Child Abuse and Neglect Epidemiology in Secondary School Students of Yazd Province, Iran

Azar Pirdehghan, 1* Mahmood Vakili, 2 Yavar Rajabzadeh, 2 and Mohammad Puyandehpour 2

1Department of Community and Preventive Medicine, School of Medicine, Hamadan University of Medical Sciences, Hamadan, IR Iran
2Department of Community and Preventive Medicine, School of Medicine, Shahid Sadoughi University of Medical Sciences, Yazd, IR Iran
*Corresponding author: Azar Pirdehghan, Department of Community and Preventive Medicine, School of Medicine, Hamadan University of Medical Sciences, Hamadan, IR Iran. Tel: +98-8138103572, Fax: +98-8138102028, E-mail: pirdehghan93@gmail.com

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Abstract

Background: Child abuse is an issue that has many physical and psychological consequences.

Objectives: This study was designed and conducted to investigate the current situation regarding child abuse, which can be used as a guideline for planning future interventions.

Materials and Methods: This was a descriptive, analytic cross-sectional study on 700 Yazd secondary school students in 2013, using a standardized self-administered questionnaire. The collected data was analyzed using the SPSS v19 software and appropriate statistical tests and logistic regression analysis. P values of < 0.05 were considered statistically significant.

Results: Overall, 700 students (43%) were boys. Child abuse frequency was 93.5% (92.2% of boys and 94.4% of girls). The most common domains of child abuse among all students were neglect (83.8%), psychological (76.1%), physical (36.1%) and sexual (28.8%), respectively. The most common domains of child abuse among female students were neglect (84.9%), psychological (82.3%), physical (32.5%) and sexual (31.5%), and among male students, these were neglect (82.3%), psychological (67.9%), physical (41%) and sexual (25.3%). Demographic variables included substance abuse of parents, father’s education, parents’ living status and having other jobs, which were significantly related to child abuse and neglect (P = 0.004, which is statistically significant, the findings do support the hypothesis of a possible role for EBV in the pathogenesis of LCH). These results are in accordance with several previous investigations, with positive findings.

Keywords: Adolescent, Child Abuse, Epidemiology

1. Background

Child abuse is not a new phenomenon. It is an issue concerning millions of children and families all over the world. According to the Child Maltreatment Surveillance Center of Disease Control, child maltreatment is defined as "any act or series of acts of commission or omission by a parent or other caregivers that results in harm, potential for harm, or threat of harm to a child (1).

Physical, psychological and sexual abuses involve acts of commission whereas neglect involves act of omission, and it is defined as failure by a caregiver to meet a child’s needs (2, 3).

Among children confirmed as victims by Child Protective Services (CPS) agencies in 2011, 681000 children were victims of abuse and neglect nationwide. Overall, 78.5% of victims had experienced neglect and, this was the most common form of child maltreatment and 9.1% of the victims had been sexually abused (3, 4).

According to studies conducted in Germany, UK and the Netherlands, the prevalence of child abuse was 15, 13.6 and 4.9 in one thousand individuals, respectively (4). Death rates were 0.1 per 100000 in Spain, and 2.4, 3.0 and 3.7 per 100000 in the USA, Mexico and Portugal, respectively. Higher prevalence could be expected in underdeveloped and developing countries (5).

This social problem has been studied by many researchers in different parts of Iran. In a study done in 1993, Norouzi reported that 32, 23, 4.7 and 46.2% of high school students in Tehran were victims in terms of neglect, physical, psychological and sexual abuse, respectively (6).

Based on a study in Kerman, 20.2% of high school students had been abused physically and 33.61% had been abused psychologically (7). In a study done in Khoramabad, the prevalence of physical and psychological abuses was 58.2% and 91.6%, respectively, and sexual abuse among girls was 32.5% (8). In a recent study in the Qazvin province, Mahram et al. reported that 66.05% of participants in this study had experienced at least one type of abuse. Physical, psychological and neglect prevalence was 5, 60.1 and 38.3%, respectively (9).
Child abuse and neglect has various effects and consequences including physical, psychological, and educational problems. Physical inabilities, impaired development, depression, personality problems, attention deficit and low self-esteem are examples of the consequences of child abuse in children (10).

2. Objectives

Regarding the high prevalence of child abuse and neglect according to statistics, and since no similar studies have been conducted in the Yazd province, this study was designed and conducted to describe the current situation of child abuse in this Province. Dispelling this gap in knowledge could be alarming for health professionals and decision makers and lead to prevention and intervention programs aimed at reducing child abuse in adolescents.

3. Materials and Methods

In 2013, we conducted a cross-sectional survey at two levels of secondary schools (6th and 7th level) in the Yazd province located in the central part of Iran. Students in consenting schools were randomly selected from multiple cluster classes. Design effect of 1.6 was considered to calculate the sample size, and finally of the 745 students from 25 classes eligible to participate, 700 completed the questionnaire, for a response rate of 94%.

