Early sexual debut: prevalence and risk factors among secondary school students in Ido-ekiti, Ekiti state, South-West Nigeria.

Kabir Adekunle Durowade¹, Oluwole Adeyemi Babatunde¹, Lukman Omotayo Omokanye², Olusegun Elijah Elegbede¹, Lawrence Majekodunmi Ayodele³, Kayode Razaq Adewoye¹, Stella Adetokunbo¹, Charles O Olombofe¹, Adeboyega A Fawole², Oyebola Eyitayo Adebola⁴, Temitope O Olaniani¹

1. Department of Community Medicine, Federal Medical Centre, Ido-Ekiti, Ekiti State, Nigeria.
2. Department of Obstetrics and Gynaecology, University of Ilorin, Ilorin, Nigeria.
3. Department of Behavioural Sciences, Federal Medical Centre, Ido-Ekiti, Ekiti State, Nigeria.
4. Department of Epidemiology and Community Health, University of Ilorin Teaching Hospital, Ilorin, Kwara State, Nigeria.

Abstract
Background: Early adolescent sexual activity remains a recurring problem with negative psychosocial and health outcomes. The age at sexual debut varies from place to place and among different individuals, and is associated with varying factors. The aim was to determine the prevalence and risk factors of early sexual debut among secondary school students in Ido-Ekiti, South-West Nigeria.

Methodology: This was a cross-sectional study. The respondents were selected using multi-stage sampling technique. Pre-tested, semi-structured, self-administered questionnaire was used to collect data. Data was analyzed using SPSS version 15.

Results: More than two-thirds, 40(67.8%), had early sexual debut. The prevalence of early sexual debut was about 11%. The mean age of sexual debut was 13.10±2.82; the mean age for early sexual debutants was 11.68±1.98. The mean number of sexual partners was 2.44±1.99. Male gender, having friends who engaged in sexual activities had association with early sexual exposure (p<0.05). Alcohol intake had the strongest strength of association for early sexual debut among the students.

Conclusion: The high prevalence of early sexual exposure among the students calls for urgent interventions to stem the trend. This will help to reduce the devastating negative psycho-social and health sequels.

Keywords: Sexual debut, prevalence, risk factors, Nigeria.

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Introduction
Early sexual debut (commonly defined as having had first sexual intercourse at or before age 14) and experience of sexual coercion or violence contribute to unintended adolescent pregnancy.¹ Early age at sexual debut increases young people’s risk of infection with HIV and other STIs.² Besides being an important determinant of HIV infection, early age at sexual debut has negative effects on academic outcomes which can extend beyond secondary school, although concurrent changes in other psychosocial risk factors have not been investigated.³,⁴

Globally, early adolescent sexual activity remains a recurring public health issue.⁵ Early age at sexual debut is not without its accompanying complications⁶-⁸ which may range from an increased incidence of multiple sexual partners, unprotected sex, risk for sexually transmitted diseases including HIV/AIDS, unwanted and teenage pregnancies, unsafe abortions to mention a few.

Age at sexual debut varies from place to place and among different individuals, and is often due to varying factors. Among Nigerian adolescents aged 15-19 years, a fifth of them were found to have initiated sex (18% males and...
With an annual growth rate of 3.2%, the six year project-total population of 159,114 with vastly educated people. West by Ilogbo-Ekiti. As at 2006, Ido-Osi LGA had a文化的活动。Ido-Ekiti is bounded to the North by eloquent climate and fertile vegetation suitable for agricultural activities. Ido-Ekiti is bounded to the North by Usi-Ekiti; in the South by Igbo-Ekiti and Ora-Ekiti; in the East by Orin-Ekiti and Ipere-Ekiti and lastly to the South by Igbole-Ekiti and Ora-Ekiti; in the South by Igbole-Ekiti and Ora-Ekiti; in the East by Orin-Ekiti and Ipere-Ekiti and lastly to the West by Ilogbo-Ekiti. As at 2006, Ido-Osi LGA had a total population of 159,114 with vastly educated people. With an annual growth rate of 3.2%, the six year projected population will be 192,215. The people of Ido-Ekiti speak the Ekiti dialect of the Yoruba language. They are predominantly farmers growing both cash and food crops. These include Cocoa, Coffee, Kolanut, Yam, Maize and Okro among others. However, few of the people engage in vocational services. The people practice Christianity and Islam while some are traditional worshippers.

