

Self-Reported Emotional and Behavioural Problems among Adolescents, Kathmandu

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ABSTRACT

Background

Adolescents are highly vulnerable to different types of behavioural problems that can affect their academic and social lives. If left untreated, serious mental illness can develop.

Objective

The objective of this study was to find out emotional and behavioural problems among adolescents.

Method

A descriptive cross-sectional study was conducted among 275 adolescents studying in grades 7-11 at five private schools in Kathmandu. A non-probability convenience sampling technique was used to select required sample. The self-reported Strengths and Difficulties Questionnaire was used to collect data. Ethical approval was obtained from the Institutional Review Committee at the Institute of Medicine, Tribhuvan University. Descriptive statistics were used to analyse the data. The chi-square test was used to measure the association between behavioural problems and selected variables at a 95.0% confidence level.

Result

The mean age of the adolescents was 13.66 (SD ± 1.13) years, and 53.1% were female. In total, 7.3% and 13.8% of adolescents had abnormal and borderline levels of behavioural problems (total difficulties), respectively. Across different domains of difficulty levels, 5.0%, 12.0%, 3.3%, 5.5%, and 1.5% of adolescents had abnormal levels of emotional problems, conduct problems, hyperactivity/ inattention problems, peer relationship problems, and pro-social behaviours, respectively. Fathers' occupation was significantly associated with behavioural problems among adolescents ($p=0.020$), and 15.3% of adolescents had a significant impact on their daily life, such as at home, with friends, in the classroom, or during leisure activities, due to emotional and behavioural difficulties.

Conclusion

Emotional and behavioural problems are quite prevalent among adolescents and have a significant adverse impact on their daily lives.

KEY WORDS

Adolescents, Behavioural and emotional problems, Self-report, Strengths and difficulties questionnaire

INTRODUCTION

Adolescence is a transitional stage from childhood to adulthood that occurs between ages 10 and 19 years. The adolescent period is considered a time of storm and stress.¹ Adolescents are highly vulnerable to psychiatric disorders, and the global prevalence of mental disorders in children and adolescents is 10.0-20.0%.^{2,3} Half of all mental illnesses begin by the age of 14 and three-quarters before the age of 25.^{3,4} Globally, depression is one of the leading causes of illness and disability among adolescents. Suicide is one of the top three leading causes of death in 15-19 years old.⁵ In developing countries, 10.5 % of adolescents suffer from mental health problems, with a significant proportion experiencing conduct problems.⁶ In Nepal, adolescents constitute 24.1% of the population, comprising nearly one-fifth of the total population.⁷ The prevalence rates of behavioural problems among adolescents in Nepal vary across different studies conducted in various areas. The prevalence of behavioural problems was 35.0% in Eastern Nepal and 30.0% in the city of Pokhara, Nepal.^{8,9} The clinical prevalence of anxiety disorders was reported to range from 18.8% to 24.4%, while that of Attention Deficit Hyperactivity Disorder (ADHD) was 10.0 to 11.7% in various clinical samples of children and adolescents.¹⁰ Mental health promotion and prevention are key to helping adolescents thrive.⁵ The consequences of not addressing adolescent mental health conditions extend to adulthood, impairing both physical and mental health and limiting opportunities to lead fulfilling lives as adults. However, very few studies about emotional and behavioural problems among adolescents in Nepal have been conducted. This study aimed to identify emotional and behavioural problems among adolescents in Kathmandu.

METHODS

A descriptive cross-sectional study was conducted among adolescent students in Kathmandu. The study included students aged between 11 and 17 years studying in grades 7 to 11 from five private schools in Kathmandu. The required information was collected from these schools using non-probability convenience sampling techniques. The sample size was 275, calculated using the formula $n=4pq/l^2$ with a 6.0% allowable error, a prevalence of 35.0% from a previous study, and 10.0% non-response rate.⁸ A structured, validated, self-reported Strengths and Difficulties Questionnaire (SDQ) was used as the research instrument for data collection.¹¹ The questionnaire consisted of questions related to socio-demographic characteristics and behaviour problems i.e. the SDQ and an Impact supplement.

