Addis Ababa University School of Graduate Studies



Assessment of Pregnancy Risk perception and contraceptive use among female college students in Shashamane town

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List of abbreviations

AAU- Addis Ababa University

AIDS- Acquired Immuno Deficiency Syndrome

ETB-Ethiopian birr

FP- Family Planning

HIV- Human Immunodeficiency Virus

IUCD-Intera uterine contraceptive device

MOE-Ministry of education

MOH- Ministry of Health

PI-Principal investigator

RH- Reproductive Health

SD- Standard deviation

SPH- School of Public Health

STDs-Sexually Transmitted Diseases

STI- Sexually Transmitted Infection

WHO- World Health Organization

Abstract

BACKGROUND: The adolescent period is a time at which individuals explore and develop their sexuality, gender and sex role. These factors have a profound influence on a young person's current and future health. It is believed that age at menarche is declining, and that premarital adolescent sexual activity is increasing. Clearly, if this change in behavior is not compensated by an increase in premarital use of contraception, it is expected that there will be an increase in the proportion of out-of-wedlock adolescent births, as well as an increase in the prevalence of induced abortion which ends in high proportion of maternal mortality rate.

OBJECTIVE: The objective of this study is to assess pregnancy risk perception and contraceptive use among college student in Shashamane town.

METHODS: A cross-sectional descriptive survey was carried out among college students in Shashamane Woreda, Western Arsi Zone, from February 15th to may 2011. A total of six hundred seventeen subjects were involved with response rate of 100%. To collect data, a pre-tested self administered questionnaire was used.

RESULTS: Out of the total students 314(50.9%) were sexually active. The mean age for first sexual initiation was 17yrs with 1.4yrs of SD. The likelihood of becoming sexually active was lower among students from other Woreda than from Shashamane and two times higher among students who live with friends in rented house at significant level of association (AOR=0.5519;95%CI;0.3648,0.8349) and(AOR=2.44;95%CI;1.5581,3.8334) respectively. Out of the total respondent only 287(46.5%) knew the exact days of ovulation .Among the sexually active respondents, 164(52.2%) had ever used

contraceptive . The odds of contraceptive use among students who have low perception about the weight of being pregnant is extremely low

(AOR=0.31;95%CI;0.19, 0.5)

CONCLUSION: From this study, it was concluded that the age of the sexual debut among college youths were too early. Contraceptive utilization and self-risk perception toward unwanted pregnancy among youths were also very low. Youths also lack comprehensive knowledge about phase of ovulation. The likely hood of contraceptive use among students with low perception is low.

RECOMMENDATION: IEC programs should be put on reproductive health in order to encourage the youths to delay sex and negotiate contraceptive use. Young people rely heavily up on interpersonal contacts for sexual information, peer based intervention should be implemented to ascertain that youths have access to accurate information.

1.INTRODUCTION

1.1 Back ground

The adolescent period is a time at which individuals explore and develop their sexuality, gender and sex role. Unprotected premarital sexual relations are taking place at earlier ages giving rise not only to problems of unwanted pregnancy and child bearing, but also to induced abortion in hazardous circumstance.(1) High proportions of young people become sexually active during adolescence. (2)

Evidence from a number of school and college student studies indicates that the level of sexual activity among adolescent has been increasing. (3) A study conducted in USA found among college females the view that premarital coitus was immoral had declined from as high as of 70% in 1965 to 34% in 1970 and to 20% in 1975.(4, 5) The use of contraception is very in the society . This is of concern because early initiation of sexual intercourse places adolescents, particularly females, at elevated risk of being involved in an unintended pregnancy.(6)

Unwanted pregnancy is a serious public health problem, in the developing world; two million adolescents obtain abortion services each year, mostly under unsafe, illegal circumstance. (7,8)

1.2 Statement of problem

Despite the availability of highly effective methods of contraception; many pregnancies are unplanned and unwanted. These pregnancies carry a higher risk of morbidity and mortality, often due to unsafe abortion. (9)

The literature on African family formation suggests that age at marriage is rising in many African societies, especially among the better-educated and urban segments of the population and premarital adolescent sexual activity is increasing.(10)

Clearly, if this change in behavior is not compensated by an increase in premarital use of contraception, it is expected that there will be an increase in the proportion of out-of-wedlock adolescent births, as well as an increase in the prevalence of induced abortion.(10)

The literature suggests that teenage childbearing is most likely to be a problem among unmarried girls, especially when they are still in school.(11).

In many low income countries, the lack of knowledge about and access to EC may result in women resorting to unsafe abortions, which contribute significantly to maternal morbidity and mortality .(12)

1.3 Significance of the study

The maternal mortality ratio has remained high at 671/100000 live births and about 20 percent of these deaths are due to induced abortion(EDHS2005). One of the groups that are particularly vulnerable to unsafe abortions is the young people (15–24 years) .Contraceptive use is low among adolescents. Because of this they are exposed to risks such as unwanted pregnancies.(13) Unwanted pregnancy is a big problem in Ethiopia; more than 60% of the pregnancies in adolescents are unwanted which is alarming figure and most of these pregnancies particularly the ones in adolescents end up as unsafe abortion. (14) The study is believed to provide necessary information for program and policy makers on pregnancy risk perception and contraceptive use among adolescent in the development of strategies to improve the service in general and in study areas specifically.

1.4 Literature review

1.4.1sexual experience

According to study done among 210 students at East Carolina University, of mean age 21 years,84% reported having had sexual intercourse, with 34% of the entire sample reporting a frequency of 1-3 times per week, and 27% reporting a frequency of 1-2 times per month. Forty eight percent of respondents reported having sexual intercourse with multiple partners during the past year.(9)

Another study was carried out in Uganda at Makerere University among the first year female undergraduate students, both residents and non resident in January to March 2005.Out of 379 sampled15% had had intercourse by the age of 16,and other. most(60%) of them are sexually experienced.(10)

About 3, 000 adolescents enrolled in 46 coeducational primary secondary and vocational schools in Kenya were surveyed in 1989 to investigate factors associated with premarital sexual behavior. About 77% of the males report ever having had coital experience, compared with 67% of the females. Nearly half the sexually experienced males report multiple sex partners .(11) One study done in selected schools of Addis Ababa on 810 students of which (17.8%) sexually active. The mean age at sexual debut was 16±2.02 for both male and female. Males are sexually active than female with p< 0.001. More than half of sexually active (56.8%) have more than one partner. Around 33.8 % of youth have never used condom.(12)

According to study done in Nekemte one hundred forty(21.5%) adolescents reported having had premarital sexual intercourse at the time of survey, of which 102(70.3%) were males. The mean age at first intercourse was 16.2 years (16.2±1.5) for males and 15.2(15.2±1.7) for females. Among those adolescents who had premarital sexual intercourse the majority (57.2%) had their first sexual intercourse between 15 and 17 years.(13)

Another study was done in Harar town in 1997 among 900 youth females and males. The result shows nearly half of the participating males and one fifth females reported they have experienced sexual intercourse. About 15% of respondents experienced unwanted pregnancies and a little over half of them know the time of ovulation when pregnancy would occur.(14)

1.4.2. Perception of risk of pregnancy

A cross-sectional study was conducted in 1999 in Beijing, China. A total of 306 unmarried sexual active young women, aged 18 to 24 years were face to face interviewed. One of the most important reasons cited by 73 percent of women who had never used contraceptives was that they did not realize the risk of getting pregnant.(15)

In Transkei, South Africa, 25% of births are to teenagers, 75% of whom are unmarried. To investigate the factors associated with adolescent sexual activity and facilitate the design of preventive programs, a self-administered questionnaire was provided to 1025 females from 21 secondary schools. Knowledge of reproduction was low, with only 19% able to identify the fertile phase of the menstrual cycle. (16)

Cross-sectional survey using a self-administered anonymous questionnaire was conducted to assess knowledge, attitude and practice of contraception and sexuality. The questionnaire was filled out in April 2000 by 752 high school students in Butajira, Ethiopia. The mean age of the subjects was 17.1 years. One hundred thirteen never married students . Sexual abstinence was not dictated by perception of risk.(17)

1.4. 3.Contraceptive use

162 college students (52 males and 110 females) from an urban area in New Zealand's North Island region completed an anonymous questionnaire on sexual behavior and contraceptive use. 39% of these students had experienced sexual intercourse. 20% of the sexually active students had never used contraception, 37% reported occasional use, and 41% claimed to always use a method of fertility control.(18)

A cross sectional comparative survey was conducted to assess barriers to the use of contraceptive among adolescents and their contraceptives choices and preferences, in a randomly selected samples of in and out of school adolescents in Addis Ababa city administration from November to December 2003. The data was collected using anonymous self administered questionnaire and focus group discussion.

A total of 1591 (of which 796 out of school and 795 in school) adolescents participated in the quantitative and four sex segregated focus group participated in the qualitative part of the study. Only 28.6% of out of school and 49.3% of in school ever users consistently used contraceptive.(19)

Sexual experience, knowledge, attitude, and practice of contraception was studied among 991 senior high school students 15-17 years old in 3 secondary schools in north Gonder, Ethiopia, in May 1993 using an anonymous questionnaire. 51 (5.1%) of the respondents had used a modern contraceptive: 31 had used the condom and 20 had used the pill. 929 (93.7%) had never used any contraception.(20)

Cross-sectional survey using a self-administered anonymous questionnaire was conducted to assess knowledge, attitude and practice of contraception and sexuality. The questionnaire was filled out in April 2000 by 752 high school students in Butajira, Ethiopia. About 78% of boys and 91% of the females did not use modern contraceptives during their sexual intercourse. (17)

Different study showed that, college students had low knowledge about emergence contraceptive.

A cross-sectional survey was conducted on February 2007 in Asella town. There were a total of 2167 female students in 10 colleges in Asella town. From 833 respondents 228 (27.4%) have knowledge about emergency contraception; Correct timing of emergency contraception was reported only by 82(9.8%) and 200 (24%) of them had ever used emergency contraception. (21,22.23)

2. OBJECTIVES

2.1 General Objective

To assess pregnancy risk perception and contraceptive use among college student in Shashamane town.

2.2 Specific Objectives

- To assess sexual experience of college students in Shashamane town.
- To determine pregnancy risk perception among college students in Shashamane town.
- To assess contraceptive use among college students in Shashamane town.

3.METHODOLOGY

3.1 Study design

A quantitative cross –sectional study design in the form of institutional based survey was used.

3.2. Study area and period

The study was conducted from December to May 2011 in Shashamane town, in Western Arsi zone. The town is about 255 km away from Addis Ababa. The town has 10 Administrative 'Kebeles' and 102062 total population from the Central Statistical Agency (CSA) ,of Ethiopia published in 2007. Out of which 50.4% were males and 49.6% were females. The Town has one hospital, two health centers, one Family Guidance Association clinic, one health post and several private clinics. The total number of college is six (two governmental and four non governmental) namely Shashamane health college, Shashamane TVET college, Paradise valley college, Rift valley college, Pharma college and African beza college. The total number of students in these six colleges is about 12,000. Out of this female student accounts 5488.