Certain noticeable social practices that are practiced among the people, especially the adolescents, include early penetrative sexual exposure, and associated multiple sexual partners with concomitant teenage pregnancy. Housing in certain segments of the community is overcrowded with concomitant poor sanitation and filthy environment, a reflection of the low socio-economic status of the people.

Ido-Ekiti had a total of six (three private and three public) secondary schools. These schools do not have guidance and counsellors and sex education was not in the curriculum of these secondary schools. Most of these schools are co-educational secondary schools.

The study was a descriptive/cross sectional study to identify the risk factors and determine the prevalence of early age at sexual debut among students of secondary schools in Ido-Ekiti, Ekiti State. The minimum sample size for the study was determined using Fisher's formula for estimating sample size to determine the prevalence or proportion of a factor where the population is greater than 10,000. With 10% non-response rate, a total of 271 was obtained as sample size which was rounded up to 300. However, a final total of 365 respondents were sampled during the study.

A multistage sampling technique with four stages was used to select the respondents for the study. In the first stage, simple random sampling technique by balloting was used to pick four schools (two public and two private) out of the six secondary schools in the community. Thereafter, in the stage two, stratified sampling technique was used to divide the schools selected into strata based on class, i.e. JSS1 – SSS 3. In the stage three, simple random sampling technique by balloting was used to select two arms in each class. Weighted allocation was used to calculate the number of respondents that were selected from each of the selected arms of a class. In the final stage, simple random sampling by balloting was used to select the respondents that participated in each of the selected arms of a class. A self administered, semi-structured questionnaire was used to elicit the study subjects’ socio-demographic characteristics, age at sexual debut, factors responsible for early sexual debut and reproductive health parameters among the respondents. The questionnaire was pre-tested in another secondary school in Ilorin metropolis, Kwara State with a view of detecting deficiencies or ambiguities in the questionnaire and making appropriate corrections.
Four research assistants participated and assisted in the data collection on the field. Data collation and editing was done manually to detect omission and ensure uniform coding. Data were analyzed using SPSS version 15 (IBM SPSS, Inc. Chicago, 2006); frequency tables and cross tabulations were generated to show the distribution across the socio-demographic variables and the presence of risk factors for early sexual debut. Bivariate analysis involving the use of Chi square, odds ratio with 95% confidence interval were employed to analyze the association among the variables. Chi-square test was used to determine statistical significance of observed differences in the cross tabulated variables. Odds ratio (OR) and Phi co-efficient (φ) were calculated to determine the strength of association between the risk factors and early age at sexual debut. Ethical approval for the study was obtained from the research and ethics committee of the Federal Medical Centre, Ido-Ekiti. Informed assent/consent was obtained from the participants and the nature of the research was explained. Anonymity and confidentiality of the respondents’ responses was ensured and guaranteed.

**Result**

As shown in Table 1, the mean age of the respondents was 14.95±1.73. Approximately half of the students were males and more than three-quarters, 323(88.5%), were Christians. Also, as seen in Table 1, more than three-quarters of the respondents had their mothers and fathers alive. While about a third of them had fathers with tertiary education, about half of them had mothers with tertiary education.

