also available.**

*Cette publication est aussi disponible en français.*

---

# Depression and suicidal ideation among Canadians aged 15 to 24

by Leanne Findlay

## Abstract

**Background:** Among Canadians aged 15 to 24, the rate of depression is higher than at any other age, and suicide is the second leading cause of death. The current study provides detailed information about depression and suicidal ideation among young Canadians, including their use of mental health support.

**Data and methods:** Data from the 2012 Canadian Community Health Survey—Mental Health (CCHS—MH) were used to describe rates and experiences of depression and suicidal ideation among Canadians aged 15 to 24, including psychosocial characteristics of those who had depression or reported suicidal thoughts. Characteristics associated with seeking professional support were also examined.

**Results:** About 11% of Canadians aged 15 to 24 had experienced depression in their lifetime; 7%, in the past year. Approximately 14% reported having had suicidal thoughts in their lifetime; 6%, in the past year. Lifetime depression and suicidal thoughts were moderately correlated ( $r = .34, p < .001$ ). Individuals with lifetime depression had more than four times the odds of seeking professional support in the previous year, compared with those who did not have lifetime depression; those with lifetime suicidal thoughts had more than three times the odds of seeking professional support, compared with those who did not have lifetime suicidal thoughts. Psychosocial factors such as negative social interactions and lower perceived ability to deal with stress were associated with depression and suicidal thoughts, although these associations differed for males and females.

**Interpretation:** The findings suggest that many young Canadians have depression and/or suicidal thoughts. Their odds of seeking professional support are significantly high.

**Key words:** Mental health conditions, mental health services, social determinants of health, youth

According to the 2012 Canadian Community Health Survey—Mental Health, 15- to 24-year-olds had the highest rates of mood and anxiety disorders of all age groups. About 7% of them were identified as having had depression in the past 12 months, compared with 5% of people aged 25 to 64 and 2% of those aged 65 or older.<sup>1</sup>

Severe depression is associated with suicidal behaviour,<sup>2</sup> which is often conceptualized along a continuum from thoughts to plans to attempts/deaths.<sup>3</sup> As many as one in five teens report suicidal ideation in the past year.<sup>4</sup> Suicide is the second leading cause of death among young Canadians, accounting for almost one quarter of all deaths at ages 15 to 24.<sup>5</sup>

Adolescence and early adulthood are critical periods in the development of mental health.<sup>6-8</sup> Risk and protective factors may differentially influence this age group, and rates of depression peak during these ages.<sup>9</sup>

A variety of factors can influence mental health. For example, young women tend to be at risk for depression and suicidal ideation.<sup>9</sup> Strong evidence supports associations between socio-economic conditions,<sup>10</sup> psychosocial functioning<sup>11</sup> and mental health. Psychosocial factors such as experiencing stress<sup>12,13</sup> or negative social behaviours (for instance, criticism, anger, bullying)<sup>14</sup> are also risk factors for depression and suicidal ideation. Smoking is bi-directionally associated with depression,<sup>8</sup> which may create a lifelong health risk. By contrast, participation in physical activity<sup>15,16</sup> and social support<sup>17,18</sup> may be protective.

A previous study found that 12% of 15- to 24-year-olds reported seeking professional mental health support in the past year, and 27% consulted informal sources. Among those with a mental health condition, half reported seeking professional support in the past year.<sup>19</sup> However, according to another study, fewer than one-third of those with suicidal thoughts, plans or attempts sought professional support.<sup>18</sup>

As outlined in Anderson's model of health care service use,<sup>20</sup> predisposing and enabling socio-demographic factors such as sex and immigration status,<sup>19</sup> as well as psychosocial correlates such as social support,<sup>21</sup> are associated with mental health service use among youth. Less is known about the factors related to service use among those with mental illness or suicidal ideation, or about interactions between factors like depression and social support.<sup>22</sup>

This article describes depression and suicidal ideation among Canadians aged 15 to 24 based on detailed population data from the 2012 Canadian Community Health Survey—Mental Health. Co-occurrence of depression and suicidal ideation is explored. Associations between depression and suicidal thoughts and the use of professional sources of mental health support are examined, with a focus on psychosocial factors such as emotional support.

## Methods

### Data source

The cross-sectional 2012 Canadian Community Health Survey—Mental Health (CCHS—MH) was conducted by Statistics Canada to gather information about mental health status and perceived need for formal and informal services and supports. The household population aged 15 or older in the 10 provinces was targeted; residents of reserves and other Indigenous settlements in the provinces, full-time members of the Canadian Forces, and the institutionalized population were excluded. Computer-assisted telephone and in-person interviews were conducted; proxy interviews were not permitted. The present analyses pertain to respondents aged 15 to 24 ( $n = 4,031$ , weighted to represent more than 4.4 million).

## Measures

### Sociodemographic characteristics

CCHS—MH respondents reported their sex, age, student status, immigration status, and geographic region (rural versus population centre). Population centres are areas with a population concentration of 1,000 or more and a population density of 400 or more per square kilometre. Respondents indicated if they were daily or occasional smokers (versus non-smokers) and if they had engaged in moderate or vigorous physical activity in the past seven days (active). Household-level infor-

mation was included as an indicator of socioeconomic status—highest level of education in the household (dichotomized as secondary graduation or less versus some postsecondary or more) and household income. Low household income was defined as being in the lowest income quintile, taking household and community size into account.

### Depression

The CCHS—MH administered five modules of the World Mental Health—Composite International Diagnostic Interview 3.0 (WMH-CIDI), based on the *Diagnostic and Statistical Manual*

*of Mental Disorders, Fourth Edition*,<sup>23</sup> to detect six disorders: depression; bipolar disorder; generalized anxiety disorder; and alcohol, cannabis and substance abuse/dependence. Diagnostic algorithms identified respondents who met the criteria for each disorder; this study considered only depression (past 12 months and lifetime).

