Parents’ Personality Disorders as Predictor of Substance Use Disorder in Children and Adolescents

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Abstract
Background: This study investigated how the parents’ personality disorders may be related to substance use disorder in children and adolescents.

Methods: The study was a cross-sectional study in which 28,540 children and adolescents (aged 6 to 18 years) and their parents participated between 2015 and 2016. The diagnosis of substance use was made using the Kiddie Schedule for Affective Disorders and Schizophrenia--Present and Lifetime Version (K-SADS-PL) interview and the personality disorders were assessed using Millon Clinical Multiaxial Inventory - Third Edition (MCMI-III). The parents were also surveyed for their personality assessed with MCMI.

Results: The results showed that the paranoid personality disorder in father (odds ratio [OR] = 8.34, 95% CI, P = 0.042) and borderline personality disorder in mother (OR = 4.6, 95% CI, P = 0.049) increase the chance of substance use in children.

Conclusion: The findings suggest that in designing preventive programs for substance use, the personality characteristics of the parents need to be taken into account.

Keywords: Adolescent, Child, Personality Disorders, Substance Use Disorder

Cite this article as: Mohammadi MR, Hojjat SK, Mostafavi SA, Khaleghi A, Hooshyari Z, Ahmadi N, et al. Parents’ personality disorders as predictor of substance use disorder in children and adolescents. Arch Iran Med. 2021;24(6):478-486. doi: 10.34172/aim.2021.69

Received: February 10, 2020, Accepted: September 16, 2020, ePublished: June 1, 2021

Introduction
Using substance in adolescents is a biosocial and cultural phenomenon and a crisis for the modern societies. A study in the United States in 2016 showed that 17.2% of the 8th grade students, 33.7% of the 10th grade students and 48.3% of the 12th grade students had used illegal drugs. The studies conducted in Iran have reported the prevalence of using tobacco at 12%, smoking experience at 16.9%, drug experience at 18.2% and substance use at 4.4% in students. The growing prevalence of drug use in adolescents is concerning and the scientific evidence suggests that starting to use different types of substances during adolescence increases the chance of dependency. Early use of substances also increases the susceptibility to drug-related disorders, which can be a strong predictor of academic failure, brain impairment, risky sexual behavior, unwanted pregnancy in adolescents, depression, attempting suicide and criminal activities. Given the importance of substance use in adolescents, it seems that understanding the related risk factors is necessary for its treatment and prevention. Studies show that factors such as family, society, personality, interpersonal interactions, environmental and situational factors can predict the risky behaviors and substance use in children and adolescents.

Family is an important factor in the development and prevention of substance use in adolescents. The growing literature has also emphasized the influence of the family both theoretically and empirically. The assumptions of social learning theory suggest that the family attitudes and parents’ behaviors are related to substance use in children. The system family therapy as a psychological approach also looks for the origins of psychiatric disorders and disorganized behaviors in the family. Furthermore, various studies have confirmed the effect of inheritance on the formation of certain behaviors including substance use. Accordingly, the personality characteristics of parents can play a role in substance use in children and adolescents. The parenting models have highlighted the role of parental characteristics in the formation of children's behaviors. In this field, studies have shown that there is a relationship between parents' mental and personality disorders and children's behavioral and mental problems. Several studies suggest that parental support, supervision, and responsibility are correlated with substance use in children and adolescents. However, there is limited information on the association between substance use in children and adolescents and personality disorders in parents. The current study intends to investigate the parents' personality traits and
disorders as predictors of substance use in children and adolescents.

**Materials and Methods**

**Sampling**
This study used data from a national, cross-sectional project in Iran that aimed at investigating the psychiatric disorders of children and adolescents and how they are related to parental personality. The sampling method was multi-stage clustering. Totally, 30,532 children and teenagers from 29 provinces participated in this study. Participants were selected from the main cities and rural populations of the provinces. To select the sample, clusters were created. The urban and rural locations constituted the clusters, which amounted to 170 clusters. Next, within each cluster, blocks were formed to ensure equal distribution of gender and age in the sample. Each block contained girls and boys from the three age groups; 6-9 (9804 people), 10–14 (9993 people), and 15–18 years (8743 people) (see Table 1 for the number of children and adolescents in each age group). To form a block, individuals from each age group and gender were assigned to a block. In other words, each block included 6 individuals (boys and girls from three age groups). After screening the children and adolescents, 227 individuals were found addicted to different types of substances (totally, 37 blocks of 6 individuals + a block of 5 individuals). The parents of these children and adolescents and those of the non-addicted (totally 30,255 children and adolescents) were surveyed in terms of personality disorders to estimate how parents’ personality disorders can predict substance use disorder in children and adolescents. During the study, 1715 individuals in the non-addicted group quit or were removed from the study. Hence, a total number of 28,540 non-addicted children and adolescents (totally, 4756 blocks of 6 individuals + a block of 4 individuals) remained in the study (see Table 1 for the statistics of the children and adolescents and Table 2 for various types of substances used by the children and adolescents).