3.3 Study population

3.3.1 Source Population:

All students in the colleges of Shashamane town.

3.3.2 Study Population:

Female students who were at age of 15 -24 at the time of data collection .

3.4 Sample size determination

Using single population proportion sampling formula

$$n = \frac{z_2^{\alpha^2}}{d^2} pq$$

Where

α=level of confidence

n=minimum sample size needed

d= level of precision (5%)

(2 stages)

P=prevalence of point under consideration that is taken from contraceptive use prevalence among college students, which is 24% (21)

$$q = (1-p)$$

z= standard normal distribution curve value for 95% CI which is 1.96 (where α = 0.05).

Based on these assumptions, the sample size required from the selected colleges was

$$\frac{(1.96)^2 \times 0.24 \times (1 - 0.24)}{(0.05)^2} x^2$$
 =561, and adding 10% of non response rate, the final sample

size was 617 female students.

3.5 Sampling procedures

Firstly, to avoid knowledge variation about reproductive health two colleges(one health college and other non health college) from government and two colleges (one health and the other non health) from private were selected by using purposive non probability sampling and the required number of sample was allocated proportionally among the four colleges. Secondly, through a simple random sampling, departments from each college were selected. Number of subjects that were selected from each department and the perspective year were allocated proportionally. Finally, by systematic random sampling technique study subjects were selected from each department.

3.5.1 Inclusion Criteria

- ✓ Female Students whose age was between 15-24.
- ✓ Regular students

3.5.2 Exclusion Criteria

✓ Non regular student

3.6 Data collection procedures

3.6.1 Data collectors and Study Instruments: Data collectors were trained and approached the selected respondents first by greeting and continued on explanations of the aim of the study. Self administered questionnaire was conducted after a verbal consent of respondents was obtained. The data collectors were supervised daily by the principal investigator and supervisors and problems faced during data collection were corrected on time.

The filled questionnaires completed were checked and for identified problems the solution was given immediately and all the finished questionnaires were signed by supervisors after checking for its completeness and consistence.

Self-administered questionnaires consisting socio demographic variables, items focusing on sexual experience, items focusing on perception of risk of pregnancy and focusing on contraceptive use were used.

3.6.2. Quality control measures: Data collectors and supervisors were adequately trained. Data collection processes was closely monitored by the supervisors and the Principal Investigator. The self-administered questionnaire was translated to Afan Oromo by the Investigator and then back to English by another person and the consistency between the two translations was evaluated. A guideline was prepared to provide interpersonal communication. Pre-test study was conducted among the students of TVET College to maximize the validity and reliability of the study instrument that was used in the study. Forty students were included in the pre-test.

3.7. Variables in the study:

3.7.1. Dependent Variables:

Sexual experience
Pregnancy risk perception
Contraceptive use

3.7.2 Independent Variables: The independent variables included in this study were

Socio-demographic variables like age, religion, marital status, information about contraceptive, sexual experience, knowledge of contraceptive.

3.8 Operational definitions

Youth/adolescent: students whose age are from 15-24

Contraceptive use: student who use any modern contraceptive method until their last sexual intercourse and with in appropriate time after or before intercourse.

Risk behavior-engaging in risk behavior like khat chewing, alcohol consumption etc.

Sexual behavior: any sexual experience and /or sexual intercourse.

Sexuality: physiologic and psychological process within an individual which promote behavior related to procreation and/or erotic exposure.

3.9 Data Analysis procedures

The raw data was entered into the computer using the data entry program EPINFO 2002 and it was analyzed by using SPSS version16. Descriptive statistics was used to determine the frequency of different variables .The data analysis techniques used was logistic regression model analysis to see the explanatory variables or predictors on the dependent variables

3.10 Data quality management

The data collected was cleaned for completeness and consistencies. Responses in each question were coded for simplicity of data entry. Then, 10% of the data was entered in to EPI INFO 2002 and checked for the appropriateness of data entry.

3.11 Ethical consideration

Ethical approval was obtained from the research and Ethical Committee (REC) of the school of public health, college of health science, Addis Ababa University. Informed verbal consent or permission was obtained from the Woreda Education and Health departments. The freedom of students to participate or not to participate in the study was explained.

The student's privacy during the data collection was maintained and the data obtained from them was kept confidential.

3.12 Dissemination of results

The final report of the study will be defended in college of health science, school of public health, Addis Ababa University. Result of the study will also be communicated to study area colleges, zonal, regional health offices, funding agency and other relevant organizations working around sexual reproductive health. Finally, the thesis will be sent to local and international for publication.

5. RESULTS

5.1 Socio-demographic characteristics of study population

A total of 617 college youth completed the questionnaire making the response rate of 100%. Analysis was made based on the total completed questionnaires. The mean and median age of the study population was both 20 yrs with standard deviation of \pm 2 yrs. Out of the total, 474(76.8%) were Oromo, 108(17.5%) Amhara, 25(4.1%) gurhage, 10 were others in ethnicity. Three hundred fifty seven (57.9%) were Muslim, 159(25.8%) orthodox, 58(9.4%) protestant and 15(2.4%) were followers of others religion. Almost all of the students, 604(97.9%) reside out of the college while only 13(2.1%) students use dormitory service as a residence. Out of the total respondents, 213(34.55) were technical and vocational students, 205 (33.2%) were health science students and the rest 159(15.8%) and 40(6.5%) were social and natural science respectively. One hundred fifty (24.3%) were first year, 302(48.9%) were second year, 163(16.3%) were third year while the rest 2 students were fourth year students. Considering the marital status, 504(81.7%) were single, 107 (17.3%) married, 3 students were separated and 3 were widowed. Among the married students 42(39.3%) had one child,28(26.2%) had two children where as 11students had three or more. Two hundred four (33.1%) were lived with their family and relatives, 180(29.2%) were lived with friends in rented house, 164(26.6%) lived with their boy friends and 63(10.3%) were lived with their husband. Considering the family's occupation, the family's of 368(59.6%) students were farmers, 116(18.8%) employee, 68 and 65 students were merchant and others (daily laborers, pastoralists etc) respectively (Table 1).

Table 1: Socio-demographic characteristics of college youth in shasahamaneTown, West Arsi Zone; may 2011

Variables	Frequency(n=617)	Percent
Age group(years)		
15-19	258	41.7
20-24	359	58.3
ETHINICIT	333	50.0
	108	17.5
Amara	474	76.8
Oromo	474 25	4.1
Guraghe Other	10	1.6
RELIGION	10	1.0
KELIOIOI		
Orthodox	159	25.8
Muslim	357	57.9
Catholic	28	4.5
Protestant	58	9.4
Other	15	2.4
MARRITAL STATUS		
Unmarried	504	81.7
Married	107	17.3
Other	6	1
NUMBER OF CHILD		
No child	536	86.9
1	42	6.8
2 .	28	4.5
≥3	11	1.8
RESIDENCE		
Shashamane woreda	13	2.1
Other woreda	604	97.9
WITH WHOM THEY		
LIVED		
Family and relatives	204	33.1
Friends	180	29.2
Boy friend	164	26.6
Husband	63	10.2
Other FAMILY'S OCCUPATION	6	1.0
	200	E0 C
Farmer Employee	368 116	59.6 18.8
Merchant	68	11.0
Other	65	10.5
DEPARTMENT		
Health science	205	33.2
Social science	159	15.8
Technical and vocational	213	34.5
Natural science	40	6.5

5.2 sexual history of the study population

Three hundred twenty two (52.2 %.) had boy friend while the remained 295(47.8.) study subjects had not. From total student who had boy friend, 224(75.8%) discuss about sexual matter with their boy friend. Out of the total students, three hundred fourteen (50.9%) were sexually active out of which single students account 32.6%. Out of sexually active students, 184(58.2%) mentioned being fallen in love as a reason for their first sexual initiation, 77(24.4%) to get sexual pleasure, 52(16.1%) for the purpose of marriage and 5 are forced to had sexual intercourse. From total students who had sexual intercourse, 263(83.3%) had one sexual partner, 39(12.6%) had two partner and 12(4.1%) had greater than two sexual partner through their life. The mean age for first sexual initiation was $17yrs \pm 1.4$ SD. The median age for first sex is 17 yrs.

Socio-demographic correlates of sexual behavior

Generally, being from other woreda and in age group 20-24 show significant difference in ever had sex with AOR= 0.55; and AOR=0.47respectively.

Students who were living with friends in rented house were twice sexually active than those who live with both parents and relatives to a significant level of association (COR=2.52; ;95% CI, 1.67-3.79, even after adjusting using other variables the association still persisted(AOR=2.4439;95% CI;1.5581,3.8334). Even though being Gurhage shows significant association ,after adjusting for other variables the association was refuted. However, there was no difference in sexual activeness by difference in religion and family's occupation, (Table 2).

Table 2: Relation between selected socio-demographic variables and sexual behavior of college youth, Shashamane wareda, West Arsi Zone; May 2011

Variable		Ever h		COR(95% CI)	AOR(95% CI)
		Yes	No		
Age (YRS)					
15-19		166	92	1	1
20-24		148	211	0.39 (0.28-0.54)	0.47 (0.32-0.56)
Ethnicity					
Amara		53	55	1.00	1.00
Oromo		236	238	1.03(0.68-1.56)	1.19 (0.67 -2.15)
Guraghe		19	6	3.29(1.22-8.86)	1.95(0.62-6.12)
Other		6	4	1.04 (0.06-17.02)	0.76 (0.03-20.42)
Religion					
Orthodox		73	86	1.00	1.00
Muslim		189	168	1.33 (0.91-1.93)	1.11 (0.67-1.83)
Catholic		17	11	1.82(0.80-4.13)	1.37 (0.54-3.49)
Protestant		28	30	1.09 0.60-2.00	0.99 (0.49-2.03)
Other		7	8	0.84(0.26-2.76)	0.60 (0.15-2.4)
Where you co	me				
from?					
Shashamane		127	85	1.00	1.00
Woreda				0.57/0.44.0.00\	0.55 (0.05 0.00)
Other Woreda		407	240	0.57(0.41-0.80)	0.55 (0.36-0.83)
With whom c		187	218		
Family	urren	74	130	1.00	1.00
Friends		106	74	2.52(1.67-3.79)	2.44 (1.56-3.83)
Boy friend		74	90	1.44 (0.95-2.19)	1.54 (0.97-2.46)
Husband		57	6	16.69 (6.87-40.57)	17.06 (6.77-42.99)
Other		3	3	1.76 (0.35-8.92)	1.79 (0.32-10.01)
Famil's occup	ation		3	1.70 (0.33 0.32)	1.75 (0.32 10.01)
Farmers	Julion	185	183	1.00	1.00
Employee		59	57	1.02 (0.67-1.55)	0.89 (0.55-1.43)
Merchant		35	33	1.05 (0.63-1.76)	1.13 (0.6-2.04)
Other		35	30	1.15 (0.68-1.96)	1.39 (0.76-2.57)

