Available online at www.ijpcr.com International Journal of Pharmaceutical and Clinical Research 2015; 7(1): 61-63

ISSN-0975 1556

Research Article

Prevalence of Depression among School Going Adolescents in South India

*Jayanthi P¹, Thirunavukarasu M²

¹SRM University, Chennai, India ²Dept. of Psychiatry, SRM Medical College Hospital & Research Institute, Kattankulathur, Tamilnadu.

Available Online: 1st January, 2015

ABSTRACT

Depression among adolescents has emerged as a major mental health problem. Psychiatric morbidity among school samples of adolescents was found in about 29% of girls and 23% of boys with depression being the most common disorder. To estimate the prevalence of depression among school going adolescents. A school based cross sectional survey was carried out at higher secondary schools in South India. A total of 2432 school going adolescents were screened and 25% (612) students with depression were confirmed by the Psychiatrist. Adolescent depression has to be identified at the earliest and providing prompt interventions will prevent future psychiatric illnesses.

Keywords: Prevalence, depression, adolescents.

INTRODUCTION

Depression among adolescents has emerged as a major mental health problem in the last two decades. Many prevalence studies document a substantial number of adolescents in the general population to suffer from depression with rates ranging from 8% to 20% [1,2] and associated with suicide, other psychiatric co-morbidity, academic failure, poor peer relationships, substance abuse and severe depression during adulthood [3]. Of course, the most devastating outcome of concern for adolescent depression is suicide, the third leading cause of death among adolescents.

In India, adolescent depression is an under researched area. Psychiatric morbidity among school samples of adolescents was found in about 29% of girls and 23% of boys with depression being the most common disorder^[4]. While rates of depression increase from childhood to adolescence for all, a consistent finding is that adolescent girls are between 1.5 to 3 times more likely to develop depression than adolescent boys^[5].

One way of addressing the issue of depression among adolescents in India is conducting studies that give an estimate of proportion of adolescents who experience depression at a given time. Such studies will reflect the mental health status of adolescents and can play an important part in determining and planning the kinds of services mental health interventions required. This study aimed to estimate the prevalence of depression among school going adolescents in South India.

MATERIALS AND METHODS

A school based cross sectional survey was carried out at higher secondary schools in South India, between July 2013 and January 2014. Ethical approval was obtained from the Institutional Ethics Review Board. Formal permission was obtained from the Chief Education Officer (CEO), Thiruvallur District and the Principal of private schools.

The sample was recruited from three private and one government higher secondary schools. A total of 2432 school going adolescents studying from 9th to 12th grade were screened using MINI-Kid ^[6,7], which is a screening tool for depression. 640 students who scored highly in Mini-kid were subjected to further assessment by the Psychiatrist, who confirmed their depressive status. 612 students from this high scoring group were enrolled for the study. Prior to data collection informed consent form was handed over to the 612 students and 598 parents gave their written informed consent. Finally 560 adolescents were confirmed as the study samples based on their availability, willingness and incomplete questionnaire.

Beck Depression Inventory (BDI)^[8], which has been proved to be a psychometrically sound measure for screening depression among adolescents^[9], was administered to the adolescents. BDI was used specifically to classify the case group adolescents into minimal, mild, moderate and severe depression. This inventory generally has high reliability and in the present study reliability score was 0.85.

Statistical analysis: Statistical analysis was performed using the Statistical Package for Social Sciences Programme (SPSS) version 17.0. Descriptive statistics was used to describe the demographic variables. Chi square test was used to find the association between the level of depression and the demographic variables.

RESULTS

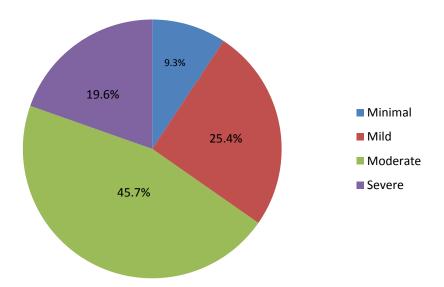


Fig. 1: Level Of Depression Among School Going Adolescents

Table 1: n=560	Association Between	en Level	Of	Depression	And	Demograpic Variables
Demographic variables		Level of De	pression			Chi square test
		Minimal	Mild	Moderate	Sever	re
		%	%	%	%	
Age	14 years	13.6	19.3	46.4	20.7	$\chi 2 = 47.05$
	15 years	7.9	21.4	39.3	31.4	p=0.001***
	16 years	13.6	35.7	37.9	12.9	•
	17 years	2.1	25.0	59.3	13.6	
Education	IX Standard	13.6	19.3	46.4	20.7	$\chi 2 = 47.05$
	X Standard	7.9	21.4	39.3	31.4	~
	XI Standard	13.6	35.7	37.9	12.9	p=0.001***
	XII Standard	2.1	25.0	59.3	13.6	•
Birth Order	First	8.1	23.9	45.1	22.9	$\chi 2 = 19.02$
	Second	9.9	23.2	49.8	17.2	p=0.03*
	Third	12.2	34.7	40.8	12.2	•
	Fourth and above	18.2	63.6	9.1	9.1	
Type of	Nuclear family	10.4	26.5	45.3	17.8	$\chi 2 = 16.43$
Family	Joint family	4.7	17.8	52.3	25.2	p=0.01**
	Extended family	10.5	42.1	15.8	31.6	1
Father's	Profession	14.8	22.2	50.0	11.1	
Occupation	Semi profession	7.1	32.1	50.0	19.3	
·	Clerical, shop-owner, farmer	6.6	27.5	47.3	12.3	χ2=28.75
	Skilled worker	5.6	21.0	51.0	25.3	p=0.05*
	Semi skilled worker	10.8	21.7	37.3	15.4	•
	Unskilled worker	17.1	31.7	36.6	24.2	
	Unemployed	0	33.3	66.7	0	
Mother's	Profession	8.3	25.0	58.3	8.3	
Occupation	Semi profession	11.8	17.6	52.9	17.6	
	Clerical, shop-owner, farmer	4.8	28.6	59.5	7.1	χ2=29.95
	Skilled worker	8.0	52.0	32.0	8.0	p=0.05*
	Semi skilled worker	19.2	7.7	46.2	26.9	•
	Unskilled worker	11.5	32.7	38.5	17.3	
	Unemployed	8.8	23.8	44.9	22.5	
Parenting	Autocratic	8.5	29.1	48.1	14.3	2 15 52
style	Democratic	9.4	21.0	45.0	24.6	$\chi 2 = 15.53$
	Laizee faire	11.3	35.5	41.9	11.3	p=0.01**