Those who experienced symptoms of depression in the past 12 months reported the duration and recency of their worst episode, the number of days that they were unable to work or carry out regular activities, and the degree to which depression interfered with their daily lives. This interference pertained to social life, close relationships, school attendance, home responsibilities and employment (0 indicated no interference; 10, severe interference).

Information from the WMH-CIDI was also used to examine *suicidal ideation*. Respondents were asked about: suicidal thoughts in their lifetime and in the past 12 months; having “made a plan for committing suicide” (lifetime/past 12 months); and having “attempted suicide or tried to take your own life” (lifetime/past 12 months). Given the small numbers who reported a plan or attempted suicide, most of the analyses reflect only suicidal thoughts.

### Psychosocial factors

Three psychosocial correlates were investigated: negative social interactions, emotional support and self-reported ability to deal with stress.

Based on the Negative Social Interactions Scale,<sup>24</sup> responses to four questions (for example, felt others were angry or upset with you) were summed to produce a *negative social interactions* score ranging from 0 to 12, with higher scores indicating more negative social interactions.

Items based on the Social Provision Scale<sup>25</sup> showed the degree to which the individual felt *emotional support*; scores ranged from 10 to 40, with higher scores reflecting more support in five domains: attachment, guidance, reliable alliance, social integration and reassurance of worth.

**Table 1**  
Description of depression and suicidal ideation, household population aged 15 to 24, Canada excluding territories, 2012

Characteristic	%	95% confidence interval	
		from	to
<b>Depression</b>			
Lifetime	10.7	9.3	12.1
Past 12 months	7.1	6.0	8.4
<b>Suicidal thoughts</b>			
Lifetime	14.1	12.6	15.7
Past 12 months	5.8	4.9	6.9
<b>Suicide plan</b>			
Lifetime	4.9	4.1	5.8
Past 12 months	2.2	1.6	2.9
<b>Suicide attempt</b>			
Lifetime	3.5	2.8	4.4
Past 12 months	1.0 <sup>E</sup>	0.6	1.7
<b>Ever (lifetime) consulted professional about symptoms of depression<sup>†</sup></b>			
No	39.4	33.1	46.1
Yes	60.6	53.9	66.9
<b>Duration of worst episode of symptoms of depression<sup>†</sup></b>			
Less than 1 month	15.1 <sup>E</sup>	10.5	21.0
1 month to less than 6 months	52.3	44.5	60.0
6 months to less than 1 year	14.3 <sup>E</sup>	9.8	20.4
1 year or more	18.4	13.6	24.4
<b>Recency of depression<sup>†</sup></b>			
Past month	21.4 <sup>E</sup>	15.0	29.6
1 to 6 months ago	40.9	32.9	49.5
More than 6 months ago	37.7	29.9	46.1
	<b>Mean</b>	<b>Standard error</b>	<b>Mini- mum</b>
<b>Symptoms of depression<sup>‡</sup> interfered with:</b>			<b>Maxi- mum</b>
... social life	6.3	0.2	0
... close relationships	5.2	0.2	0
... ability to attend school	5.1	0.4	0
... activities at home	4.6	0.2	0
... ability to attend work	4.1	0.3	0
<b>Number of days in past year unable to work/carry out regular activities because of symptoms of depression<sup>‡</sup></b>	24.8 <sup>E</sup>	4.8	...

... not applicable

<sup>E</sup> use with caution

<sup>†</sup> among those with lifetime depression

<sup>‡</sup> among those with depression in past 12 months

Source: 2012 Canadian Community Health Survey—Mental Health.

For *dealing with stress*, responses to two questions (“In general, how would you rate your ability to handle the day-to-day demands in your life?” and “In general, how would you rate your ability to handle unexpected and difficult problems?”), rated on a five-point scale from excellent to poor, were summed. Respondents also identified the major contributor to their feelings of stress: time pressures, own physical or mental health problem(s), financial or work situation, school, personal relationships, other or nothing.

Information about these scales is available in the *Canadian Community Health Survey–Mental Health User Guide*.<sup>26</sup>

### Sources of support

All respondents were asked if, during the past 12 months, they had seen or talked on the telephone with various professional and informal sources of support about problems with their emotions, mental health, or use of alcohol or drugs. Professional sources were: psychiatrists, family doctors/general practitioners, psychologists, nurses, and social workers/counselors/psychotherapists. Informal sources were: family members, friends, co-workers/supervisors/bosses, teachers/school principals, internet resources (online diagnoses, finding help, discussing with others/online therapy/other), self-help groups, telephone help-lines, and other. For sources that were not self-help, respondents were asked the degree to which the source was helpful, which was dichotomized into “a lot or some” versus “a little or not at all.”

### Analysis

Descriptive analyses (frequencies, means) examined the socio-demographic and psychosocial characteristics and the prevalence of lifetime and past-12-month depression and suicidal ideation among 15- to 24-year-olds. Detailed characteristics of the experiences of those with depression were also explored.