The inclusion criteria were being within the age groups of 6-9, 10-14, and 15-18 years, willingness to participate (permitted by parents), signing the informed consent form (by parents), and fully completing the K-SADS-PL and Millon Clinical Multiaxial Inventory - Third Edition (MCMI-III) (completed by parents). The exclusion criteria were not having any parents and unwillingness to continue the study.

**Data Collection**
The actual data were drawn from a national study on the prevalence of substance use disorder among Iranian children and adolescents in 2016. To carry out the national study, eight clinical psychologists were selected from each province. These psychologists were trained how to administer Kiddie Schedule for Affective Disorders and Schizophrenia--Present and Lifetime Version (K-SADS-PL) that was installed on Android tablets. According to the protocol, psychologists identified the eligible children and adolescents and recorded their demographic information. Before collecting data, consents were obtained from the children’s families. The K-SADS-PL was then used by the clinical psychologists to interview the participants and administer the K-SADS-PL.

| Table 1. Socio-demographic Characteristics of the Children and Adolescents | Total | With Substance Use Disorders | Without Substance Use Disorders (Comparison Group) |
|---|---|---|---|
| **Socio-demographic Characteristics** | **n (%)** | **n (%)** | **n (%)** |
| Boy | 13936 (48.8) | 193 (69.6) | 15115 (53) |
| Girl | 14604 (51.2) | 84 (30.4) | 13425 (47) |
| 6–9 | 9804 (34.4) | 53 (19.1) | 4861 (17) |
| 10–14 | 9993 (35) | 67 (24.3) | 7116 (25) |
| 15–18 | 8743 (30.6) | 157 (56.6) | 16563 (58) |

| Table 2. Status of Substance Abuse in Children and Adolescents | n | Percent |
|---|---|---|
| Cannabis (Marie, Pot, Hash) | 61 | 22 |
| Stimulants (speed, amphetamine, crystal, slimming pills) | 36 | 13 |
| Hypnotic/sedative/anti-anxiety drugs (barbiturates, benzodiazepines, diazepam, oxazepam, lorazepam, alprazolam (Xanax)) | 77 | 28 |
| Opioids (opium/sheer/heroin/morphine/methadone/codeine/pethidine) | 14 | 5 |
| PCP (phencyclidine)/angel power | 24 | 8.5 |
| Hallucinogenic material (LSD/Acid/Mescaline/Peyote/Mushroom) | 10 | 3.5 |
| Solvents or inhalants materials (glue/gasoline/chloroform/ether/colorants) | 2 | 0.7 |
| Others (prescribed drugs/nitrous oxide/ecstasy/methylene/amphetamine, etc.) | 24 | 8.7 |
their parents. As the first draft of this research's proposal and the data collection was conducted in year 2015, the K-SADS-PL used was based on DSM IV. Due to the fact that we considered four criteria for diagnosing substance use disorder, it can be argued that the substance use disorder in the current study was in the range of moderate intensity in terms of DSM V criteria. To assess parental personality disorders and personality traits, parents were instructed to complete the MCMI. For more information on the method of data collection, it should be noted that assessors of parental personality characteristics were blinded to the addiction status of children and adolescents. To assure proper data collection, the psychologists were frequently monitored through repeated phone calls to remind them of the proper assessment procedure and up-to-date report of data collection. The missing data were managed through pairwise deletion. The main confounder in the current study was the education status of parents, which was taken into account by calculating the adjusted OR. The response rate was calculated by dividing the number of completed surveys by the number of participants which was 91.33% for K-SADS-PL and 88.26% for MCMI-III. Data collection in the field lasted about 6 months.

