The Prevalence and Associated Factors of Extra/Pre-Marital Sexual Behaviors Among University Students in Kerman, Iran

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Received 2018 December 25; Revised 2019 February 11; Accepted 2019 February 17.

Abstract

Background: Extra/pre-marital sexual behaviors (EPSB) are considered as an important problem, especially among the young generation.

Objectives: This study was conducted to estimate the prevalence and determinants of EPSB among university students in Kerman, Iran.

Patients and Methods: This cross-sectional study was conducted on 2157 students in 2016. This study used different data collection methods such as direct and network scale-up (NSU). A self-administrated questionnaire was completed by the participants for direct data survey. Then NSU data were gathered through the interview by a trained same-sex interviewer.

Results: Total of 1035 male and 695 female students (n = 1730) were studied with the mean age of 20.5 years (range 18 - 29). In the direct method, 14.9% of the students had sex with non-student partners (SNSP) (3.4% females and 22.6% males). Corresponding percentages in the NSU method were 2.5% and 7.9%. Comparing direct method results of two groups, it was determined that males’ last year SNSP (22.6 %,) was more prevalent but in females, last year sex with student partner (SSP) (4.7%) was more prevalent. Comparisons revealed that in the direct method, 41.7% of the students watched pornography (16.6% females and 58.8% males). There was a significant association between watching pornography and gender (OR male to female = 7.2), as well as between SSP and SNSP without any payment regarding the gender (OR male to female = 5.3 and 7.7).

Conclusions: Our findings showed that extra/pre-marital sexual relationships are relatively common among university students, especially males. We found lower percentages in the indirect NSU method, which is mainly because of nature of such behaviors that are invisible in society and we could not provide estimation for visibility.

Keywords: Prevalence, Sexual Behavior, Universities, Sexual Partners

1. Background

Extra/pre-marital sexual behavior (EPSB) is an increasingly important area in public health, especially among the young population (1). It is estimated that EPSB is responsible for 4% of disability-adjusted life years (DALYS) in the world among youth group aging from 15 - 24 years old (2, 3). As EPSB had an increasing trend in most countries recently, thus it’s a serious concern that may threaten public health (4).

EPSB led to social and health problems in the young (5). Pre-marital relationships and pre-marital sex experience increase divorce risk (6). Poor education about sex before marriage in adolescents and the lack of awareness of adolescents about sexual relationships (7), leads to increased risk of sexually transmitted infections (STIs) (e.g. HIV), unplanned or unwanted pregnancy, illegal and unsafe abortion, and even in some cases leads to death (8, 9).

About a quarter of Iran’s population is comprised of young people aging from 15 - 29 years (10). A recent survey showed considerable changes in Iranian young peo-
people’s attitude towards the acceptance of EPSB (11). Therefore, Iran is one of the countries at risk of EPSB spreading. The prevalence of EPSB among Iranian male university students estimated to be in a range from 10% to 20%. The prevalence of EPSB among Iranian female university students was estimated to be in a range from 4% to 10% (12-14). One study showed student have had pre-marital sex, 95% sex with student partners, and 14.5% with non-student partners (15).

Due to the social stigma of EPSB in a traditional society like Iran, direct methods may not show the best estimation of the behavior. It seems that in recent years in Iran, the prevalence of these behaviors has been increased, especially in student populations. In addition, the number of studies, which address this issue in university students was not enough in recent years (12, 13, 16). This obviates a need to better understand of EPSB among university students.

2. Objectives

The main purpose of this study was to determine the prevalence of EPSB and associated factors by the direct method and network scale-up (NSU) as an indirect method in the last year and before university entrance in students in Kerman universities. Since the study covered three major southeast universities in Iran, it provides valid results for health managers and policymakers to make preventive decisions.

3. Patients and Methods

3.1. Study design and Study Population

We conducted a cross-sectional survey among 2157 university students in three main universities (one medical, two non-medical universities) in Kerman, southeastern of Iran, from January to February 2016. The participants were 1307 males and 850 females. Kerman University of Medical Sciences (KUMS), which is under the supervision of the Ministry of Health and Medical Education, includes medical, paramedical, and health-related disciplines at under- and post-graduate levels. Shahid-Bahonar University, affiliated to the Ministry of Science and Technology, trains students in engineering, agriculture, art, social and basic sciences, and veterinary medicine at under- and post-graduate levels. Shahid-Chamran also is affiliated to Ministry of Science and Technology. Only male students in undergraduate engineering fields are enrolled in this university. The Ethical Committee of KUMS reviewed and approved the study design and all procedures (IR.KMU.REC.1393.163). The aims of the study were first explained to the participants and they were assured of the confidentiality of the data.