The SDQ is a brief behavioural screening tool for adolescents aged 11-17 years old. It exists in several versions to meet the needs of researchers, clinicians, and educators. The validated version of SDQ has 25 questions. These 25 items

are divided into five scales: Emotional symptoms (5 items), Conduct problems (5 items), Hyperactivity/inattention (5 items), Peer relationship problems (5 items), and Pro-social behaviour (5 items). The second item of the conduct problems subscale; the fourth and fifth items of the hyperactivity subscale; and the second and third items of the peer problems subscale are positive statements, while the remaining items are negative statements. This is a three-point Likert scale. The Impact Supplement extended version of the SDQ asks whether the adolescents think the young person has a problem and, if so, inquires further about chronicity, distress, social impairment, and burden to others. For this supplement, a total of 5 items are included in the scoring system.¹²

The SDQ is easiest to score by completing all five scales first before calculating the total difficulties score. 'Somewhat True' is always scored as 1, but the scoring of 'Not True' and 'Certainly True' varies depending on the item. Each of the five scales can have a score ranging from 0 to 10 if all items are filled out. The total difficulties score is obtained by adding scores from all scales except the pro-social scale, resulting in a total score ranging from 0 to 40. When using a version of the SDQ that includes an 'impact supplement', the items on overall distress and impairment can be added together to generate an impact score ranging from 0 to 10.¹¹

Cut off-points for SDQ Scores: Original Three-band Categorization¹²

Self-completed SDQ	Normal	Borderline	Abnormal
Total difficulties score	0-15	16-19	20-40
Emotional problems score	0-5	6	7-10
Conduct problems score	0-3	4	5-10
Hyperactivity score	0-5	6	7-10
Peer problems score	0-3	4-5	6-10
Pro-social score	6-10	5	0-4
Impact score	0	1	2-10

The SDQ has been widely used to assess mental health problems, emotional and behavioural problems and strengths among children and adolescents.¹² The reliability of the SDQ was satisfactory, with a mean Cronbach's α of 0.73; cross-informant correlation mean of 0.34, and mean retest stability after 4 to 6 month of 0.62. SDQ scores above the 90th percentile predicted a substantially raised probability of independently diagnosed psychiatric disorders (mean odds ratio: 6.2 for youth scales).¹³

Both the validated Nepali and English versions of the SDQ are available in the public domain. However, copyright permission was obtained through email. The SDQ is frequently used in Nepalese adolescent populations in different studies.^{8,13}

Ethical approval was obtained from the Institutional Review Committee at the Institute of Medicine. Written permission was obtained from the respective schools' administration.

Due to the COVID-19 pandemic situation, virtual means for data collection were applied. The study tool was converted to a Google survey form in both English and Nepali languages within the same Google form. With the help of the school administration, virtual meetings with students and parents were conducted via the Zoom application. At the school administration's request, researchers conducted a 45-minute session on adolescent health and adolescent-friendly health services provided by the Nepal government to the students before collecting data. The purpose and procedure of the study were explained to the adolescents. Verbal informed consent was obtained from both adolescents and parents before distributing the questionnaire. The adolescents were invited to a Zoom class, and a Google Forms questionnaire link was shared with 275 adolescents. Clear verbal and written instructions on how to complete the online questionnaire were provided.

All the adolescents were volunteers, and they were allowed to object to their participation at any point in the study. The completed questionnaire was requested to be sent back to the researchers. Only 275 adolescents had submitted a completed Google form questionnaire. The duration of data collection was from May first to June 30, 2020. All data were transferred to a Google spreadsheet; then checked and cleaned for completeness and internal consistency of information. Data were again exported to SPSS Version 20.0 for further analysis. All data were rechecked and cleaned to minimize errors. Initially, the data were analysed using frequency, mean, and percentage, and then chi-square was used to examine the association between behavioural problems and selected variables at a 95.0% confidence level.

