



Research Article

Prevalence of premarital sexual practice and associated factors among Goba town high school students, **South East-Ethiopia**

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Abstract

Background: Premarital sexual practice significantly attributes for increase adolescent's risk of unintended pregnancy, early marriage, abortion and STIs. In Ethiopia adolescents were intended to engage at early initiation to sexual intercourse without having proper protection has been one of the concerns. Study aimed to assess the prevalence of premarital sexual practice and associated factors among high school students.

Method: A facilities based study design was employed. Data were collected from 291 randomly selected Negade and Finca Bamo high school students using structured questionnaire from June 1-30, 2018. Bi-variate logistic regression used to identify variables that crudely associated and variables with p - value < = 0.05 fitted to multiple logistic regression. Odds ratio with 95% confidence interval was estimated using multivariable logistic regression to identify independent predictors of premarital sex.

Result: Among high school students, 31.2% reported had experienced premarital sexual practices. This shows that premarital sexual practices among high school adolescent's students were high. Drinking alcohol [AOR = 4.06, 95%CI, (2.06 - 7.99)]. Watching pornographic video [AOR: 2.78, 95%CI, (1.45 - 5.3)] and educational status of mothers [AOR: 0.33; 95% CI (0.13, -0.84)] were significantly associated factors.

Conclusion: Drinking alcohol, watching pornography and mother education were predominantly significantly associated. Therefore, an integrated effort needs to be highlighted to deter the health behavioral problems of school adolescents at the early stages.

More Information

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Keywords: Prevalence; Premarital sex; Sexual practice; Goba; Ethiopia





Introduction

World Health Organization (WHO) defines adolescent people as those between the ages of 10-19 years [1]. Adolescent is the time of transition from childhood to adult hood during which young people experiencing following puberty and human beings faced once in their life time [2]. The world today is experiencing a rapid increasing in the number of young people. Today adolescents constitute approximately one-fifth of the world's population with more than four-fifth in developing countries [3].

According to Ethiopian demographic and health survey (EDHS), 2011, 1.5% of Ethiopian adults age 15-49 are infected with HIV and the number of women age 15-19 years who tested positive for HIV is much higher than the number of males in the same age group which is due to early sexual initiation among young females and having multiple sexual partner [4].

Pre-marital sex is any sexual activity with an opposite sex partner or with same sex partner before he/she has started a marriage life. The term is usually used to refer the intercourse before a marriage. Sexual activities among young people have been increasing worldwide. Several studies in Sub-Saharan Africa have also documented high and increasing pre-marital sexual activities among young peoples [5].



In Ethiopia, an increasingly large number of adolescents are enrolled in preparatory schools. Early initiation to sexual intercourse without having proper protection has been one of the concerns. Adolescents often encounter high-risk situations, such as contracting STD/HIV/AIDS and often experience unintended pregnancy, illicit abortions and its negative sequel. Both female and male adolescents are usually curious to discover sexes which are usually unprotected [6].

Another study done among Ambo high school students revealed that 30.5% of sexually active female students had got pregnant at least once prior to the study out of which 66.7% reported history of abortion and from sexually active male respondents 15.94% were also impregnated at least once prior to that assessment. The existing literatures also document that adolescents engage in pre-marital sex with insufficient knowledge of reproductive health and the proportion of premarital sex is higher among older age groups than younger age groups [7]. Different studies conducted in Ethiopia identified inconsistent factors of sexual practice. Thus, this study tries to assess prevalence of pre-marital sexual practice and factors associated with it among Goba town high school students.

Method and material

Study setting

Study conducted in Goba town high schools, which were found in Bale zone of the Oromia region. The town was located in Oromia region approximately 446 km south east from the Capital city, Addis Ababa and 13km from capital city of Bale zone, Robe town. And in this town there were two secondary schools that served a population of Goba town and the surrounded kebeles. The total enrolled students in Negade high school were 1564, out of which 762 were females and 802 were males. The total enrolled students in Finca 'a Bamo were 400, out of which 208 were females and 192 were males. The total number of students were recruited in Grade 9 and 10 were 1245 and 719 respectively. Totally 1964 students, out of which 970 were females, were attended high school education in Goba town.

Study design and participants

A facility based cross-sectional study was carried out in Goba town (Negade and Finca Bamo high school), Bale zone, south east Ethiopia from June 1 to June 30, 2018. The students who attended during the study period were selected as participants that were specifically ensure the inclusion criteria.