5.3 pregnancy risk perception

Participants' attitude towards perceiving themselves as susceptible to unwanted pregnancy was asked and the result indicated that, more than half of them, (54.3%) of the college youth were aware of being at risk if they engaged in unprotected sexual intercourse. From the total study population, 331(53.8%) reported that the risk of being pregnant after un protected sexual practice is high, 223 (36.1%) reported as low while the left 63 (10.1%) said medium. Out of the total respondent only 287(46.5%) knew the exact days of ovulation. (Table 3)

Table 3: pregnancy risk perception among college students in shashamane town, West Arsi zone may 2011

Variables	Frequency(n=617)	Percent	
Being at risk of			
pregnant Yes	335	54.3	
No Weight of being	282	45.7	
pregnant high	331	53.8	
medium	63	10.1	
Low Exact day of	223	36.1	
ovulation During	52	0.4	
menstruation Mid of month	52 287	8.4 46.5	
Few days after menstruation	76	12.3	
I don't know	202	32.7	

Pregnancy risk perception with selected variables

Being in age group 20-24 shows significant association with (COR=1.51;95%CI,1.09-2.09) when compared to age group 15-19 and the association persisted after adjusting for different variables with (AOR=1.43;95%CI=1.04,1.89). Similarly, living with friends

(COR=1.59,95%CI;1.07,2.39)and(AOR=1.59,95%CI;1.05,2.41), boy friend (COR=1.73;95%CI; 1.14-2.62 and AOR=1.73,95% CI;1.12, 6.67) have shown significant association with pregnancy risk perception. Ethnicity and religion were lost their significance after adjusting for confounding factors by multivariate analysis.(Table4)

Table 4: pregnancy risk perception among college students with other variable in shashamane town. West Arsi zone may 2011(n=617)