Kiddie-SADS-Present and Lifetime Version
K-SADS-PL is a semi-structured interview designed to assess the current and past episodes of mental illnesses in children and adolescents. It includes five diagnostic categories: (1) mood disorders such as depression disorders (major depression, dysthymia), mania, and hypomania; (2) psychotic disorders; (3) anxiety disorders such as social phobia, agoraphobia, specific phobia, obsessive-compulsive disorder, separation anxiety disorder, general anxiety disorder, panic disorder, and post-traumatic stress disorder; (4) behavioral disorders such as ADHD, conduct disorder, and oppositional defiant disorder; (5) substance use, tic disorders, eating disorders and elimination disorders. This semi-structured interview is based on Diagnostic and Statistical Manual of Mental Disorders, 4th Edition. The interview started with questions about demographic information. In addition, information was obtained on previous psychiatric complaints and problems.

The K-SADS, Farsi version has excellent test–retest measures and reported adequate reliability. The results of regression analysis indicate that paranoid personality disorders and personality traits, parents were instructed to complete the MCMI. For more information on the method of data collection, it should be noted that assessors of parental personality characteristics were blinded to the addiction status of children and adolescents. To assure proper data collection, the psychologists were frequently monitored through repeated phone calls to remind them of the proper assessment procedure and up-to-date report of data collection. The missing data were managed through pairwise deletion. The main confounder in the current study was the education status of parents, which was taken into account by calculating the adjusted OR. The response rate was calculated by dividing the number of completed surveys by the number of participants which was 91.33% for K-SADS-PL and 88.26% for MCMI-III. Data collection in the field lasted about 6 months.

Data Analysis
The collected data from all provinces were screened for any incomplete data. In this study, the odds ratio (OR and 95% CI) was used to determine the predictors of substance use in children and adolescents based on the personality disorders and personality traits of parents. To control for the effects of confounders, adjusted OR was taken into account.

Results
The total number of fathers participating in this study was 18081 with an average age of 43.29 ± 7.62 years, and the total number of mothers was 26143 with an average age of 38.09 ± 6.62 years. Based on the results of K-SADS-PL, 277 children and adolescents were identified as substance users. When the parents of the substance users (146 fathers and 216 mothers) completed the MCMI-III, logistic regression was run to understand how well the personality traits and disorders of the parents predict the substance use in children and adolescents. The demographic characteristics of the parents including age, education, and occupation are presented in Table 3.

Personality Disorders of the Parents as Predictors of Substance Use in Children and Adolescents
In this study, regression models were used to investigate how parents' personality disorders such as schizotypal, borderline and paranoid disorders can predict substance use in children and adolescents.

Odds Ratios of Substance Use in Children and Adolescents According to the Personality Disorder of the Fathers
Odds ratios (ORs) indicating the relationship between substance use in children and adolescents and personality disorders in fathers are presented in Table 4.

The results of regression analysis indicate that paranoid personality disorder in fathers is significantly correlated with substance use in children and adolescents (P = 0.04). Those whose fathers had paranoid personality disorder were 8 times more likely to use substance than other children and adolescents (OR = 8.34, CI = 1.09–64).

Odds Ratios of Substance Use in Children and Adolescents According to the Personality Disorder of the Mothers
The results (Table 5) showed a significant correlation
Parents’ Personality in Youth Users

