

Prevalence and correlates of exchanging sex for money (gift) among private college students in Bahir Dar city, Northwest Ethiopia

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Abstract: Background: Transactional sex is the practice of exchanging sex for financial or life style rewards; which has been associated with increased risk of HIV and others STD's. The aim of this study was to assess the prevalence and correlates of exchanging sex for money (gifts) among college students in Bahir Dar city. Methods: A cross sectional study was conducted in July 2012 among 790 students in eight private colleges in Bahir Dar city using multistage sampling technique. A pre-tested self-administered questionnaire was used. The data were analyzed in bivariate and multivariate logistic regression analysis with SPSS version 16 software package. Results: About 27.8% of sexually active respondents of the study were reported to have exchanged sex for money (gift). Respondents reported unprotected sex were about 2 times more likely to exchange sex compared to those never did unprotected sex (AOR= 1.85, 95%CI: 1.07-8.78). The odds of exchanged sex was higher for students living in rented house with no family compared to those living with family (AOR= 1.78, 95%CI: 1.03 -3.06), and for the students who used khat and shisha compared to those never took these substances (AOR= 1.92, 95%CI: 1.10-3.33 and AOR= 3.14, 95%CI: 1.32-7.44) respectively. Moreover, the students visited night clubs more than two times a week were more than threefold risk of exchanging sex compared to those students never visited night clubs (AOR= 3.87, 95%CI: 1.71- 8.78). Conclusion: This study revealed that 27.8% of sexually active respondents were ever exchanged sex and unprotected sex was associated with it, implying that receiving/paying money (gift) might interfere to negotiate condom use. Besides, several variables were associated with it, therefore, HIV/AIDS prevention programs need to give attention to exchanged sex.

Keywords: Exchanged Sex for Money (Gift), Sexual Risk Behaviours, HIV/AIDS, Adolescents and Young Adults, Ethiopia, Bahir Dar

1. Background

Adolescent and young adults' age is the time of experimentation and investigation but evidences suggested that youths are among the segment of population engaged in sexual risk behaviours such as exchanging sex for money (gift), multiple sexual partners and unprotected sex that could expose them at risk of HIV/AIDS [1]. Transactional sex is the practice of exchanging sex for financial or lifestyle reward; which has been strongly associated with increased risk of HIV and others sexually transmitted diseases [2].

Studies confirmed that a number of adolescent and young adults were involved in receiving/giving money from/for multiple partners in exchange for sexual favours. The reports further explained that exchanging sex for money is one of the riskiest forms of sexual encounters for HIV/AIDS other STD's [3]. Evidences declared that receiving or giving something in exchange for sex in sub-Saharan Africa among sexually active adolescents is fairly common, especially in the case of unmarried ones [4]. Accordingly young people were involved in transactional sex due to different factors including peer pressure, substance use, to get school fees and other gifts [5]. Besides a study in South Africa indicated

that transactional sex was associated with socio-economic status, having multiple sexual partners and alcohol use. In addition, individuals who were more resistant to peer pressure to have sex were less likely to report exchanged sex with casual partners [6]. Moreover, studies revealed that transactional sex was associated with elevated risk of HIV/AIDS infection among young people [7]. It is evident that HIV/AIDS affects all segments of the population but young people are largely affected by this disease and young females are largely affected than young males [8]. Several studies revealed that sexual activities in which young people engaged were risky which could result in HIV infection and other STD's [9]. According to Joint United Nations Program on HIV/AIDS (UNAIDS) 2010; millions of young people around the world confront a high risk of infection from HIV and other negative sexual outcomes as a result of behaviors that they adopt, or are forced to adopt [10]. Consequently today's youth have inherited a fatal legacy that is killing them, their family, teachers and their role models. Joint United Nations Program on HIV/AIDS (UNAIDS) 2011 report declared that globally out of estimated 2.7 million people newly infected with the virus about 41% were young people 15-24 years of age [11]. In Ethiopia according to Antenatal Care Sentinel surveillance (ANC) 2009, the prevalence of HIV/AIDS among young people of age 15-24 years was 2.6% [12]. Different studies suggested that many young people have got the necessary information from different sources with regard to HIV/AIDS, however; the major problem is to bring about behavioral change [3]. Organizations who are working on the prevention of the disease should give attention to sexual risk behaviours that could have a paramount help to control the spread of AIDS among youth. Private colleges in Ethiopia don't have accommodations for their students, so that most of them are living in the rented houses away from their supervising family and the majority them are from the poor rural farmers that have different social economical problems. Moreover, the current economic crises in the country particularly in the study area could have a role of college students to be engaged in exchanging sex for money to cover their learning fees and other expenses. Therefore, the objectives of the study was to explore the magnitude of exchanging sex for money (gifts) and associated factors for HIV/AIDS infection among college students in Bahir dar city. As to our knowledge, there is no published information on exchanging sex for money or gifts among college and university students in Ethiopia. So that this study provides paramount support for efforts intended at HIV/AIDS prevention and control programs among college and university students in the country.

