



Why so depressed?

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ABSTRACT:

Depression is a common mental illness characterized by persistent sadness and a loss of interest in activities that people normally enjoy, accompanied by an inability to carry out daily activities, for 14 days or longer. Prevalence of depression varies in different age groups in different parts of the world. According to WHO, an estimated 300 million suffered from depression in 2017.

Female gender, presence of comorbidity, previous history of depression, familial background of depression, high birth order, nuclear family, parental conflicts, residential schooling, chronic illness and cognitive decline inability to cope with studies, work place stress and harassment are a few known risk factors of depression.

Preventing and Early Diagnosis of Depression helps in controlling the morbidity and mortality due to depression. The Health Ministry should take necessary steps in establishing counselling cells, 24*7 help lines and mobile chat applications to reduce the emotional turmoil experienced by the youth and adolescents. Promoting healthy lifestyle and organizing geriatric clubs to encourage socialization will reduce depression among elderly to a certain extent. This review seeks to collect and collate information on depression, to create an evidence base and to aid the stakeholders in taking appropriate measures to reduce depression.

Keywords: Depression, Risk Factors, Prevention, Adolescents, Youth

Introduction

Depression is a dynamic entity and it is increasing day by day specially among the adolescents and elderly. India's highly inequitable distribution of mental health resources means at least 90% of people with mental disorders are undiagnosed and untreated. There are also huge disparities in access to mental health services particularly for people in rural areas¹.

Depression is a common mental illness characterized by persistent sadness and a loss of interest in activities that people normally enjoy,

accompanied by an inability to carry out daily activities, for 14 days or longer. In addition, people with depression normally have several of the following: a loss of energy; a change in appetite; sleeping more or less; anxiety; reduced concentration; indecisiveness; restlessness; feelings of worthlessness, guilt, or hopelessness; and thoughts of self-harm or suicide according to the Diagnostic and Statistical Manual of Mental Disorders-V².

To attain a mentally healthy population, we need to know the prevalence of depression and risk factors associated with depression. This review seeks to collect and collate information on

depression, to create an evidence base and to aid stakeholders in taking appropriate measures to reduce depression.

Prevalence of Depression

Prevalence of depression varies according to different age groups in different regions of the world. Studies in Brazil and many other parts of the world has shown the prevalence of depression is highest in late life whereas studies in USA depicted highest depression rates among middle aged women. Highest prevalence of major depressive episode was seen in 18-25 years in a number of studies³. Most mental disorders begin

during youth (12–24 years of age), although they are often first detected later in life⁴.

Adolescence is the time when they have severe psychosocial stress. They are exposed to physical and psychological change and changes in social perceptions and expectations. Depression in adolescents is more often missed than it is in adults, possibly because of the prominence of irritability, mood reactivity, and fluctuating symptoms in adolescents. The prevalence of depressed adolescents in Europe ranged from 7.1% to 19.4%. The prevalence of depressed adolescents in different European countries is as depicted in fig 1⁵.

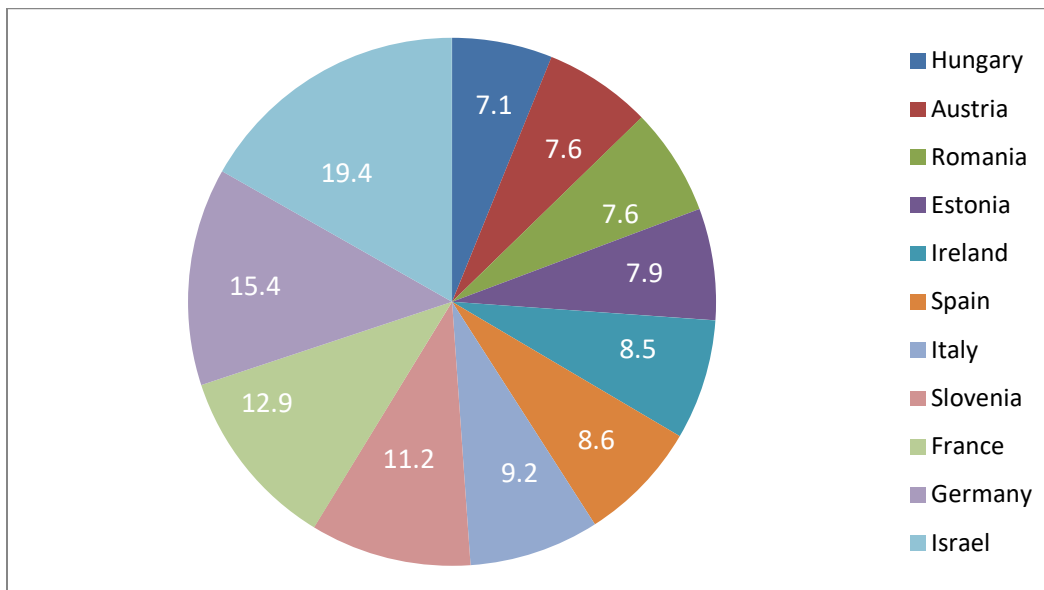


Figure1: The prevalence of depressed adolescents in different European countries

A study assessing the prevalence of depression among 964 adolescents in South India showed that 378 adolescents (39.2%) were found to be non-depressed, 358 (37.1%) were mildly depressed, 187 (19.4%) were moderately depressed and 41 (4.3%) severely depressed⁶. Using GHQ-12 and Beck’s Depression Inventory Questionnaire, a study in India found that 15.2% of school-going adolescents were having evidence of distress and 18.4% were depressed⁷.