| Variable                          | Frequency (%) | Variable                          | Frequency (%) |
|-----------------------------------|---------------|-----------------------------------|---------------|
| Age group (years)                 |               | Who do you live with              |               |
| <10                               | 2 (0.6)       | Both parent                       | 236 (64.7)    |
| 10-14                             | 137 (37.5)    | Father                            | 22 (6.0)      |
| >14                               | 226 (61.9)    | Mother                            | 64 (17.5)     |
| Mean=14.95±1.73                   |               | Relative                          | 41 (11.2)     |
|                                   |               | Others                            | 2 (0.5)       |
| Sex                               |               | Relationship with parents         |               |
| Male                              | 180 (49.3)    | Very good                         | 323 (88.5)    |
| Female                            | 185 (50.7)    | Good                              | 30 (8.2)      |
|                                   |               | Average                           | 9 (2.5)       |
|                                   |               | Poor                              | 3 (0.8)       |
| Religion                          |               | Who do you have access to         |               |
| Christianity                      | 323 (88.5)    | Father                            | 112 (30.7)    |
| Islam                             | 42 (11.5)     | Mother                            | 234 (64.1)    |
|                                   |               | Relative                          | 16 (4.4)      |
|                                   |               | Others                            | 3 (0.8)       |
| Mother Alive                      |               | Ever had a boy friend/girl friend |               |
| Yes                               | 352 (96.4)    | Yes                               | 122 (33.4)    |
| No                                | 13 (3.6)      | No                                | 243 (66.6)    |
| Father Alive                      |               | Age at first menses(girls) (years) |               |
| Yes                               | 340 (93.2)    | N=185                             |               |
| No                                | 25 (6.8)      | <10                               | 0 (0.0)       |
|                                   |               | 10-14                             | 167 (90.3)    |
|                                   |               | >14                               | 18 (9.7)      |
| Raised by who                     |               | Respondents’ Class                |               |
| Both parent                       | 265 (72.6)    | Junior                            | 55 (15.1)     |
| Father                            | 24 (6.6)      | Senior                            | 310 (84.9)    |
| Mother                            | 51 (14.0)     |                                   |               |
| Relative                          | 25 (6.8)      |                                   |               |
| Father’s Education                |               |                                   |               |
| None                              | 29 (7.9)      |                                   |               |
| Primary                           | 66 (18.1)     |                                   |               |
| Secondary                         | 151 (41.4)    |                                   |               |
| Tertiary                          | 119 (32.6)    |                                   |               |
| Mother’s Education                |               |                                   |               |
| None                              | 31 (8.5)      |                                   |               |
| Primary                           | 82 (22.5)     |                                   |               |
| Secondary                         | 102 (27.9)    |                                   |               |
| Tertiary                          | 150 (41.1)    |                                   |               |

Table 1 showed that about two-thirds, 236(64.7%), of them were living with both parents with more than three-quarters having good relationship with both parents. About two-thirds, 234(64.1%), of the respondents claimed they have good access to their mothers while just about a third, 112(30.7%), enjoyed good access to their fathers. A third of the respondents, 122(33.4%), ever had a boy/girl friend.
In Table 2, more than three quarters of them said their parents approved of, knew their friends and knew their movement in and out of the house. Similarly, more than three-quarters, 341(93.4%), were desirous of winning academic prize in the pursuit of their career. More than three-quarters, 321(87.9%), were not involved in any form of religious activities.

Table 2: Socio-demographic and reproductive characteristics of the respondents… cont’d

