1 Survey of knowledge and source of information relating to reproduction and sexually

2 transmitted infections including human immunodeficiency virus among senior secondary

- 3 schools students in a military barracks in Nigeria
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### 6 Abstract

Context: Accurate and appropriately soughtinformation ensures that adolescents understand
their reproductive health needs. It encourages healthy sexual decision making and behaviors.

**Objective**: To determine the level of knowledge and source of information about reproduction
and sexually transmitted infections including human immunodeficiency virus among senior
secondary schools students in Ojo military barracks, Lagos.

Materials and methods: A cross-sectional study of 400 senior secondary schools students in Ojo military barracks, Lagos, selected using multistage sampling technique was done. Datacollection employed pretested, self- administered structured questionnaires. Data was analysed using statistical package for social sciences version 17. Tests of statistical significance were carried out using chi square and t tests. A p value of <.05 was considered significant.</p>

**Results**: Majority of them 391(97.8%), were in the age group (10-19 years) while the mean age was  $15\pm2.4$  for males and  $15\pm2.2$  for females respectively.Information on sexual and reproductive health was soughtfrom the media by 238(64.7%), peer group 231(62.8%) with a statistically significant difference in this practice between the males and females (*P*=.01). Only 38 (9.5%) had very good knowledge. The sexually experiencedwere less knowledgeable than the non- experienced (3.7 ± 1.3 and 3.9 ±1.3 respectively;*P*<.05).Knowledge was found to increase with age (*P*<.05). Femaleshad more knowledge than males(*P*<.05).

Conclusions: Overallknowledge was assessed as fairly good, while key sources of information
were media and peer groups. Interventions including peer education are recommended to ensure
that these sources provide veritable information on reproductive health.

Key words- Knowledge and source of information, reproduction, sexually transmitted infections,
senior secondary schools students, military barracks, Lagos.

29 **1.0 Introduction** 

The World Health Organization (WHO) defines an adolescent as a person between the age of 10 and 19 years, youths are defined as persons between the age of 15 and 24 years, while young people are from 10 to 24 years [1,2,3]. Nigeria's adolescent health policy has defined the adolescent age group as falling between the ages of 10 and 24 years [4].

Young people stand at the brink of a future filled with possibilities, and society's obligation to 34 address their educational and health needs is more critical than ever. Nonetheless, this group is 35 caught between tradition and the effect of sociocultural changes brought about by changing 36 world order and peculiar local conditions. As the Nigerian society tends increasingly towards 37 urbanization and modernization, expanding educational and economic opportunities have 38 resulted in a drastic reduction in the influence that traditional codes of conduct bring to bear on 39 young people's sexuality [5]. In addition, young people seek information about sexual life from a 40 variety of sources such as parents, peers, religious leaders, health providers, teachers, magazines, 41 books and electronic media [6]. While they receive a wealth of information from these diverse 42 sources, a good deal of this information may be incorrect, incomplete or misleading. 43

The adolescent population is increasing globally and constitutes one-fifth (1.2 billion) of the
world population [1]. Four out of every five adolescents live in developing countries, including
Nigeria [1,7] The Nigerian adolescents comprises about 30% of the total population, according

47 to estimates made in 2006 [1,2,3]. With this increasing population, more adolescents are expected to be equipped with the requisite knowledge and correct source of information on 48 reproduction and sexually transmitted infections including human immunodeficiency virus. 49 Instead their health needs pertaining to knowledge and source of information about reproductive 50 health are often misunderstood, unrecognized or underestimated. Integration of services is a huge 51 challenge in developing countries due to socio- cultural barriers as well as difficulty in 52 understanding the needs and expectations of adolescents [8]. As a result, the reproductive health 53 services of most of these countries are traditionally targeted at married couples [9]. But this large 54 and important group cannot be ignored or neglected in the health care agenda of any nation. 55