Table 3. Distribution of Demographic Characteristics of Parents

| Demographic Variables | For addicted children No. (%) | For non-addicted children No. (%) |
|-----------------------|--------------------------------|----------------------------------|
| **Mothers**           |                                |                                  |
| Educations            |                                |                                  |
| Illiterate            | 157 (44.7)                     | 2545 (9.9)                       |
| Primary school        | 99 (28.2)                      | 4189 (16.2)                      |
| Guidance and high school | 70 (19.9)                 | 6121 (23.7)                      |
| Diploma               | 17 (4.8)                       | 6037 (23.4)                      |
| Bachelor              | 3 (0.9)                        | 4284 (16.6)                      |
| Master’s or higher    | 1 (0.3)                        | 2286 (8.9)                       |
| Missing               | 4 (1.1)                        | 327 (1.3)                        |
| Total                 | 351 (100)                      | 25789 (100)                      |
| Jobs                  |                                |                                  |
| Housewife             | 216 (61.5)                     | 14422 (55.9)                     |
| Laborers              | 125 (35.6)                     | 4120 (16)                        |
| Tradesman             | 1 (0.3)                        | 3776 (14.6)                      |
| Retired               | 3 (0.9)                        | 3777 (14.6)                      |
| Employee              | 3 (0.9)                        | 4405 (17)                        |
| Teacher               | 0 (0)                          | 4185 (16.2)                      |
| Faculty member        | 0 (0)                          | 3717 (14.4)                      |
| Missing               | 3 (0.9)                        | 279 (1)                          |
| Total                 | 351 (100)                      | 25789 (100)                      |
| **Fathers**           |                                |                                  |
| Educations            |                                |                                  |
| Illiterate            | 123 (60.6)                     | 1836 (10.3)                      |
| Primary school        | 38 (18.7)                      | 2816 (15.8)                      |
| Guidance and high school | 7 (3.4)                 | 3449 (19.3)                      |
| Diploma               | 13 (6.4)                       | 4027 (22.5)                      |
| Bachelor              | 2 (1)                          | 3406 (19)                        |
| Masters or higher     | 0 (0)                          | 2104 (11.8)                      |
| Missing               | 2 (1)                          | 240 (1.3)                        |
| Total                 | 203 (100)                      | 17878 (100)                      |
| Jobs                  |                                |                                  |
| Unemployed            | 75 (36.9)                      | 1392 (7.8)                       |
| Laborer               | 95 (46.8)                      | 6043 (33.8)                      |
| Farmer                | 6 (3)                          | 1429 (8)                         |
| Businessman           | 3 (1.5)                        | 1416 (8)                         |
| Retired               | 6 (3)                          | 1671 (9.3)                       |
| Public sector         | 13 (6.4)                       | 3166 (17.7)                      |
| Teacher               | 3 (1.5)                        | 1390 (7.8)                       |
| Faculty member        | 0 (0)                          | 1161 (6.5)                       |
| Missing               | 2 (1)                          | 210 (1.2)                        |
| Total                 | 203 (100)                      | 17878 (100)                      |

Table 4. Odds Ratios (95% CI) for Children and Adolescents with Substance Use Based on Father's Severe Personality Disorders

| Severe Personality Disorders | Diagnostic Labels | Univariate OR (CI 95%) | Multivariate Adjusted OR (CI 95%) |
|------------------------------|-------------------|------------------------|----------------------------------|
| Schizotypal                  |                   |                        |                                  |
| No                           |                   | —                      | —                                |
| At risk                     | 2.1 (0.8–5.6)     | 2 (0.5–3.3)            |                                  |
| Yes                         |                   | —                      |                                  |
| Borderline                   |                   |                        |                                  |
| No                           |                   | —                      | —                                |
| At risk                     | 1.4 (0.4–4.3)     | 1.3 (0.1–3.2)          |                                  |
| Yes                         | 2.2 (0.3–15.6)    | 1.9 (0.2–9.2)          |                                  |
| Paranoid                     |                   |                        |                                  |
| No                           |                   | —                      | —                                |
| At risk                     |                   | —                      | —                                |
| Yes                         | 8.3 (1.1–64)*     | 7.1 (1.5–22)*          |                                  |

Adjusted OR, adjusted for education status of parents.
*Significant at the level ≤ 0.05.
between substance use and borderline personality disorder in mothers ($P = 0.049$). Therefore, children and adolescents whose mothers have borderline personality disorder are approximately 5 times more likely to be at risk of substance use than other children and adolescents (OR = $4.6$, 95% CI = $1.2–17.1$).

**Odds Ratios of Substance Use in Children and Adolescents According to the Personality Traits of the Fathers**

The results of regression analysis in Table 6 show that there is a significant correlation between schizoid personality disorder in fathers and substance use in children and adolescents ($P = 0.01$). Those whose fathers suffer from schizoid personality disorder are 16 times more likely to be at the risk of substance use (OR = $16.3$, CI = $2.44–108.7$). As seen in Table 6, there is also a significant relationship between the presence of histrionic personality disorder in fathers and substance use in children and adolescents ($P = 0.008$). The observed odds ratio (OR = $0.47$, CI = $0.27–82$) shows that those whose fathers have histrionic personality disorder have a lower chance of abusing substance.

**Odds Ratios of Substance Use in Children and Adolescents According to the Personality Traits of the Mothers**

Regression analysis indicated that substance use in children and adolescents is significantly related to histrionic disorder (OR = $0.005$), sadistic disorder (OR = $0.004$), and obsessive compulsive disorder (OR = $0.012$) in mothers (Table 7). As seen in Table 7, individuals whose mothers suffer from histrionic personality disorder (OR = $0.39$, CI = $0.20–0.76$) and obsessive compulsive disorder (OR = $0.53$, CI = $0.32–0.87$) are less likely to use substances. In addition, those whose mothers suffer from sadistic personality are 16 times more likely to use substances (OR = $16.3$, CI = $2.44–108.7$).