2. Methods

Cross sectional quantitative study design was conducted among private college students of Bahir dar city in July 2012. This study was conducted in northwest part of Ethiopia at a distance of 563 kilometers from capital city (Addis Ababa)

among regular private college students in Bahir Dar city. There are eight private colleges in city which have regular programs with different fields of study; these private colleges are among many colleges in Amhara regional state in Northwest of the country.

Bahir dar city is the capital city of Amhara regional state and is one of the cities in Ethiopia in which investment is rapidly growing and educational investment is one of those investments currently raising. Private colleges in the city host many students and are running different fields. According to the statistics obtained from the office of registrars of all colleges; there were a total of 3824 students enrolled in all programs, with 2218 female and 1606 male students.

All regular students of private colleges in Bahir Dar city enrolled in 2011/12 academic year and were attending their education in the day program were eligible for this study.

The sample size was determined using single population proportion formula. The proportion of exchanging sex for money (gift) was determined based on previous study done in Addis Ababa University 37% [13]. The following assumptions were used: level of confidence 95%, a 5% marginal of error. Additional 10% allowance for none response rate and correction for multi-stage sampling design effect 2 were considered. The final numbers of students included in the study were 790.

The respondents were selected from target population through multistage sampling technique and Probability Proportionate to size of the students from each private colleges of in the City. The calculated sample size 790 was distributed in to each private college proportional to the size of their students. Departments were selected randomly from each college; then the sample size allocated to each college was distributed to each randomly selected department proportional to size of their students. The sample size allocated for each department again distributed to each year of study. Eventually, the required number of participants was chosen from each year of study by using simple random sampling methods from list of students.

Data were collected using self-administered structured questionnaires. Seven post graduate students as data collection facilitator and the principal investigator as supervisor were recruited during the field work. During the time of data collection, data collection facilitators were assigned on the selected sections. The students who were selected in the given section were given a questionnaire with an envelope and requested to read the consent form carefully to get informed verbal consent before they were enrolled in the study.

After getting informed consent, the data collection facilitators oriented the students how to fill the questionnaires properly, then after they told go ahead to start filling the questionnaires. Moreover the data collection facilitators assisted the students on questions that students might encounter a problem and the principal investigator coordinate the over all process of the data collection. At the end the respondents put the completed questionnaires in the

box ready for collection of questionnaires themselves.

The questionnaire was initially prepared in English and translated in to local language Amharic in order to obtain the required information from the respondents and was translated back to English to check for any inconsistencies or distortions in the meaning of words and concepts. Data collection facilitators were trained for two days to make them familiar with the questionnaires; the way how to orient and guide the study participants in filling the questionnaire format. Pre-test was done among 40 randomly selected students from Bahir Dar polytechnic college. The data collection was completed within one day to avoid information contamination.

Data were double-entered onto the EPI-data Version 3.1 software by defining legal values for each variable and setting skip patterns. The double-entered data were validated and exported to SPSS version 16 software package.

Univariate and Bivariate analysis were computed to see the frequency distribution and to test whether there is association/difference/ between exchanging sex for money (gift) and selected independent variables respectively. Factors associated with exchanging sex for money at bivariate were identified and the variables with p-value of 0.20 and less were taken to multivariable analysis and the model was built with backward elimination. Finally, the p-values less than 0.05 were considered statistically significant.

Ethical clearance was obtained from ethical review committee of Bahir Dar University and communicated with regional health bureau before the time of data collection. Letter of permission was obtained from the health bureau and each college.

The confidentiality of information was maintained by excluding personal identifiers data were collected after securing informed consent and/or assent from every

respondent.