**Table 2**  
Selected characteristics of sample, by lifetime depression, household population aged 15 to 24, Canada excluding territories, 2012

Characteristic	No lifetime depression			Lifetime depression		
	%	95% confidence interval		%	95% confidence interval	
		from	to		from	to
<b>Sex</b>						
Male <sup>†</sup>	91.4	89.2	93.2	8.6	6.8	10.8
Female	87.2	85.0	89.1	12.8**	10.9	15.0
<b>Age group</b>						
15 to 18	91.9	89.9	93.5	8.1**	6.5	10.1
19 to 24 <sup>†</sup>	87.6	85.4	89.5	12.4	10.5	14.6
<b>Geography</b>						
Rural	91.5	88.4	93.8	8.5	6.2	11.6
Population centre <sup>†</sup>	89.0	87.2	90.5	11.0	9.5	12.8
<b>Immigrant status</b>						
Non-immigrant <sup>†</sup>	89.0	87.3	90.5	11.0	9.5	12.7
Immigrant	91.8	87.8	94.5	8.2 <sup>E</sup>	5.5	12.2
<b>Student status</b>						
Not student	86.3	83.4	88.8	13.7**	11.2	16.6
Student <sup>†</sup>	91.3	89.6	92.7	8.7	7.3	10.4
<b>Highest level of education (household)</b>						
Secondary or less	89.3	85.3	92.3	10.7 <sup>E</sup>	7.7	14.7
At least some postsecondary <sup>†</sup>	89.4	87.6	90.9	10.6	9.1	12.4
<b>Household income</b>						
Lowest income quintile	89.3	86.4	91.6	10.7	8.4	13.6
Higher <sup>†</sup>	89.3	87.6	90.9	10.7	9.1	12.4
<b>Smoking</b>						
Not current smoker <sup>†</sup>	91.2	89.6	92.6	8.8	7.4	10.4
Daily or occasional smoker	81.7	77.5	85.2	18.3***	14.8	22.5
<b>Physical activity</b>						
Not active	86.9	83.0	90.0	13.1	10.0	17.0
Moderately/Vigorously active in last 7 days <sup>†</sup>	89.8	88.1	91.2	10.2	8.8	11.9
<b>Suicidal thoughts (lifetime)</b>						
No <sup>†</sup>	93.7	92.3	94.9	6.3	5.1	7.7
Yes	62.5	56.9	67.8	37.5***	32.2	43.1
<b>Suicide plan (lifetime)</b>						
No <sup>†</sup>	91.6	90.2	92.9	8.4	7.1	9.8
Yes	45.0	36.6	53.7	55.0***	46.3	63.4
<b>Suicide attempt (lifetime)</b>						
No <sup>†</sup>	90.8	89.4	92.1	9.2	7.9	10.6
Yes	49.6	37.6	61.6	50.4***	38.4	62.4
	<b>Mean</b>	<b>Standard error</b>		<b>Mean</b>	<b>Standard error</b>	
<b>Negative social interactions<sup>‡</sup></b>	3.1	0.1		4.8***	0.2	
<b>Emotional support<sup>‡</sup></b>						
Overall	36.7	0.1		34.6***	0.4	
Attachment	7.4	0.0		7.0***	0.1	
Guidance	7.5	0.0		7.1***	0.1	
Reliable alliance	7.5	0.0		7.1***	0.1	
Social integration	7.2	0.0		6.7***	0.1	
Reassurance of worth	7.1	0.0		6.7***	0.1	
<b>Stress<sup>‡</sup></b>						
Ability to handle unexpected problem	3.6	0.0		3.0***	0.1	
Ability to handle day-to-day demands	3.8	0.0		3.4***	0.1	

<sup>E</sup> use with caution

\*\* significantly different from reference category (p < 0.01)

\*\*\* significantly different from reference category (p < 0.001)

<sup>†</sup> reference category

<sup>‡</sup> reference category is those without lifetime depression

Source: 2012 Canadian Community Health Survey–Mental Health.

Lifetime depression and suicidal thoughts were examined by socio-demographic and psychosocial variables. This consisted of univariate associations (chi-square tests) to compare those who did and did not have depression, and who

did or did not have suicidal thoughts, and two multivariate logistic regression models. Although depression and suicidal thoughts were usually considered separately, experiencing both depression and suicidal thoughts was explored in cross-tabulations.

**Table 3**  
Selected characteristics of sample, by lifetime suicidal thoughts, household population aged 15 to 24, Canada excluding territories, 2012

Characteristic	No lifetime suicidal thoughts			Lifetime suicidal thoughts		
	%	95% confidence interval		%	95% confidence interval	
		from	to		from	to
<b>Sex</b>						
Male <sup>†</sup>	88.0	85.8	89.8	12.0	10.2	14.2
Female	83.8	81.4	85.9	16.2**	14.1	18.6
<b>Age group</b>						
15 to 18	86.7	84.3	88.8	13.3	11.2	15.7
19 to 24 <sup>†</sup>	85.4	83.2	87.3	14.6	12.7	16.8
<b>Geography</b>						
Rural	88.7	85.0	91.6	11.3	8.4	15.0
Population centre <sup>†</sup>	85.4	83.7	87.0	14.6	13.0	16.3
<b>Immigrant status</b>						
Non-immigrant <sup>†</sup>	85.4	83.7	87.0	14.6	13.0	16.3
Immigrant	89.1	84.7	92.3	10.9	7.7	15.3
<b>Student status</b>						
Not student	84.8	82.3	87.0	15.2	13.0	17.7
Student <sup>†</sup>	86.7	84.7	88.6	13.3	11.4	15.3
<b>Highest level of education (household)</b>						
Secondary or less	82.0	77.6	85.8	18.0	14.2	22.4
At least some postsecondary <sup>†</sup>	86.4	84.5	88.1	13.6	11.9	15.5
<b>Household income</b>						
Lowest income quintile	84.6	81.6	87.2	15.4	12.8	18.4
Higher <sup>†</sup>	86.4	84.5	88.1	13.6	11.9	15.5
<b>Smoking</b>						
Not current smoker <sup>†</sup>	88.0	86.3	89.6	12.0	10.4	13.7
Daily or occasional smoker	77.3	73.0	81.0	22.7***	19.0	27.0
<b>Physical activity</b>						
Not physically active	81.6	77.1	85.4	18.4*	14.6	22.9
Moderately/Vigorously physically active in last 7 days <sup>†</sup>	86.7	85.0	88.3	13.3	11.7	15.0
<b>Depression (lifetime)</b>						
No <sup>†</sup>	90.2	88.7	91.4	9.8	8.6	11.3
Yes	50.5	43.4	57.6	49.5***	42.4	56.6
	<b>Mean</b>	<b>Standard error</b>		<b>Mean</b>	<b>Standard error</b>	
<b>Negative social interactions<sup>‡</sup></b>	3.0	0.1		4.7***	0.2	
<b>Emotional support<sup>‡</sup></b>						
Overall	36.8	0.1		34.6***	0.3	
Attachment	7.4	0.0		7.0***	0.1	
Guidance	7.5	0.0		7.1***	0.1	
Reliable alliance	7.5	0.0		7.1***	0.1	
Social integration	7.2	0.0		6.7***	0.1	
Reassurance of worth	7.1	0.0		6.6***	0.1	
<b>Stress<sup>‡</sup></b>						
Ability to handle unexpected problem	3.6	0.0		3.1***	0.1	
Ability to handle day-to-day demands	3.8	0.0		3.4***	0.1	