| Variable                                      | Frequency (%) | Variable                                      | Frequency (%) |
|-----------------------------------------------|---------------|-----------------------------------------------|---------------|
| Discuss pubertal/maturity issues with anyone  |               | Parent approve your friends                   |               |
| Yes                                           | 137 (37.5)    | Yes                                           | 316 (87.4)    |
| No                                            | 228 (62.5)    | No                                            | 49 (12.6)     |
| If yes, with who                              |               | Parent know where you are during free time    |               |
| Mother                                        | 48 (13.2)     | Yes                                           | 306 (83.8)    |
| Father                                        | 7 (1.9)       | No                                            | 59 (16.2)     |
| Sibling                                       | 20 (5.5)      |                                               |               |
| Friend                                        | 57 (15.6)     |                                               |               |
| Relative                                      | 5 (1.4)       |                                               |               |
| Discuss effect of early sex with anyone        |               | Like to win prize for academic excellence     |               |
| Yes                                           | 102 (27.9)    | Yes                                           | 341 (93.4)    |
| No                                            | 263 (72.1)    | No                                            | 24 (6.6)      |
| If yes with whom n=102                         |               | Won prize or recognition for academic excellence |               |
| Parent                                        | 19 (18.6)     | Yes                                           | 276 (75.6)    |
| Friend                                        | 67 (65.7)     | No                                            | 89 (24.4)     |
| Sibling                                       | 14 (13.7)     |                                               |               |
| Teacher                                       | 2 (2.0)       |                                               |               |
| Discuss effect of Teenage pregnancy with anyone|               | Involvement in religious activities           |               |
| Yes                                           | 94 (25.8)     | Not at all                                    | 341 (93.4)    |
| No                                            | 271 (74.2)    | Slightly                                      | 11 (3.0)      |
| If yes, with whom n=94                         |               | Really involved                               | 13 (3.6)      |
| Mother                                        | 10 (10.7)     |                                               |               |
| Friend                                        | 69 (73.4)     |                                               |               |
| Sibling                                       | 13 (13.8)     |                                               |               |
| Teacher                                       | 2 (2.1)       |                                               |               |
| Rule at home guiding time of return and leaving|               | Mother/Father know most of your friends       |               |
| Yes                                           | 229 (81.9)    | Yes                                           | 334 (91.5)    |
| No                                            | 66 (18.1)     | No                                            | 31 (8.5)      |

Table 3 shows sexual exposure among the respondents. Less than one-quarter, 59(16.2%), ever had sex with anyone and out of this, more than two-thirds, 40(67.8%), had early sexual debut. However, the overall prevalence of early sexual debut among the respondents was about 11%. The mean age of sexual debut among the respondents was 13.10±2.82, while the mean age for early sexual debutants was 11.68±1.98. The mean number of sexual partners among the respondents was found to be 2.44±1.99 and about two-thirds, 38(64.4%), of them had between 1-2 sexual partners.
Table 3: Sexual exposure among the respondents

| Variable                                      | Frequency (%) | N=365 |
|-----------------------------------------------|---------------|-------|
| Ever had sex with anyone before               |               |       |
| Yes                                           | 59 (16.2)     |       |
| No                                            | 306 (83.8)    |       |
| Age at sexual debut (years) n=59              |               |       |
| <10                                           | 6 (10.2)      |       |
| 10-14                                         | 34 (57.6)     |       |
| >14                                           | 19 (32.2)     |       |
| Mean= 13.12±2.80                              |               |       |
| Early sexual debut (years) n=40               |               |       |
| <10                                           | 6 (15.0)      |       |
| 10-14                                         | 34 (85.0)     |       |
| Mean= 11.68±1.98                              |               |       |
| Number of sexual partners n=59                |               |       |
| 1-2                                           | 38 (64.4)     |       |
| 3-5                                           | 14 (3.8)      |       |
| ≥6                                            | 7 (1.9)       |       |
| Mean=2.44±1.99                                |               |       |
| First person to have sex with n=59            |               |       |
| Friend                                        | 56 (94.9)     |       |
| Husband                                       | 1 (1.7)       |       |
| Teacher                                       | 2 (3.4)       |       |
| Circumstances surrounding first sexual exposure n=59 |           |       |
| Willingly                                     | 28 (47.5)     |       |
| Unwillingly                                   | 14 (23.7)     |       |
| Influence of friends                          | 12 (20.3)     |       |
| Influence of alcohol                          | 3 (5.1)       |       |
| Others                                        | 2 (3.4)       |       |
| Have most of your friends had sex before      |               |       |
| Yes                                           | 91 (24.9)     |       |
| No                                            | 274 (75.1)    |       |

Also, in Table 3, more than three-quarters, 56(94.9%), of those with sexual exposure had it with either their boy or girl friend. Again, while 2(3.4%) of them claimed they had their first sexual experience with their school teachers, only a respondent said she had her first sex with her husband at the age of 15 years. On the circumstances surrounding first sexual exposure among the early sexual debutants, about half 28(47.5%), of them said it was willingly, less than a quarter, 14(23.7%) said it was unwillingly. Although, very few of them, 3(5.1%), said it was under the influence of alcohol; almost a quarter, 12(20.3%), said it was due to the influence of friends. In the same vein, a quarter, 91(24.9%), of the respondents had friends who engaged in sex.