Sample size determinations and sampling techniques

The sample size for this study was determined using single population proportion formula: assuming, 95% confidence interval (CI), 5% margin of error (d), 10% Non-response rate and p = By taking 28.3% of prevalence of premarital sexual practice that were conducted in Sebata secondary school [8]. Therefore, the determined sample size by considering 5% contingency was 343. Since the total population was < 10,000 this might needs the correction formula then the final

sample size was 291. During the study consultation with high school administration was made to obtained details of classes and respective numbers of students in the school. A Simple random sampling technique was used and the sample size allocated proportionally to $9^{\rm th}$ and $10^{\rm th}$ grade students.

Data collection procedures

Structured, pretested and self-administer questionnaire Oromia version questionnaires were used to collect the data adapted from different literatures. The questionnaire incorporates student information of, socio demographic characteristic, sexual history of the respondent and associated factors were major factors that contributed for the involvement of the respondents into premarital sexual activity. The principal investigator was coordinating the overall activity of the study.

Data analysis

Data coded and entered into a computer using Epi info version 7.2.0.1 and checked for completeness and transferred to SPSS version 20 for analysis. During the process of statistics analysis like frequencies, percentage, pie chart, table and mean computed. Bi-variate logistic regression used to identify variables that crudely associated and variables with p - values less than or equal to 0.05 fitted to multiple logistic regression. Then association between dependent and independent variables was assessed using adjusted odds ratio (AOR), 95% CI and p value of < 0.05 considered statistically significant.

Operational definition

Premarital sexual practice: in this study refers to penetration of males' penis into vagina.

Premarital sex: refers to sexual practice with any one before the marriage between has been launched.

Ethical consideration

Before data collection procedure, letter of permission was obtained from Madda Wallabu University Research and Community Service Directorate and verbal consent was taken from the study subjects. The respondent right and dignity was also respected in order to keep confidentiality of each respondents' name was not included.

Result

Sociodemographic characteristics of study participants

Two hundred sixty respondents aged between 15-19 years were participated yielding a response rate of 276 (94.9%). One hundred fifty eight (57.2%) of the respondents were males. Regarding education, majority of the respondents were from grade nine (66.7%). Similarly the followers of orthodox Christianity were (43.5%), were followed by Muslims (36.2%) and (2.5%) were other (wakifeta, hawariat).

The most predominant ethnic group was Oromo (75.7%). Majority of the respondents (95.3%) were unmarried.



Regarding place of residence more than half (72.5%) were from urban. Regarding educational status of father, most of them were (43.1%) completed primary and secondary school, whereas (33.7%) attained college/university respectively. Regarding, educational level of mother, majority of them were attained primary and secondary (35.1%), and (32.2%) can read and write. Monthly income of most of the study subjects' family ranges from > 2000 Birr which accounts (37.7%).

More than half of the respondents (65.2%) were lived with their families while the rest (34.8%) were living away from their families. Most of the respondent were (54.3%) attended religious service regularly. The study subjects reported that their school expenses mostly covered by both parents (58%). Most of the respondents were (34.8%) had do not work to get money and the rest one hundred eighty (65.2%) work different type of jobs to get money (Table 1).

Sexual history of the participants

Regarding to sexual practice one hundred ninety (68.84%) of participants were did not ever engaged in premarital sexual practice. Eighty six (31.16%) of the participants were experienced sexual intercourse with different people during the study. More than half of the participants (67.4%) were having sexual intercourse with their intimate friends and some of them were with teacher.

Most of the participants should initiate for sexual intercourse due to love; this accounted (39.5%) from the mentioned reasons, to get money, with forces, individual desire and due to substance abuse. From the total participants engaged in premarital sexual practice, almost nearly half (33.7%) had a regular sexual partner during a data collection period. More than half (66.3%) have had sex with more than one sexual partner.

Regarding safe sexual practice, (34.9%) of the students was used condom in their first sexual intercourse. But more than half of the participants (65.1%) did not use condom during their first sexual practice. The reason not to use condom among non-users were (37.5%) of them ashamed to ask partner, (14.3%) of them not available, (35.7%) didn't think, (7.1%) of them was substance abuse and the remaining (5.4%) are due to not know how to use (Table 2).

Prevalence of premarital sexual practice

Regarding the premarital sexual practice (68.84%) of them did not ever involved in any sexual practice (no) but (31.16%) were experienced sexual intercourse (yes) with different people (Figure 1).