Perception of Being pregnant	shashamane town,West Arsi zone may 2011(n=617)					
Age(years) Yes No COR 95% CI AOR 95% CI 15-19 158 102 20-24 180 179 1.51 (1.09-2.09) 1.43(1.04-1.89) Ethnicity Amara 47 61 1.00 1.00 Oromo 270 204 1.72 (1.13-2.62) 1.48 (0.87-2.52) Guraghe 14 11 1.65 (0.69-3.97) 1.37 (0.54-3.48) Other 4 6 1.29 (0.08-21.29) 0.64 (0.03-12.00) Religion Orthodox 72 87 1.00 1.00 Muslim 200 157 1.54 (1.06-2.24) 1.27 (0.80-2.01) Catholic 19 9 2.55 (1.09-5.98) 2.40 (0.99-5.86) Protestant 35 23 1.84 (0.99-3.39) 1.51 (0.78-2.92) Other 9 6 2.42 (0.69-8.35) 1.98 (0.52-7.48) Where you come from? Shashamae 11 100 1.00 1.00		Perception	n of Being			
Age(years) 158 102 20-24 180 179 1.51 (1.09-2.09) 1.43(1.04-1.89) Ethnicity Amara 47 61 1.00 1.00 Oromo 270 204 1.72 (1.13-2.62) 1.48 (0.87-2.52) Guraghe 14 11 1.65 (0.69-3.97) 1.37 (0.54-3.48) Other 4 6 1.29 (0.08-21.29) 0.64 (0.03-12.00) Religion Orthodox 72 87 1.00 1.00 Muslim 200 157 1.54 (1.06-2.24) 1.27 (0.80-2.01) Catholic 19 9 2.55 (1.09-5.98) 2.40 (0.99-5.86) Protestant 35 23 1.84 (0.99-3.39) 1.51 (0.78-2.92) Other 9 6 2.42 (0.69-8.35) 1.98 (0.52-7.48) Where you come from? Shashamane 112 100 1.00 1.00 Whith whom are you currently living? Family 93 111 <td< td=""><td></td><td>pregnant</td><td></td><td></td><td></td></td<>		pregnant				
15-19		Yes	No	COR 95% CI	AOR 95% CI	
20-24 180 179 1.51 (1.09-2.09) 1.43 (1.04-1.89) Ethnicity Amara 47 61 1.00 1.00 Oromo 270 204 1.72 (1.13-2.62) 1.48 (0.87-2.52) Guraghe 14 11 1.65 (0.69-3.97) 1.37 (0.54-3.48) Other 4 6 1.29 (0.08-21.29) 0.64 (0.03-12.00) Religion Orthodox 72 87 1.00 1.00 Muslim 200 157 1.54 (1.06-2.24) 1.27 (0.80-2.01) Catholic 19 9 2.55 (1.09-5.98) 2.40 (0.99-5.86) Protestant 35 23 1.84 (0.99-3.39) 1.51 (0.78-2.92) Other 9 6 2.42 (0.69-8.35) 1.98 (0.52-7.48) Where you come from: Shashamane 112 100 1.00 1.00 wareda 1 1.09 (0.78-1.53) 0.93 (0.65-1.33) Whith whom are you currently living? 1 1.59 (1.06-2.39) 1.59 (1.05-2.41) <td>Age(years)</td> <td></td> <td></td> <td>1</td> <td>1</td>	Age(years)			1	1	
Ethnicity Amara 47 61 1.00 1.00 Oromo 270 204 1.72 (1.13-2.62) 1.48 (0.87-2.52) Guraghe 14 11 1.65 (0.69-3.97) 1.37 (0.54-3.48) Other 4 6 1.29 (0.08-21.29) 0.64 (0.03-12.00) Religion Orthodox 72 87 1.00 1.00 Muslim 200 157 1.54 (1.06-2.24) 1.27 (0.80-2.01) Catholic 19 9 2.55 (1.09-5.98) 2.40 (0.99-5.86) Protestant 35 23 1.84 (0.99-3.39) 1.51 (0.78-2.92) Other 9 6 2.42 (0.69-8.35) 1.98 (0.52-7.48) Where you come from? Shashamane 112 100 1.00 1.00 wareda Other 223 182 1.09 (0.78-1.53) 0.93 (0.65-1.33) Whith whom are you currently living? Family 9 1.59 (1.06-2.39) 1.59 (1.05-2.41) Boy friend 9	15-19	158	102			
Amara 47 61 1.00 1.00 Oromo 270 204 1.72 (1.13-2.62) 1.48 (0.87-2.52) Guraghe 14 11 1.65 (0.69-3.97) 1.37 (0.54-3.48) Other 4 6 1.29 (0.08-21.29) 0.64 (0.03-12.00) Religion Tothodox 72 87 1.00 1.00 Muslim 200 157 1.54 (1.06-2.24) 1.27 (0.80-2.01) Catholic 19 9 2.55 (1.09-5.98) 2.40 (0.99-5.86) Protestant 35 23 1.84 (0.99-3.39) 1.51 (0.78-2.92) Other 9 6 2.42 (0.69-8.35) 1.98 (0.52-7.48) Where you come from? Shashamane 112 100 1.00 1.00 Wareda User colspan="2">User colspan="2">U	20-24	180	179	1.51 (1.09-2.09)	1.43(1.04-1.89)	
Oromo 270 204 1.72 (1.13-2.62) 1.48 (0.87-2.52) Guraghe 14 11 1.65 (0.69-3.97) 1.37 (0.54-3.48) Other 4 6 1.29 (0.08-21.29) 0.64 (0.03-12.00) Religion Orthodox 72 87 1.00 1.00 Muslim 200 157 1.54 (1.06-2.24) 1.27 (0.80-2.01) Catholic 19 9 2.55 (1.09-5.98) 2.40 (0.99-5.86) Protestant 35 23 1.84 (0.99-3.39) 1.51 (0.78-2.92) Other 9 6 2.42 (0.69-8.35) 1.98 (0.52-7.48) Where you come from? Shashamane 112 100 1.00 1.00 Wareda Other 223 182 1.09 (0.78-1.53) 0.93 (0.65-1.33) Whith whom are you currently living? Family 93 111 1.00 1.00 Friends 103 77 1.59 (1.06-2.39) 1.59 (1.05-2.41)	Ethnicity					
Guraghe 14 11 1.65 (0.69-3.97) 1.37 (0.54-3.48) Other 4 6 1.29 (0.08-21.29) 0.64 (0.03-12.00) Religion Orthodox 72 87 1.00 1.00 Muslim 200 157 1.54 (1.06-2.24) 1.27 (0.80-2.01) Catholic 19 9 2.55 (1.09-5.98) 2.40 (0.99-5.86) Protestant 35 23 1.84 (0.99-3.39) 1.51 (0.78-2.92) Other 9 6 2.42 (0.69-8.35) 1.98 (0.52-7.48) Where you come from? Shashamane 112 100 1.00 1.00 wareda Other 223 182 1.09 (0.78-1.53) 0.93 (0.65-1.33) Whith whom are you currently living? Family Family 93 111 1.00 1.00 Friends 103 77 1.59 (1.06-2.39) 1.59 (1.05-2.41) Boy friend 97 67 1.73(1.14-2.62) 1.73 (1.12-2.68) Husband 77 26 1.69 (0.96-3.01) 1.65 (0.92-2.98)	Amara	47	61	1.00	1.00	
Other 4 6 1.29 (0.08-21.29) 0.64 (0.03-12.00) Religion Corthodox 72 87 1.00 1.00 Muslim 200 157 1.54 (1.06-2.24) 1.27 (0.80-2.01) Catholic 19 9 2.55 (1.09-5.98) 2.40 (0.99-5.86) Protestant 35 23 1.84 (0.99-3.39) 1.51 (0.78-2.92) Other 9 6 2.42 (0.69-8.35) 1.98 (0.52-7.48) Where you come from? Shashamane 112 100 1.00 1.00 wareda Whith whom are you currently living? Family 93 111 1.00 1.00 Friends 103 77 1.59 (1.06-2.39) 1.59 (1.05-2.41) Boy friend 97 67 1.73 (1.14-2.62) 1.73 (1.12-2.68) Husband 77 26 1.69 (0.96-3.01) 1.65 (0.92-2.98) Other 5 1 5.97 (0.69-51.98) 5.45 (0.62-48.31) Famil	Oromo	270	204	1.72 (1.13-2.62)	1.48 (0.87-2.52)	
Religion 72 87 1.00 1.00 Muslim 200 157 1.54 (1.06-2.24) 1.27 (0.80-2.01) Catholic 19 9 2.55 (1.09-5.98) 2.40 (0.99-5.86) Protestant 35 23 1.84 (0.99-3.39) 1.51 (0.78-2.92) Other 9 6 2.42 (0.69-8.35) 1.98 (0.52-7.48) Where you come from? Shashamane 112 100 1.00 1.00 Wareda Other 223 182 1.09 (0.78-1.53) 0.93 (0.65-1.33) Whith whom are you currently living? Family 93 111 1.00 1.00 Friends 103 77 1.59 (1.06-2.39) 1.59 (1.05-2.41) Boy friend 97 67 1.73(1.14-2.62) 1.73 (1.12-2.68) Husband 77 26 1.69 (0.96-3.01) 1.65 (0.92-2.98) Other 5 1 5.97 (0.69-51.98) 5.45 (0.62-48.31) Familie	Guraghe	14	11	1.65 (0.69-3.97)	1.37 (0.54-3.48)	
Orthodox 72 87 1.00 1.00 Muslim 200 157 1.54 (1.06-2.24) 1.27 (0.80-2.01) Catholic 19 9 2.55 (1.09-5.98) 2.40 (0.99-5.86) Protestant 35 23 1.84 (0.99-3.39) 1.51 (0.78-2.92) Other 9 6 2.42 (0.69-8.35) 1.98 (0.52-7.48) Where you come from? Shashamane 112 100 1.00 1.00 wareda Other 223 182 1.09 (0.78-1.53) 0.93 (0.65-1.33) wareda Whith whom are you currently living? Family 93 111 1.00 1.00 Friends 103 77 1.59 (1.06-2.39) 1.59 (1.05-2.41) Boy friend 97 67 1.73(1.14-2.62) 1.73 (1.12-2.68) Husband 77 26 1.69 (0.96-3.01) 1.65 (0.92-2.98) Other 5 1 5.97 (0.69-51.98) 5.45 (0.62-48.31) Families occupation Employe 60 5	Other	4	6	1.29 (0.08-21.29)	0.64 (0.03-12.00)	
Muslim 200 157 1.54 (1.06-2.24) 1.27 (0.80-2.01) Catholic 19 9 2.55 (1.09-5.98) 2.40 (0.99-5.86) Protestant 35 23 1.84 (0.99-3.39) 1.51 (0.78-2.92) Other 9 6 2.42 (0.69-8.35) 1.98 (0.52-7.48) Where you come from? Shashamane 112 100 1.00 1.00 wareda 0.93 (0.65-1.33) 0.93 (0.65-1.33) 0.93 (0.65-1.33) wareda Whith whom are you currently living? 0.93 (0.65-1.33) 0.93 (0.65-1.33) Family 93 111 1.00 1.00 Friends 103 77 1.59 (1.06-2.39) 1.59 (1.05-2.41) Boy friend 97 67 1.73 (1.14-2.62) 1.73 (1.12-2.68) Husband 77 26 1.69 (0.96-3.01) 1.65 (0.92-2.98) Other 5 1 5.97 (0.69-51.98) 5.45 (0.62-48.31) Families occupation Families occupation 2 1.37 (0.81-2.33) 0.97 (0	Religion					
Catholic 19 9 2.55 (1.09-5.98) 2.40 (0.99-5.86) Protestant 35 23 1.84 (0.99-3.39) 1.51 (0.78-2.92) Other 9 6 2.42 (0.69-8.35) 1.98 (0.52-7.48) Where you come from? Shashamane 112 100 1.00 1.00 wareda Whith whom are you currently living? Family 93 111 1.00 1.00 Friends 103 77 1.59 (1.06-2.39) 1.59 (1.05-2.41) Boy friend 97 67 1.73 (1.14-2.62) 1.73 (1.12-2.68) Husband 77 26 1.69 (0.96-3.01) 1.65 (0.92-2.98) Other 5 1 5.97 (0.69-51.98) 5.45 (0.62-48.31) Families occupation Familes occupation 1.00 1.00 Employe 60 56 0.91 (0.59-1.38) 0.97 (0.62-1.50) Merchant 42 26 1.37 (0.81-2.33) 1.26 (0.73-2.17)	Orthodox	72	87	1.00	1.00	
Protestant 35 23 1.84 (0.99-3.39) 1.51 (0.78-2.92) Other 9 6 2.42 (0.69-8.35) 1.98 (0.52-7.48) Where you come from? Shashamane 112 100 1.00 1.00 wareda 0.93 (0.65-1.33) 0.93 (0.65-1.33) 0.93 (0.65-1.33) Whith whom are you currently living? Family 93 111 1.00 1.00 Friends 103 77 1.59 (1.06-2.39) 1.59 (1.05-2.41) Boy friend 97 67 1.73 (1.14-2.62) 1.73 (1.12-2.68) Husband 77 26 1.69 (0.96-3.01) 1.65 (0.92-2.98) Other 5 1 5.97 (0.69-51.98) 5.45 (0.62-48.31) Families occupation Familes occupation 1.00 1.00 Employe 60 56 0.91 (0.59-1.38) 0.97 (0.62-1.50) Merchant 42 26 1.37 (0.81-2.33) 1.26 (0.73-2.17)	Muslim	200	157	1.54 (1.06-2.24)	1.27 (0.80-2.01)	
Other 9 6 2.42 (0.69-8.35) 1.98 (0.52-7.48) Where you come from? Shashamane 112 100 1.00 1.00 wareda 0.93 (0.65-1.33) 0.93 (0.65-1.33) 0.93 (0.65-1.33) Whith whom are you currently living? Family 93 111 1.00 1.00 Friends 103 77 1.59 (1.06-2.39) 1.59 (1.05-2.41) Boy friend 97 67 1.73(1.14-2.62) 1.73 (1.12-2.68) Husband 77 26 1.69 (0.96-3.01) 1.65 (0.92-2.98) Other 5 1 5.97 (0.69-51.98) 5.45 (0.62-48.31) Families occupation Farmers 199 169 1.00 1.00 Employe 60 56 0.91 (0.59-1.38) 0.97 (0.62-1.50) Merchant 42 26 1.37 (0.81-2.33) 1.26 (0.73-2.17)	Catholic	19	9	2.55 (1.09-5.98)	2.40 (0.99-5.86)	
Where you come from? Shashamane wareda 112 100 1.00 1.00 Other wareda 223 182 1.09 (0.78-1.53) 0.93 (0.65-1.33) Whith whom are you currently living? Family 93 111 1.00 1.00 Friends 103 77 1.59 (1.06-2.39) 1.59 (1.05-2.41) Boy friend 97 67 1.73 (1.14-2.62) 1.73 (1.12-2.68) Husband 77 26 1.69 (0.96-3.01) 1.65 (0.92-2.98) Other 5 1 5.97 (0.69-51.98) 5.45 (0.62-48.31) Families occupation Famploye 60 56 0.91 (0.59-1.38) 0.97 (0.62-1.50) Merchant 42 26 1.37 (0.81-2.33) 1.26 (0.73-2.17)	Protestant	35	23	1.84 (0.99-3.39)	1.51 (0.78-2.92)	
Shashamane 112 100 1.00 1.00 Wareda 223 182 1.09 (0.78-1.53) 0.93 (0.65-1.33) Wareda Whith whom are you currently living? Family 93 111 1.00 1.00 Friends 103 77 1.59 (1.06-2.39) 1.59 (1.05-2.41) Boy friend 97 67 1.73 (1.14-2.62) 1.73 (1.12-2.68) Husband 77 26 1.69 (0.96-3.01) 1.65 (0.92-2.98) Other 5 1 5.97 (0.69-51.98) 5.45 (0.62-48.31) Families occupation Famploye 60 56 0.91 (0.59-1.38) 0.97 (0.62-1.50) Merchant 42 26 1.37 (0.81-2.33) 1.26 (0.73-2.17)	Other	9	6	2.42 (0.69-8.35)	1.98 (0.52-7.48)	
wareda Other wareda 223 182 1.09 (0.78-1.53) 0.93 (0.65-1.33) Whith whom are you currently living? Family 93 111 1.00 1.00 Friends 103 77 1.59 (1.06-2.39) 1.59 (1.05-2.41) Boy friend 97 67 1.73 (1.14-2.62) 1.73 (1.12-2.68) Husband 77 26 1.69 (0.96-3.01) 1.65 (0.92-2.98) Other 5 1 5.97 (0.69-51.98) 5.45 (0.62-48.31) Families occupation Farmers 199 169 1.00 1.00 Employe 60 56 0.91 (0.59-1.38) 0.97 (0.62-1.50) Merchant 42 26 1.37 (0.81-2.33) 1.26 (0.73-2.17)	Where you com	ne from?				
Other wareda 223 182 1.09 (0.78-1.53) 0.93 (0.65-1.33) Whith whom are you currently living? Family 93 111 1.00 1.00 Friends 103 77 1.59 (1.06-2.39) 1.59 (1.05-2.41) Boy friend 97 67 1.73 (1.14-2.62) 1.73 (1.12-2.68) Husband 77 26 1.69 (0.96-3.01) 1.65 (0.92-2.98) Other 5 1 5.97 (0.69-51.98) 5.45 (0.62-48.31) Families occupation Farmers 199 169 1.00 1.00 Employe 60 56 0.91 (0.59-1.38) 0.97 (0.62-1.50) Merchant 42 26 1.37 (0.81-2.33) 1.26 (0.73-2.17)	Shashamane	112	100	1.00	1.00	
wareda Whith whom are you currently living? Family 93 111 1.00 1.00 Friends 103 77 1.59 (1.06-2.39) 1.59 (1.05-2.41) Boy friend 97 67 1.73 (1.14-2.62) 1.73 (1.12-2.68) Husband 77 26 1.69 (0.96-3.01) 1.65 (0.92-2.98) Other 5 1 5.97 (0.69-51.98) 5.45 (0.62-48.31) Families occupation Farmers 199 169 1.00 1.00 Employe 60 56 0.91 (0.59-1.38) 0.97 (0.62-1.50) Merchant 42 26 1.37 (0.81-2.33) 1.26 (0.73-2.17)	wareda					
Whith whom are you currently living? Family 93 111 1.00 1.00 Friends 103 77 1.59 (1.06-2.39) 1.59 (1.05-2.41) Boy friend 97 67 1.73 (1.14-2.62) 1.73 (1.12-2.68) Husband 77 26 1.69 (0.96-3.01) 1.65 (0.92-2.98) Other 5 1 5.97 (0.69-51.98) 5.45 (0.62-48.31) Families occupation Farmers 199 169 1.00 1.00 Employe 60 56 0.91 (0.59-1.38) 0.97 (0.62-1.50) Merchant 42 26 1.37 (0.81-2.33) 1.26 (0.73-2.17)	Other	223	182	1.09 (0.78-1.53)	0.93 (0.65-1.33)	
Family 93 111 1.00 1.00 Friends 103 77 1.59 (1.06-2.39) 1.59 (1.05-2.41) Boy friend 97 67 1.73 (1.14-2.62) 1.73 (1.12-2.68) Husband 77 26 1.69 (0.96-3.01) 1.65 (0.92-2.98) Other 5 1 5.97 (0.69-51.98) 5.45 (0.62-48.31) Families occupation Farmers 199 169 1.00 1.00 Employe 60 56 0.91 (0.59-1.38) 0.97 (0.62-1.50) Merchant 42 26 1.37 (0.81-2.33) 1.26 (0.73-2.17)	wareda					
Friends 103 77 1.59 (1.06-2.39) 1.59 (1.05-2.41) Boy friend 97 67 1.73(1.14-2.62) 1.73 (1.12-2.68) Husband 77 26 1.69 (0.96-3.01) 1.65 (0.92-2.98) Other 5 1 5.97 (0.69-51.98) 5.45 (0.62-48.31) Families occupation Farmers 199 169 1.00 1.00 Employe 60 56 0.91 (0.59-1.38) 0.97 (0.62-1.50) Merchant 42 26 1.37 (0.81-2.33) 1.26 (0.73-2.17)	Whith whom an	re you curre	ntly living?			
Boy friend 97 67 1.73(1.14-2.62) 1.73 (1.12-2.68) Husband 77 26 1.69 (0.96-3.01) 1.65 (0.92-2.98) Other 5 1 5.97 (0.69-51.98) 5.45 (0.62-48.31) Families occupation Farmers 199 169 1.00 1.00 Employe 60 56 0.91 (0.59-1.38) 0.97 (0.62-1.50) Merchant 42 26 1.37 (0.81-2.33) 1.26 (0.73-2.17)	Family	93	111	1.00	1.00	
Husband 77 26 1.69 (0.96-3.01) 1.65 (0.92-2.98) Other 5 1 5.97 (0.69-51.98) 5.45 (0.62-48.31) Families occupation Farmers 199 169 1.00 1.00 Employe 60 56 0.91 (0.59-1.38) 0.97 (0.62-1.50) Merchant 42 26 1.37 (0.81-2.33) 1.26 (0.73-2.17)	Friends	103	77	1.59 (1.06-2.39)	1.59 (1.05-2.41)	
Other 5 1 5.97 (0.69-51.98) 5.45 (0.62-48.31) Families occupation Farmers 199 169 1.00 1.00 Employe 60 56 0.91 (0.59-1.38) 0.97 (0.62-1.50) Merchant 42 26 1.37 (0.81-2.33) 1.26 (0.73-2.17)	Boy friend	97	67	1.73(1.14-2.62)	1.73 (1.12-2.68)	
Families occupation Farmers 199 169 1.00 1.00 Employe 60 56 0.91 (0.59-1.38) 0.97 (0.62-1.50) Merchant 42 26 1.37 (0.81-2.33) 1.26 (0.73-2.17)	Husband	77	26	1.69 (0.96-3.01)	1.65 (0.92-2.98)	
Farmers 199 169 1.00 1.00 Employe 60 56 0.91 (0.59-1.38) 0.97 (0.62-1.50) Merchant 42 26 1.37 (0.81-2.33) 1.26 (0.73-2.17)	Other	5	1	5.97 (0.69-51.98)	5.45 (0.62-48.31)	
Employe 60 56 0.91 (0.59-1.38) 0.97 (0.62-1.50) Merchant 42 26 1.37 (0.81-2.33) 1.26 (0.73-2.17)	Families occupation					
Merchant 42 26 1.37 (0.81-2.33) 1.26 (0.73-2.17)	Farmers	199	169	1.00	1.00	
	Employe	60	56	0.91 (0.59-1.38)	0.97 (0.62-1.50)	
Other 34 31 0.93 (0.55-1.58) 0.82 (0.47-1.42)	Merchant	42	26	1.37 (0.81-2.33)	1.26 (0.73-2.17)	
	Other	34	31	0.93 (0.55-1.58)	0.82 (0.47-1.42)	