In Table 4, the mean age of early sexual debut for males (11.34±2.058) was lower than that of the females (12.55±1.508), but the observed difference in means was not statistically significant (p=0.087). However, within the gender, the mean age of early sexual debut was generally lower than the mean chronological age of either the males or females. This observed difference was statistically significant for males (p=0.000) and females (p=0.006).
As shown in Table 5, gender of the respondents was found to have association with early sexual debut as more males than females were found to have had early sexual debut. This observed difference between male and female sexes was statistically significant (OR=3.04, 95%CI=1.40-6.72, \( p=0.001 \), \( \varphi=0.16 \)). Also, having friends who engage in sex and intake of alcohol were also significantly associated with early sexual exposure. About a quarter, 22(24.2%), of the respondents who had friends who engaged in sexual activities also had early sexual debut compared with less than one-tenth, 18(6.6%), among those whose friends did not engage in sex. This observed difference was found to be statistically significant (OR=4.53, 95%CI=2.19-9.42, \( p=0.0000032 \), \( \varphi=0.24 \)). Also, more than two-thirds, 10(66.7%), of those who took alcohol had early sexual exposure compared with more than three-quarters, 320(91.4%), of those who did not take alcohol with no early sexual exposure. This observed difference was also found to be significant (OR=21.33, 95%CI=6.17-77.59, \( p=0.0000002 \), \( \varphi=0.37 \)).

Being in a junior or senior class also had no association with early sexual debut as about a tenth of respondents in each of junior or senior class had engaged in early sex and so the observed difference was not statistically significant (OR=0.79, 95%CI=0.26-2.23, \( p=0.630 \)). Also, respondents’ involvement in religious activities had no association with early sexual exposure as more than three-quarters, 289(90.0%), of those who did not partake in religious activities had no early sexual debut. However, only about a fifth, 8(18.2%), of those involved in religious activities had early sex. This difference was not statistically significant (OR=2.67, 95%CI=0.78-4.99, \( p=0.120 \)).

### Table 4: Comparison of means of selected parameters among the respondents

| Variables                        | Mean± SD       | n  | t-test | p value |
|----------------------------------|----------------|----|--------|---------|
| **Age**                          |                |    |        |         |
| Male                             | 15.25±1.740    | 180|        | 10.801  | 0.001   |
| Female                           | 14.66±1.693    | 185|        |         |         |
| **Age of Sexual debut**          |                |    |        |         |
| Male                             | 13.21±3.036    | 47 |        | 0.258   | 0.613   |
| Female                           | 12.75±1.603    | 12 |        |         |         |
| **Age of early sexual debut**    |                |    |        |         |
| Male                             | 11.34±2.058    | 29 |        | 3.092   | 0.087   |
| Female                           | 12.55±1.508    | 11 |        |         |         |
| **Female**                       |                |    |        |         |
| Age at menses                    | 12.92±0.793    | 12 |        | 0.352   | 0.732   |
| Age at sexual debut              | 12.75±1.603    | 12 |        |         |         |
| **Male**                         |                |    |        |         |
| Age at menses                    | 12.82±1.16     | 11 |        | 0.539   | 0.602   |
| Age at early sexual debut        | 12.55±1.508    | 11 |        |         |         |
| **Female**                       |                |    |        |         |
| Age at menses                    | 14.82±1.250    | 11 |        | 3.508   | 0.006   |
| Age at sexual debut              | 12.55±1.508    | 11 |        |         |         |
| **Male**                         |                |    |        |         |
| Age at menses                    | 15.03±1.973    | 29 |        | 7.022   | 0.000   |
| Age at early sexual debut        | 11.34±2.058    | 29 |        |         |         |
| **Female**                       |                |    |        |         |
| Age at menses                    | 14.92±1.240    | 12 |        | 3.606   | 0.004   |
| Age at sexual debut              | 12.75±1.603    | 12 |        |         |         |
Table 5: Factors associated with early sexual debut among the respondents