We applied a self-reported questionnaire, which consisted of two parts. The first part of the questionnaire included 20 demographic questions. In the second part a standard self-reported valid and reliable (minimum internal consistency for sexual domain α: 0.87) questionnaire was used for recording child abuse information, considering neglect and psychological, physical and sexual domains (11). All questions could be answered by a four-level scale (never, sometimes, often and almost always). To score the prevalence of child abuse and neglect in children (10).

The Prevalence of Child Abuse and Neglect in Four Domains of Physical, Sexual, Psychological and Neglect in Yazd Province

Table 1. The Prevalence of Child Abuse and Neglect in Four Domains of Physical, Sexual, Psychological and Neglect in Yazd Province During Year 2013 (N = 700)\textsuperscript{a}

| Domains of Child Abuse and Neglect | Positive | Negative | No Response |
|-----------------------------------|----------|----------|-------------|
| Neglect                           | 111 (15.9) | 575 (82.1) | 14 (2) |
| Psychological                     | 166 (23.7) | 528 (75.4) | 6 (0.9) |
| Physical                          | 438 (62.6) | 247 (35.3) | 15 (2.1) |
| Sexual                            | 488 (69.7) | 197 (28.1) | 15 (2.1) |

\textsuperscript{a}Data are presented as No. (%).
Table 2. The Prevalence of Child Abuse and Neglect According to Gender in Yazd Province During Year 2013 (N = 700)\(^a\)

| Domain of Child Abuse and Neglect | Female | Male   | P Value |
|-----------------------------------|--------|--------|---------|
| Psychological                     | 326 (82.3) | 201 (67.9) | < .001  |
| Physical                          | 126 (32.5)  | 121 (41)   | .02     |
| Sexual                            | 122 (31.5)  | 75 (25.2)  | .07     |
| Neglect                           | 331 (84.9)  | 242 (82.3) | .3      |
\(^a\)Data are presented as No.(%).

Table 3. The Relationship Between Neglect and Psychological Abuse, and Demographic Variables in the Yazd Province, During Year 2013

| Demographic Related Variables | Neglect | P Value | Psychological | P Value |
|-------------------------------|---------|---------|---------------|---------|
|                               | No      | Yes     | No            | Yes     |
| Parents drug abuse            | .002    | .009    |               |         |
| No                            | 102 (18.5) | 448 (81.5) | 143 (25.7) | 414 (74.3) |
| Yes                           | 8 (6.8)      | 110 (93.2) | 17 (14.4)  | 101 (85.6) |
| Father or mother education    | .01     | .4      |               |         |
| Academic                      | 14 (28)   | 36 (72)  | 14 (28)      | 36 (72)  |
| Non academic                  | 95 (15.2) | 529 (84.8) | 148 (23.5) | 483 (76.5) |
| Economical status             | .1      | .001    |               |         |
| Low                           | 24 (11)   | 160 (87) | 27 (14.4)    | 160 (85.6) |
| Mid                           | 57 (16.2) | 295 (83.8) | 91 (25.6)  | 264 (74.4) |
| High                          | 22 (22)   | 78 (78)  | 31 (32.4)    | 69 (67.6)  |

Table 4. The Relationship Between Child Abuse and Demographic Variables Regarding Physical and Sexual Domains, in the Yazd Province, During 2013

| Demographic Related Variables | Physical | P Value | Sexual | P Value |
|-------------------------------|----------|---------|--------|---------|
|                               | No       | Yes     | No     | Yes     |
| Parents drug abuse            | < .001   |         | .001   |         |
| No                            | 371 (67.6) | 178 (32.4) | 409 (74.5) | 140 (25.5) |
| Yes                           | 59 (50)      | 59 (50)   | 68 (58.6) | 48 (41.4)  |
| Father or mother education    | .046     | .04     | .046   | .04     |
| Academic                      | 38 (76)   | 12 (24)  | 42 (84)  | 8 (16)   |
| Non academic                  | 392 (62.9)| 231 (37.1)| 439 (70.5)| 184 (29.5)|
| Living situation              | .02      | .046    | .02    | .046    |
| With parents                  | 402 (64.4)| 222 (35.6)| 449 (72.1)| 174 (27.9)|
| With others                   | 7 (38.9)  | 11 (61.1)| 10 (52.6)| 9 (47.4)  |
| Student drug abuse            | .2       | .002    | .2     | .002    |
| No                            | 417 (64.7)| 228 (35.3)| 466 (72.4)| 178 (27.6)|
| Yes                           | 14 (53.8) | 12 (46.2)| 11 (44)  | 14 (56)   |
| Student job                   | .4       | .01     | .4     | .01     |
| No                            | 391 (64.6)| 214 (35.4)| 444 (73.3)| 162 (26.7)|
| Yes                           | 27 (58.7) | 19 (41.3)| 25 (55.6)| 20 (44.4) |
| Economical status             | .2       | .<.001  | .2     | .<.001  |
| Low                           | 107 (58.5)| 76 (41.5)| 123 (67.6)| 59 (32.4) |
| Mid                           | 233 (66.2)| 119 (33.8)| 272 (77.1)| 81 (22.9) |
| High                          | 65 (65)   | 35 (35)  | 58 (58)  | 42 (42)   |
5. Discussion