^{*}significant at p < 0.05, **significant at p < 0.01, ***significant at p < 0.001

50% (n=280) of adolescents were boys and 50% (n=280) were girls. The students ranged in age from 14-17 years. 25% (n=140) of adolescents from class IX, X, XI and XII grade were chosen in equal numbers. Majority of the adolescents 60.4% resides in urban region. 76.8% of adolescents belongs to Hindu religion and 77.5% of the adolescents belongs to nuclear family.

Six hundred and twelve adolescents (25%) were diagnosed to have depression during the study period. The Beck Depression Inventory scoring revealed that 45.7% of the adolescents had moderate and 9.3% had minimal depression [Figure 1].

DISCUSSION

Depressive disorders are identified by the World Health Organization as priority mental health disorder of adolescence because of its high prevalence, recurrence, ability to cause significant complications and impairment. The findings from this study give us an estimate of the proportion of adolescents experiencing depression indicating that many adolescents experience depression.

The study findings revealed that the overall mean depression score was 21.42 with standard deviation of 9.34. This findings was consistent with the study conducted by Rani Mohanraj, 2010^[10] and Vivek Bansal, 2009^[11].

There was a significant association between age and depression in the sample of adolescents. The present study reported that adolescents studying in 12^{th} grade and 17 years had moderate depression which was statistically significant at p < 0.001 level, because this is the time to think about their career paths and to reach their life goals. The current study is limited because of adolescents sickness, absenteeism, unwillingness, incomplete questionnaire and matching. We recommend that teachers and parents be made aware of this problem with the help of school counselors so that the depressed adolescents can be identified and helped rather than suffer silently.

CONCLUSION

This study has shown a high level of depression (25%) in a school sample of adolescents in South India, it is understood that a considerable number of adolescents are experiencing turmoil during this phase. This finding emphasizes the need for screening for depression and identifying adolescents who need further intervention. Similar studies like the current one could pave the way for school-based interventions that may help adolescents with depression which in turn could minimize the risk for progression into other serious problems like drug abuse, violence and suicide.

ACKNOWLEDGEMENT

We would like to thank The Chief Education Officer, Thiruvallur District for granting permission to carry out this study in the schools.

CONTRIBUTORS

JP: Conceptualisation of the study, collection, analysis of the data, writing the manuscript, finalised the manuscript and will act as the guarantor of the paper; **TM**: Conceptualisation of the study, edited, and critically evaluated the manuscript.

REFERENCES

- 1. Steinhausen HC, Metzke CW. Adolescent self-rated depressive symptoms in a Swiss epidemiological study. Journal of Youth and Adolescence 2009;29:427-37.
- 2. Gorenstein C, Andrade L, Zanola E, Artes R. Expression of depressive symptoms in a nonclinical Brazilian adolescent sample. The Canadian Journal of Psychiatry 2005;50:129-37.
- 3. Lewinshon PM, Hops H, Roberts RE, Seeley JR, Andrews JA. Adolescent psychopathology: I: Prevalence and incidence of depression and other DSM-III- R disorders in high school students. Journal of Abnormal Psychology 1993; 102:133-144.
- Sidana A, Nijhawan M. Prevalence of psychiatric morbidity in school going adolescent children and factors related. Indian Psychiatric Society. Paper presented at the 51st Annual National Conference of the Indian Psychiatric Society. Indian Journal of Psychiatry 1999; supplement.
- 5. Nolen-Hoeksema S. Sex differences in unipolar depression: Evidence and theory. Psychologicall Bulletin 1987; 101:259-82.
- 6. Sheehan D, Shytle D, Milo K, Lecrubier Y, Hergueta T. M.I.N.I KID Mini International Neuropsychiatric Interview for children and adolescents. 2005; Jan 1.p.6.
- Reliability and validity of the MINI International Neuropsychiatric Interview for children and adolescents. Available from: http://clinicaltrials.gov/ct2/. Accessed September 12, 2014.
- 8. Beck AT, Steer RA, Garbin MG. Psychometric properties of the Beck depression inventory: twenty five years of evaluation. Clinical Psychology Review 1988; 8 (1):77-100.
- Mona Basker, Prabhakar D Moses, Susila Russell, Paul Swamidhas, Sudhakar Russell. The psychometric properties of Beck depression inventory for adolescent depression in a primary care paediatric setting in India. Child and Adolescent Psychiatry and Mental Health 2007; 1:8.
- 10. Rani Mohanraj, Karunanidhi Subbhiah. Prevalence of depressive symptoms among urban adolescents in South India. Journal of Indian Association of Child and Adolescent Mental Health. 2010; 6(2): 33-43.
- 11. Vivek Bansal, Sunil Goyal, Kalpana Srivatsava. Study of prevalence of depression in adolescent students of a public school. Industrial Journal of Psychiatry 2009; 18 (1): 43-46