| Variable                        | Early sexual exposure | χ² | OR* | 95%CI   | p value | φ    |
|---------------------------------|-----------------------|----|-----|---------|---------|------|
|                                | Yes (%)               | No (%) |     |         |         |      |
| Age (years)                     |                       |       |     |         |         |      |
| <10                             | 0(0.0)                | 2(100.0) | 0.25 | 0.00    | 0.00-33.99 | 1.000* | 0.03 |
| ≥10                             | 40(11.0)              | 323(89.0) | 9.66 | 3.04    | 1.40-6.72 | 0.001  | 0.16 |
| Sex                             |                       |       |     |         |         |      |
| Male                            | 29(16.1)              | 151(83.9) | 0.23 | 0.79    | 0.26-2.23 | 0.630  | 0.03 |
| Female                          | 11(5.9)               | 174(94.1) | 0.01 | 0.96    | 0.33-2.98 | 1.000* | 0.005 |
| Class in school                 |                       |       |     |         |         |      |
| Junior                          | 5(9.1)                | 50(90.9) | 1.66 | 0.00    | -       | 0.375* | 0.07 |
| Senior                          | 35(11.3)              | 275(88.7) |       |         |         |      |
| Leaving with                    |                       |       |     |         |         |      |
| Parent                          | 35(11.2)              | 277(88.8) | 0.01 | 0.96    | 0.33-2.98 | 1.000* | 0.005 |
| Relative                        | 5(11.6)               | 38(88.4) | 0.13 | 3.11    | 0.43-63.42 | 0.501* | 0.06 |
| Mother Alive                    |                       |       |     |         |         |      |
| Yes                             | 40(11.4)              | 312(88.6) |       |         |         |      |
| No                              | 0(0.0)                | 13(100.0) |       |         |         |      |
| Father Alive                    |                       |       |     |         |         |      |
| Yes                             | 39(11.5)              | 301(88.5) | 21.70 | 4.53    | 2.19-9.42 | 0.0000032 | 0.24 |
| No                              | 1(4.0)                | 24(96.0) |       |         |         |      |
| Friends engage in sex           |                       |       |     |         |         |      |
| Yes                             | 22(24.2)              | 69(75.8) |       |         |         |      |
| No                              | 18(6.6)               | 256(93.4) |       |         |         |      |
| Alcohol Intake                  |                       |       |     |         |         |      |
| Yes                             | 10(66.7)              | 5(33.3) |       |         |         |      |
| No                              | 30(8.6)               | 320(91.4) |       |         |         |      |
| Involvement in religious activities |                   |       |     |         |         |      |
| Yes                             | 8(18.2)               | 36(81.8) | 2.67 | 2.01    | 0.78-4.99 | 0.120* | 0.09 |
| No                              | 32(10.0)              | 289(90.0) |       |         |         |      |
| Desire to win academic prize    |                       |       |     |         |         |      |
| Yes                             | 36(10.6)              | 305(89.4) | 0.86 | 0.59    | 0.18-2.17 | 0.318* | 0.05 |
| No                              | 4(16.7)               | 20(83.3) |       |         |         |      |

Discussion

The mean age of respondents in this study was 14.95±1.73. This was not surprising as the mean age fell within the recognized school age of 5-15 years and besides our study population was secondary school students. However, this was lower than the mean age obtained in a similar study in Ethiopia with a mean age of 19.4±2.7.13 Though, in the two studies, more than half of the respondents were in the age group 15-19 years, the difference in the mean age could be due to the fact that the Ethiopian study was among youths while this study focused on secondary school students. Besides, the Ethiopian study was a comparative cross-sectional study of rural and urban areas while this study is simply cross-sectional.