In our study, the prevalence of various forms of child abuse and neglect was high. Also, there was a significant difference in the prevalence of maltreatment between the two genders, regarding psychological and physical abuse. According to this study, 36.1% of the secondary school students in Yazd, who participated in the study, had a history of physical maltreatment. In a study conducted in Egypt, 79.9% of school boys and 62% of school girls were found to be subjected to physical punishment (12). In another study from South Africa, Madu et al. reported that 27% of students had experienced mild physical abuse (13).

In former studies, conducted in different parts of Iran, the overall child abuse rate was variable differing from 23% to 66% (6-9). In Kerman, 35% of school boys and girls had been abused physically, which is consistent with the results of our study (7). Namdari et al. in a study in Khoram Abad found that 58.2% of secondary school boys and girls had been subjected to physical abuse (14). In Kerman, this rate was 9.67% amongst high school students (15). These differences could be explained by different methods, instruments of data collection and the target population. Also various cultures and society definitions of abuse can contribute to different results.

Regarding the psychological domain, this study estimated that 83.8% of the students had been abused. Other studies indicated different rates. These rates were consistent with a study conducted in Tehran by Mohammad khani et al., reporting psychological abuse rate of 83.1% (16), whereas many other studies in Iran have reported lower rates. Miri from Bam reported a frequency of 33.6% for psychological abuse (15). Other studies have shown a prevalence of 60.1%, 17.9% and 45.8% in Qazvin, Kerman and Ahvaz, respectively (7, 9).

Regarding the neglect domain, our prevalence rate of 83.8% was higher than that of other studies. Madu et al. reported that 70.7% of the participants in a study from South Africa had been abused psychologically (13). Mahram et al. reported a prevalence of 32% (9). Khooshabi also reported a rate of 20.5% (17), and the studies conducted by Esami-Shahrbabaki et al. (7) and Mahram et al. (9) showed a prevalence of 24.59% and 38.3%, respectively. Different results in this domain can also be because of the use of different methods, especially in terms of questionnaire and cultures.

In contrast to many studies from Iran, this study found that the sexual domain had a prevalence of 28.8%. Mahram et al. in 1993, reported that 4.7% of participants in their study had suffered from sexual abuse (9). Also Namdari, in 2003 showed that 32.5% of girls at the investigated secondary schools had been abused sexually (14). Cypress Researchers reported that 47% of males and 53% of females experienced maltreatment in their childhood. Overall, 34% of the study population experienced both physical and emotional abuse; 28% emotional, 26% physical and approximately 5% sexual abuse (18).

Regarding the psychological domain of abuse, girls were abused more often than boys. In the physical domain, there was a statically significant difference between girls and boys; physical harm was often towards boys. Vizeh et al. found that gender had a significant relationship, concerning the incidence of maltreatment among high school students, yet based on their findings this factor was only statistically significant only for the emotional domain and girls were more likely to be psychologically abused than boys (19). Studies done in Kerman and Qazvin revealed that there was no significant difference between the two genders (9, 15).

Also, the relationship between parents’ education status and prevalence of psychological and physical abuse was significant. A study from Egypt concluded that poor education of fathers is one of the significant predictors of child abuse (20). Other studies by both Miri (15) and Namdari (14) indicated significant relationships between father’s education status and physical abuse. On the other hand, Kermanshahi et al. showed that mothers who are less educated physically abused their children, more often than mothers who are highly educated (21).

There was a significant relationship between substance abuse of parents and all domains of abuse. This is in accordance with a study done in Bam, which indicated a significant relationship between physical abuse and substance abuse of parents (15).

A limitation of this study could be that the adolescents who were not abused and those who were severely abused were separated and for simplicity the data were analyzed based on these categories. Moreover, lack of adequate cooperation of some schools, especially nongovernmental schools, was another limitation of our study. However, the sexual domain of our questionnaire was an advantage, since most similar studies in Iran did not include this part.

Parents, teachers and other people in contact with children should be trained for child abuse, its risk factors, and consequences. Also children should be familiarized with their rights regarding this issue. Providing students with a call-line, which is designated specifically for social problems can be useful to help and support students with this problem and for reporting abuse.

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Authors’ Contributions

Azar Pirdehghan, conceived and designed the study, interpreted the clinical data, performed the statistical analysis and helped draft the manuscript and revised the final version. Mahmood Vakili, participated in designing the study and helped to draft the manuscript. Yavar Rajabzadeh, collected the data and drafted the manuscript.
Mohammad Puyandehpour, participated in the data collection. All authors read and approved the final manuscript.

Declaration of Interest
The authors declare that they had no conflicts of interest.

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