3. Results

3.1 Socio-Demographic Characteristics of the Study Population

A total of 790 students completed the questionnaires of which 19 responses were excluded because of gross incompleteness and resulting a response rate of 97.6%. Out of the total respondents 498(64.6%) were females. More than four fifth of the respondents (84.7%) were never married. The mean±SD age of the study population was 21.46±2.441 years. Slightly more than half of the respondents (52.9%) were living alone in rented house and the rest were living with family. Three hundred eleven (40.3%), 237(30.7%) and 223(28.9%) respondents were year one, two and three respectively. Moreover the study indicated that 36.8%, 27.2%, 33.1%, and 2.9% of respondents were visiting religious institutions regularly, once or twice a week, some times and never visited religious institutions respectively. And more than 50% of the respondents (52.5%) got pocket money below average 296 Ethiopian birr per month, while 180(23.3%) of the respondents got above 400 birr per month. Moreover 345(44.7%) and 159 (20.6%) of the participants' mothers and fathers were Illiterate respectively; and 313 (61.5%) participant's family monthly income was below the average 2523 Ethiopian birr while 118 (23.1%) participants' families earn more than 3000 Ethiopian birr per month.

In terms of discussion on sexual issues between families and the students, 216 (28%) and 143(18.5%) of them were discussed on issues with their mothers and fathers respectively (Table 1).

Table 1. Socio demographic characteristics of college students in Bahir dar city, July 2012

Variables (N=771)	Categories	Total n (%)
Sex	Male	273(35.4)
	Female	498(64.6)
Age	15-19	152(19.7)
	20-24	535(69.4)
	>24	84(10.9)
Marital status	Married	118(15.3)
	Single	653(84.7)
Living circumstance	Rented	388(50.3)
	With family	383(49.7)
Years of study	Year- I	311(40.3)
	Year-II	237(30.7)
	Year-III	223(28.9)
Freq. of visiting religious sites	Regularly	284(36.8)
	Onc/ twice a week	210(27.2)
	Some times	255(33.1)
	Never visit	22(2.9)
Mothers education level	Illiterate	345(44.7)
	Read and write	245(31.8)
	1-8 grade	89(11.5)
	9-12 grade	55(7.1)
	Diploma & above	37(4.8)

Variables (N=771)	Categories	Total n (%)
Fathers educational level	Illiterate	159(20.6)
	Read and write	284(36.8)
	1-8 grade	115(14.9)
	9-12 grade	115(14.9)
Discussion of sexual issues with mother	Diploma & above	98(12.7)
	Yes	216(28)
	No	543(70.4)
Discussion of sexual issues with father	I don't remember	12(1.6)
	Yes	143(18.5)
	No	616(79.9)
	I don't remember	12(1.6)

3.2. Risk Related Factors for Exchanging sex for Money among College Students of Bahir Dar City

Out of the total 771 respondents 326(42.3%) were reported to have an intimate friend initiated sexual intercourse. Alcohol and Khat were the most frequently used substances. Accordingly out of the total respondents 194(25%) alcohol, 139(18%) Khat, 37(4.8%) shisha and 15(1.9%) were Cigarette users; of the total substance users 33 respondents 16 (48.5%) males and 17(51.5%) females were reported to use regularly. One hundred sixty two

(54.5%) males and 202(55.5%) females were exposed to pornographic movies; of these respondents 104 (28.6%) viewed once or twice a week and 185(50.8%) of them viewed occasionally. Besides, 153(19.2%) of total respondents were confessed to attend night clubs; of these night club attendants 28(18.3%) visited once a week and 44(28.7%) of them were attended more than two times a week. See table 2 for the detail.

Table 2. Percentage distributions of risk related factors for exchanging sex among college students in Bahir dar city, July 2012

Risk related factors (N=771)	Sex of the respondents		
	Male	Female	Total n (%)
Peer pressure			
Yes	145(44.5)	181(55.5)	326(42.3)
No	128 (28.8)	317(71.2)	445(57.7)
Khat use			
Yes	72(51.8)	67(48.2)	139(18)
No	201(31.8)	431(68.2)	632(82)
Alcohol use			
Yes	100(51.5)	94(48.5)	194(25.2)
No	173(30)	404(70)	577(74.8)
Shisha use			
Yes	21(56.8)	16(43.2)	37(4.8)
No	252(34.3)	482(65.7)	734(95.2)
Frequency of using substances			
Regularly	16(48.5)	17(51.5)	33(4.3)
Once or twice a week	29(50.9)	28(59.1)	57(7.4)
Some times	91(51.4)	86(48.6)	177(22.96)
Never use	137(27.2)	367(72.8)	504(65.3)
Viewed pornographic movies			
Yes	162(54.5)	202(55.5)	364(47.2)
No	111(27.3)	296(72.7)	407(52.8)
Frequency of viewing porn movies			
Never viewed	144(29.9)	338(70.1)	482(62.5)
Once or twice a week	48(46.2)	56(53.8)	104(13.5)
Some times	81(43.8)	104(56.2)	185(24)
Visited night club			
Yes	71(46.4)	82(53.6)	153(19.8)
No	202(32.7)	416(67.3)	618(80.2)
Frequency of visiting night club			
Never visit	202(32.7)	416(67.3)	618((79.5)
Some times	40(49.4)	41(50.6)	81(10.5)
Once a week	8(28.6)	20(71.4)	28(3.63)
More than two times a week	23(52.3)	21(47.7)	44(5.7)