3.2. Eligibility and Sampling Method

Students in the first year of their college studies were excluded. From each university, 720 students were recruited in a convenient sampling with the maximum coverage of departments and faculties.

3.3. Data Collection

In order to minimize the level of information bias, confidential and anonymous questioners were distributed to the participants after the explanation of a trained person from the research team and taking verbal consent.

In the first section of the study, the participants answered a self-administrated questionnaire in which we directly asked students whether they had EPSB at least once in the last year and before their university entrance. The students were asked to drop completed questionnaires in a box.

In the second section, data were collected by NSU questionnaire. This method asks about EPSB in the respondent’s close friends. A trained same-sex interviewer asked the students about how many of their close friends had EPSB at least once in the last year. The close friend in our study was defined as ‘a university student who was at that university and the respondent knew him or her by name and face, contact with him/her several times in a week, spent at least two hours per week with him/her or had close direct contact with him/her at least two hours per week outside the classes (17).’ NSU questionnaire was completed by interviewers in a private place at university. Based on the average number of close friends that respondents know who have had EPSB and the average personal network size (total of close friends), the proportion of students who have had EPSB was estimated by the indirect method (17).

The investigated EPSB indices included sex with student partners (SSP), sex with non-student partners (SNSP) in exchange for payment and without payment, history of abortion, homosexual contact, and watching pornography.

3.4. Data Management and Analysis

The questionnaire was excluded in case of the respondents had provided contradictory answers to a self-administrated questionnaire of direct method survey. We adjusted for the clustering effect of universities in the analysis using survey analysis. All estimates were weighted based on the inverse probability weight of College sampling.
We estimated the prevalence of EPSB using descriptive statistics and 95% confidence intervals (CI) for direct and indirect methods. We used the chi squared test for analysis of categorical variables. T test also was used to compare the means. Additionally, univariable and multivariable logistic regression were used to investigate the association between EPSB and some associated factors such as frequency of close friends’ network, age, gender, marital status, living status, academic degree, and university. We used direct method data to investigate the correlation of EPSB and risk factors. Data were analyzed using Stata 14.2. In all analysis, univariable and multivariable, the p-value was considered 0.05.

4. Results

Out of 2157 filled questioners, 1803 questioners were completed (83.6%). However, 73 questioners were excluded due to unreliable responses. In the final sample population, the responses of 1035 and 695 males and females were analyzed (male/female = 1.5), with an average age of 20.5 (SD = 1.5, range 18 - 29). The mean age of the males 20.4 (1.3) was significantly lower than the females 20.8 (1.6). Most of the participants were studying to get master degrees (n = 1012, 58.5%) and the majority of them (n = 1600, 92.5%) were single. Most of the females (n = 350, 50.4%) were living in a family home while most of the males (n = 596, 57.6%) were living in the dormitory (Table 1).

The mean and standard deviation (SD) of close friends’ network in female students (4.8 ± 4.1) were slightly higher than the males (4.7 ± 3.4) and the initiation age for EPSB in the males (17.1 ± 2.2) was insignificantly lower than the females (17.9 ± 2.6).

4.1. Extra/Pre-Marital Sexual Behaviors

The prevalence of last year EPSB was higher than before university entrance. The prevalence of all of the EPSB indices in the direct method was higher than the indirect method in the females except for watching pornography and in the male expect for watching pornography and SNSP in exchange for payment. The difference between the direct and indirect methods in most cases was significant except for SNSP in exchange for payment in male students and SNSP by non-payment and watching pornography in female students (Table 2).

The most common, risky sexual behaviors in students in the last year and before university entrance were to watch pornography (n = 688, 41.7%, n = 595, 36.7%), followed by SSP (n = 247, 14.8%, n = 81, 4.8%) and SNSP without any payment (n = 249, 14.9%, n = 120, 7.1%). The SNSP was somewhat higher in students by direct method in the last year and before university entrance (Table 2).

4.2. Extra/Pre-Marital Sexual Behaviors by Gender

The prevalence of last year and before university entrance of EPSB was reported to be higher in male than female students by direct and indirect methods. However, in male students, SNSP (22.6%) was more prevalent but in females, SSP (4.7%) was more prevalent by direct method in the last year. As indirect method showed, SSP (14.8%) and in females, SNSP (2.5%) was more prevalent in male students. The prevalence of EPSB for male and female students in the last year was more than before student course, except for SSP in exchange for a payment that was a little higher before student course (3.7%) than in the last year (3.6%) in male students. The most prevalent behavior in students was watching pornography. In males, the prevalence of watching pornography was 58.8% using direct method and 64.0% using NSU. In females, the prevalence of watching pornography was 16.6% using direct and 17.4% using NSU (Table 2).