5.4 contraceptive utilization

Three hundred fifty nine (58.2%) participants knew contraceptive method. Thirty seven percent of respondents knew oral pills, injectable and condom as contraceptive while it is followed by norplant contraceptive 47(13.1%). The least known contraceptive is IUCD. Out of total study population who knew contraceptive, 0nly 42(11.7%) consider condom as contraceptive that used to prevent unwanted pregnancy in addition to HIV/AIDS and other STI prevention. Respondents were able to cite diverse source of information about contraceptive including from health professionals 237(63.2%), from teachers /Schools 173(48.1%), from their friends 118(32.9%), from family 99(27.9%) and from religious leader 43(13.4%).

Among the sexually active respondents, 164(52.2%) had ever used contraceptive. Out of this only 19.2% were single contraceptive users. Only 51(30.7%) of the sexually active respondents claimed that they had consistent contraceptive use. Out of sexual active respondents, 118(37.6%) had ever used condom and only 26(21.8%) claimed that they had consistence use.

One hundred fifty seven, (25.4%) reported as they were currently using contraceptive. Three hundred seventy nine,(61.43%) have the plan to use contraceptive in the future. More than half,55% of contraceptive users obtain their contraceptive from the health institution,33% from pharmacy,6% from shop,3% from youth center ,2% from their partner and 1% from other place.

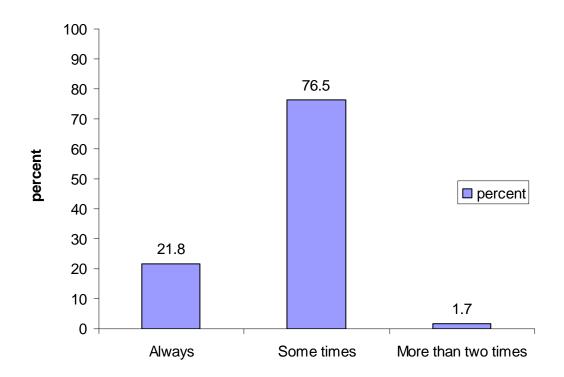


Figure 1: Frequence of condom utilization among college students in shashamane town, West Arsi zone may 2011(n=118)

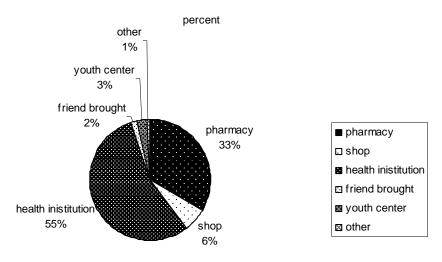


Figure 2: Place where contraceptive is obtained by college students in shashamane town, West Arsi zone may 2011(n=164)

Out of the total study population, only one hundred fifty six (25.3%) knew emergency contraceptive. From total respondents, 111(18%) said emergence contraceptive should be taken within 72hrs, 19(3.1%) said it should be with in 120 hrs while the left 487(78.8%) did not know the exact day at which emergency contraceptive should be taken.

The odds of contraceptive use among college students was around 4 times higher in students who live with their husband than those who live with their family, and after Controlling for other socio-demographic and knowledge characteristics of study participant, the odds of contraceptive use still statistically significant at level (AOR=3.20; 95% CI; 1.69, 6.43). Similarly, the likely hood of utilizing contraceptive was higher to statistically significant level among youth whose family's occupation is other (merchant, daily laborers, pastoralists, etc) than students from farmer family. Moreover, after adjusting for the other variables, the association still persisted (AOR= 1.86; 95% CI; 1.03, 4.34).

An importantly, the odds of contraceptive use among students who had low perception about the weight of being pregnant is extremely low when compared to the students with high perception about the weight of being pregnant after sexual intercourse. The association still persisted decreasing after adjusting for socio-demographic variables and other important variables with level (AOR=0.31; 95%CI; 0.19, 0.50) (table 5).

Table 5: contraceptive use with selected variables in shashamane town, West Arsi zone may 2011(n=617)

contraceptive use **COR 95% CI AOR 95% CI** Variables Yes No Age 15-19 58 200 20-24 259 0.75 (0.51-1.08) 1.35(0.89-2.04) 100 **Ethnicity** Ahmara 27 26 1.00 1.00 Oromo 107 129 1.15 (0.70-1.88) 1.38(0.74-2.58) Guraghe 1.56 (0.60-4.05) 1.72 (0.59-4.93) 5 14 Other 2 4 3.32(0.20,55.02) 1.69 (0.08-33.62) Religion Orthodox 40 33 1.00 1.00 Muslim 77 112 0.87(0.57-1.34) 0.73 (0.43-1.24) **1.11 (**0.46-2.72) 0.82 (0.31-2.15) Catholic 5 12 Protestant 13 15 0.97 (0.49-1.93) 0.73 (0.34-2.15) Other 2.79 (0.85-9.11) 2.25(0.61-8.21) 5 1 Where you come from Shashamane 80 1.00 1.00 47 woreda 1.29(0.84-1.98) Other wareda 94 93 1.26 (0.85, 1.96) With whom currently living 37 Family 36 Friends 1.45 (0.89-2.34) 37 69 1.22(0.74-2.20) Boy friend 33 42 1.28 (0.78-2.11) 0.99(0.58-1.82) Husband 3.73 (2.04-6.81) 3.21(1.69-6.43) 34 23 Other 1 2 0.82 (0.09-7.20) 0.71(0.07-5.77) **Families occupation** Farmers 74 111 1.00 1.40(0.85-2.33) **Employee** 29 30 1.45 (0.80-2.61) Other 38 32 2.54 (1.20,5.35) 1.86(1.03-3.34) Weight of being pregnant High 103 228

1.22(0.69-2.15)

0.37 (0.24,0.58)

1.33(0.73-2.40)

0.31(0.19-0.51)

40

191

23

32

Medium

Low

6. DISCUSSION

This study has attempted to assess the sexual behavior of youth, their pregnancy risk perception and possible protective measures i.e. utilization of contraceptive and other related matters of college students. The basic demographic characteristic of the study population are not different from other similar college population.

This study revealed that college adolescent/youth commence sexual practice at early age.

Comprising the married, almost half of the students had sexually experienced. In this study, the mean age at first sexual intercourse was $17 \text{yrs} \pm 1.4 \text{ SD}$. Even though many students had one sexual partner some of the students had more than one sexual partner. This may invite them for series health impact including HIV/AIDS and STD. Even though this result is lower than the results of the studies conducted in East Carolina University and in Uganda at Makerere University in which 84%(9) and 60%(10) were reported having had sexual intercourse respectively, our result depicts premarital sexual intercourse, which was taboo in our country, has been increasing from time to time. If this revolution in behavior is not compensated by an increase in premarital use of contraception, it is expected that there will be an increase in the prevalence of induced abortion which intern can increase maternal mortality.

Our result match with the result of the study conducted in our neighbor Kenya in 1989 which reveals that about 17-67% of the females report ever having had coital experience.(11) Different study conducted in different part of Ethiopia reveal different results. Accordingly, the study done in selected schools of Addis Ababa depicted that (17.8%) of students were sexually active with the mean age at sexual debut 16+2.02 (12)

According to study done in Nekemte and Harar ,one hundred forty(21.5%) (13) and one fifth females adolescents reported having had premarital sexual intercourse with mean age at first intercourse(16.2±1.5) respectively. (14) When we compare these results with ours, our result is much higher than these. This indicates that the trend of adolescent premarital intercourse has been increasing from time to time. Different factors may insist college adolescent/youth to engage in a premarital sexual practice due to an inherent risk in being youth and the need to experiment different things by this group.