3.3. Sexual Behaviours of the Study Participants of College Students in Bahir Dar city

The findings of this study indicated that 391 (50.7%) ever had sexual intercourse. The mean age at sexual commencement for both sexes was 18.7 years with standard deviation of 1.97. One hundred nine (27.8%) of respondents of the study 20 (18.4%) males and 89(81.6%) females convinced to have paid and received money in exchange of sex respectively and 115 (65%) males and 140(35%) females, had sex with more than one sexual partner in past 12 months. Besides with regard to condom use, 231(59%) sexually active respondents were reported to use condom consistently, however; 106(27%) and 44(11.3%) of sexually

active respondents acknowledged to use condom occasionally and never during their sexual activities respectively. Among respondents who were not using condom consistently disclosed the reason why they failed to use was that, 44.4% reported condom decreases sexual pleasure, 28.7% described fear of side effects and 18.5% because of religious reason. Besides, this study declared that among respondents who didn't initiated sexual intercourse; about 59.7% reported delayed sex to wait until marriage, 30% fear of HIV/AIDS and 8.2% because of religious reason (Table 3)

Table 3. Sexual behaviours of college students in Bahir dar city, July 2012

Characteristics of Respondents	Sex of respondents		Total n (%)
	Male	Female	
Ever had sexual intercourse(n= 771)			
Yes	169(43.2)	222(56.8)	391(50.7)
No	104(27.4)	276(72.6)	380(49.3)
Age at first sex(391)			
< 18 years	68(36.6)	118(63.4)	186(47.6)
>=18 years	100(49)	105(51)	205(52.4)
Ever had sex in the last 12 months(n= 391)			
Yes	154(43.3)	202(56.7)	356(91)
No	15(42.9)	20(57.1)	35(9)
Ever received or paid money(gift) to have sex(391)	20(18.3)	89(81.7)	109(27.8)
Number of sexual partner in the last 12 months(391)			
One	39(21.8)	140(78.2)	179(45.8)
More than one	115(65)	62(35)	177(45.3)
Used condom in the first sex(n= 391)			
Yes	24(53.3)	21(46.7)	45(11.5)
No	143(41.9)	198(58.1)	341(87.2)
Frequency of condom use(n= 391)			
Regularly	102(44.2)	129(55.8)	231(59)
Some times	43(40.6)	63(59.6)	106(27)
Never	21(47.7)	23(52.3)	44(11.3)
Reason not use condom(n= 254)			
Lack of information	5(45.5)	6(54.5)	11(4.3)
Cultural taboo	4(40)	6(60)	10(3.93)
Religious reason	19(40.4)	28(59.6)	47(18.5)
Fear of side effects	25(34.2)	48(65.8)	73(28.7)
Decreases pleasure/satisfaction	49(43.4)	64(56.6)	113(44.4)
Reason not have sex until study period (n= 380)			
Fear of AIDS/other STD'S	41(35.7)	74(64.3)	115(30.3)
Fear of family	1(50)	1(50)	2(0.53)
Because of religious reason	12(38.7)	19(61.3)	31(8.2)
Need to wait until marriage	42(18.5)	185(81.5)	227(59.7)

3.4. Logistic Regression Analysis between Exchanging Sex for Money (Gift) and Predictor Variables among Private College Students in Bahir Dar City