RESULTS

Regarding the socio-demographic characteristics, the mean age of the adolescents was 13.66 (SD \pm 1.1) years. More than half (53.1%) were female; about two-thirds (65.8%) belonged to the upper caste group, and most (85.5%) of the adolescents followed Hinduism. Likewise, more than two-thirds (68.7%) of the adolescents lived in a nuclear family, and the majority (77.8%) were from within Kathmandu (Table 1).

Regarding parental education and occupation, a higher proportion of adolescents' mothers (42.2%) had a secondary level of education, while fathers (49.8%) had a higher level of education. Similarly, more than half of the adolescents' mothers (55.3%) were house managers (household work), and fathers (50.9%) were in service (Table 2).

Prevalence of Behavioural Problems and Total Difficulties in Adolescents

Among the adolescents, most scored within the normal range for behavioural problems in all five domains. Only

Table 1. Socio-demographic characteristics of adolescents n=275

Characteristics	Number	Percent
Age	Range= 11-17 years, Mean \pm SD= 13.66 \pm 1.13	
Sex	Female	146 53.1
	Male	129 46.9
Ethnicity	Upper-caste groups	181 65.8
	Relatively advantaged Janajati	57 20.7
	Disadvantage Janjati	30 10.9
	Disadvantage non-Dalit Terai	5 1.8
	Dalit	1 0.4
Religion	Religious minorities	1 0.4
	Hinduism	235 85.5
	Buddhism	34 12.4
Family Type	Others	6 2.2
	Nuclear	189 68.7
Permanent Residence	Joint	77 28
	Extended	9 3.3
Permanent Residence	Kathmandu	214 77.8
	Bhaktapur	4 1.5
	Lalitpur	1 0.4
	Outside Kathmandu Valley	56 20.4

Table 2. Parental education and occupation of the adolescents n=275

Variables	Number	Percent
Mothers' education	Secondary level education	116 42.2
	Higher education	87 31.6
	Basic level education (1-8)	39 14.2
	Informal education (Can read and write)	20 7.3
	Cannot read and write	13 4.7
Fathers' education	Higher Education	137 49.8
	Secondary level education	103 37.5
	Basic level education (1-8)	26 9.5
	Informal education (Can read and write)	8 2.9
Mothers' occupation	Cannot read and write	1 0.4
	House manager	152 55.3
	Service	82 29.8
Fathers' occupation	Business	39 14.2
	Agriculture	2 0.7
	Service	140 50.9
	Business	116 42.2
	Daily worker	14 5.1
Fathers' occupation	Agriculture	3 1.1
	House manager	2 0.7

a small percentage of adolescents exhibited abnormal emotional problems (6.5%), conduct problems (12.0%), hyperactivity or inattention (3.3%), peer problems (5.5%), and pro-social behaviour (1.5%) (Table 3).

Table 3. Emotional and behavioural problems of the adolescents n=275

Problems	Number	Percent	Mean score ±SD
Internalizing problems Subscales			
Emotional problems			
Normal (0-5)	235	85.5	3.28 ± 2.09
Borderline (6)	22	8.0	
Abnormal (7-10)	18	6.5	
Peer problems			
Normal (0-3)	211	76.7	2.50±1.64
Borderline (4-5)	49	17.8	
Abnormal (6-10)	15	5.5	
Externalizing problems Subscales			
Hyperactivity/Inattention			
Normal (0-5)	243	88.4	3.12±1.94
Borderline (6)	23	8.4	
Abnormal (7-10)	9	3.3	
Conduct problems			
Normal (0-3)	215	78.2	2.33± 1.7
Borderline (4)	27	9.8	
Abnormal (5-10)	33	12.0	
Other problems Subscale			
Pro-social behaviour			
Normal (6-10)	247	89.8	8.12±1.71
Borderline (5)	24	8.7	
Abnormal (0-4)	4	1.5	

Based on the SDQ score, the majority (78.9%) of adolescents reported a normal score, while only 7.3% and 13.8% of adolescents reported symptoms at abnormal and borderline levels of total difficulties, respectively (Table 4).