The development of sexual explicit materials through technological advancement may exacerbate the problem. Most young People are keenly sensitive to peer's opinion especially among older youths; perception peers think often had a greater influence on sexual and other risk taking behavior than the opinion of parents and older adults. Accordingly, our result shows students who lived with their friends are twice sexual active than students who lived with their families. The problem is worsening that different police makers and stake holders at each levels should give due attention to tackle the problem by appropriate means.

Considering the pregnancy risk perception of the students, more than half of the students were unable to identify the fertile phase of the menstrual cycle and only half of the students reported that, the weight of being pregnant after un protected sexual practice is high.

In different studies conducted in different corners of the world to investigate the underlying factor for low Utilization of contraceptive, it was found that low pregnancy risk perception as preliminary factor.

Accordingly, cross-sectional study conducted in China showed that, One of the most important reasons cited by 73 percent of women who had never used contraceptives was that they did not realize the risk of getting pregnant.(15). Another study conducted in Transkei, South Africa, to investigate the factors associated with adolescent sexual activity and to facilitate the design of preventive programs, depicted that Knowledge of reproduction was low, with only 19% able to identify the fertile phase of the menstrual cycle. (16) Even if the result of our study shows some advance in perception toward the fertile phase of the menstrual cycle, still more than half of the participant couldn't identify fertile phase of the menstrual cycle. Necessary information should be given to this age group through public media or any means in order to prevent the problems that Youth encounter due to unwanted pregnancy.

A cross-sectional survey was conducted to assess knowledge, attitude and practice of contraception and sexuality in April 2000 in Butajira, Ethiopia revealed that Sexual abstinence was not dictated by perception of risk.(17).

In general perception of students toward risk of pregnancy is low that they do not need to have protective measures to avoid unwanted pregnancy. Our result also justify this reality in that student with low perception did not need to have contraceptive. To over come these problems awareness creation by different method should be done by all organization who work around this area.

Regarding contraceptive use, even though almost half of the students had ever used contraceptive still consistent use is extremely low. The study done in New Zealand's to assess sexual behavior and contraceptive use indicated that 39% of students had experienced sexual intercourse and only 20% of the sexually active students had never used contraception, 37% reported occasional use, and 41% claimed to always use a method of fertility control.(18)

When we compare this study with our study, the result of our study is extremely lower than this result in terms of contraceptive use. This shows that despite high rate of sexual activity, the culture of contraceptive use is low in our country. This law utilization of contraceptive ends in induced abortion which has high contribution for maternal death. To tackle this problem awareness creation on contraceptive acceptance and utilization should be conducted cooperatively by governmental and non governmental organizations which work around this area.

In our country, the study conducted in Addis Ababa to assess barriers to the use of contraceptive among adolescent and their contraceptives choices and preferences indicates only 28.6% of out of school and 49.3% of in school ever users consistently used contraceptive.(19)

Similarly the study conducted in north Gonder indicated that, 51 (5.1%) of the respondents had used a modern contraceptive: 31 had used the condom and 20 had used the pill. 929 (93.7%) had never used any contraception.(20), another study conducted in Butajira indicated 91% of the females did not use modern contraceptives during and after their sexual intercourse. A cross-sectional survey conducted in Asella town depicted that 200 (24%) of them had ever used emergency contraception. (21)

These all result including our result show low acceptance and utilization of contraceptive by adolescent. One of the underlying factors cited by different research is low risk perception which indicates significant association in our research, even after adjusting for different confounders the significance was extremely increased.

The reported low utilization rate of condom and other contraceptive in this study is an indication of the fact that the risk behaviors are widely practiced among college youths. This calls for well organized information, education and communication to bring behavioral change. Awareness or knowledge on occurrence of pregnancy and other STDs in their broader context should be translated into safe behavior so as to control the problem among the college youths.

7. STRENGTH AND LIMITATIONS

This study has tried to assess factors that characterize college youths' sexual behavior, their knowledge and risk perception to ward unwanted pregnancy and contraceptive utilization.

STRENGTH

- The reliability of data was maintained by use of standardized questionnaire and
- Pre-testing the questionnaire has given high reliability to the data.

LIMITATIONS

- Since the study touches very sensitive and personal issues, the possibility of under estimation cannot be ruled out. But by maintaining its confidentiality and privacy we have tried to eliminate this under-estimation.
- Out of college youths were not included, but this is due to the aim was on college Students.
- Finally, this study was based on cross-sectional data, which implies that the direction of Casual relationships cannot always be determined.

8. CONCLUSIONS

- The age of first sexual debut was found to be very young.
- •Students who came from Shashamane and who live out of their family were more sexually active.
- Knowledge of students on reproduction, specially the fertile phase of menstrual cycle is low.
- Low pregnancy risk perception results in low utilization of contraceptive.
- There was a low Utilization of contraceptive among college youths.
- •The practice of condom use is very low in the area and even many students do not consider condom as contraceptive to prevent unwanted pregnancy except to prevent HIV/AIDS.

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9. RECOMMENDATIONS

- It is crucial to contact youth people before they engage in premarital sexual intercourse.
- IEC programs should be put on comprehensive knowledge of reproductive health to motivate the youths to delay sex and negotiate contraceptive use.
- Building(if not present) and Upgrading the capability of college reproductive health club, and improving peer education that is the main source of information about reproductive health would help to disseminate accurate information and minimize misperception specially for students who are out of their family.
- •Creating awareness about the importance of condom in addition to HIV/AIDS prevention
- Conducting further study on factors affecting acceptance and consistence use of contraceptive among college students is advisable.

ANNEX II. REFERENCES

- 1. Puri M. sexual risk behavior and risk perception of unwanted pregnancies and sexually transmitted diseases among young factory workers in Nepal. .*November*, 2001:134-145
- 2. Susheela S. Evaluating the need for sex education in developing countries: sexual behavior, knowledge of preventing sexually transmitted infections/HIV. November, 2005; 5(4): 307-31.
- 3 . MZaJ K. Sexual and Contraceptive Experience of Young Unmarried Women in the United States .Apr, 1977;9 (2): 55-68.
- 4. <u>John A</u>. Contraception awareness and practice amongst Nigerian tertiary school girls. 2002:212-265
- 5. Lydia O,Donnell C. Early Sexual Initiation and Subsequent Sex-Related Risks among Urban Minority Youth. Dec,2001; 33(6):268-275
- 6. Thornton A. Adolescent Religiosity and Contraceptive Usage. journal of Marriage and Family Feb, 1987; 49(1): 117-28.
- 7. Adriana O, Guadalupe G, Fernando G, Patricia C, Francisco P. Abortion and adolescent pregnancy among first-year medical students at a major public university in Mexico Cit.january, 2002:341-65
- 8. Uche A, Joan K, Daniel S. Sexual Activity and Contraceptive Knowledge and Use Among In-School Adolescents in Nigeria .Mar, 1997; 23(1): 28-33.
- 9.Poulso R, Eppler M, Satterwhite T, Wuensch K, Bass L. Alcohol consumption, strength of religious beliefs, and risky sexual behavior in college students. Am coll health 1998;46(5):227-32.
- 10. Gemzell-Danielsson K. Emergency Contraception and Fertility awareness among University Students in Kampala Uganda. 2005:164-203
- 11. Karungari K, Laurie S. The Correlates of Premarital Sexual Activity Among School-Age Adolescents in Kenya. InternationalFamilyPlanning Perspectives,Sep,1993;19(3):92-7.
- 12. Berhnu L, Jemal H. Does exposure to sexually explicit films predict sexual activity of in school youth? EJHD; 23(3):183-4.
- 13. Seme A, Wirtu D. premarital sexual practice among school adolescents in Nekemte town, east wolega. Ethiopian Journal of Health Development, 2008;22(2):167-73.
- 14. korra A, Haile M.sexual behavior and level of awareness on reproductive health among youths. evidence from harar, eastern Ethiopia. Ethiopian Journal of Health Development; 1999;13(2):107-13.

- 15. UNFPA. Young People and demographic trends. New York:2000 http://www.unfpa.org/adolescent /facts.html (accessed in June 2010)
- 16.<u>Buga</u> D. Ncayiyana J ,Sexual behavior, contraceptive practice and reproductive health among school adolescents in rural Transkei. S Afr Med J, 1996:243-264
- 17. Versnel M ,Yemene B, Wendte .Sexuality and contraception among never married high school students in Butajira Ethiopia. Ethiop Med J;2002 J40((1)):41-51.
- 18. McEwan_B . High school students' attitudes towards and use of contraceptives. 2002:253-287
- 19. Gadisa T. Barriers to use contraceptive among adolescents in the city of Addis Ababa. Ethiopian journal of health development December, 2003.
- 20. Fantahun M.Knowledge, attitude and practice of family planning among senior high school students in north Gonder. Ethiopian journal of health d evelopment 1988
- 21. Mangistu S. Assessment of level awareness and emergence contraceptive use among female college student in asella town, Ethiopia 2007
- 22. Josaphat K. Emergency Contraception and Fertility awareness among University Students in Kampala,uganda 2005.
- 23. Elisabeth F. Emergency Contraception and Fertility awareness among University Students in Kampala, uganda 2005.
- 24. Chris P. Adolescents and Emergency contraceptive pills in developing countries. Family Health International. May 2005, No.WP05-01

ANNEXE _1 ENGLISH QUESTIONNAIRE

Questionnaire on Assessment of pregnancy risk perception and contraceptive use among

college student in shashamane town, western Arsi zone, Oromia region, Ethiopia

Information sheet

Dear respondent,

This questionnaire is designed for a research work approved by Addis Ababa University college

of health science, School of Public Health to be conducted in partial fulfillment of a master's

degree in public health. None of your answers will be available to anyone at anytime. All the

information you give us will be kept private. Do not put your name anywhere on this

questionnaire. If you decide not to participate or complete the form, you may end filling the

questionnaire anytime you want to. However, we really need your honest response to better

understand pregnancy risk perception and contraceptive use. The results of the study would

hopefully serve as an important input to intervention programs that aim at improving youth

health in general and college students in particular.

It will take you 20-30 minutes to complete the whole questionnaire.

We thank you in advance for taking your time to respond to our questions!

If you decide not to participate in the study, please return the questionnaire to the Data

collecter/Investigator.

below.

