

Assessment of Knowledge, Attitude and Practice of Students Towards Sexual Transmitted Infection in Haile Mariam Mamo Preparatory School Debre Birhan, Ethiopia, 2013

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Abstract: Background- Sexually transmitted diseases are a major health problem affecting mostly young people, not only in developing, but also in developed countries. It is an infection that has a significant probability of transmission between humans by means of human sexual behavior, including vaginal intercourse, oral sex, and anal sex. Objectives: To assess the knowledge, attitude and practice on sexual transmitted infection among Haile Mariam Mamo preparatory school students, Debre Birhan, Ethiopia, 2013. Methods –An institutional based cross- sectional study was conducted from January 7 to June 15, 2013 in Debre Birhan preparatory school, Northern Shoa Zone, Amhara Region, Ethiopia. A total of 347 students were involved in the study by using stratified random technique. Data were collected through Pre-tested questioner, the collected data were entered and analyzed using SPSS version 16 statistical package and manual techniques. P-value < 0.05 was considered statistically significant. Result: Two hundred ninety (87%) of respondents were in the age group of 15-19 years. Among the total participants regarding information heard sexual transmitted infection transmission and prevention method, fourteen (17.5%) were from rural and two hundred forty six (82.5%) were from urban. The most frequently media which could help the participants information about r Sexual transmission infection were radio/TV (76%) followed by school (43.9%), parent (17.95%) and others (2.2%). Most of the participants 242(77.6%) were considered sexual transmitted infection as a disease. However, 32(9.5%) and 33(10.6%) of the participants were considered sexual transmitted infection as curse and syndromic respectively. Regarding treatment of sexual transmitted infection, the majority of the respondents (61.8%) were treated at health institute followed by (26.4%) were treated at home. Only(11.8%) of participants were treated by religious based practice including traditional medicine. Conclusion: Even if most of the respondents have knowledge about STIs, till there are misconception and their practice remained quit low. Behavioral change communication and demonstration be done regularly as part of the routine service and through the out reach9 school Visit) program about optional prevention and control of sexual transmission infection practice to all students who came to health institute and outreach services especially preparatory school.

Keywords: Knowledge, Attitudes, Practice, HIV/AIDS & STIs

1. Introduction

Sexually transmitted infection (STI) are illnesses that have a significant probability of transmission from infected person to normal persons through sexual behavior, including vaginal intercourse, oral sex, and anal sex (1). STIs are found

among people between 15 and 24 years; up to 60% of the new infections and half of all sero-positive people globally are in this age group (2, 3). In Indian society, it is seen that STIs are widely associated with social stigma, embarrassment and denial. Sexuality, and associated health risks are still a major taboo (4). Only 47% and 22% of the

respondents knew that adults and infants respectively could contact STIs. Only 12% felt they could contact STIs and 79% felt that being faithful would prevent one from contacting STIs, 87% knew that STIs could be treated(5). There was no reduction of risky sexual behavior with increasing level of knowledge indicating that increasing level of knowledge does not necessarily reduce risky sexual behavior (6). Few studies also have reported prevalence and incidence rate of Sexual transmitted infection in Debre Birhan; the majority of the patients are above the age of 15(7). Sexually transmitted infections (STIs) are recognized as a major public health problem in most of the world. According to north America extrapolated statistics annual report of STI greater than 10 million in north America ,above 48 million in western Europe ,greater than 11 million in central Asia,7,881,783 in kenya,1,984,555 in Somalia, 6,306,495, in Uganda and 17,047,342 in Ethiopia were infected in the year 2012/2013(8). In some parts of the developing world, over 90% of the population was infected with Sexual transmitted diseases. Despite long-standing control efforts, it is estimated that more than 500 million people still are at high risk of infection, over 140 million persons are infected and about 6 million are in Africa, the Middle East, Central and South-East Asia, and countries in Latin America(9). In 1996, more than 1 million people were being infected daily. About 60% of these infections occur in young people <25 years of age, and of these 30% were <20 years. Between the ages of 14 and 19 years old, STIs occur more frequently in girls than boys (2:1) respectively. This equalizes by age 20. After three years of previous report (1999), an estimated 340 million new cases of Syphilis, Gonorrhea, and Chlamydia occurred throughout the world. . For instance, In Sub-Saharan Africa, the burden of new cases of Sexual transmitted infection were higher than other countries. In addition, the rate of 11% to 35% of all new cases of sexual transmitted infections in the country was curable(.).. Ranking among the top five diseases for which adults in developing countries seek health care (10). In Ethiopia according to 2011 national review meeting report on STIs, a total of 451,686 cases of STIs were reported from all regions except SNNPR for the period 1998-2002 E.C. According to 2010 quarterly report 27,947 STI cases were reported from all regions (11). Although the epidemic is currently stable, HIV/AIDS remains a major development challenge for Ethiopia. The spread of HIV in any community is in part determined by the knowledge of attitude towards sexuality of its members and by their actual sexual practices (12). For instance, In North Shoa in the year 2011/2012, 1333 males and 2387 female STI patients were reported at OPD level. In spite of the high prevalence of STIs in Ethiopia, relatively little epidemiological research has been carried out ,the people with STIs who have minor or no symptoms do not seek treatment at public health facilities, lack of information on STIs ,health facilities offering treatment for STIs are far away from clients who present with STIs, Stigma associated with attending public STI clinics , and some patients do not attend formal STI clinics due to economic factors and they would rather go to traditional