Unipolar depressive disorder in adolescence is common worldwide but often unrecognised. The incidence, notably in girls, rises sharply after

puberty and, by the end of adolescence, the 1 year prevalence rate exceeds 4%. The burden is highest in low-income and middle-income countries. Untreated Depression heightens suicide risk⁸.

A study among University students showed 27.1% of their respondents suffered from depression⁹. Global prevalence of depression among medical students was 28%. The overall mean frequency of suicide ideation was 5.8% , but the mean proportion of depressed medical students who sought treatment was only 12.9%¹⁰

A study among medical college students in Rajasthan showed that 44.2% of students were depressed¹¹ The prevalence of depression among 143 dental students in a study .in US was found to be 16.7%¹²

Interest in geriatric depression has increased in recent years, and several population studies have examined its prevalence, with results ranging from 1% to 20%.

The prevalence of dementia and of depression among persons aged 70 and above in Hobart was measured by interviewing subjects using a modified version of the Geriatric Mental State Schedule (GMS) (Copeland et al. 1976) and the Mini Mental State Examination (MMSE) (Folstein et al. 1975). Rates of morbidity were derived from different diagnostic procedures. It is concluded that more detailed specification of criteria is desirable if the comparative epidemiology of dementia and depression in old age is to advance¹³.

The current and lifetime prevalence of depressive disorders in 4559 non demented individuals in Cache County aged 65 to 100 years was estimated in a population study. Point prevalence of major depression was estimated at 4.4% in women and 2.7% in men . Among subjects with current major depression, 35.7% were taking an antidepressant and 27.4% a sedative/hypnotic. Estimated lifetime prevalence of major depression was 20.4% in women and 9.6% in men , decreasing with age¹⁴.

The community-based mental health studies in India have reported prevalence of depressive disorders in geriatric Indian population varies between 13% and 25%¹⁵⁻¹⁹

Risk factors for Depression

Emotional manifestations of depression include sadness, irritability, self-accusations and crying spells that dominated over cognitive, behavioral and physical manifestations of depression

Economic difficulty, physical punishment at school, teasing at school, Parental fights, beating at home and inability to cope up with studies

were found to be the causes of depression among school students²⁰

Adolescents with a family history of depression and exposure to psychosocial stress increased the prevalence of depression among adolescents²¹.

Besides gender and genetics, the important factors associated with depression in adolescents include low level of parental warmth, high levels of maternal hostility and escalating adolescent-parent conflict. Lifestyle is another important issue, as factors indicative of adoption of non-traditional lifestyle are associated with an increase in prevalence of depression²⁰

Depression among elderly results in reduced life satisfaction and quality, social deprivation, loneliness, increased use of health and home care services, cognitive decline, impairments in activities of daily living and suicide²².

Chronic illness, subjective health status, and cognitive impairment were significant factors associated with depression in elderly²³ The commonly reported physical illnesses in subjects with depression include those involving the musculoskeletal, cardiovascular and ophthalmological systems.

Females are more prone to depression than males. The prevalence, incidence and morbidity risk of depressive disorders are more common in females beginning at mid puberty and persisting throughout adult life²⁴

Major Depression, Dysthymia, Atypical Depression and Seasonal Winter Depression are more common in females whereas Bipolar Disorders are more common in males. Female medical students have proven to have increased stress and anxiety .Health care professionals should take adequate steps in depression control giving special care to females²⁵.

Various studies have shown that women have high rejection sensitivity and were more depressed when they experienced a partner-initiated breakup but not when they experienced a self-initiated or mutually initiated breakup^{26,27}. Break up distress scale scores reported that sudden and unexpected break ups have made

them feel rejected and betrayed and were not willing to start a new relationship²⁸

A study done in 1988 using Children's Depression Inventory has shown that first-born children showed significantly higher levels of self-esteem and lower depression than second-born and youngest children²⁹. This finding is contrary to a few studies that showed higher birth order within the sibling group has been linked to heightened risk of depression and anxiety, as well as to lower self-esteem^{11,30,31}.

Children of high birth order are born into conditions characterized by restricted access to parental attention and supervision, which may result in less attention paid to the health and safety of these children during their first years of life, including lower awareness of children's psychological health and signs of psychiatric deviations. Genetic and Biological factors might have contributed to this. The theoretical basis for birth order has not been dealt in detail

Depression disrupts family life, yet families can be major forces of care, comfort, even cure. Those in nuclear families are at a higher depression risk than in extended or joint families^{22,32,33}. This may be due to the busy life and inadequate time to be with family and friends. Those who have a close friend are at a lesser depression risk than others²⁸.