\* significantly different from reference category ( $p < 0.05$ )

\*\* significantly different from reference category ( $p < 0.01$ )

\*\*\* significantly different from reference category ( $p < 0.001$ )

<sup>†</sup> reference category

<sup>‡</sup> reference category is those without lifetime suicidal thoughts

Source: 2012 Canadian Community Health Survey—Mental Health.

The use of professional support for mental health problems by those who did and did not have depression or suicidal thoughts was examined. Multivariate logistic regressions were used to assess associations between depression or suicidal thoughts and professional consultations, while controlling for socio-demographic (age, sex, geography, immigrant status, household income, student status) and psychosocial (negative social interactions, emotional support, ability to deal with stressors) factors. Interactions between depression and psychosocial characteristics and between suicidal thoughts and psychosocial characteristics were tested. Moderating effects were determined based on significant interactions. Interactions were displayed using simple slopes analyses by plotting the adjusted odds ratio of the outcome (depression or suicidal thoughts) for the minimum and maximum values of each psychosocial variable.

SAS 9.3 was used for all analyses. Survey sampling weights were applied so that the results would be representative of the Canadian population aged 15 to 24. Bootstrap weights were applied using SUDAAN 11.0.1 to account for underestimation of standard errors due to the complex survey design.<sup>27</sup>

## Results

### *Socio-demographic and psychosocial characteristics*

About 85% of the sample of 15- to 24-year-olds lived in population centres; 64% were students; and 16% were immigrants. Most (84%) had been moderately or vigorously active in the past seven days, and 20% were daily or occasional smokers. Three-quarters (74%) lived in households that were above the lowest income quintile, and 86% were in households where a member had at least some postsecondary education.

The measure of *negative social interactions* among young Canadians was relatively low (mean score = 3.3; range: 0 to 12), and the measure of *emotional support* was relatively high (mean score = 36.5; range: 10 to 40). About a third (35%) reported that school was the

major contributor to feelings of stress, followed by financial pressures or work (26%), time pressures (8%), personal relationships (6%), a physical or mental health problem or condition (4%), or another source (10%). Approximately 10% indicated that nothing contributed to feelings of stress.

**Depression**

An estimated 11% of 15- to 24-year-olds had been depressed in their lifetime; 7% had experienced depression in the past year (Table 1). Among those with depression, 61% had talked to a professional about their symptoms in their lifetime.

About half of those with depression reported that their worst episode had lasted one to six months; for 18%, their worst episode had lasted more than a year. Almost two-thirds stated that their worst episode had occurred in the previous six months. Depression was most likely to interfere with social life, followed by close relationships, and attending school. On average, because of symptoms, those with depression had missed 25 days of regular activities in the past year.

Young Canadians with depression were more likely to be females, to be older, to smoke, and to report lifetime suicidal thoughts, plans or attempts; they were less likely to be students (Table 2). They also tended to have more negative social interactions and less emotional support, and were less likely to report being able to deal with stressors. Similar results were found in a multivariate analysis (except for non-significance of age and student status), suggesting that even when other socio-demographic factors were taken into account, being female, smoking, and having more negative social interactions, less emotional support and less ability to deal with stress were associated with lifetime depression.

**Suicidal thoughts**

An estimated 14% of 15- to 24-year-olds reported having had suicidal thoughts at some point in their life; 6% had had such thoughts in the past 12 months (Table 1). As well, in their lifetime, 5% had made a suicide plan (2% in the past year), and 3.5% had attempted suicide. Depression

and lifetime suicidal thoughts were moderately correlated ( $r = .34, p < .001$ ).

The majority of young Canadians had never been depressed and never had suicidal thoughts. However, 5% had been depressed and had also had suicidal thoughts (an estimated 234,000); 5% had been depressed without suicidal thoughts; and 9% had suicidal thoughts, but had not been depressed.

Those reporting lifetime suicidal thoughts were more likely to be females and to smoke, and were less likely to be physically active (Table 3). They had more negative social interactions, less emotional support, and were less able to deal with stressors. Multivariate analyses suggested that even when the other factors were taken into account, being female, smoking, and having more negative social interactions, less emotional support and less ability to deal with stress were associated with lifetime suicidal thoughts.