Limited research shows little or no knowledge about sexual and reproductive health matters 56 among adolescent [10, 11, 12], that adolescents are indulging in premarital sex more frequently 57 58 at an early age [10,12]. According to the 2008 Nigeria National Demographic and Health Survey (NDHS) for instance, the percentage of girls age 15-19 years who had had sexual intercourse in 59 the 12 months preceding the interview were 33.3%[12], compared to the reports of the 2003 60 NDHS where 20% of girls aged 15-19 had initiated sex at the time of the interview [2]. Also the 61 incidence of pregnancies among them is rising and most of them face the risk of induced 62 abortions under unsafe conditions [12, 13]. Sexually active adolescents are at an increased risk 63 for sexually transmitted infections due to their increased rates of sexual activity, immature 64 development of the adolescent female cervix, practical difficulties in planning sexual activity and 65 inherent barriers to related guidance and/or medical treatment [11]. 66

In Ojo Military Barracks Lagos, it is important to create a supportive environment that would positively influence knowledge and behavior of adolescents and also help in increasing access to correct and complete information on reproductive health. With this backdrop, the broad aim of

this study therefore is to determine the level of knowledge and source of information about
reproduction and sexually transmitted infections including human immunodeficiency virus
among senior secondary schools students in Ojo military barracks, Lagos.

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#### 2.0 Methodology

#### 76 **2.1 Description of study area**

Ojo military cantonment is the largest military barracks in Nigeria. It is located in Ojo local government area of Lagos state in south western Nigeria. The barracks has an estimated population of over 30,000 inhabitants comprising military personnel from various army units, their families and dependants. The residential area is divided into three major clusters of houses. The officers' village is located in an exclusive part of the barracks quite far away from the quarters for the non – commissioned soldiers (otherwise referred to as "other ranks").

Three secondary schools are located within the same vicinity (about half to one kilometer away 83 from each other). The schools include one army- owned co-educational school (Command Day 84 85 Secondary school) and two Lagos state owned schools, Cantonment Girls' secondary and Cantonment Boys' High schools. The three schools have a total population of 2903 senior 86 students (SS1-3); a breakdown of this population is as follows: - Command Day Secondary 87 School=1512; Army Cantonment Boys' Senior Secondary School =671; Army Cantonment 88 89 Girls' Senior Secondary School=720. Each class (SS1-2) is made up of between 5-7 arms in each of the three schools while SS3 classes have 3-4 arms. 90

91 The barracks has located in it, office blocks, a vocational center, two churches (one Catholic and 92 one Protestant) and a mosque, a Medical Centre that offers curative services, immunization and 93 family planning services to the military personnel, their families and dependants.

#### 94 2.2 Study design

95 This is a cross sectional descriptive survey.

#### 96 **2.3 Study population**

97 The study population comprises senior secondary school (SS) students (SS1-3) of the three 98 secondary schools. However, students residing outside the barracks and students whom none of 99 the parents is a military personnel are excluded from this study.

### 100 **2.4 Sample size determination**

101 In a previous study in Nigeria among similar population, level of sexual activity (p) was 52.0%

102 [14]. Therefore, p = 0.52. The sample size was determined using the formula for the calculation

of sample size in populations greater than 10,000,  $n = z^2 pq/d^2$  [15],where n = minimum sample size; p = proportion of sexually active; d = desired precision at 5%; z = a constant at 95%

105 confidence interval z = (1.96). Substituting values,

106 n = 
$$(1.96)^2 \times 0.52 \times 0.48 = 383.55$$

 $(0.05)^2$ 

Then a conversion was made using the formula for the calculation of minimum sample sizeforpopulations less than 10,000,

populations less than 10,000,

110 nf = <u>n [15]</u>, where N = target population= 2,903 111 1+n/N

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113 nf = 340 students.

114 115 Anticipating a response rate of 90%, an adjustment of the sample size estimate to cover for non-

response rate was made by dividing the sample size estimate with a factor f, i.e. n/f, where f is the

estimated response rate [15]. Thus the calculated sample size =340/0.90 = 378 students.