4.3. The Association Between Extra/Pre-Marital Sexual Behaviors and Demographic Variables by Direct Method in the Last Year

In multivariable logistic regression there was a significant association between watching pornography and age (OR = 1.1; 95% CI 1.006, 1.2), gender (OR male to female = 7.2; 95% CI 4.9, 10.4), academic degree (OR Bachelor to Ph.D = 2.1) (OR master to Ph.D = 1.7) and living status (OR dormitory to family home = 1.4; 95% CI 1.01, 1.8). The SSP and SNSP without any payment had significant association with respect to age (OR = 1.4 and 1.1; 95% CI 2.9, 9.5 and 1.1, 1.5), gender (OR male to female = 5.3 and 7.7; 95% CI 2.9, 9.5 and 3.9, 15.1), and living status in only non-students (OR Separate home to family home = 3.2; 95% CI 1.4, 2.7) (OR shared home to family home = 2.1; 95% CI 4.5, 11.01) (Table 3).

5. Discussion

We found that the prevalence of EPSB in the student was higher in the last 12-months compared to their behavior before the university entrance. The most high-risk behavior was watching pornography, SSP and SNSP in without payment. Another important finding was that the prevalence of EPSB was higher among males. However, the prevalence of EPSB in the direct method was higher than NSU as an indirect method. According to the regression analysis odds, watching pornography, SSP, and SNSP were higher in male students.

In our study, the prevalence of the last year EPSB (in student course) was similar to findings in Iran and Ethiopia (18, 19). Various reasons such as the lack of parent surveillance in universities may cause a start and increase in EPSB.
after entering university (18). Students with no speaking about sexual behavior in families are usually more at risk of sexual behaviors (20). Actually, training parents about sex can positively affect the prevention of extra/pre-marital sexual behaviors (21). Some students are starting sexual behavior under the pressure of friends in the student period and consequently, this determines the necessity of warning students about finding a friend (22). Therefore, the reasonable relationship between parents and educating students about sexual issues and the selection of a friend can have an effective role in reducing extramarital sexual behaviors in the student period.

In our study, the prevalence of EPSB was higher among male students. This finding was compatible with the finding in Shahroud and Mashhad, Iran (19, 23). In societies like Iran, the differences between genders could explain these differences. The prevalence of drug use (such as Alcohol, Cannabis, and Heroin) was higher among male versus female students (24). It seems consumed drugs elevated odds of sexual activity (25). Moreover, in a conservative context like Iran, families are more worry about the behavior of their daughters and are more aware of their behaviors (7). In addition, boys prefer virgin girls (26). Thus involvement in sexual behaviors is more prevalent in boys (25).

We found most female students started their sexual behaviors after the entrance to the university. However, the most sexual behaviors of the male students started before student course (19). This can show that families are more careful about the behaviors of their children, especially girls but after they enter a university this surveillance will decrease (27). Sexual health education for daughters should be initiated by mothers but fears about stimulating the curiosity of adolescent and temptation to engage in sexual relation, insufficient knowledge of parents about sexual and inability of mothers in communication, are barriers to education (28). Contrary to parents’ concern about youth’s sexual knowledge, sexual awareness and education can reduce sexual behaviors (29, 30). When they do not receive information from mothers, an adolescent may get sexual information from unreliable sources (such as friends, satellite, TV, and internet) and this sources may increase EPSB among adolescent (26). Regarding the increase of male and female relationships and the probability of transmission risk of infection in the student community, training about sexual behaviors is essential for students.

Consistent with the study in Tehran, the most prevalent sexual behaviors was watching pornography (31). Increasing access to the media and its impact on youth has increased the experience of having EPSB (26). Adolescents who receive more sexual information from media have more sexual activities and more intentions to start sexual intercourse (32). Watching pornography increases the risk of having multiple sex partners among young population (33). In the study in Sudan, there was a connection between watching pornography and anal sex experience in female

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Table 1. The Demographic Characteristics of University Students’ Participants in the Study, Kerman, 2016