Table 4. The total difficulties (Behavioural problems) of the adolescents n=275

Total difficulties	Number	Percent	Mean Score ± SD
Normal (0-15)	217	78.9	11.23±5.39
Borderline (16-19)	38	13.8	
Abnormal (20-40)	20	7.3	

Association between Behaviour Problems of Adolescents and Selected Variables

The behavioural problems among adolescents are significantly associated with the father’s occupation (p-value =0.02) (Table 5).

Impact of Behavioural Problems (Difficulties) on Adolescents’ Day-to-Day Life

The impact of the behavioural problems of the adolescents on their daily activities, such as home life, friendships, classroom interactions and leisure activities was also assessed in the study. When adolescents were asked if they had difficulties in one or more areas such as emotions, concentration, behaviour, or getting along with others,

Table 5. Association between behavioural problems and selected variables n=275

Variables	Behavioural problems			χ ²	P-value
	Normal No. (%)	Borderline No. (%)	Abnormal No. (%)		
Gender					
Female	113 (77.4)	24 (20.2)	9(10.6)	2.162	0.356
Male	104 (80.6)	14(17.8)	11(9.4)		
Mothers’ education					
Secondary level	98(84.5)	11(9.5)	7(6.0)	12.765	0.117
Higher level	68(78.2)	12(13.8)	7(6.3)		
Basic level	32(82.1)	5(12.8)	2(5.1)		
Informal (Can read and write)	11(55)	6(30)	3(15)		
Cannot read and write	8(61.5)	4(30.8)	1(7.7)		
Father’s education					
Higher level	111(81)	15(10.9)	11(8)	6.115	0.552
Secondary level	81(78.6)	15(14.6)	7(6.8)		
Basic level	19(73.1)	5(19.2)	2(7.7)		
Informal (Can read and write)	5(62.5)	3(37.5)	0 (0.0)		
Cannot read and write	1(100)	0(0.0)	0(0.0)		
Mother’s occupation					
House manager	119(78.3)	24(15.8)	9(5.9)	5.658	0.441
Service	67(81.7)	9(11)	6(7.3)		
Business	30(76.9)	4(10.3)	5(12.8)		
Agriculture	1(50)	1(50)	0(0.0)		
Father’s occupation					
Service	112(80)	21(15)	7(5.0)	21.721	0.020
Business	94(81.0)	14(12.1)	8(6.9)		
Daily worker	8(57.1)	1(7.1)	5(35.7)		
Agriculture	2(66.7)	1(33.3)	0 (0.0)		
House manager	1(50)	1(50)	9(5.9)		
Family type					
Nuclear	143(75.7)	29(15.3)	17(9)	8.741	0.071
Joint	68(88.3)	6(7.8)	3 (3.9)		
Extended	6(66.7)	3(33.3)	0 (0.0)		

183 adolescents responded “yes.” Among them, 15.3% and 18.6% of adolescents had abnormal and borderline impacts, respectively, on their day-to-day life (Table 6).

Table 6. Impact of behavioural problems n=183

Impact score	Number	Percent	Mean score ± SD
Normal (0)	121	66.1	0.60±1.05
Borderline (1)	34	18.6	
Abnormal (2-10)	28	15.3	

DISCUSSION

In this study, 6.5% of adolescents had abnormal emotional problems. This finding is similar to the findings of a study conducted in Tansen, Nepal and lower than the study in eastern Nepal where 7.0% and 13.3% had abnormal emotional disorders, respectively.⁸ Likewise, another study reported emotional problems in 24.5% of adolescents.¹⁴ A study in India reported emotional problems in 33.7% of adolescents.¹⁵ These variations might be due to differences in study time, setting, and population. In this study, 8.0% of adolescents had a risk for developing (borderline) emotional problems, which is similar to the findings of the study in eastern Nepal and Tansen, where 8.0% and 9.8% had borderline emotional problems, respectively.^{8,16}

In the present study, 12.0% of adolescents had abnormal conduct problems, which is similar to the study conducted in eastern Nepal, where 11.2% had abnormal conduct problems.⁸ However, a study conducted in Dhaka and Gujrat reported that 20.9% and 31.7% of school-going children had conduct problems, respectively.^{17,18} Similarly, 9.8% of adolescents were also at risk for developing (borderline) conduct problems in the current study, which is slightly lower than the study in eastern Nepal, where 11.5% had borderline conduct problems.⁸ This difference may be attributed to variations due to differences in study settings and populations.