118 However, 400 questionnaires were distributed.

#### 119 **2.5 Sampling technique**

120 A multistage sampling technique was used.

Firstly, simple random sampling technique was used to select three arms from each of the classes(SS1-2) and 2 arms of the SS3 classes.

- Secondly, stratified sampling technique was used to allot respondents according to relativeschool populations.
- Command Day Secondary school (CDSS) = 232 =58.0%
- Cantonment Girls' High school = 95 = 23.8%
- Cantonment Boys' High school = 73 = 18.2%
- 128 Total minimum sample size=400=100%.

Thirdly, using the class registers as the sampling frame, simple random sampling technique was used to select eligible and consenting students until the required number allotted to the selected arms in each class (SS1-3) has been obtained. For CDSS (which is a co-educational school), the class registers were stratified by sex before proportionate sample of each sex was taken using simple random sampling technique.

134 **2.6 Data collection technique** 

Data collection in this study employed pretested, self-administered structured questionnaires developed from review of relevant literatures and interview of some adolescents. All questions were written in English language and pre-tested in similar schools in Navy Barracks Ojo to validate the research instrument. Thereafter necessary corrections were effected before administering the questionnaire to the study population.

140 The questionnaire is divided into sections to obtain data on the socio- demographic 141 characteristics of the respondents; sources of information; knowledge about reproductive health; 142 socio- demographic characteristics and students' knowledge of reproductive health; sexual 143 behavior and students' knowledge of reproductive health.

**2.6.1 Knowledge score:** An aggregate of the students' knowledge of reproductive health was
assessed using standardized score points. Five correct responses out of 5 were graded as very

good knowledge, 3 – 4 correct responses was graded as fairly good knowledge while 1-2 correct
response was taken as poor knowledge.

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#### 149 **2.7 Data management and analysis**

The data were scrutinized and entered into the computer. Data cleaning was done by carrying out range and consistency checks. Data were analyzed in respect to the socio-demographic characteristics of the respondents; sources of information; knowledge about reproductive health; socio- demographic characteristics and students' knowledge of reproductive health; sexual behavior and students' knowledge of reproductive health.

Descriptive and analytical statistics of the data were carried out using statistical package for social sciences (SPSS) Windows version 17.0 [16]. Chi-square and t-tests were used to document presence of statistically significant associations between variables. A p value of <.05 was considered significant. Descriptive data were presented as simple frequencies and percentages.

#### 159 **2.8 Limitations of the study**

This study is based on self-reported behaviors, and the data is therefore subject to reporting errors of unknown magnitude and direction. Another limitation was the inability of a number of respondents to read and understand the questions; to minimize this research assistants were mandated to read and interpret aspects of the questionnaire as the need arose; this was also time consuming.

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| 175 | 3.0 Results  |
| 176 | A total of 400 respondents participated in the study. This was made up of representative samples                 |
| 177 | from the co-educational school and the two single- sex schools. The response rate was 100%.                      |
| 178 | Table 1 shows the socio- demographic distribution of the respondents. The majority of the                        |
| 179 | students 391(97.8%) were in the adolescent age group (10-19 years), only 9 (2.2%) respondents                    |
| 180 | were in the age range of 20-24 years; all the respondents above 19 years were from the girls'                    |
| 181 | school. The mean age of the respondents was $15\pm2.4$ for males and $15\pm2.2$ for females.                     |
| 182 | There were more males 221(55.3%) than females 179(44.7%). Christianity and Islam were the                        |
| 183 | predominant religion with Christians making 249(62.3%) and Moslems 151(37.7%). A higher                          |
| 184 | proportion of the respondents 258(64.5%) reside in the quarters for the 'non-commissioned'                       |
| 185 | soldiers (otherwise known as 'other ranks') while 142(35.5%) reside in the officers' quarters.                   |
| 186 | Table 2 shows students source of information on sexual and reproductive health. Two                              |
| 187 | hundred and thirty eight (64.7%) of the respondents received the information they have on sexual                 |
| 188 | and reproductive health from the media, followed by peer group 231(62.8%). For the males,                        |
| 189 | siblings 131(59.3%) and peers 120(54.8%) were the most important source. For the females, the                    |
| 190 | most important source is media 123(68.7%) followed by peers 111(62.0%). Only few of the                          |
| 191 | students 24 (6.0%) received reproductive health information from their parents of this, more girls               |
| 192 | than boys. However the difference in this practice between the male and female respondents was                   |
| 193 | a statistically significant( $\chi^2$ =6.384, df=7, <b>P</b> =.01). None of the respondents received information |
| 194 | from religious leaders.  |