<table>
<thead>
<tr>
<th>Variable</th>
<th>Male</th>
<th>Female</th>
<th>P Value</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Age</td>
<td>20.4 ± 1.3</td>
<td>20.8 ± 1.6</td>
<td>&lt; 0.001</td>
<td>20.5 ± 1.5</td>
</tr>
<tr>
<td>Network of close friends</td>
<td>4.7 ± 3.4</td>
<td>4.8 ± 4.1</td>
<td>0.581</td>
<td>4.8 ± 3.7</td>
</tr>
<tr>
<td>Initiation age for extramarital sexual behaviors</td>
<td>17.1 ± 2.2</td>
<td>17.9 ± 2.6</td>
<td>0.09</td>
<td>17.2 ± 2.4</td>
</tr>
<tr>
<td>Academic degree</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bachelor’s</td>
<td>392 (37.9)</td>
<td>0 (0)</td>
<td>0.001</td>
<td>392 (22.7)</td>
</tr>
<tr>
<td>Master’s</td>
<td>521 (50.3)</td>
<td>491 (70.6)</td>
<td></td>
<td>1012 (58.5)</td>
</tr>
<tr>
<td>Ph.D</td>
<td>122 (11.8)</td>
<td>204 (29.3)</td>
<td></td>
<td>326 (18.8)</td>
</tr>
<tr>
<td>Marital status</td>
<td></td>
<td></td>
<td>&lt; 0.001</td>
<td></td>
</tr>
<tr>
<td>Single</td>
<td>1024 (98.9)</td>
<td>576 (82.9)</td>
<td></td>
<td>1600 (92.5)</td>
</tr>
<tr>
<td>Married</td>
<td>11 (1.06)</td>
<td>119 (17.1)</td>
<td></td>
<td>130 (7.5)</td>
</tr>
<tr>
<td>Living status</td>
<td></td>
<td></td>
<td>&lt; 0.001</td>
<td></td>
</tr>
<tr>
<td>Family home</td>
<td>341 (32.9)</td>
<td>350 (50.4)</td>
<td></td>
<td>691 (39.9)</td>
</tr>
<tr>
<td>Separate home</td>
<td>57 (5.5)</td>
<td>23 (3.3)</td>
<td></td>
<td>80 (4.6)</td>
</tr>
<tr>
<td>Shared home</td>
<td>41 (4.0)</td>
<td>23 (3.3)</td>
<td></td>
<td>64 (3.7)</td>
</tr>
<tr>
<td>Dormitory</td>
<td>596 (57.6)</td>
<td>299 (43.0)</td>
<td></td>
<td>895 (51.7)</td>
</tr>
</tbody>
</table>

*Values are expressed as mean ± SD or frequency (%).*
students (34). With increasing access of all students to cell phones and the Internet (32), it seems that we are facing an increase in watching pornography and its effect on the health of the young population. Sex education through social networks may reduce the risks of STIs (35).

The prevalence of EPSB by direct method was higher except for watching pornography in both genders and sexual contact with at least one non-students in exchange for payment in males. Zahedi et al. (21) reported significant results for females through the direct method (24). In the indirect method, we do not have direct access to the targeted population and reports a random sample of the general population about the target population (36). Indecent behaviors are shown less in the indirect method (36). Regarding the indecency of EPSB in Iran, students hide the behaviors of their friends; therefore, it is possible why student reports are less than the actual amount in the indirect method (12). Altogether, it seems the direct method can be more effective in EPSB in certain population groups.

This study had some limitations. First, as EPSB is a taboo among Iranian people, some of the participants may not want to talk about that. To reduce this limitation, we assure students confidentiality of their answers. Second, about 17% of the students did not answer the questions completely and we omitted the questionnaires. Therefore, due to these two limitations, we encountered to underreporting of the behaviors. Third, the estimate of the prevalence in direct and indirect methods was under the influence of social desirability bias, transmission error, and barrier error; thus we recommend indirect methods without correction of these errors could underestimate more than direct method and it is necessary to estimate these corrections among Iranian students.

5.1. Conclusions

A significant percentage of students experience EPSB such as watching pornography, SSP, and SNSP, especially in the student period. We faced an increase in the prevalence of these behaviors in the student course compared with before student course in both genders. Lack of awareness, lack of centers in sexual health and fertility, a poor family relationship between parents and young people, and the impact of the media on young people have led to sexually hazardous behaviors and are associated with STIs such as HIV and unwanted pregnancy (26). Since EPSB are taboo and some students were unaware of their friends’ sexual behaviors, we obtained little information through the indirect method. Therefore, it seems that the use of a direct method for behaviors such as EPSB in some population groups can provide more reliable information.

Acknowledgments

The authors would like to thank HIV/STI Surveillance Research Center, Kerman University of Medical Sciences and Iranian National Center for Addiction Studies (INCAS), Tehran University of Medical Sciences for financial support of this project. We also thank the interviewing team for their worthwhile cooperation in gathering information.