Less than one quarter, 16.2%, of the respondents in this study had sexual exposure with more than two-thirds, 67.8%, of them having early sexual debut. This showed than more than three-quarters, 83.8%, of the respondents had no sexual experience. This was lower than the value obtained among youths in Ethiopia where half of them have ever had sex in both rural and urban communities’ studied.11 The difference between the Ethiopia study and this study could be due to the fact that this study was among in-school adolescents while the one in Ethiopia was conducted among youth. It is also lower than the 39% obtained in a study among South African youths by Khaagelani et al where early sexual debut was pegged at 16 years.14 Similarly, it was found to be lower than the 48.7% reported to be sexually active in a study in Tanzania by Mmbaga et al.4 Though the Tanzania study and this study were conducted among in-school adolescents in secondary school, however, the proportion of males sampled were much higher in the Tanzania study than this study. While males made up 168(53.2%) in the Tanzania study, they constituted 49.3% in this study; and males tend to be more involved in early sexual debut than the females.

However, the findings in this study were similar to those of Fatusi et al in a study among Nigeria adolescents where more than three-quarters, 80.2%, of them report-
ed having never had sex. This could be due to the fact that the Nigerian society/culture views early sexual exposure among adolescents as being morally wrong. Besides, some of the students may not want to disclose this especially the females.

On the circumstances surrounding the first sexual exposure, about half, 47.5%, said they willingly had the experience, while almost quarter, 23.7%, said it was not willingly done. This was lower than the value obtained in a study by Baumgartner et al in Jamaica where about one-third said they were forced to participate in their first sexual experience. The reason for the difference could be that the Jamaican study was a matched case-control between currently pregnant and sexually experienced but never pregnant controls.

Though the mean age of sexual debut among the respondents was 13.10±2.82, the mean age of the early sexual debutants was 11.68±1.98. This study also showed that the mean age of sexual debut was lower among females (12.75±1.603) than their male counterparts (13.21±3.036). However, the mean age of early sexual debut was lower among males (11.34±2.058) than females (12.55±1.508). However, the observed difference was not statistically significant (p>0.05). This was not at variance with the findings obtained by Mmbaga et al in Tanzania where the mean age at sexual debut for males (14.7±2.5 years) did not differ from that of females (14.6±2.0 years) with a p value of 0.416. However, these values were lower than the mean age of sexual debut obtained in the study in Ethiopia which obtained 16.8±2.55. Again, the study in Ethiopia was a comparative study of rural and urban areas while this study and that in Tanzania were cross-sectional studies conducted among secondary school students in a semi-urban/municipal area.

This study found that respondents’ sex/gender was associated with early sexual exposure as more males than females had their first sexual experience at or before the age of 14 years. This observed difference was statistically significant with a p value of 0.001. This was not unexpected as males are more adventurous and desirous of trying new experiences as compared to the female gender. Also, males are more likely to report their first sexual exposure than females. This was buttressed in another study in Tanzania where 82.0% of males reported their sexual debut status as against 33.0% among the females.

Also, having friends who engaged in sex and the intake of alcohol were also found to have association with early sexual exposure with p<0.05. This is so because these are social vices that can influence an adolescent towards bad behavior. Intake of alcohol, especially if excessive, can cause disorientation and loss of self-control. An adolescent, regardless of the sex difference, moving with friends who engage in sexual activities will also be negatively influenced towards engaging in pre-marital sex. A similar finding was obtained in Tanzania by Mmbaga et al where alcohol intake and having friends who engaged in sex had significant association with sexual debut. Similarly, in a study in Ethiopia by Mazengia et al, those who drink alcohol were two times (adjusted OR=2.16, 1.12-4.18) more likely to initiate sexual intercourse before the age of 18. However, the study pegged early age of sexual initiation as being < 18 years compared with ≤14 years in this study. The strength of association, also established using the phi coefficient, showed that alcohol intake has the highest value compared with the other factors. Indeed, of all the significant risk factors for early sexual exposure, the intake of alcohol was also found to have the highest phi co-efficient (φ= 0.37) which implies the strongest strength of association for early sexual debut among the students.