In this study, only 3.3% and 8.4% of adolescents had abnormal and borderline levels of hyperactivity or inattention problems, respectively. These findings are lower than the study conducted in eastern Nepal, which reported 7.2% and 11.1% had abnormal and borderline hyperactivity problems among adolescents.⁸ Studies conducted in Bangladesh and India reported hyperactivity in 1.5% and 6.9% of children with abnormal hyperactivity problems, respectively.^{17,18} This difference may also be due to variations in study settings and populations.

In this study, 5.5% and 17.8% of adolescents had abnormal and borderline peer problems, respectively. These findings are almost similar to the findings of a study done in eastern Nepal, which reported that 4.9% and 15.9% of adolescents had abnormal and borderline peer problems.⁸ However, studies conducted in Bangladesh and India reported that 22.4% and 18.0% of children had abnormal and borderline peer problems.^{17,18} This study found that 1.5% of adolescents had abnormal pro-social behaviour, which is similar to the findings of the study conducted in eastern Nepal, where 2.1% of adolescents had abnormal pro-social behaviour.⁸ These findings are lower than the study conducted in Bangladesh and India, where 54.1% and 14.4% of school-going children had abnormal pro-social behaviour.^{17,18} These differences might also be due to variations in study settings and populations. This study found that 8.7% of adolescents

had a risk for developing (borderline) pro-social behaviour whereas a study in eastern Nepal reported that 4.4% of adolescents had borderline problems in social activities.⁸

This study found that 7.3% of adolescents had an abnormal level of behavioural problems (total difficulty score), which is slightly lower than the similar study done in different parts of Nepal where 10.0%, 21.7%, 35.0%, and 30.0% of adolescents had an abnormal level of behavioural problems.^{8,9,19-21} These differences might be due to differences in the study setting, population and screening tools. Similarly, 13.8% of adolescents had a borderline total difficulty score in the present study. This finding is almost similar to the study in western Nepal, where 15.0% had a borderline total difficulty score.²⁰ However, the study in eastern Nepal reported a 30.7% borderline total difficulty score.⁸ This difference might also be due to differences in the study setting and population. Studies in different parts of India reported that 30.4%, 20.9%; 27.2%, and 22.7% of adolescents had behavioural problems.^{2,18,19,22}

The behavioural problem among adolescents is significantly associated with the father's occupation (p -value = 0.02) in this study. In contrast to this finding, the mother's occupational status appeared as a significant predictor of a child's emotional and behavioural disorder reported in India.¹⁸ This difference might also be due to differences in the study setting and population. Similarly, a study done in Korea reported that significant factors associated with emotional/behavioural problems included Body Mass Index (BMI); study tendencies in boys, and drinking, study tendencies, and economic levels in girls.²¹ Studies in Ethiopia reported that lower age, having a non-kin caregiver, parental loss and having a distressed caregiver had a statistically significant association with emotional and behavioural problems (EBPs).⁸ Another study in Egypt reported that emotional difficulties were significantly higher among females compared to males. Conduct difficulties, peer problems, pro-social behaviour, and total difficulties were significantly higher among urban adolescents compared to rural students.¹⁷ These differences might also be due to differences in the study setting and population.

The present study has some limitations, such as a small sample size from only five private schools in Kathmandu using convenience sampling techniques. Additionally, only the SDQ self-report questionnaire was used, and the teacher and parent versions were not utilized.

CONCLUSION

The majority of the adolescents had scored above normal. However, a few adolescents had behavioural problems and another had a risk of developing behavioural problems. Domain wise difficulty prevalence suggests a higher

proportion of adolescents had conduct problems compared to other emotional, hyperactivity, peer relationship, and social activities problems. Father's occupations appeared to be significantly associated with behavioural problems.

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