**Table 4**  
**Use of professional and informal sources of support among 15- to 24-year-olds with lifetime depression or lifetime suicidal thoughts, by type of support, household population, Canada excluding territories, 2012**

Source of support	Of those with lifetime depression, % who used source in past year			Of those who used source, % who perceived that they received a lot/some help			Of those with lifetime suicidal thoughts, % who used source in past year			Of those who used source, % who perceived that they received a lot/some help		
	%	95% confidence interval		%	95% confidence interval		%	95% confidence interval		%	95% confidence interval	
		from	to		from	to		from	to		from	to
<b>Any professional source</b>	<b>41.6</b>	<b>35.0</b>	<b>48.5</b>	...	...	...	<b>35.8</b>	<b>30.7</b>	<b>41.2</b>	...	...	...
General practitioner	24.1	18.1	31.2	63.8	48.9	76.4	17.0	13.1	21.7	66.5	53.6	77.3
Social worker/Counsellor	22.4	16.8	29.2	71.9	54.7	84.4	18.6	14.4	23.7	63.2	48.3	76.0
Psychiatrist	12.4 <sup>F</sup>	8.2	18.2	55.0 <sup>F</sup>	32.9	75.3	8.7 <sup>F</sup>	6.0	12.6	70.1	51.5	83.7
Psychologist	11.5 <sup>F</sup>	8.2	16.0	52.9 <sup>F</sup>	35.6	69.4	8.9	6.4	12.2	52.1 <sup>F</sup>	35.1	68.7
Nurse	F	...	...	F	...	...	3.2 <sup>F</sup>	1.8	5.6	58.9 <sup>F</sup>	30.6	82.3
<b>Any informal source</b>	<b>61.4</b>	<b>54.5</b>	<b>67.8</b>	...	...	...	<b>57.9</b>	<b>52.2</b>	<b>63.3</b>	...	...	...
Friend	47.6	40.8	54.5	87.4	80.1	92.2	44.0	38.6	49.7	85.9	78.9	90.8
Family member	33.0	26.5	40.1	71.0	56.9	82.0	30.8	26.1	36.0	81.5	72.3	88.2
Co-worker/Supervisor	6.0 <sup>F</sup>	4.0	9.0	69.9	51.5	83.5	5.0 <sup>F</sup>	3.4	7.4	62.3 <sup>F</sup>	40.3	80.2
Teacher or school principal	6.4 <sup>F</sup>	3.8	10.6	88.1	66.1	96.6	6.5 <sup>F</sup>	4.2	10.1	69.8	46.7	85.9
Internet	27.7	21.7	34.7	..	..	..	22.3	18.0	27.2	..	..	..
Self-help group	4.2 <sup>F</sup>	2.3	7.6	..	..	..	4.4 <sup>F</sup>	2.6	7.3	..	..	..
Telephone help line	2.7 <sup>F</sup>	1.4	4.9	..	..	..	3.1 <sup>F</sup>	1.8	5.4	..	..	..
None	35.5	29.6	42.0	...	...	...	40.4	35.1	46.0	...	...	...
Hospitalization	F	...	...	...	...	...	4.1 <sup>F</sup>	2.3	7.1	...	...	...

... not available for a specific reference period

... not applicable

<sup>F</sup> use with caution

F too unreliable to be published

Source: 2012 Canadian Community Health Survey—Mental Health.

### Mental health support

Among 15- to 24-year-olds with lifetime depression, 42% consulted a professional and 61% consulted an informal source in the past 12 months (Table 4). Friends (48% of those with depression) and family members (33%) were the most common informal sources. More than half of those with lifetime depression considered the source to have provided “a lot” or “some” help. Others, however, did not perceive that they received help from specific sources (for example, 47% who sought help from a psychologist).

About a third (36%) of those who reported lifetime suicidal thoughts consulted a professional and 58% consulted an informal source in the past 12 months. The rate at which young Canadians

reported that the source was helpful exceeded 50% for all sources.

When the other socio-demographic and psychosocial variables were taken into account, females had significantly higher odds of consulting professional sources, and immigrants had significantly lower odds (Table 5). Compared with those who did not have lifetime depression, young Canadians who did had more than four times the odds of consulting a professional in the past 12 months; those with lifetime suicidal thoughts had more than three times the odds, compared with those who never had suicidal thoughts. Individuals with more negative social interactions were more likely to consult professional sources, and those with greater ability to deal with stressors were less likely.

The presence of depression or suicidal thoughts alone is insufficient to understand the use of professional sources. Psychosocial factors interacted significantly with depression and suicidal thoughts. As well, these associations differed for males and females.

Regardless of whether they had depression, females with less ability to deal with stress had higher odds of consulting professional sources (Figure 1; results were similar for suicidal thoughts). Those with greater ability to deal with stress tended to consult professional sources only if they had depression or suicidal thoughts. Similarly, females with more negative social interactions had elevated odds of consulting professional sources, regardless of depression status (data not shown).

For males with suicidal thoughts, negative social interactions were not associated with consulting professional sources (Figure 2). However, males who did not have suicidal thoughts had higher odds of consulting professional sources if they had more negative social interactions (even higher odds than those with suicidal thoughts).