**Discussion**

The results showed that paranoid and schizoid personalities in fathers and borderline and sadistic personality in mothers can be predictors of substance use in children and adolescents. Furthermore, it was revealed that histrionic personality disorder in parents (both father and mother) and obsessive compulsive disorder in mother can lower the chance of substance use by children and adolescents.

Children and adolescents whose fathers suffered from paranoid personality disorder were 8 times more likely to use substances. No empirical study on the relationship between parents’ paranoid personality and substance use in children was found by the researchers to compare and contrast our findings. However, a study by Wilson and Durbin indicated that parents with paranoid personality disorder are less responsible towards their children.35 On the other hand, Dessaulles et al pointed to the intimacy between parents and children as a factor for preventing substance use in children.36 A study by Hair et al. showed that good relationship between children and parents can promote children’s mental health and reduce juvenile delinquency.37 The people with paranoid personality disorder are highly sensitive, suspicious and aggressive.38 Accordingly, parents with paranoid personality disorder would make the living environment insecure and full of tensions for children, a situation that may make the children susceptible to alcohol and substance use.

According to the results, children and adolescents whose mothers had borderline personality disorder were 8 times more likely to be at risk of substance and alcohol use. Barbo et al found that children and adolescents whose mothers suffered from borderline personality had difficulty in controlling impulse and aggression and were prone to delinquency. These children had lower self-esteem than children who had depressed mothers, mothers with disorders in cluster C, or mothers with no disorder.39 Nickell et al found that insecure connection between a child and a mother suffering from borderline personality can provide the ground for behavioral problems later in the life of the child.40 A study by Branstetter et al also supports the role of a supportive mother in preventing substance use in children.41 The present study also found that children whose fathers had schizoid personality were 16 times more likely to use substance and alcohol. People with schizoid personality are not willing to engage in social interactions and are apathetic.42 Parker’s study has shown that parents who were more successful in protecting their
children from substance use felt more responsible towards their children. It seems that the lack of intimacy and support by the father in developmental stages of children increases the probability of high-risk behaviors such as alcohol and substance use in adolescence.

Another finding of the study was that children with mothers suffering from sadistic personality were 16 times more likely to use substance and alcohol than other children. People with sadistic personality have been reported to show violent, humiliating, and aggressive behaviors towards others. Studies have shown that hostile behavior by parents and punishment by mother can hinder the development of prosocial development in children which can raise the risk of behavioral problems in children. Substance use by children of such mothers can be a defensive mechanism, especially when they are used by their loved ones.

The results of the current study indicate that histrionic personality in parents (both fathers and mothers) can be a protective factor against substance use by children. People with histrionic personality exaggerate a lot when expressing emotions, it is quite possible that their exaggeration about negative effects of drug use (Iranian families regularly warn their children about drug use) could have acted as a protection against substance use by children.
children. This conclusion requires further attention and scrutiny as it might work positively in Iranian families for the prevention of substance use by children.

According to the results of this study, obsessive-compulsive personality disorder in mothers was negatively associated with substance use in children. In this regard, various studies have supported the relationship between controlling, monitoring, and authoritative parenting styles and lower probability of drug use in adolescents.\(^43,44\) Wilson and Darwin found that parents, especially mothers, with obsessive-compulsive disorder tend to exert control over their children which may cause a lower chance of substance use in their children.\(^40\)

In conclusion, the present study showed that some parental personality traits (schizoid, histrionic in fathers; histrionic, sadistic, and obsessive compulsive in fathers) and personality disorders (borderline in mothers; paranoid in fathers) correlate with substance use in children. Some studies have reported the coexistence of some characteristics such as hostility, aggression, forcefulness in parents and maladaptive and abnormal behaviors in children.\(^25-27\) One of the main criteria for all personality disorders is disturbance in interpersonal relationships. Therefore, the relationship between substance use in children and adolescents and personality disorders in their parents can be explained using theories of interpersonal relationships. The findings of this study can be helpful for identifying the causes of early substance