The multivariate logistic regression analysis result indicated on table 4 that female students were more than seven times more likely to receive money compared to male students to pay money to have sex (AOR= 7.78, 95%CI: 4.08-14.83). College students whose family were a way and living in rented houses were more likely to have exchanged sex for money compared to students who were living with their family (AOR = 1.78, 95%CI: 1.03 -3.06). Religiosity was the other predictor variable which showed

significance difference with exchanging sex for money, students who were never visit religious sites and those visit sometimes were found to be about nine and seven times more likely to exchange sex for money compared to those visiting religious sites regularly (AOR = 8.98, 95%CI: 2.45-32.92) and AOR= 6.91, 95%CI: 2.95-16.14) respectively. Year of study of the respondents was the other predictor variable indicating that year three students had about three fold risk of exchanging sex for money

compared to year one students(AOR= 2.59, 95%CI: 1.20-5.59). Substance use such as Khat and shisha were the other predictor variables that showed significance difference with exchanging sex for money; students who were using Khat and shisha were about 2 and 3 times risk of exchanging sex for money compared to students who never took these substances (AOR = 1.92, 95%CI: 1.10-3.33) and AOR= 3.14, 95%CI: 1.32-7.44) respectively. Besides, exchanging sex for money was associated with frequency of attending

night club; students who visited night club more than two times a week had more than threefold risk of exchanging sex for money compared to students never visited(AOR =3.87, 95%CI: 1.71- 8.78). Moreover, the study indicated that students who reported unprotected sex in the last 12 months of their sexual activities were about 2 times more likely to have transactional sex compared to those never did unprotected sex(AOR= 1.85, 95%CI: 1.07-8.78).

Table 4. Comparison of exchanging sex for money by selected variables Private college students of Bahir dar city, July 2012

Variable	Exchanging sex for money		OR(95%CI)	
	Yes	No	Crude	Adjusted
Sex				
Male	20	253	1.00	1.00
Female	89	409	2.753(1.653-4.583)	7.78(4.08-14.83)
Living condition				
Rented	77	311	2.716(1.750-4.215)	1.78(1.03 -3.06)
With family	32	351	1.00	1.00
Years of study				
Year 1	12	299	1.00	1.00
Year 2	35	202	4.317(2.188 -8.518)	1.65(0.76-3.59)
Year 3	62	161	9.595(5.024 -18.328)	2.59(1.20-5.59)
Religiosity				
Regularly	8	276	1.00	1.00
Once or twice a week	16	194	2.845(1.194 -6.6780)	2.63(1.04-6.61)
Some times	78	177	15.203(7.169-32.240)	6.91(2.95-16.14)
Never visit	7	15	16.1(5.150-50.327)	8.98(2.45-32.92)
Monthly pocket per month				
<150 birr	25	211	1.00	1.00
150-250 birr	17	150	0.96(0.50-1.83)	0.63(0.29-1.38)
251-400 birr	29	159	1.54(0.87-2.73)	1.08(0.54-2.25)
>400 birr	38	142	2.26(1.31-3.91)	1.14(0.58-2.25)
Peer pressure				
Yes	68	258	2.597(1.710-3.944)	0.92(0.52- 1.65)
No	41	404	1.00	1.00
Khat use				
Yes	42	97	3.651(2.347-5.680)	1.92(1.10-3.33)
No	67	565	1.00	1.00
Shisha use				
Yes	16	21	5.251(2.645-10.426)	3.14(1.32-7.44)
No	93	641	1.00	1.00
Alcohol use				
Yes	47	147	2.656(1.743-4.046)	0.77(0.44-1.36)
No	62	515	1.00	1.00
Unprotected sex				
Yes	47	103	4.11(2.67-6.35)	1.85(1.07-8.78)
No	62	559	1.00	1.00
Viewed sex movies				
Yes	74	290	2.712(1.764 - 4.171)	1.11(0.63-1.97)
No	35	372	1.00	1.00
Frequency of viewing sex film				
Never viewed	47	435	1.00	1.00
Once or twice a week	23	81	2.628(1.513- 4.565)	0.73(0.30-1.75)
Some times	39	146	2.472(1.554- 3.932)	0.86(0.38-1.92)
Visited night club				
Yes	46	107	3.787(2.457-5.838)	0.11(0.01-10.58)
No	63	555	1.00	1.00
Frequ. of visiting night club				
Never visit	61	557	1.00	1.00
Some times	20	61	2.994 (1.693- 5.294)	1.99(0.99 – 3.99)
Once a week	11	17	5.908(2.646- 13.191)	2.50(0.95-6.59)
More than two times a week	17	27	5.749(2.966-11.145)	3.87(1.71- 8.78)