The intake of trans fatty acids or the consumption of foods rich in fat, like fast food or commercial bakery products, have recently been reported as contributors to higher depression risk. Dietary patterns directly involved in cardio metabolic risk could also exert a detrimental effect on depression³⁴⁻³⁶. The role of vitamin B12 has been explained in a study conducted using Beck's depression inventory questionnaire³⁷. Further studies should be done to establish association between diet and depression.

Residential children were more likely to have blended families, were more likely to have previously received residential treatment, and had higher rates of conduct disorder, anxiety, and attention deficit disorder, as measured by the Diagnostic Interview Schedule for Children.

They showed significantly poorer academic performance and more often separated from the school under negative circumstances^{26,38,39}.

Smoking was found to increase the risk of developing an episode of Major Depressive Disorder and drug abuse/dependence and disruptive behavior disorders. These findings have important clinical implications, both for psychiatric care and for smoking prevention and cessation efforts^{40,41}.

Causal linkage exists between alcohol use disorders and major depression, such that increasing involvement with alcohol increases risk of depression. Further research is needed in order to clarify the nature of this causal link, in order to develop effective intervention and treatment approaches⁴².

Social media contains useful signals for characterizing the onset of depression in individuals, as measured through decrease in social activity, raised negative affect, highly clustered ego networks, heightened relational and medicinal concerns, and greater expression of religious involvement^{43,44}

Medical schools are known to be stressful environments for students and hence medical students have been believed to experience greater incidences of depression than others. The presence of a chronic disease, major life events and being a student at the clinical level were independently associated with depression⁴⁵

Academic Performance and Year of study contribute significantly to depression⁴⁶. First year and Final year of study has higher depression rates than others. This may be due to the increased work load in the final year of study of medical courses and home sickness and non-adaptive conditions experienced in the first year of study

The risk factors of depressive symptoms identified in medical students were females, older age, lower family income, students who did not choose admission in MBBS course on their own, had addictions, felt negatively about results, faced difficulty with study course and had relationship issues⁴⁷.

Tools to assess depression

In clinical and research work, apart from uniform diagnostic criteria, some means to objectively quantify the presence of particular symptoms and level of their severity is required. For this purpose, a number of rating scales have been devised worldwide, of which clinician rated Hamilton Depression Rating Scale (HDRS)⁴⁸, self reporting Beck Depressive Inventory, Montgomery-Asberg Depression rating scale (MADRS) as the most popular ones⁴⁹. Additionally scales like Amritsar Depressive Inventory (ADI) a self reporting scale has been developed on the basis of symptoms and signs of depression as manifested by Indian patient⁵⁰. Avasthi *et al* translated the PRIME-MD questionnaire in Hindi and showed that it is useful for screening various psychiatric disorders⁵¹. Brief Patient Health Questionnaire (PHQ) has also been translated in 11 languages and validated for Indian population⁵². Many studies have also evaluated the psychometric properties of various scales in India^{8,51,53,54}.

Prevention of depression

Recognising depression at the earliest stage is the best method of preventing complications of depression which affects our mental and physical state of health and Quality of Life.

A healthy diet, regular exercise, taking time out for fun and relaxation, not overworking, and saving time to do things you enjoy may work together to prevent a depressed mood.

For this screening at regular intervals at district level supervised by a competent authority is essential. Periodic Screening at schools and professional institutions will help in reducing depression prevalence among school children, youth and adolescents.

Establishing Counseling cells, Help lines accessible round the clock through phone calls, chats or mobile applications may help those undergoing emotional turmoil due to break ups or other severe mental stress. Activities promoting Healthy Friendships should be encouraged and all efforts should be undertaken to incorporate such activities in daily life.

Owing to the recurrent nature of the disorder, it is important not just to treat the acute episode, but also to protect against its return and the onset of subsequent episodes.

Several types of interventions have been shown to be efficacious in treating depression. The antidepressant medications are relatively safe and work for many patients, but there is no evidence that they reduce risk of recurrence once their use is terminated. Electro-convulsive therapy is particularly effective for the most severe and resistant depressions, but raises concerns about possible deleterious effects on memory and cognition⁵⁵.

Interpersonal approach aids as an effective method of treating depression. It has been shown to reduce acute distress and to prevent relapse and recurrence so long as it is continued or maintained.

Cognitive behavior therapy (CBT) also appears to be efficacious in treating depression, and recent studies suggest that it can work for even severe depressions in the hands of experienced therapists. Not only can CBT relieve acute distress, but it also appears to reduce risk for the return of symptoms as long as it is continued or maintained. Moreover, it appears to have an enduring effect that reduces risk for relapse or recurrence long after treatment is over⁵⁵.

Good medical management of depression can be hard to find, and the empirically supported psychotherapies are still not widely practiced. Although great strides have been made over the past few decades, much remains to be done with respect to the treatment of depression

“Let’s work together to attain complete mental health for all”.

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