Figure 1 shows respondents' knowledge of reproductive health and STIs. Questions asked
tested knowledge of sexually transmitted infections types, transmission and prevention as well as

197 knowledge of conception. Thirty-eight (9.5%) respondents had very good knowledge, 240 (60.0 198 %) had fairly good knowledge, 110 (27.5%) had poor knowledge while 12(3.0%) had no 199 knowledge of reproductive health and STIs/HIV/AIDS at all. Overall, the knowledge of the 200 students was assessed as fairly good. Out of a maximum score of 5, the mean knowledge was 3.4 201 and the median score  $3.6 \pm 1.2$  points.

Table 3 showssexual behavior and students' knowledge of reproductive health. One hundred 202 and fifty four(38.5%) of the respondents had experienced penetrative sexual intercourse at one 203 204 time or the other; 81(52.6%) of them were males and 73(47.4%) were females. However there was no statistically significant difference in this practice between the male and female 205 respondents ( $\chi^2$ =0.713, df=1, **P**=.20). Also students who had experienced sexual intercourse were 206 less knowledgeable than those who had not,  $3.7 \pm 1.3$  and  $3.9 \pm 1.3$  respectively; this finding was 207 statistically significant (P<.05). Students who had sexual intercourse three months prior to the 208 study had more knowledge scores compared to those who did not, but this finding was not 209 statistically significant (*P*>.05). 210

Table 4 shows association between some socio-demographic characteristics and students' 211 knowledge on reproductive health. The mean score for reproductive health knowledge in the 212 category of students in the age group 20 - 24 years was highest  $3.9 \pm 1.3$  followed by 15 - 19213 years age group  $3.8 \pm 1.2$  while it was least for the age of 10 - 14 years  $3.2 \pm 1.6$ . Knowledge 214 was found to increase with age. This finding was statistically significant (P < .05). Female 215 respondents  $(3.8 \pm 1.4)$  were found to be more knowledgeable than their male counterpart (3.4 216  $\pm 1.2$ ). The finding was also statistically significant (P<.05). Among the students who were 217 Christians, the mean reproductive health knowledge was  $3.9 \pm 1.4$ . More Christians were found to 218 be knowledgeable but the finding is not statistically significant. (P>.05) Students who were 219

brought up in polygamous homes had a reproductive knowledge score of  $3.7 \pm$  while those from monogamous homes had a mean of  $3.8 \pm 1.4$ . This finding was not statistically significant (P>.05). The students whose father's socioeconomic status was low, medium and high had a mean knowledge score for reproductive health of  $3.4 \pm 1.2$ ,  $3.7 \pm 1.4$ ,  $3.8 \pm 1.4$  respectively. Respondents with higher socioeconomic status had higher mean knowledge scores. These findings were not statistically significant (P>.05). The same pattern as above was observed among students with respect to mothers' socioeconomic class and respondents' mean knowledge scores. This observation was not statistically significant (P>.05). Students whose fathers had completed secondary education had mean reproductive health knowledge of  $3.7 \pm 1.4$  while those with lower educational status had a mean score of  $3.6 \pm 1.2$ . This finding was not statistically significant (P>.05). Similar observation was made with regard to the mothers' educational status but the finding here is statistically significant (P < .05). 

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#### 244 **4.0 Discussion**

Majority of the respondents (97.8%) were aged between 10-19 years. This falls within the adolescent age group[1,2,3]. Studies have shown that adolescents and youths constitute a highrisk group for unwanted pregnancy and STIs including HIV/AIDS. This group is in a transition period to adulthood and is likely to indulge insexual experimentation as well as involve in unprotected sexual activity[6].