Factors associated with premarital sexual practice

In the multivariate analysis students whose mothers educational status determine premarital sexual practice [AOR: 0.33; 95%CI (0.13, -0.84)] with p - value = 0.02, alcohol drinking [AOR: 4.06, 95%CI, (2.06, -7.99)] with p - value <

Table 1: Socio demographic participants of Goba district high School students in

Bale zone, 2018. Variables	Categories	Frequency	% Percent
- Variables	15-19	160	% Percent
Age (years)	20-25	113	58 40.9
	> = 25	3	1.1
0	Male	158	57.2
Sex	Female	118	42.8
Grade level	G-9	184	66.7
Grade level	G-10	92	33.3
	Orthodox	120	43.5
Religion	Muslim	100 43	36.2 15.6
	Protestant Catholic	6	2.2
	Other	7	2.5
	Oromo	209	75.7
Fall : - :a	Amhara	55	19.9
Ethnicity	Tigre	7	2.5
	Other specify	5	1.8
	Single	263	95.3
Current marital status	Married	5	1.8
	Divorced	8	2.9
Residence	Urban Rural	200 76	72.5 27.5
		-	65.2
	Parents Relative	180 18	65.2
Current live with	Friend	9	3.3
	Alone	69	25.0
	Illiterate	33	12
Educational status of father	Read and write	24	8.7
Educational status of father	Primary and secondary	115	41.7
	College/university	90	32.6
	Illiterate	58	21.0
Educational status of mother	Read and write	89 97	32.2 35.1
	Primary and secondary College university	25	9.1
	Farmer	102	37
	Merchant	48	17.4
Occupation of father	Employed	112	40.6
	No father	12	4.3
	Other specify	2	0.7
	Farmer	68	24.6
Occupation of mother	Merchant Employed	49 25	17.8 9.1
occupation of mother	House wife	25 127	9.1 46.0
	No mother	7	2.5
	< 500	33	12
Families monthly income in birr	500-1000	58	21.0
	1000-1500	46	16.7
	1500-2000	35	12.7
	> 2000	104	37.7
School fee Covered by	Father Mother	52 31	18.8 11.2
	Both	160	11.2 58
Solidor rec dovered by	Myself	18	6.5
	Other	15	5.4
Job you work to get money	Labor work	8	4.4
	Shoeshine	10	5.6
	Shopkeeper	1	.6
	Cafe	2	1.1
	Others	159	88.3
	Attend daily Attend monthly	150 85	54.3 30.8
Religious services	Attend once a year	11	4.0
	Attend < once a year	3	1.1
	,		

0.0001 and watching pornography [AOR: 2.78, 95%CI, (1.45-5.3)] wit p - value = 0.002 were independent predictors of premarital sex (Table 3).

Discussion

This study revealed that more than one fourth (31.16%)



of the respondents had premarital sexual intercourse. It was in line with from Sebeta town, 28.3% [8], Bahir-Dar, 30.8% [9], Maichew, 29.3% [3], Gondar and Meteme, 31.9% [14]. But this study finding was higher than study done in Agaro, 25% [10] and Shendi town, 19% [11]. This could be explained by

Table 2: Premarital sexual practices and behavior among Goba district high school students in Bale zone.

Variable	Categories	Frequency	Percent
Have boy/girl friend	Yes	112	44.2
Trave boy/girl menu	No	154	57.6
	15-19	43	50.0
Age at first sexual intercourse	20-25	23	26.7
, igo at mot osxuar microsurse	> =25	1	1.2
	Not know	19	22.1
	15-19	29	33.7
Age of first sexual Partner	20-25 > 25	17 1	19.8
	> 25 Did not know	39	1.2 45.3
Consumed any alashal and 'khat' during	Yes	13	15.1
Consumed any alcohol and 'khat' during first sex	Yes No	73	84.9
mst sex	Spouse	4	4.6
	Friend	58	67.4
First Sexual partner	Teacher	17	19.8
	Other specify	7	8.2
	Fall in love	34	39.5
	Had sex desire	21	24.4
	Forced	5	5.8
Reason to start sex	To get money	3	3.4
	Peer pressure	7	8.2
	Substance abuse	16	18.7
Did you use condom during sexual	Yes	30	34.9
intercourse($n = 86$)	No	56	65.1
,	Always	6	20.0
How often you use condom	Usually	3	10.0
,	Sometimes	21	70.0
	Not available		140
	Ashamed to ask	8 21	14.3 37.5
	partner	20	35.7
Reasons for not use of condom	Didn't think	4	7.1
	Substance abuse	3	5.4
	Don't know how	0	0.0%
	to use		
Sexual intercourse after drinking alcohol	Yes	33	38.4
<u> </u>	No	53	61.6
Sexual intercourse after smoking	Yes	26	30.2
cigarettes	No	60	69.8
Sexual intercourse after chat chewing	Yes	13	15.1
	No	73	84.9
Number of sexual partner	One	29	33.7
	Two or more	57	66.3
Had sex in the past 12 months	Yes	30	53.6
22 22 page 12	No	56	46.4
Peer pressure toward sex	Yes	7	8.1
. 35. p. 5554. 5 to 4. 4 56A	No	79	91.9



Figure 1: Prevalence of premarital sex among respondents in Goba town high school students in 2018.

decrement of discussion about reproductive health risks and rise of pornography. Also, this study's finding was lower than the study from Nepal, 36.5% [12]. This inconsistence could be justified by the difference in a background of the study participants and variation in the study areas.

