



LESSONS IN LEARNING

A barrier to learning:
Mental health disorders
among Canadian youth

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Significant numbers of Canadian adolescents become depressed every year. Even more suffer from various mental disorders, mainly anxiety. Young people's mental health represents a significant educational issue because of its impact on learning and because of the role that schools can play in promoting and maintaining the mental health of young people.

Depression – A worldwide burden

Depression is most common among middle-aged people, but individuals of any age, gender or background are susceptible.¹ According to the World Health Organization depression ranked as the world's leading single cause of disability in 2000, and currently ranks fourth of the 10 leading causes of the global burden of disease, calculated in Disability Adjusted Life Years (the sum of years of potential life lost due to premature mortality and the years of productive life lost due to disability). By 2030, depression is projected to become the leading contributor of disease burden in high-income countries.²

Depression in Canadian youth

Mental health has been identified as a major health issue for students. It is estimated that, at any given time, approximately 15% of children and youth in Canada experience mental disorders that inhibit healthy development.³ Fewer than 20% of those children and youth receive treatment.

The *Final Report of the Standing Senate Committee on Social Affairs, Science and Technology* noted that the majority of mental health disorders affecting adults originate in childhood and adolescence.⁴ Each year, over one million people in Canada experience a bout of major depression, putting it on par in prevalence with other chronic, widespread health conditions such as heart disease and diabetes.⁵

While Canada lacks up-to-date information on the rates of depression in children, in the 1980s the Ontario Child Health Study showed that rates of major depression in children aged 6 to 16 ranged from 2.7% to 7.8%. Data from the 2006 Canadian Community Health Survey indicate that the prevalence rate for depression among teenagers aged 15–18 is 7.6% (4.3% for males and 11.1% for females).⁶

Cause and symptoms

The exact causes of depression vary widely among individuals. However, it is clear that most mental disorders, including depression, are influenced by a combination of biological, psychological and social factors.⁷ Depressive episodes in both young people and adults are triggered by a combination of environmental and genetic factors.⁸ According to McMaster University's Offord Centre for Child Studies, signs of depression in children and youth arise from a depressive disorder with a genetic or familial component. Other major risk factors for depression in adolescence also include negative life events and stress, problematic peer relationships, low self-esteem and negative body image.⁹

Depressive disorders both in children and adults are diagnosed using the same criteria. To be diagnosed with major depression, individuals need to exhibit five or more of the following nine symptoms:¹⁰

Symptom	Details
Depressed mood	Depressed mood most of the day, nearly every day
Anhedonia	Markedly diminished interest or pleasure in almost all activities
Weight change	Substantial unintentional weight loss or gain
Sleep disturbance	Insomnia or hypersomnia nearly every day
Psychomotor problems	Psychomotor agitation or retardation nearly every day
Lack of energy	Fatigue or loss of energy nearly every day
Excessive guilt	Feelings of worthlessness or excessive guilt nearly every day
Poor concentration	Diminished ability to think or concentrate nearly every day
Suicidal ideation	Recurrent thoughts of death or suicide.

In addition to these specific criteria, social withdrawal, excessive worrying, conduct problems and distress over negative body image (particularly in girls) are symptoms characteristic of depressed youth.¹¹ These symptoms can make learning and achievement in school more difficult.

The effect of depression on academic achievement

A growing body of research shows that depressive symptoms in youth are related to learning difficulties, dropping out of school, substance abuse, and a greater likelihood of suicide and re-occurrence of depressive symptoms in adulthood. Once considered simply a part of teenage growing pains, depression is now recognized by the mental health community, parents, teachers, and young people as a threat to the well-being of students.¹²

A study of the typology of students at risk of dropping out in Quebec shows that many of these students display behavioural problems commonly associated with depression. This level of mental distress in at-risk students tends to be overlooked by school staff because it is not accompanied by disruptive behaviour.¹³

Depressed youth are at a significantly greater risk of academic failure than their non-depressed peers. A recent systematic review of evidence by the Canadian Council on Learning revealed that higher levels of depression in students are associated with lower scores on measures of academic achievement. Findings from a meta-analysis of 27 published studies showed that, on average, depressed students score approximately 6/10 of a standard deviation below students without depression. In other words, if a group of non-depressed students scores at the 50th percentile on an exam, their depressed counterparts will score at the 27th percentile.¹⁴

Co-occurrence rates between learning disability and depression are very high.^{15,16} Depression and anxiety are often a response to the learning disability, especially among girls.^{17,18} In other instances, however, psychiatric disorders (particularly depression) can interfere with children's ability to concentrate on cognitive tasks and, consequently, can interfere with their ability to learn.^{19,20} As well, depression and memory impairment are significantly associated.²¹ In other words, students with depression may have trouble learning school material or recalling material for exams.

Research also shows that being in a depressed state interferes with text comprehension ability.²² Some studies have also established links between depressive symptoms and impaired performance on laboratory tasks. This has led some researchers to conclude that, generally speaking, depressive symptoms may interfere with youngsters' ability to perform well in school.²³

Lessons in Learning

Poor mental health in Canadian school children poses a significant risk to their academic development and puts them at greater risk of dropping out of school, substance abuse and suicide. Schools are well positioned to be at the vanguard of public health strategies designed to prevent and detect mental health disorders among young people.

Two types of school-based mental health strategies show promise of success: mental health awareness and education programs and mental health screening programs.

One example of a school-based mental health awareness program was recently tested in junior and senior high schools in Alberta. Students participated in workshops designed to increase their knowledge and understanding of mental health issues and to dispel negative stereotypes associated with severe mental illness. Follow-up surveys among participating students indicated that the program was successful on both fronts and is a promising approach to mental health promotion in schools.²⁴

In the United States, a mental health screening program called TeenScreen was developed by researchers at Columbia University and has been implemented at over 460 sites in 42 states.²⁵ Participation is voluntary and students complete a questionnaire that screens for depression, anxiety and substance abuse. Participants whose results indicate they are at risk for a mental health concern are given on-site counselling and their parents are notified and offered assistance in accessing mental health services. Evaluations of the program indicate that it is effective in identifying young people suffering from mental illness that would otherwise go undetected.²⁶

The most promising school-based approach involves a combination of both education and screening. The Signs of Suicide (SOS) prevention program incorporates an educational component designed to raise awareness of suicide and related mental health issues and a screening component that screens for depression and other suicide risk factors. Program evaluations indicate that SOS reduces the reported incidence of suicide attempts and fosters more adaptive attitudes toward depression and suicide.²⁷

Along with families and community agencies, schools play an important role in promoting the psychological well-being of children and reducing the stigma associated with mental health disorders. Schools can help reduce the numbers of Canadian students affected by challenges to their mental health through well-designed mental health education and screening programs.

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