This study observed that the most cited source of reproductive health information were media, 250 peer groups and siblings. This finding agrees with findings from other studies in which the mass 251 media was largely the source of health information [6, 11, 17, 18]. However, this finding is 252 contrary to that by Barker and Rich in which the main source of information among in-school 253 254 adolescent in Nigeria was the school, but they added that the information may not necessarily be useful [19]. Friends and other peer groups were also reported to be sources of information on 255 reproductive health issues especially among young persons[20]. The implication of this finding 256 257 is that the students in this environment may be exposed to information, which are likely to be incorrect, incomplete or prejudiced since peer group may not be very reliable sources; neither is 258 information on the media censored [6]. Bamise and colleagues in Kenya have blamed this on 259 lack of well-defined policies stipulating how health information should be provided and lack of 260 appropriate information resources in school [21]. Accurate information helps adolescents 261 understand their reproductive health needs; it also encourages healthy sexual decision making 262 and behaviors [22]. 263

Those who received the information from their parents and schools were low, 6.0% and 35.0%, respectively. This trend is consistent with results of another study [6]. Parental sex

communication benefits a variety of adolescent sexual and reproductive health outcomes as studies have linked receipt of sex information from parents with later sexual debut, reduced number of sexual partners [23,24,25]. It has been reported that adolescents perceive information from parents as the most trusted and influential in sexual decision making and behavior [26].

Less than one tenth of the students received reproductive health information from their parents, of this more girls than boys. Girls are disproportionately affected by the burden of reproductive health morbidity (STI, unwanted pregnancy, abortion) and are more likely than boys to seek for information about reproductive health. Also, parents are more likely to discuss reproductive health issues with girls than boys because of the belief that boys will learn somehow through experimentation [27, 28].

The findings from this study clearly identify a knowledge gap about reproduction and sexually 276 277 transmitted infections including human immunodeficiency virus. Though only few (9.5%)respondents had very good knowledge on this topic, overall the knowledge of the students was 278 assessed as fairly good. While another study has similarly reported good knowledge [29], others 279 280 have shown adolescent students to have gaps in their levels of knowledge and understanding of reproductive health issues and STIs/HIV [10, 20, 27]. Our findings also imply that the 281 deficiencies in knowledge show the inadequacies of the mass media to provide correct 282 information about reproduction and sexually transmitted infections including human 283 immunodeficiency virus. The need to improve on the quality and source of health information 284 arises because incorrect knowledge about STIs/HIV for instance, negatively influences 285 transmission. 286

Findings from this study that 38.5% of the respondents had experienced penetrative sexual intercourse at one time or the other and that students who experienced sexual intercourse were

less knowledgeable than those who had not, highlighting an important point made by the WHO that a great number of young people engage in behaviors that jeopardize not only their current state of health, but often their health for years to come [30].

292 This study found mean reproductive health knowledge to be higher among the older age group 20-24 and this is similar to the findings from the 2008 NDHS which showed higher level of 293 knowledge among the same age group [12]. Students who reside in officers' quarters for senior 294 295 military officers (Lieutenants and above) were more likely to have better knowledge about reproductive health. This may not be unconnected with their parents' educational and social 296 status which avails them of better access to veritable health information as well as informed 297 interaction and socialization among peers. These findings are consistent with those in earlier 298 works that have reported disparities in sexual and reproductive health variables across certain 299 300 socio- demographic groups [31, 32].