Footnotes

Authors’ Contribution: All authors equally participated in the design, implementation, drafting, and revision of the manuscript.

Conflict of Interests: The authors declare they have no conflict of interests.

Ethical Approval: The Ethical Committee of KUMS reviewed and approved the study design and all procedures (IR.KMU.REC.1393.163).

Funding/Support: The authors kindly appreciate the support by the Modeling in Health Research Center and HIV/STI Surveillance Research Center, and WHO Collaborating Center for HIV Surveillance, Institute for Futures Studies in Health, Kerman University of Medical Sciences, Iran in cooperation with the Communicable Diseases Center and Office of Mental Health, Social, and Addiction Department of the Ministry of Health and Medical Education.

References


<table>
<thead>
<tr>
<th>Variable</th>
<th>Male, (N = 1035)</th>
<th>Female, (N = 695)</th>
<th>Total, (N = 1730)</th>
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<tr>
<td></td>
<td>Direct</td>
<td>Indirect</td>
<td>Direct</td>
</tr>
<tr>
<td></td>
<td>In the Last Year</td>
<td>Before the Students’ Course</td>
<td></td>
</tr>
<tr>
<td>Sex with at least one partner in return for payment</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Direct</td>
<td>3.6 (3.4, 4.9)</td>
<td>3.7 (3.4, 4.9)</td>
<td>0.4 (0.1, 0.6)</td>
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<tr>
<td>Indirect</td>
<td>3.6 (3.4, 4.9)</td>
<td>3.7 (3.4, 4.9)</td>
<td>0.4 (0.1, 0.6)</td>
</tr>
</tbody>
</table>

- Direct (in the last year) vs. indirect.

- 95% confidence intervals.

<table>
<thead>
<tr>
<th>Variable</th>
<th>Network close friends</th>
<th>Age</th>
<th>Gender (Male to Female)</th>
<th>Marital Status (Single to Married)</th>
<th>Academic Degree</th>
<th>Living Status</th>
<th>University</th>
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<tr>
<td></td>
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<td>Bachelor to Ph.D</td>
<td>Master to Ph.D</td>
<td>Separate to Family Home</td>
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<tr>
<td>Sex with at least one student in return for payment</td>
<td>Crude OR (95% CI)</td>
<td>1.1 (0.9, 1.3)</td>
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<td>0.9 (0.7, 1.1)</td>
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<tr>
<td></td>
<td>P value</td>
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<td>0.001</td>
<td>0.001</td>
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<tr>
<td>Adjusted OR (95% CI)</td>
<td>1.1 (0.9, 1.3)</td>
<td>1.0 (0.8, 1.2)</td>
<td>0.9 (0.7, 1.1)</td>
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<td>0.01</td>
<td>0.001</td>
<td>0.001</td>
<td>0.001</td>
<td>0.001</td>
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<tr>
<td>Sex with at least one non-student in return for payment</td>
<td>Crude OR (95% CI)</td>
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<td>0.01</td>
<td>0.001</td>
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<tr>
<td>Adjusted OR (95% CI)</td>
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<tr>
<td></td>
<td>P value</td>
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<td>0.01</td>
<td>0.001</td>
<td>0.001</td>
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<td>0.001</td>
</tr>
</tbody>
</table>

Table 3. The Association Between the Demographic Variables and Extra/Premarital Sexual Behaviors by Direct Method in Universities Students Kerman, 2016

- OR: Odds Ratio
- CI: Confidence Interval
- P value: Probability Value

Additional notes: The table includes various demographic variables and their associations with extra/premarital sexual behaviors among university students in Kerman, Iran. The data were collected using a direct method in 2016. The table shows the crude and adjusted odds ratios along with their corresponding 95% confidence intervals and associated P values.
<table>
<thead>
<tr>
<th>P value</th>
<th>0.492</th>
<th>0.195</th>
<th>0.134</th>
<th>0.826</th>
<th>0.185</th>
<th>0.053</th>
<th>-</th>
<th>0.016</th>
<th>0.96</th>
<th>0.230</th>
<th>0.681</th>
</tr>
</thead>
</table>

Watch pornography at least once in a month

<table>
<thead>
<tr>
<th>Crude OR</th>
<th>(95% CI)</th>
<th>Adjusted OR (95% CI)</th>
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</table>

Abbreviations: Bahonar, Shahid Bahonar University; Chamran, Shahid Chamran University; KUM, Kerman University of Medical Sciences.