Consent form

I am informed all about the purpose of the study and my right to not participate or to discontinue at any time in the process of interview, I am volunteer to participate and I signed as

Date	signature
Name of investigator: Ed	lao Tesa kelivo

Address of investigator: Tell +251913736375

Email: edaotesa@ymail.com

SECTION-1 Socio-demographic questions:

No	Question and filters	Possible response	Code	Skip
Q101	What is your age			
Q102	Ethnicity	1.Amhara		
		2. Oromo		
		3.Gurage		
		4.Tigrie		
		99.if other		
		specify		
Q103	Religion	1Orthodox		
		2. Muslim		
		3.Catholic		
		4.Protestant		
		5. No affiliation		
		99.If other specify		
Q104	Marital status	1 unmarried/single		
		2-married		
		3-divorced		
		4-widowed		
		5-separated		
		6- Mention if other		
Q105	How many currently alive	1. none		
	children do you have?	2. one		
		3. two		
		4. three or more		
Q106	Where do you live?	1. In campus		108
		2. Outside campus		107
	If your response to question	1. with parent(father, mother		
Q107	Q106 is #2 with Whom do	do &others)		
	you live now?	2. With peers in rented house		

		3. Alone in rented house	
		4. with a boy friend	
		5. with husband	
		6. If other specify	
Q108	What is your parent's	1. both peasant	
	occupation?	2. both employee	
	List all possible answers.	3. both traders	
	By the way, what is the	If other	
	objective of asking this	Father	
	question?	Mother	
Q109	What is your department?		
		1.Social science	
		2. health science	
		3.other natural science	
		4.TVET	
Q110	Year of study	1. year one	
		2. year two	
		3. year three	
		4. if other	
Q111	Where is your origin of	1.Shashamane town	
	residence?	2.Out side Shashemene	
		3.Other zone	
		9.Other region	

Part 2:Questions related to sexual experience

No	Question and filters	Possible response
Q01	Have you ever had a boy friend?	1. Yes 2. No (Skip to Q.203
Q202	Have you ever discussed about Sexual matters with your boy friend?	1. Yes 2. No
Q203	Have you ever had sexual intercourse with any one?	1. Yes 2. No
Q204	At what age did you first have sexual intercourse?	1.age in years 99.I don't remember
Q205	What drove you to have your first sexual intercourse?	 Fell in love Had a personal desire I got married I was forced.
Q06	How many sexual partners did you have?	1. One person 2. two persons 3. three or more
Q207	Have you ever used condom?	1.Yes 2. No (skip to question209
Q208	How often did you use condom?	1. Always 2. Sometimes 3. Once or twice
Q209	Have you ever used any other Contraceptive?	1.Yes 2. No (Specify)
Q210	IfQ09 is yes, how often?	1. Always 2. Some Times 3. Rarely

Section-3-Questions related to pregnancy risk perception

No	Question and filters	Possible response
Q301	Do you think that a female can become pregnant after	1.yes
	unprotected sexual intercourse	2.no
Q302	How big is your chance of getting pregnancy?	1-high
		2-low
		3-no chance at all
		4 .I don't know

Q303	What makes you at higher risk of contracting pregnancy?	1.being student
		2.being from poor
		family
		99.other
		specify
Q304	Do you know the menustrial phase at which pregnancy can occur?	1.yes 2.no
		3.don't know

Section-4 Question related to contraceptive use

No	Question and filters	Possible response
Q401	Have you ever heard about contraceptive	1.Yes
	methods?	2. No(skip to Q407)
Q4O2	If yes which one?	Yes No
	Pills	1 2
	IUCD	1 2
	Injection	1 2
	Norplant	1 2
	Condom	1 2
	➤ More than One response is possible	
Q403		1.From health
	Source of information	2.workers
		3.education
	More than One response possible	4.from friends/peers discussion _
		5.from teachers in the class
		6.from clubs in the schools
		7.From parents
		8.From religious leader
		9.From mass media (TV, Radio)
		10.By reading articles/news

		99.Ifother specify
Q404	Have you ever used any modern	1.Yes
	contraception methods	2.No
	Have you currently using any modern	1.Yes
	contraception methods	2.No
Q4O5	If yes which one?	Yes No
	1. Pills	1 2
	2.Injectable	1 2
	3. Implants	1 2
	4. IUCD	1 2
	5. Condoms	1 2
	6. Calendar methods _	1 2
	7. Withdrawal	1 2
	8. Tubal legation	1 2
	9. Others	
Q406	Do you want to use any contraceptive in	1.yes
	the future?	2.No
Q407	Where do/did you get the contraceptives?	1.From pharmac
		2.From shop
		3.From health institution
		4.from friends
		5.youth center
		99.if other specify
Q408	Have you ever had unintended pregnancy?	1. Yes
		2. No
Q409	Do you know how to prevent	1.Yes
	Unwanted pregnancy following un	2.No
	protected sexual intercourse?	
Q410	If Yes to Q408 what are the methods used	1. Pills
	to prevent unwanted pregnancy?	2. Injection

		3. condoms	
		4. IUDs	
		5. Norplant	
		6. Sterilization	
		7. Withdrawal	
		8. Calendar method	
		9. Abstinence	
		10. Emergency contraception	
		99 specify if other	
Q411	Have you ever faced unwanted pregnancy	1. Yes	T
1	while using a contraceptive?	2. No9(skiptoQ412)	
Q412	If yes to Q410, what was the reason for	1. rape	-
	unwanted pregnancy?	2. incest	
Q413	Have you ever heard about emergency	1.Yes	
	contraception?	2. No	
Q414	if yes which one(more than response is	1.OCP	_
	possible)	2. IUCD	
		3. Injectable	
		4. Implant	
		5. Others	
Q415	Source of information	1.From health workers	
		2.education/clinic	
		3.from friends/peers discussion	
		4.from teachers in the class	
		5.from clubs in the schools	
		6.From parents	
		7.From religious leader	
		8.From mass media (TV,	
		Radio)	
		9.By reading articles/news	
<u> </u>	<u> </u>		_

		99.if other specify
		1.From health institutions
Q416	Do you know from where emergency	2.from private clinic
	contraception can be obtained?(more than	3.Pharmacy
	one answer is possible)	4.Shop
		99.specify if other
		1.After unprotected sexual
Q417	In your opinion, when do you think EC	intercourse
	should be used?	2.when unwanted pregnancy
		occurred
		3.As an ongoing contraceptive
		4.Do not know
		99.specify if other
Q418	Do you know when emergency	1.within 72 hours
	Contraceptive pills will be effective after	2.within 120hours/5days _
	unprotected sexual intercourse?	3.I don't know the time _
Q419	Which methods do you know used as	1. Pills
	emergency contraceptive ?	2. Injection
		3. condoms
		4. IUCDs
		5. Norplant
		6. Sterilization
		7. Withdrawal

Univeersitii Addis Ababa ti Kolleejii saayinsii fayyaa Mana barumsa Fayyaa hawaasaa

Birgaba Gaafilee

Universitii Addis Ababa ti kolleejjii saayinsii fayyaattdipaartiimeentii fayyaa haawaasaa gaafilee shamareen barattoota kolleejiwwan magaalaa shashaamanee keessa barataa jiranin kan gutamu.

Tajaajila fayyaa shamereeni foyyessuf,rakkoolee fayyaa dhimma walqunamtii nafasaalaa tasaa fi haala dawaalee dhimma kanaaf oolan gadi-fageenyaan qoratanii hubachun barbaachsaa dha.

Kanaafu qorannoon sadarkaa beekumsaa, illaalchaafi ittifayadama dawa qusano maattii yarooo ariiti shamareenif gargaaru fi dhimmota keeninsa tajaajila kanaa gufachisu malan qorachuuf qoranoon kuninqophaa'eera. Isiniis qorannoo kanaaf caraadhaan filatamtanii jirtu.

Gaafii qorannoo kanaa keessatti hirmaachuun fedhii keessanii? Eeyyee ykn Miti .Deebi kee mallattoo "X" galchudhaan mirkaneesi. Yoo deebin kee eeyyee ta'ee gara fuula itti annuti dabri. Yoo deebin kee miti ta'e hanga shamareen gutaa jiran xumuranitti waraqaa gaafichaa gadi garagalchitani iddoo taa'uumsa keessanni irraa turtan.

unkaa waliigaltee

Anii kaayoo qorannichaas ta,ee gaafii irratti hirmaachuu dhiisuu ykn yeroo barbaadetti addaan kutuuf akkan mirga qabuu siritti hubadheera.haaluma kanaan gaafii fi deebicha irratti fedha kootiin hirmaachuu koo mallattoo kootiin ibseera.

	eeyyee	mitii	
диууаа			
mallattoo			

Tessoo abba qoranichaa: Edao Tesaa Qaliyyoo

Lakk.bilb 0913736375 Meelii :tesaedao@ymail.com

Gaa fiile e

Kutaa-1-Haala-maalummaa dhunfaa ilaalu (socio-demography)

Deebii kee lakkofsa irratti mari(circle)

Maqaa koolleejji_____

G101	Umriin kee meeqa?	Waggaa	(Lakkofsaan barresi)
G102	Qomoon(sabni) kee maalii?	1. Amaaraa	
		2. Oromoo	_
		3. Guraagee	
		4. Tigiree	
		9. Kan biraa yoo ta	d'ee ibisi
G103	Amantiin kee maali?	1. Ortodooksii	
		2. Islaama	_
		3. Kaatolikii	_
		4. Proteestaantii _	
		5. Kamiyu hinhord	ofu
		99.Kan biraa yoo t	a'ee
		ibsi	
G104	Haalli fuudhaa fi heerumaa kee maal	1 In heerumnee	
	fakaata?	2. Heerumeeraa	
		3. Hikeeraa	
		4. yeroof adda baa	neraa
		5. Najalaa du'eera	
		99. Kan biraa yoo	ta'ee
		ibsi	
G105	Ijoolee meeqa deesee?	1. hindeenyee	
		2. Tokko	
		3. Lama	
		4. Sadi fi sanaa oli	

G106	Edoon jireenyaa kee eessaa?	Oddoo koolleejji kessa(dormitory)
		2. Oddoo koolleejjiin ala/Magaalaa
		kessaa
G107	Yoo deebin G106 Lakk. 2	Maatii kiyya(Abbaa, Haadhaa fi kkf)
	ta'ee (magaalaa kessa) Yeroo ammaa	1. Hiriyoota kiyya walin mana kireefannee
	eenyuu waliin jiraata?	2. Kophaa kiyya mana kireefadhee
		3. Kaadhimaa kiyya waliin
		4. Abbaa warraa kiyya waliin
		99. Kan biraa yoo ta'ee
		ibsi
G108	Hojjin haadhaa fi abbaa keetii maali?	1. Lamaanu qotee bultootaa
		2. Lamaanu hojattota motummaati
		3. Lamaanu daldaltoota
		99. Kan biraa yoo ta'ee ibsi
		Abbaan
		Haarmeen
G109	Gostii leenji keettii	Maqaa Barressi
	maali?/dipaartimeentii/	
G110	Waggaa meeqaffaa barachaa jirta?	1) 1 _{ffaa}
		2) 2 _{ffaa}
		3) 3 _{ffaa}
G111	Barumsaaf eessarraa dhuftee?	1. Magaalaa shaashamannee
		2. Aanaa biraa irraa