**Conclusions:** Findings from this study have shown that young people living in the barracks had 301 inadequate knowledge of reproductive health matters indicting the sources of their information. 302 303 We therefore recommend an improved multi sectorial approach in reproductive health and sexually transmitted infections including HIV/AIDS education. The mass media can offer a wide 304 reach but there is need for more censored media-driven health education campaigns. Since peer 305 group is a favored source of information for these adolescents, trained peer educators may be a 306 viable option in disseminating information to young people in his environment. Other measures 307 include: family life education and greater participation of schools, with training of teachers on 308 issue related to this topic. 309

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### 313 Ethical consideration

Verbal permission to carry out this study was sought and obtained from the barracks' 314 commander and the principals of the three schools. Consent and co-operation of the respondents 315 was solicited and obtained for the conduct and publication of this research study. The 316 questionnaires were administered individually to the respondents in school hall/ laboratory in 317 batches with the students well-spaced out (to ensure confidentiality). This was supervised by the 318 principal researcher with the assistance of some trained research assistants comprising of 319 adolescents (school leavers). Respondents' privacy and confidentiality was further guaranteed 320 by collecting the completed questionnaires in sealed boxes. All authors hereby declare that the 321 study have been examined and approved by the University of Ibadan and University College 322 323 Hospital ethics committee, Nigeria and have therefore been performed in accordance with the ethical standards laid down in the 1964 Declaration of Helsinki. 324

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### 417 **Tables and figure**

418 Table 1: Distribution of respondents' socio-demographic characteristics

| 419 | Characteristics | Male n (%) | Female n (%) | Total n (%) |
|-----|-----------------|------------|--------------|-------------|
| 420 | School          |            |              |             |

|  | 148 (67.0)84 (47                        | ,  | 32 (58.0)                    |
|--|---|--|------------------------------|
| Girls' school 0 (0.0)                                      | 95 (53.0)                               | 95 (23.7                                 | ,<br>,                       |
| Boys' school73 (33.0)                                      |   | · ·                                      |                              |
| Total  | 221 (100)                               | 179 (100)                                | 400 (100.0)                  |
| <b>Age group (yrs)</b><br>10 – 14                          | 88 (40.0)                               | 63 (35.0)                                | 151(37.8)                    |
| 15 - 19  | 133 (60.0)                              | 107 (60.0)                               | 240 (60.0)                   |
| 20 - 24  | 0 (0.0)                                 | 9 (5.0)                                  | 9 (2.2)                      |
| Total  | 221 (100)                               | 179 (100)                                | 400 (100.0)                  |
| Sex221(55.3)   | 179(44.7)                               | 400 (100.0)                              |                              |
| <b>Religion</b><br>Christian                               | 130 (59.0)                              | 119 (66.0)                               |                              |
| Moslem   | 91(41.0)                                | 60 (34.0)                                | 151 (37.7)                   |
| <b>Total</b> 221 (100)                                     | 179 (100)400 (                          | 100.0)                                   |                              |
| <b>Residence</b><br>Officers' Quarters                     | 84(38.0)                                | 58 (32.0)                                | 142 (35.5)                   |
|  |   |  |                              |
| Other ranks Quarters                                       | 137(62.0)                               | 121 (68.0)                               | 258 (64.5)                   |
| Other ranks Quarters Total221 (100)                        | 137(62.0)<br>179 (100)400 (             |  | 258 (64.5)                   |
|  | 179 (100)400 (                          | 100.0)                                   |                              |
| <b>Total</b> 221 (100)                                     | 179 (100)400 (                          | 100.0)                                   | h                            |
| Total221 (100)<br>Table 2:Sources of in                    | 179 (100)400 (                          | 100.0)<br>roductive healtl               | h                            |
| Total221 (100)<br>Table 2:Sources of in<br>Characteristics | 179 (100)400 (<br>formation on rep<br>N | 100.0)<br>roductive healtl<br>Male n (%) | h<br>Female n (%) Total n (% |