| Clinical Personality Disorders | Diagnostic Labels | Univariate OR (CI 95%) | Multivariate Adjusted OR (CI 95%) |
|--------------------------------|-------------------|------------------------|----------------------------------|
| Schizoid                       | No                | Base line              | —                                |
|                                | At risk           | 2.3 (0.9–6.2)          | 2.2 (0.7–5.3)                    |
|                                | Yes               | —                      | —                                |
| Avoidant                       | No                | Base line              | —                                |
|                                | At risk           | 2 (0.5–7.3)            | 1.1 (1.2–6.8)                    |
|                                | Yes               | 4.6 (0.7–31.6)         | 3.9 (1–24.6)                     |
| Melancholic                    | No                | Base line              | —                                |
|                                | At risk           | 1.5 (0.8–2.7)          | 1.6 (0.9–1.1)                    |
|                                | Yes               | 1.3 (0.6–2.2)          | 1.1 (0.8–1.7)                    |
| Dependent                      | No                | Base line              | —                                |
|                                | At risk           | 1.5 (0.5–4.7)          | 1.9 (0.7–4.2)                    |
|                                | Yes               | 1 (0.2–6.3)            | 0.7 (0.7–4.3)                    |
| Histrionic                     | No                | Base line              | —                                |
|                                | At risk           | 0.6 (0.3–0.9)*         | 0.4 (0.3–0.8)*                   |
|                                | Yes               | 0.4 (0.2–0.8)**        | 0.3 (0.2–0.7)**                  |
| Narcissistic                   | No                | Base line              | —                                |
|                                | At risk           | 0.8 (0.3–1.8)          | 0.7 (0.2–1.5)                    |
|                                | Yes               | —                      | —                                |
| Anti-social                    | No                | Base line              | —                                |
|                                | At risk           | 7.7 (1–58)*            | 5.2 (1.7–28.1)*                  |
|                                | Yes               | —                      | —                                |
| Sadistic                       | No                | Base line              | —                                |
|                                | At risk           | 2.1 (0.6–7.1)          | 1.7 (0.5–4.3)                    |
|                                | Yes               | 16.3 (2.4–108.7)**     | 11.7 (2.9–63.9)**                |
| Obsessive compulsive           | No                | Base line              | —                                |
|                                | At risk           | 0.5 (0.2–1)            | 0.3 (0.2–1.5)                    |
|                                | Yes               | 0.5 (0.3–0.9)*         | 0.8 (0.3–0.6)*                   |
| Negativistic                   | No                | Base line              | —                                |
|                                | At risk           | 1.7 (0.9–3.3)          | 1.4 (0.6–2.2)                    |
|                                |                   | 2.4 (0.5–10.6)         | 2.1 (0.5–7.5)                    |
| Masochistic                    | No                | Base line              | —                                |
|                                | At risk           | 1.4 (0.5–3.7)          | 1.2 (0.2–3.3)                    |
|                                | Yes               | 0.7 (0.0–29.2)         | 0.5 (0.0–19.7)                   |

Adjusted OR, adjusted for education status of parents.

*Significant at the level ≤ 0.05.

**Significant at the level ≤ 0.01.
use in children and adolescents and adopting appropriate preventive programs.

To collect data on substance use, the K-SADS interviews were carried out in the presence of parents. Accordingly, the cases of substance use identified in the current study could be extreme cases of substance use. Therefore, more accurate comparisons of individuals that never used substance and those who had experienced substance were not possible.

Most studies on substance use have focused on specific populations. However, the participants of the current study were from all ethnicities and educational backgrounds; hence, the findings have the potential to be generalized to the entire community. Most studies have mainly focused on adolescents, but in the present study, children and adolescents aged 6 to 18 years were the subjects of the study.

**Authors’ Contribution**

MRM, SKH, SAM, AK And NA: Provincial implementation and data collection. ZH: Data analysis. MRM, SKH, FK and MNK: Writing the first draft of the manuscript. all authors provided critical comments on the manuscript.

**Conflict of Interest Disclosures**

Noting to declare.

**Ethical Statement**

All participants gave their informed consent. Also, the informed consent of adolescents over 15 years of age was given by themselves and their parents. This study was approved by the national institute for medical research development (NIMAD) ethics committee (the ethics code of IR.NIMAD.REC.1395.001 and grant number of 940906).

**Acknowledgements**

We thank all the psychologists and colleagues from all the provinces for their collaboration. We also thank the families and the children who participated in this study.

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