Conclusion/recommendation
Male gender, having friends who engaged in sex and the intake of alcohol were found to be risk factors for early sexual exposure among the students. The presence of these risk factors and the high prevalence of early sexual exposure among the students is a worrisome trend. Exposure to risk factors for early sexual exposure needs to be curtailed. Sale of alcohol to adolescents and alcohol sales outlet proximal to school environments need legislative restriction; sex education should be incorporated into curriculum of secondary schools. Parents have a moral duty to sex-educate their children on dangers of early sexual debut; and to censor the kind of friends their wards keep to avert negative social influence on them. Lastly, there is a dire need for urgent multiple intra-sectoral and inter-sectoral interventions to stem the trend and reduce the devastating negative psycho-social and health sequels of adolescents’ early sexual debut.

Conflict of interest
None declared by the authors.
References

1. Baumgartner JN, Geary CW, Tucker H, Wedderburn M. The Influence of early sexual debut and sexual violence on adolescent pregnancy: A matched case-control study in Jamaica. Int Persp on sexual and reproductive health 2009;35(1).

2. Mazengia F, Worku A. Age at sexual initiation and factors associated with it among youths in North-East Ethiopia. Ethiop. J. Health Dev. 2009;23(2):154-162. PubMed

3. Alison P, Wight D, Henderson M, West P. Does early sexual debut reduce teenagers’ participation in tertiary education? Evidence from the SHARE longitudinal study. J Adolesc. 2010;33(5-3):741-754. PubMed

4. Mmbaga EJ, Leonard F, Leyna GH. Incidence and predictors of Adolescent’s early sexual debut after three decades of HIV interventions in Tanzania: A Time to Debut Analysis. PLoS One 2012;7(7):e41700. PubMed

5. Ekundayo OJ, Dodson-Stallworth J, Roofe M, Aban IB, Bachmann LH, Kempf MC et al. The determinants of sexual intercourse before age 16 years among rural Jamaican adolescents. The Scientific World Journal. 2007;7:497-503.

6. Fatusi AO, Blum RW. Predictors of early sexual initiation among a nationally representative sample of Nigerian adolescents. BMC public health.2008; 8:136.

7. Mott FL, Fondell MM, Hu PN, Kowaleski-Jones L, Menaghan EG. The determinants of first sex by age 14 in a high-risk adolescent population. Family planning perspectives 1996; 28:13-18.

8. Lohman BJ, Billings A; Protective and risk factors associated with adolescent boys’ sexual debut and risky behavior; Journal of youth Adolescence 2008; 37:723-735.

9. Nigeria-KPMG. Nigeria-Country Profile. Available at www.kpmg.com/Africa. Last accessed on 1/11/2014

10. Slide Share. Profile of Ekiti State. Available at www.slideshare.net/Ekiti state . Last accessed on 1/11/2014

11. Bamigboye EA. Principles of Demography. In: A companion of Medical Statistics. 2nd ed. Ibadan, Nigeria. Folbam publishers; 2008:194-195.

12. Araoye MO. Subjects Selection. In: Research Methodology with statistics for Health and Social sciences. Nigeria. Nathadex Publishers; 2004:117-119.

13. Mazenga F, Worku A. Age at sexual initiation and factors associated with it among youths in North-East Ethiopia. Ethiopia J Health Dev 2009; 23(2):154-162

14. Khangeilani Z, Geoffrey S, Thabile K, Thambile M, Thomas R, Ntombizodwa M. Age at sexual debut: A determinant of multiple partnership among South African youth. Afr J Reprod Health 2010; 14(2):46-54. PubMed

15. Lugoe WL, Klepp KI, Skutle A. Sexual debut and predictors of condom use among secondary school students in Arusha, Tanzania. AIDS Care 1996; 8(4):443-452. PubMed