Other finding revealed that condom use during first sexual intercourse in this study is about (34.9%). This finding is higher than from a study result 33.6% among students of Jimma town [13]. This could be due to fact that availability of information about condom has got an impact on condom use through time.

Study showed that, the student reason claimed to have the first sexual intercourse was due to fall in love, 39.5%, had desire, 24.4%, Peer pressure, 8.2% and to get money or gifts, 3.4%, Raped, 5.8%, and substance abuse, 18.7%. This finding is similar to the study conducted in Addis Zemen Town South Gondar (14). But the reason of having premarital sex among northern Ethiopia High School students was due to peer pressure (35.2%), and use of drugs, which is different from the current study [3]. The possible reason may be adapting of western culture and style.

One of the predictor variables in this study were students who drink alcohol four times more likely to report and begin premarital sexual practice than that of those who did not drink alcohol (AOR = 4.06, 95%CI, (2.06, 7.99)). The possible reason might be, drinking alcohol decrease self-control and predispose to risky behavior such as early initiation of sexual intercourse [15].

This study found that students whose educational status of mother attended college and above education were odds of 0.33 premarital sexual practice than those of not attended formal education [AOR = 0.33, 95%CI, (0.13-0.84)]. This finding is in line with study done in gedeo zone [AOR=0.81, 95%CI, (1.12, 2.35)].

On the other hand, students whose educational status of mother attended college and above education were 0.33 time less likely to have odds of premarital sexual practice than those of not attended formal education [AOR = 0.33, 95%CI, (0.13-0.84)]. This finding is in line with study done in gedeo zone [AOR = 0.81, 95%CI, (1.12, -2.35)].

In addition, those students who were watching pornography were reported high risk of premarital sexual practice than those who did not watch pornography [AOR = 2.78, 95%CI, (1.45, 5.3)]. This finding is higher than result of study done in shendi town of east gojjam [AOR = 1.74 95% CI, (1.18, 2.54)]. This may be due to the difference in study population culture [11].

Conclusion

This study has revealed that significant numbers of high



Table 3: Final regression analysis showing factor associated with premarital sexual practice among high school students.

	Premarital sex								
Model variables	Yes	No	COR, 95%CI	p - value	AOR , 95%CI	p - value			
Educational status of mothers									
Collage and above	8(32%)	17(68%)	0.5(0.22-1.14)	0.054	0.33(0.13-0.84)	0.02**			
Primary and secondary	20(20.6%)	77(79.4%)	0.47(0.22-1.01)		0.77(0.38-1.58)	0.075			
Not attended formal education	34(58.6%)	24(41.4%)	1		1				
Read and write	24(27%)	65(73%)	0.5(0.3-1.5)	0.07	0.57(0.13-1.1)	0.65			
Attended religious services									
Yes	60(24.1%)	189(75.9%)	0.39(0.21-0.73)	0. 003*	0.55(0.25-1.22)	0.141			
No	26(96.3%)	1(3.7%)	1		1				
Who pays your school fee									
Family	72(29.6%)	171(70.4%)	0.38(0.15-0.96)	0.040*	0.55(0.18-1.65)	0.285			
Others	14(42.4%)	19(57.6%)	1		1				
		Chat chewing							
Yes	35(52.2%)	32(47.8%)	3.88(2.2-6.86)	<.0001*	1.44(0.69-3.0)	0.331			
No	51(24.4%)	158(75.6%)	1						
		Drinking alcoho	ol						
Yes	57(68.7%)	26(31.3%)	6.17(3.59-10.84)	<.0001*	4.06(2.06-7.99)	< 0.001			
No	29(15%)	164(85%)	1		1	**			
		Cigarette smoki	ng						
Yes	19(82.6%)	4(17.4%)	3.14(1.54-6.42)	0.002*	1.05(0.41-2.69)	0.918			
No	67(26.4%)	186(75.6%)	1						
Watching Pornography									
Yes	59(50.4%)	58(49.6%)	4.55(2.59-7.98)	< 0.0001	2.78(1.45-5.3)	0.002*			
No	27(17%)	132(83%)	1		1	*			
Peer pressure									
Yes	7(100%)	0(0%)	2.625(.222652)	< 0.0001	1.56(0.82-2.97)	1.564			
No	79(100%)	190(0%)	1	*	1				