Kutaa-2 Odeeffannoo waa'ee hormaataa

G201	Hiriyaa dhiiraa qabdaa	1.eeyyee
		2.hin qabu, gara G203 ce'ii
G202	Waa'ee Wal qunnamtii qaama saala wajjin mari'atee	1. Eeyyee
	beektaa?	2. hinbeeku
G203	Wal qunnamtii qaama saala nama kamminu wajjiin	1. Eeyyee
	gootee beektaa?	2. Miti

G204	Yeroo wal qunnamtii qaama sala gootu umriin kee	1.waggaan
	waggaa meeqa ture?	99.hin yaadadhu
G205	Walquunamtii saalaa akka gootu kan sidirqisiisee maal	1.jaalala
	ture?	2.fedhii fooniitiif
		3.heerumeeti
		4.dirqisiifameeti
G206	Hanga ammatti nama meeqa wajjiin wal qunnamtii saala	1.tokko
	gootee?	2.lama 3.sadiifi achii ol
G207	Yeroo wal qunnamtii qaama saala gootu koondomii	1.eeyyee
	fayyadamtee beekta?	2.hin beeku
G208	Deebin G207 "eeyyee" Yoo ta'ee yeroo kam kam	1.yeroo hundaa
	fayyadamtaa?	2.yeroo tokko tokkoo
		3.al lama ykn sadii
G209	Mala karoora maatii fayyadamtee beektaa?	1.eeyyee
		2.hin beemu
G210	Deebin G209 "eeyyee"yoo ta'ee yeroo kam kam	1.yeroo hundaa
	fayyadamtaa?	2.yeroo tokko tokkoo
		3.darbee darbee

Kutaa-3 odeefannoo hubannoo carraa ulfaa'uu

G301	Shamarreen taka wal qunnamtii saala yoo goote ni	1.eeyye
	ulfoofti jette yaadaa	2.mitii
G302	Carran ulfaa'uu wal qunnamtii of eeganno hin qabnee	1.baay'ee guddaadha
	hangam jettee yaada?	2.baay'ee xiqqaadha
		3.Hin beeku
G303	Maal ta'utuu ulfa hin barbaachisneef nama saaxila?	1.Barattuu ta'uu
		2.maatii hiyyeesa irra
		dhalachuu
		3. hin beeeku
G304	Laguu baatii kanaatii hanga baatii itti aanutitti	1.eeyye
	guyyootiin itti ulfi uumamu ni jiraa?	2.hin jiru 3.hin beekuu

G305	Shamarreen taka baatii keessati yerroo kam wal qunnamti of	1.yeroo laguu argituttii
	eegannoo hin qabne yoo goote ulfaa'uu dandeessi?	2.walakkaaa baatiiti
		3.laguun booda 4.Hin beeku

Kutaa- 4 Beekumsa, ilaalchaa fii haala itti fayyadama karoora maatii ariiti

(Emergency contraceptive)

Lakk	Gaafiilee	Deebii ta'u malan
G401	Waa'ee karoora maatii beektaa?	1. Eeyyee
		2. Hinbeekugara G403 tti dabri
G402	Deebiin G401 "eeyyee" yoo ta'ee	Dawaa karoora maatii kan liqimsamu
	kamiin?	2. Dawaa karoora maatii lilmoon waraanamu
		3. Kondomitti fayadamu
	Deebiin tokko ol ta'uu ni danda,a	4. Dawaa gadameessa kessatti kaawamun
	,	5. Dawaa ciqileetti awaalamun
		6. Da'umsa hanga dhumaattii dhisu (ujjummoo
		Hidhu)
		7. Yeroo walqunamti saalaa ija sanyi dhiiraa
		qaama dhalaattin alatti dhangalaasun
		8. Guyyooti itti ulfa hinta'amneeti fayadamu _
		9. Walquunamtii saalaa yeroo murtaa'eef
		dhaabu _
		99. Kan biraa yoo ta'ee ibsii
G403	Deebiin G401 "eeyyee" yoo ta'ee	Barumsa ogeessa fayyaa irraa
	Odeefanno/barumsa/ eessa irraa	2. Hiriyoota koo irraa
	argate?	3. Mana barumsaa/barsisaa/ irraa
	(deebii tokko oli qabaachu nidanda'a)	4. Gummiwan mana barumsaa kessaa
		5. Maatii kiyya irraa
		6. Abbootti amantaa irraa

		7. Oduu televizyiinii ykn raadiyoo irraa
		8. Barulee dubisuudhaan
		99. Kan biraa yoo ta'ee ibis
G404	Mala (dawaa) karoora maatiittin	1. Eeyyee gara G406 tti dabri
	fayadamte	2. Hinbeeku
	beektaa?	
G405	Yeroo ammaatti fayyadamaa jirtaa?	1. Eyyee
		2. mitii
G406	Gara fuulduratti karrora maati	1.eyyee
	fayyadamuu barbaadaa?	2.miti
G407	Deebiin G405 "eeyyee" yoo ta'ee	1. Farmaasii irraa
	dawaa karoora maatii eessa irraa	2. Suuqii irraa
	argate?	3. Dhaabata fayyaa irraa
	(deebii tokko oli qabaachu nidanda'a)	4. Hiriyoota irraa
		5. Dhaabata dargaggoo irraa
		99. Kan bira yoo ta'ee ibsi
G408	Ulfi ati hinbarbaanee si qunamee	1. Eeyyee
	beekaa?	2. Hinbeeku
G409	Ulfa hinbarbaadamnee walqunamtii	1. Eeyyee gara G409 tti dabri
	saalaa	2. Hinbeeku
	tasaa irraa dhufu akkamitin akka	
	ofriraa	
	ittistu beektaa?	
G410	Deebiin G408 "eeyyee" yoo ta'ee	Dawaa karoora maatii kan
	mallii(karaan) ulfa	liqimsamu
	hinbarbaadamnee	2. Dawaa karoora maatii lilmoon
	walqunamti saala tasaan dhufee	waraanamu

	ittin ittifamu	3. Kondomitti fayyadamu
	maalii?	4. Dawaa gadameessa kessatti
	(deebii tokko oli qabaachu n idanda'a)	kaawamun
		5. Dawaa ciqilee kessa awaalamun
		6. Da'umsa hanga dhumaattii dhiisu
		(ujjummoo Hidhu)
		7.Yeroo walqunnamti saalaa sanyi dhiiraa
		qaama
		dhalaattin ala dhangalaasun
		8. Guyyooti itti ulfa hinta'amneeti
		fayadamu
		9. Walquunamtii saalaa yeroo
		murtaa'eef dhaabu
		99. Kan biraa yoo ta'ee ibsii
G411	Dawaa karoora maatii osoo	. Eeyyee
	fayadamtu	2. Hinbeeku
	ulfoofte beektaa?	
G412	DeebiiG410"eeyyee" yoo ta'ee ulfi	1. Barattu waanan ta'eef
	maaliif hin barbaadamnee?	2. Hojji waan hinqabneef
		3. Jaalaleen kiyya waan nadhiseef
		4. Heerumaan ala waan ta'eef
		5. Abbaa waraa kiyyaan waligaltee
		waan Hinqabneef
		6. Ijoollee bay'ee waanan qabuf
		7. Guddedi dhaan waan ta'eef
		8. Fira kiyya irraa wanta ulfaa'eef
		9. HIV/AIDSin waan qabameef
		99. kan biraa yoo ta'ee ibsi
G413	Waa'ee dawaa/mala karoora maatii	1. Eeyyee gara G413tti dabri
	yeroo	2. Hinbeeku

	ariiti (Emergency contraceptive)	
	dhageessee	
	beektaa?	
G414	Deebii413 "eeyyee" yoo ta'ee, mala	Dawaa karora maatii liqimsamu
	kamiin?	2. Dawaa karoora maatii lilmoon waraanamu
		3. Kondoomii
		4. Dawaa gadameesa kessa kaawamu
		5. Dawaa ciqilee kessa awaalamu
G415	Deebii413 "eeyyee" yoo ta'ee	
	waa'ee	Barumsa ogeessi fayyaa keenu irraa
	mala karroora maatti yeroo ariiti	
	eessa	2. Marii hiriyoota walin godhamee irraa
	irraa dhageesee?	3. Mana barumsaati barsisaa irraa
	(deebii tokko oli qabaachu nidanda'a)	4. Gumiwan mana barumsaa irraa
		5. Maatii kiyya irraa
		6. Abbooti amantaa irraa
		7. Oduu televiizyiinii ykn radiyoo irraa
		8. Barulee dubisudhaan
		99. Kan biraa yoo ta'ee ibsi
G416	Dawaan karoora maatii ariiti eessa	Dhaabata Galatoomaa !fayyaa irraa
	irraa	
	akka argamu beektaa?	2. kiliniikii dhunfaa irraa
	(deebii tokko oli qabaachu nidanda'a)	3. Faarmaasii irraa
		4. Suuqii irraa
		5. Hinbeeku
		99. Kan bira yoo ta'ee
		ibsi
G417	Akka oddeefannoo argateen	1.Walquunamti saalaa tasaatin booda
	dawaan(malli)	2. Ulfi hinbarbaadamnee yeroo umamee
	karoora maatii ariiti yeroo kam hojiira	3. akka karoora maatiitti ittin gargaaramuf

	olu qabaa?	4. hinbeeku
		99. Kan biraa yoo ta'ee ibsi
G418	Walquunamti tasaan booda dawaan	1. Sa'atti 72 kessatti
	karroora maati ariiti liqimsamu yeroo	2. Sa'attii 120/guyyaa 5/ kessatti
	kam	3. hinbeeku
	yoo liqimsamee ulfa hinbarbaadamnee	
	ittisu danda'a?	
G419	Mallii(karaan) kumi karoora maatii	Dawaa karora maatii liqimsamu
	ariitiittif akka oolu beektaa?	Dawaa karoora maatii lilmoon waraanamu
	(deebii tokko oli qabaachu nidanda'a	3. Kondoomii
		4. Dawaa gadameesa kessa kaawamu
		5. Dawaa ciqilee kessa awaalamu
		6. Da'umsa hanga dhumaati dhisu/
		ujjumoo hidhu
		7. Ija sanyi dhiraa qaama dhalaatin
		ala dhangalaasu
		8. Guyyooti itti ulfi hinumamneti
		Fayyadamu
		Guyyooti muraasaaf walquunamti dhiisu
		10.Hinbeeku
		99. Kan bira yoo ta'ee ibsi

Galatoomaa!!

DECLARATION

I, the undersigned, declare that this thesis is my original work, has not been presented for degree in this or any other university and that all sources of materials used for this thesis have been fully acknowledged.

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