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- 464

### 465 **Figure 1: Knowledge about reproductive health**



4693- Poor knowledge4- No knowledge

| Characteris           | tics Ev             | er had sexual intercourse |           |               |
|-----------------------|---------------------|---------------------------|-----------|---------------|
| Yes_n (%)             | No n(%)             | Total n (%)               |           |               |
| Male                  | 81                  | (52.6) 140 (56.9) 22      | 1(100.0)  |               |
| Female                |                     | 73 (47.4) 106 (43.1)      | 179 (100) |               |
| Total                 | 154 (100.0)         | 246 (100.0) 400 (100.0)   | )         |               |
| $(\chi^2 = 0.713, df$ | f=1, <i>P</i> =.20) |                           |           |               |
| Students' re          | productive he       | alth knowledge            |           |               |
|                       |                     | No of respondents         | % Mean    | SD ( <u>+</u> |
| Ever had              | sexual interco      | urse*                     |           |               |
| Yes                   | 154 38.             | 5 3.7 1.3                 |           |               |
| No                    |                     | 246 61.5                  | 3.9 1.3   |               |
| Total                 |                     | 400 100.0                 |           |               |
| Had sex thre          | ee months pri       | orto study**              |           |               |
| Yes                   |                     | 64 41                     | .6 3.5    | 1.4           |
| No                    |                     | 90 58.43                  | 3.7 1.2   |               |
| Total                 |                     | 400 100.0                 |           |               |
| * P<                  | <.05 ** P>.0        | 5                         |           |               |
|                       |                     |                           |           |               |
|                       |                     |                           |           |               |
|                       |                     |                           |           |               |
|                       |                     |                           |           |               |
|                       |                     |                           |           |               |
|                       |                     |                           |           |               |

| Characteristics                              | No of resp                | ondents %   | Mean   | SD ( <u>+</u> ) |
|--|---------------------------|-------------|--------|-----------------|
| <b>Age group (yrs) *</b><br>10 – 14          | 51 33.6                   | 5 3.2 1.4   |        |                 |
| 15 - 19                                      | 92 60.5 3                 | 3.8 1.2     |        |                 |
| 20 - 24                                      | 9                         | 5.9 3.      | 9 1.   | 3               |
| Total152# 100                                |                           |             |        |                 |
| Sex *  |                           |             |        |                 |
| Male   | 81 52.6                   | 3.2 1.4     |        |                 |
| Female<br>Total                              | 73 47.4<br><b>154</b> 100 | 3.8 1.2     |        |                 |
| Total  | 154 100                   |             |        |                 |
| Religion**<br>Christian                      | 108 70 1                  | 3.9 1.4     |        |                 |
| Moslem                                       | 46 29.9 3                 |             |        |                 |
| Total  | <b>154</b> 10             |             |        |                 |
| Family type**                                | 134 10                    | 0           |        |                 |
| Polygamous105 (                              | 563814                    |             |        |                 |
| Monogamous53                                 |                           |             |        |                 |
| Total  | 154                       | 100         |        |                 |
| Father's socioecor                           |                           | 100         |        |                 |
| Low72 46.8 3.4                               |                           |             |        |                 |
|  |                           |             |        |                 |
| Middle 74 48.0 3.8 1.4<br>High 8 5.2 3.7 1.3 |                           |             |        |                 |
| Total  | 154                       | 100         |        |                 |
| Mother's socioeco                            |                           |             |        |                 |
| Low 53 34.4 3.3                              |                           |             |        |                 |
| Middle 91 59.1 3                             |                           |             |        |                 |
| High 10 6.5 3.9 1.                           |                           |             |        |                 |
| Total  |                           | 100         |        |                 |
| Father's education                           | n**                       |             |        |                 |
| At least $2^{\circ}$ school100 64.9 3.8 1.4  |                           |             |        |                 |
| Below $2^0$ school54 35.1 3.4 1.2            |                           |             |        |                 |
| Total  | 154                       | 100         |        |                 |
| Mother's educatio                            | n*                        |             |        |                 |
| At least 2 <sup>0</sup> school 6             | 1 39.6 3.9 1.3            | 3           |        |                 |
| Below 2 <sup>0</sup> school 93               | 60.4 3.6 1.2              |             |        |                 |
| Total  | 154                       | 100         |        |                 |
|  |                           |             |        |                 |
| * P<.05                                      | ** P>.05                  | # missing v | values |                 |

Table 4: Socio- demographic characteristicsand knowledge of reproductive health among
 the sexually experienced respondents