Note: COR: Crude Odd Ratio; AOR: Adjusted Odd Ratio; *= significant at bivariate level; **= significant at multivariate level; ~= boarder line significant at bivariate level (p < 0.2) and p < 0.05 for multivariate.

school students are engaged in premarital sexual practice very early, with risky situation (different sexual partner, due to alcoholic consumption and non-use of condom). Attending to watch pornography, educational status of mother and dirking alcohol were independent predictors of premarital sexual practice among high school students. Therefore, health information supply on sexuality and reproductive health to disrupt the deep rooted believes and traditions should establish so as to bring behavioral change among students. As well students should be aware about high risk sexual behavior through behavioral materials and their family. Further interventional study design should need to be done.

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Declaration of conflict of interest

The authors declare there is no any conflict of interest.

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References

- UNDO/UNFP/WHO, Special Program of Research Development and Research Training in Human Reproductive Health (HRP): Progress in Reproductive Health Research, 2003; Ref.: https://tinyurl.com/yyygbhkf
- WHO/FCH/CAH. Strengthening the Provision of AdolescentFriendly Health Service to meet the health and development Needs of adolescent in Africa: A consensus Statement. 2000; Ref.: https://tinyurl.com/y4jfyz8g
- Salih NA, Metaferia H, Reda AA, Biadgilign S. Premarital sexual activity among unmarried adolescents in northern Ethiopia: a cross-sectional study. Sex Reprod Healthc. 2015; 6: 9–13.
 Ref.: https://tinyurl.com/y2sy7oyz
- Chandra-Mouli V, Camacho AV, Michaud PA. WHO guidelines on preventing early pregnancy and poor reproductive outcomes among adolescents in developing countries. J Adolesc Health. 2013; 52: 517-522.
 Ref.: https://tinyurl.com/y4l2e63v
- Moore AM, Biddlecom AE, Zulu EM. Prevalence and meaning of exchange of money or gifts for sex in unmarried adolescents Sexual relationship in Sub Saharan Africa. Afr J Reprod Health. 2007; 11: 44–61.
 Ref.: https://tinyurl.com/y6odydl3
- Population Reference Bureau. Meeting Young Women Reproductive and Sexual Needs. Advocates for youth. 2004.
- Ethiopian Demographic and Health Survey. Central Statistical, Addis Ababa, Ethiopia. ICF International Calverton, Maryland, USA; 2012. Ref.: https://tinyurl.com/yy8ml7f7
- 8. Berihun H. Assessment of the prevalence of premarital sex and unprotected sexual practices among secondary school adolescent



- students in Sebeta town, Oromia regional state, Ethiopia. Addis Ababa: Addis Ababa University; 2014.
- Mulugeta Y, Berhane Y. Factors associated with pre-marital sexual debut among unmarried high school female students in Bahir Dar town, Ethiopia: cross-sectional study. Reprod Health. 2014; 11: 40. Ref.: https://tinyurl.com/yyqb62ob
- Girma B, Assefa D, Tushunie K. Determinants of condom use among Agaro high school students using behavioral models; Ethiopian. J Health Dev. 2004; 18: 25-30.

Ref.: https://tinyurl.com/yxsplo2d

- Bogale A, Seme A. Premarital sexual practices and its predictors among in-school youths of shendi town, west Gojjam zone, North Western Ethiopia. Reprod Health. 2014; 11: 49.
 Ref.: https://tinyurl.com/y5ehhnod
- 12. Adhikari R, Adhikari RP, Maharjan RK. Masturbation practice among

- school adolescents in Makawanpur District, Nepal. Int J Res. 2015; 2: 323-330.
- Ref.: https://tinyurl.com/y6fsrrqg
- Girma A, Fasil T, Abiot G. Premarital Sexual Practice and Associated Factors among Preparatory School Students in Jimma Town, Oromia Region, South West Ethiopia, J Bio Agri Healthc. 2016; 6: 34-41.
 Ref.: https://tinyurl.com/y2sp6929
- 14. Habte N, Adu A, Gebeyehu T, Alemayehu S, Tesfageorgis Y. et al. Prevalence of premarital sexual practices and its associated factors among high school students in Addis Zemen Town, South Gondar, Ethiopia, 2017. J Public Health Epidemiol. 2018; 10: 356-362. Ref.: https://tinyurl.com/y2yfqpko
- 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: 154-162

Ref.: https://tinyurl.com/yxpw6pvq