**Table 5****Adjusted odds ratios relating selected characteristics to consulting professional sources of support, household population aged 15 to 24, Canada excluding territories, 2012**

Characteristic	Model 1			Model 2		
	Adjusted odds ratio	95% confidence interval		Adjusted odds ratio	95% confidence interval	
		from	to		from	to
<b>Age (continuous)</b>	1.04	0.98	1.10	1.04	0.98	1.11
<b>Sex</b>						
Male <sup>†</sup>	1.00	...	...	1.00	...	...
Female	2.02*	1.47	2.79	1.98*	1.43	2.73
<b>Geography</b>						
Rural	0.98	0.67	1.43	1.00	0.68	1.48
Population centre <sup>†</sup>	1.00	...	...	1.00	...	...
<b>Immigrant status</b>						
Non-immigrant <sup>†</sup>	1.00	...	...	1.00	...	...
Immigrant	0.49*	0.27	0.90	0.53*	0.30	0.95
<b>Household income</b>						
Not low income <sup>†</sup>	1.00	...	...	1.00	...	...
Low income	0.88	0.62	1.25	0.85	0.59	1.23
<b>Student status</b>						
Not student	0.86	0.59	1.25	0.95	0.65	1.39
Student <sup>†</sup>	1.00	...	...	1.00	...	...
<b>Psychosocial factors (continuous)</b>						
Negative social interactions	1.22*	1.14	1.30	1.22*	1.13	1.31
Emotional support	0.98	0.94	1.03	0.99	0.95	1.03
Ability to deal with stress	0.73*	0.65	0.82	0.71*	0.64	0.80
<b>Lifetime depression</b>						
No <sup>†</sup>	1.00	...	...	...	...	...
Yes	4.68*	3.23	6.78	...	...	...
<b>Lifetime suicidal thoughts</b>						
No <sup>†</sup>	...	...	...	1.00	...	...
Yes	...	...	...	3.85*	2.73	5.43

... not applicable

\* significantly different from reference category ( $p < 0.05$ )

<sup>†</sup> reference category

Source: 2012 Canadian Community Health Survey—Mental Health.

## Discussion

Mental illness often develops early in life and is a leading cause of disability in youth.<sup>28</sup> One in ten 15- to 24-year-olds reported having experienced symptoms of depression in their lifetime, and one in seven reported suicidal thoughts. A small percentage reported attempting suicide, but they represented more than 150,000 individuals.

A goal of this study was to provide detailed information about young people who experience depression. Depression was mostly likely to interfere with social life, followed by close relationships and school attendance. For 18% of those with depression, the worst episode lasted more than a year, and as a result of symptoms of depression, they missed, on average, almost a month of regular activities.

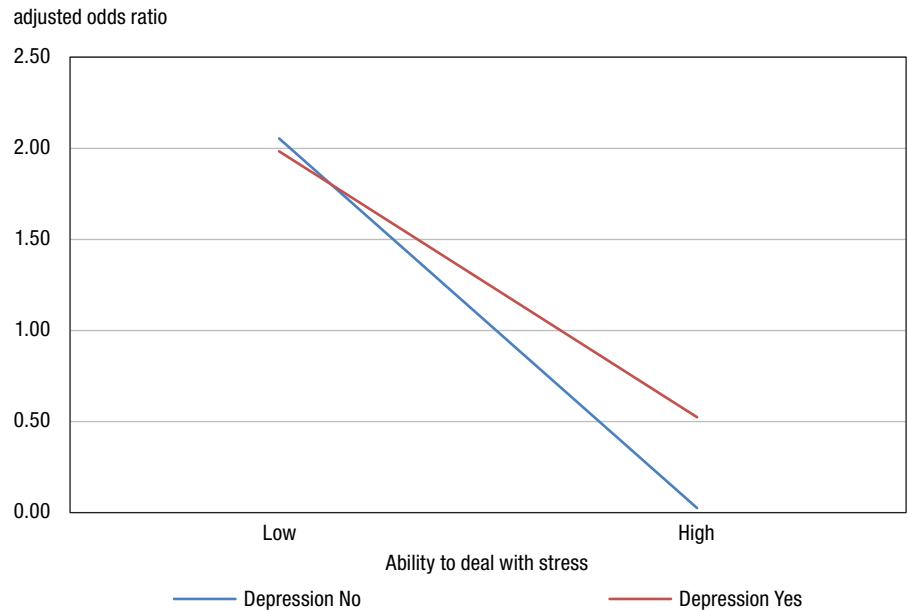


As in earlier studies,<sup>11,29</sup> few socio-demographic correlates were found to be associated with depression among young Canadians, other than being female and smoking. For this age group, characteristics that cannot be examined in a population-based study may be related to depression (for instance, service availability, personal income versus household income).

The present analysis extends previous findings<sup>19</sup> about young Canadians' perceptions of the amount of help they received from professional sources of mental health support. The results confirm an increased likelihood of professional consultation among 15- to 24-year-olds with depression and/or suicidal thoughts, although fewer than half of them sought professional help. They were more likely to turn to friends or family, and when they did, generally felt that they received a lot or some help. Barriers to the use of professional sources may include a lack of perceived need for help, preference for self-management, geographic proximity of services, and beliefs about effectiveness.<sup>30</sup>