healers that provide services for free or with cheap costs, the prevalence of STI in Ethiopia is not well known(13). The knowledge of sexually transmitted diseases and sexual behaviors among Malaysian male youths that 92% of the respondents had heard of at least one of the listed STDs, which included syphilis, gonorrhea, Chlamydia, yeast infection, herpes, genital warts, trichomoniasis and HIV/AIDS. The disease that most people knew of was HIV/AIDS (90%) and syphilis (59%). The least known diseases were Chlamydia and trichomoniasis, only 13 % of the respondents were aware of those diseases. When it came to STD transmission, 95 % of the respondents knew at least one method (14). This custom provides women with opportunities for numerous transient sexual liaisons. Because of the limited employment opportunities available to women in Ethiopia, many select beer selling and prostitution as a way to earn an income. Thus, changes in the social structure, particularly in relation to the status of women, are contributing to the spread of STI. In general, neither health professionals nor the general population in Ethiopia understand the transmission process of STI, the serious nature of the problem, or how these diseases should be treated (15,16). The finding of this study will help to know the knowledge, attitude and practice of adolescents towards STI and to determine what methods are more appropriate to educate adolescents about STI. The result of this investigation will also help the concerned bodies or sectors to know the problem in the study area and carry out their intervention activities for reduction of this problem. The main aim of this study was to assess the knowledge, attitude and practice on sexual transmitted infection among Haile Mariam Mamo preparatory school students, Debre Birhan, Ethiopia, 2013

2. Methods and Materials

2.1. Study Area and Period

This study was conducted in Debre Birhan preparatory school, Northern Shoa Zone, Amhara Region, Ethiopia. Located at a distance of 130 Km North east of Addis Ababa, Amhara regional State, Ethiopia. The town is set up with 9 Keble with a total population of 94,829. From this 50.9% are females. In the town there is only one preparatory school with a total number of 1715 students in which 47.7% are females. The study was conducted in randomly selected preparatory school students in Debre Birhan from January 18 - June 10, 2013.

2.2. Study Design

An Institutional based cross sectional study method was employed.

2.3. Study Population

Sampled students who are attending their education in Debre Birhan Preparatory school prior to the study. The Source population was all regular preparatory students

registered in the academic year 2012/13 G.C. The study population was students in the preparatory school attending a day time education during year 2012/13 selected from the source of population with stratified sampling method from the students.

2.4. Sample Size

The sample size was determined by using a single population proportion formula considering the following assumption: Non proportion of preparatory students 16%(P=0.16)(19), level of significance to be 5%(d=0.05) and design effect=2. By adding 105 non-response rate, the final sample size was 347.

2.5. Sampling Techniques

First: Through obtaining students list from the school, students were stratified in two strata (grade 11, grade 12) based on grade level difference. Second: The total calculated sample was proportionally allocated to each grade based on the size of students. finally: respondent among each grade were selected by simple random sampling method by using table of random number using their ID number as frame of reference. Proportional allocation according to their size

$$\begin{aligned} \text{Grade 11th} &= \frac{842 \times 347}{1715} = 170 \\ \text{Grade 12th} &= \frac{873 \times 347}{1715} = 177 \end{aligned};$$

Then during data collection the selected students were assembled in to five different divided areas and then we administered the questioner and collect the required data.

2.6. Instruments and Measurement

Pretested and structured questionnaire was used. Questionnaires for each items are adapted from previously done similar studies (19). The instrument contains four parts: Sociodemographic characteristics of the respondents, Knowledge of students towards Sexual transmitted infection, attitudes and practice of the students towards sexual transmitted infection. The questionnaire was initially developed in English and translated in to Amharic by a person who has good ability of both language and then back to English to ensure consistence. The questioner was pretested in similar setting outside the study District (cha-cha preparatory school) with similar group as the target group.