4. Discussion

The aim of this study was to assess the prevalence and correlates of exchanging sex for money (gifts) for HIV/AIDS infection among private college students in Bahir dar city. Adolescents and young adults have increased interest in the opposite sex, highly concerned with sexual attractiveness and are frequently changing relationships [1]. Moreover, higher education students were engaged in risky sexual behaviours that could placed them at higher risk for HIV/AIDS [13, 14, 15]. Accordingly this study provides important information regarding sexual behavior of college students. The findings of this study indicated that 50.7% of the study respondents were sexually active and this is consistent with similar studies done in southern Ethiopia where the figure was 49% [16] and 54% in Uganda for both sexes [17]. According to this study the prevalence of exchanging sex for money (gift) was 27.8%, and is line with study in Addis Ababa where exchanged sex among school adolescents was 20.6% [18], whereas our finding was not in accordance with a study among Addis Ababa university students where the prevalence of exchanged sex among sexually active respondents was 14.5% [19], and among south African young people the prevalence being 12.5% [20]. The prevalence of exchanged sex for money (gift) in this study is relatively higher than the mentioned ones this could be because of private college students in Ethiopia were living in the rented houses where most of them were with no family supervision and they need to pay for college fees unlike governmental college and university students accommodated in the campus and learn free of payment.

The current study indicated that students who reported unprotected sex in the last 12 months of their sexual activities were about 2 times more likely to have exchanged sex compared to those never did unprotected sex (AOR=1.85, 95%CI:1.07-8.78), indicating that receiving/paying/ money (gift) affects negotiations to condom use, in turn this is a serious obstacle to prevent HIV/AIDS and other sexually transmitted diseases and this is in line with a study conducted among university students in South Africa where transactional sex was a common practice and associated with unsafe and inequitable sexual practices [21].

Besides, the findings of our study declared that female students were more than seven times likely to receive money (gift) compared to male students to pay for sexual intimacy, this is line with a study among Addis Ababa university students and among unmarried adolescents in sub-Saharan African countries where more number of female adolescents were engaged in exchanged sex for money compared to males [19, 22]. Whereas, our finding is not in accordance with a study among adolescents in USA where males were about two times more likely to be engaged in exchanged sex compared to their female counter parts [2].

According to our study substance use such as Khat and shisha were the other significant predictors of exchanging sex for money(gift); students who were using Khat and shisha were about two and three times risk of exchanging

sex for money compared to students who never took these substances (AOR = 1.92,95%CI: 1.10-3.33) and AOR= 3.14, 95%CI: 1.32-7.44) respectively. This could be due to risk perception ability decreases with substance consumption; indicating that individuals who consume substances were more likely to get infected with HIV/AIDS and other sexually transmitted infections [23] and this is in line with other study where substance use was associated with exchanged sex [20].

5. Strengths

The Prevalence and correlates of exchanging sex for money among college students were identified.

The quality of the data was maintained by pretest of the questionnaires on similar population, prior training of the data collectors and supervisors. Besides, multistage sampling technique was employed to select the study subjects from all eight private colleges to minimize bias.

Moreover, appropriate tests were employed and findings were compared with related studies locally and internationally.

6. Limitation

Though transactional sex is one of sensitive issue of sexual behaviour, this study contains only quantitative component, it didn't triangulated qualitatively. In addition, despite self administrated questionnaire was used, which gave greater right to respond freely to get a valid data on this sexual sensitive issue; still social desirability bias might not be eliminated.

7. Conclusions

This study revealed that 27.8% of sexually active respondents of the study were ever exchanged sex for money (gift). Besides, unprotected sex was associated with transactional sex, implying that receiving/paying money (gift) might interfere to negotiate condom use. Moreover, religiosity, year of study of students, current living condition (living in rented house without family or living with family), khat and shisha use, and frequency of visiting night clubs were associated with exchanged sex; therefore, HIV/AIDS prevention programs need to give attention to exchanged sex.

Acronyms

- ANC- Antenatal Care
- EDHS- Ethiopian Demographic and Health Survey
- EHNRI- Ethiopian Health and Nutrition Research Institute
- FHI- Family Health International
- STDs- Sexually Transmitted Diseases

Computing Interests

Authors declared that they have no computing interests

Author's Contribution

ZA conceptualized the research problem, designed the study, conducted field work, collected data, and drafted the manuscript for publication.

WA was involved in Revision of the research proposal, supervision of the field work, data analysis and revision of the manuscript for publication.

GF Was involved in the conducted field work, collected data, analyzed data, and revision of the manuscript for publication

BS was involved in preparing the research proposal, field work, and revision of the manuscript. All authors of the manuscript have read and agreed to its content.

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