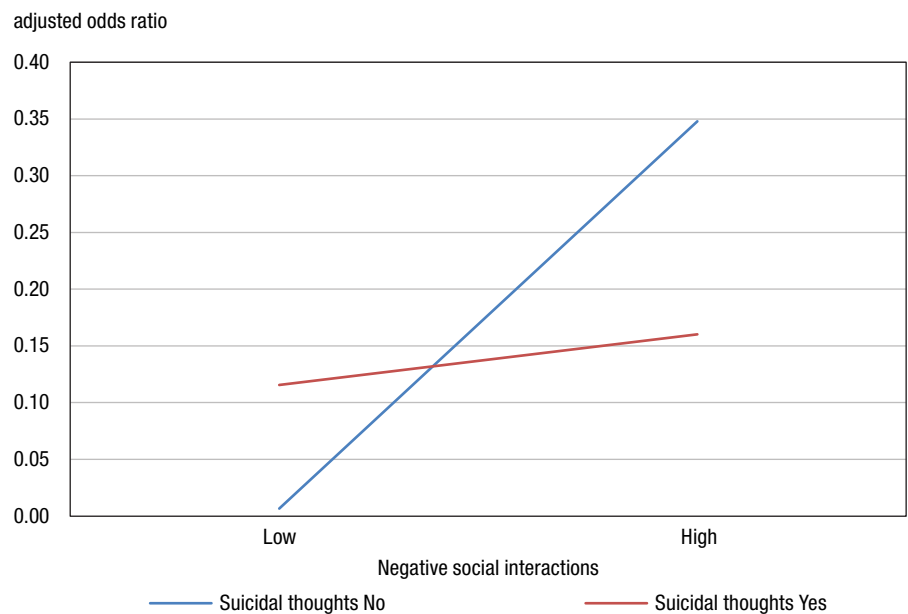
The socio-demographic and psychosocial correlates of service use by young Canadians with depression and suicidal thoughts in this analysis were similar to earlier findings.<sup>30,31</sup> However, interaction results suggest that psychosocial factors are more likely to prompt help-seeking than are depression or suicidal thoughts. That is, females with low perceived ability to deal with stress and high negative social interactions were more likely to consult professional sources, regardless of whether they had experienced depression. Males with suicidal thoughts were equally likely to consult professional sources independent of negative social interactions; however, those who did not have suicidal thoughts were more likely to consult professional sources if they had high negative social interactions. It is possible that men and women seek professional support when they identify impaired functioning (poor coping), rather than when they have symptoms of depression or suicidal thoughts.

**Figure 1**  
**Adjusted odds of consulting professional sources, interaction between ability to deal with stress and depression, female household population aged 15 to 24, Canada excluding territories, 2012**



**Note:** Model adjusted for age, population centre, immigrant status, low income, student status, depression, ability to deal with stress.  
**Source:** 2012 Canadian Community Health Survey–Mental Health.

**Figure 2**  
**Adjusted odds of consulting professional sources, interaction between negative social interactions and suicidal thoughts, male household population aged 15 to 24, Canada excluding territories, 2012**



**Note:** Model adjusted for age, population centre, immigrant status, low income, student status, depression, ability to deal with stress.  
**Source:** 2012 Canadian Community Health Survey–Mental Health.

## What is already known on this subject?

- An estimated 7% of 15- to 24-year-old Canadians had depression in the past 12 months.
- Suicide is the second leading cause of death at these ages.
- Severe depression is associated with suicidal behaviour.
- Less favourable socioeconomic conditions and psychosocial functioning are associated with mental health.
- Fewer than half of young Canadians with a mental health condition sought professional support in the past 12 months.

## What does this study add?

- In 2012, 14% of Canadians aged 15 to 24 reported having had suicidal thoughts at some point in their life.
- In the previous 12 months, 42% of those with depression and 36% of those with suicidal thoughts consulted a professional source of mental health support; 61% and 58%, respectively, consulted an informal source.
- Associations between depression and suicidal thoughts and psychosocial factors such as negative social interactions and perceived ability to deal with stress differed for males and females.

## Limitations

This analysis has a couple of limitations. Like other research,<sup>32,33</sup> this study examined lifetime depression and suicidal ideation within a young cohort, among whom such experiences might be expected to be relatively recent, if not in the past 12 months. Even so, because associations with professional consultations pertain only to the previous year, it is possible that service use is underestimated. The analysis is also limited by the data collected by the CCHS-MH, which did not include several predictors of service use, such as severity of illness.<sup>34</sup> Those with the most severe symptoms of depression may be the most likely to seek professional help.<sup>35</sup>

## Conclusions

Information about depression and suicidal ideation during the transitional years of emerging adulthood is important, given that access to mental health services may change as youth transfer from the child to the adult health care system. The findings suggest that many young Canadians have depression and/or suicidal thoughts. Psychosocial risk and protective factors are related to depression and suicidal thoughts—namely, experiencing negative social interactions and perceived ability to deal with stress. These factors were also associated with professional consultations. Knowledge of these risk and protective factors may facilitate early intervention. In particular, the association between psychosocial factors and seeking professional support emphasizes the importance of identification of overall psychological functioning rather than specific symptoms of depression or suicidal thoughts. ■

## References

1. Statistics Canada. *Table 105-1101 Mental health profile, Canadian Community Health Survey - Mental Health (CCHS), by age group and sex, Canada and provinces*. CANSIM (database). Last updated September 17, 2013.
2. Mental Health Commission of Canada. *Informing the Future: Mental Health Indicators for Canada*. Ottawa: Mental Health Commission of Canada, 2015.
3. Greening L, Stoppelbein L. Religiosity, attributional style, and social support as psychological buffers for African American and White adolescents' perceived risk for suicide. *Suicide and Life-Threatening Behavior* 2002; 32(4): 404-17.
4. Langille DB, Asbridge M, Kisely S, Rasic D. Suicidal behaviours in adolescents in Nova Scotia, Canada: protective associations with measures of social capital. *Social Psychiatry and Psychiatric Epidemiology* 2012; 47(10): 1549-55.
5. Statistics Canada. *Table 102-0561. Leading causes of death, total population, by age group and sex, Canada*. CANSIM (database). Last updated 2015.
6. Kessler RC, Berglund P, Demler O, et al. Lifetime prevalence and age-of-onset distributions of SDM-IV disorders in the National Comorbidity Survey Replication. *Archives of General Psychiatry* 2005; 62: 593-602.
7. Patel V, Flisher AJ, Hetrick S, McGorry P. Mental health of young people: A global public health challenge. *Lancet* 2007; 369: 1302-13.
8. Naicker K, Galambos NL, Zeng Y, et al. Social, demographic, and health outcomes in the 10 years following adolescent depression. *Journal of Adolescent Health* 2013; 52: 533-8.
9. Fero MA, Gorter JW, Boyle MH. Trajectories of depressive symptoms in Canadian emerging adults. *American Journal of Public Health* 2015; 105(11): 2322-7.
10. Cairney J, Streiner DL. *Mental Disorder in Canada: An Epidemiological Perspective*. Toronto: University of Toronto Press, 2010.
11. Tuong Nguyen C, Fournier L, Bergeron L, et al. Correlates of depressive and anxiety disorders among young Canadians. *Canadian Journal of Psychiatry* 2005; 50(10): 620-8.

12. Vrshek-Schallhorn S, Stroud CB, Mineka S, et al. Chronic and episodic interpersonal stress as statistically unique predictors of depression in two samples of emerging adults. *Journal of Abnormal Psychology* 2015; 124(4): 918-32.
13. Peter T, Roberts LW, Buzdugan R. Suicidal ideation among Canadian youth: A multivariate analysis. *Archives of Suicide Research* 2008; 12: 263-75.
14. Dooley B, Fitzgerald A, Giollabhui NM. The risk and protective factors associated with depression and anxiety in a national sample of Irish adolescents. *Irish Journal of Psychological Medicine*, 2015; 32: 93-105.
15. Jewett R, Sabiston CM, Brunet J, et al. School sport participation during adolescence and mental health in early adulthood. *Journal of Adolescent Health* 2014; 55: 640-4.
16. Taliaferro LA, Eisenberg ME, Johnson KE, et al. Sports participation during adolescence and suicidal ideation and attempts. *International Journal of Adolescent Medicine and Health* 2011; 23(1): 3-10.
17. Colman E, Zeng Y, McMartin SE, et al. Protective factors against depression during the transition from adolescence to adulthood: Findings from a national Canadian cohort. *Preventive Medicine* 2014; 65: 28-32.
18. Fuller-Thomson E, Hamelin GP, Granger SJR. Suicidal ideation in a population-based sample of adolescents: Implications for family medicine practice. *ISRN Family Medicine* 2013; 1-11.
19. Findlay LC, Sunderland A. Professional and informal mental health support reported by Canadians aged 15 to 24. *Health Reports* 2014; 25(12): 3-11.
20. Anderson RM. Revisiting the behavioral model and access to medical care: Does it matter? *Journal of Health and Social Behavior* 1995; 36: 1-10.
21. Olsen JR, Goddard HW. Applying prevention and positive youth development theory to predict depressive symptoms among young people. *Youth and Society* 2015; 47(2): 222-4.
22. Diaz-Granados N, Georgiades K, Boyle MH. Regional and individual influences on use of mental health services in Canada. *Canadian Journal of Psychiatry* 2010; 55(1): 9-20.
23. Kessler RC, Ustun TB. The World Mental Health (WMH) Survey initiative version of the World Health Organization (WHO) Composite International Diagnostic Interview (CIDI). *International Journal of Methods in Psychiatric Research* 2004; 13(2): 93-121.
24. Krause N. Longitudinal study of social support and meaning in life. *Psychology and Aging* 2007; 22(3): 456-69.
25. Cutrona CE, Russell DW. The provisions of social support and adaptation to stress. *Advances in Personal Relationships* 1987; 1: 37-67.
26. Statistics Canada. *Canadian Community Health Survey – Mental Health User Guide*. Ottawa: Statistics Canada, 2013.
27. Rust KF, Rao JNK. Variance estimation techniques for complex surveys using replication techniques. *Statistical Methods in Medical Research* 1996; 5(3): 283-310.
28. Erskine HE, Moffitt TE, Copeland WE, et al. A heavy burden on young minds: The global burden of mental and substance use disorders in children and youth. *Psychological Medicine*, 2015; 45: 1551-63.
29. Merikangas KR, He J-P, Burstein M, et al. Lifetime prevalence of mental disorders in U.S. adolescents: Results of the National Comorbidity Survey – Adolescent Supplement (NCS-A). *Journal of the American Academy of Child and Adolescent Psychiatry* 2010; 49(10): 980-9.
30. Hom MA, Stanley IA, Joiner TE Jr. Evaluating factors and interventions that influence help-seeking and mental health service utilization among suicidal individuals: A review of the literature. *Clinical Psychology Review* 2015; 40: 28-39.
31. Cheung AH, Dewa CS. Mental health service use among adolescents and young adults with major depressive disorder and suicidality. *The Canadian Journal of Psychiatry* 2007; 2(4): 228-32.
32. Nock MK, Greif Green J, Hwang I, et al. Prevalence, correlates, and treatment of lifetime suicidal behavior among adolescents. *JAMA Psychiatry* 2013; 70(3): 300-10.
33. Tormoen AJ, Rossow I, Mork E, Mehlum L. Contact with child and adolescent psychiatric services among self-harming and suicidal adolescents in the general population: A cross-sectional study. *Child and Adolescent Psychiatry and Mental Health* 2014; 8: 13.
34. Merikangas KR, He J-P, Burstein M, et al. Service utilization for lifetime mental disorders in U.S. adolescents: Results of the National Comorbidity Survey – Adolescent Supplement (NCS-A). *Journal of the American Academy of Child and Adolescent Psychiatry* 2011; 50(1): 32-45.
35. Jonsson U, Bohman H, von Knorring L, et al. Mental health outcome of long-term and episodic adolescent depression: 15-year follow-up of a community sample. *Journal of Affective Disorders* 2011; 130: 395-404.