2.7. Data Collection Procedure

Self administrated structured questionnaire which contain socio-demographic characteristics, knowledge, attitude and practice towards sexual transmitted infection was prepared to collect primary data. Questionnaire was pretested in 5% preparatory students of the same grade in Debre Birhan having the same socio-demographic character before the actual data collection, data collectors and supervisors were

appropriately trained for one day. One supervisor nursing professional personnel was involved in data collection. The questionnaire was initially developed in English and translated in to Amharic by a person who has good ability of both language and then back to English to ensure consistence. The questioner was pretested in similar setting outside the study District (cha-cha preparatory school) with similar group as the target group. Data was collected by five 4th year nursing students. For both data collectors and supervisors one day training was given on data collection instruments, interview technique and importance of taking informed consent before data collection starts. Each day data was checked for completeness and consistency.

2.8. Data Processing and Analysis

The collected data was manually checked for completion for respondents are to be included in analysis and analysis was done manually. Frequencies, proportions and summary of descriptive statics were employed to describe the study population in relation to relevant variables. Odds ratio was used to assess the presence of association between independent and outcome variables. Test of significance was done using X²-test and a value of p< 0.05 were taken to indicate statistical significance.

2.9. Data Quality Control

Structured questionnaire was primarily prepared in English then translated to Amharic and then back to English by translator in order to look for consistency of the questions. After complete the correction pretest was done on cha-cha preparatory school and questionnaire was checked for completeness on daily basis. The completed questionnaires were also rechecked by the principal investigator to maintain the quality of data.

2.10. Ethical Consideration

Ethical clearance and approval was obtained from Institutional Review Board (IRB) DBU of school of health science. A formal letter from Debre Birhan University, School of Health science, was submitted to the school and, to all relevant offices and concerned bodies to obtain their co-operation. All study participants were informed about the purpose of the study and any additional information was given as they need, verbally and in written form. Efforts was done to overcome ethical concerns of the participants due to the sensitivity of the issue under study by careful designing and structuring the questionnaire; clear explanation about the purpose and usefulness of the study and by excluding names and other identifying numbers. The final report of the study was defended in Debre Birhan University, school of health science, department of nursing. Result of the study was disseminated to Haile Miriam Mamo preparatory school administrator, other relevant organizations working around sexual transmitted infection and individuals who need it to use as reference.

3. Result

3.1. Socio Demographic Characteristics

A total of 333 respondents participated in this study making the response rate of 96 %. Among these respondents 165(49.5%) were males and 168(50.5%) were females. The age distribution of the respondents showed that most of the respondents (87%) were between 15-19 years old. From respondents 291 (87.4%) were followers of the Orthodox followed and others are other religion followers. Majority 253(76%) of the respondents were living in the town and 80 (24%) of them are from rural area. Majority of 312(93.7%) of respondents were Amharas, and others comes from other regions. During the study period 236 (70.9%) of the respondents were living with their family, 52(15.6%) were living with rental house, and 45(13.5%) were living with other relative house. From respondent's family 56(16.9%) fathers and 89(26.7%) mothers are illiterate. One hundred and twenty (36%) father&109(32.7%) mothers learn at primary school (1-8) level.

3.2. Knowledge, Attitude and Practice of Stis

Fourteen (17.5%) rural and 246 (82.5%) urban respondents ever heard about STI. Radio/TV was the most frequently information source for STI and others get information from other sources (fig-1). Regarding knowledge of respondents on sign & symptoms of STI 233(74.7%) of respondents know at least one sign & symptoms of STIs but the rest 79(25.3%) didn't know any sign & symptom of STI.

Table 1. Frequency Distribution on Socio-demographic characteristics of Preparatory students in Debre Birhan, 2013.

Characteristics	Number	Percent
Age		
15-19	290	87
20-25	43	13
Ethnicity		
Amhara	312	93.7
Oromo	12	
others	9	
Religion		
Orthodox	291	87.4
Muslim	19	
others	23	
Father level of education		
Illiterate	56	16.9
1-8	120	36
9-12	85	25.5
>12	65	19.5
others	7	
Mother level of education		
Illiterate	89	26.7
1-8	109	32.7
9-12	79	23.7
>12	56	16.9
Job of family		
Farmer	129	38.7
Merchant	63	18.9
Gov't employee	111	33.4
Others	30	

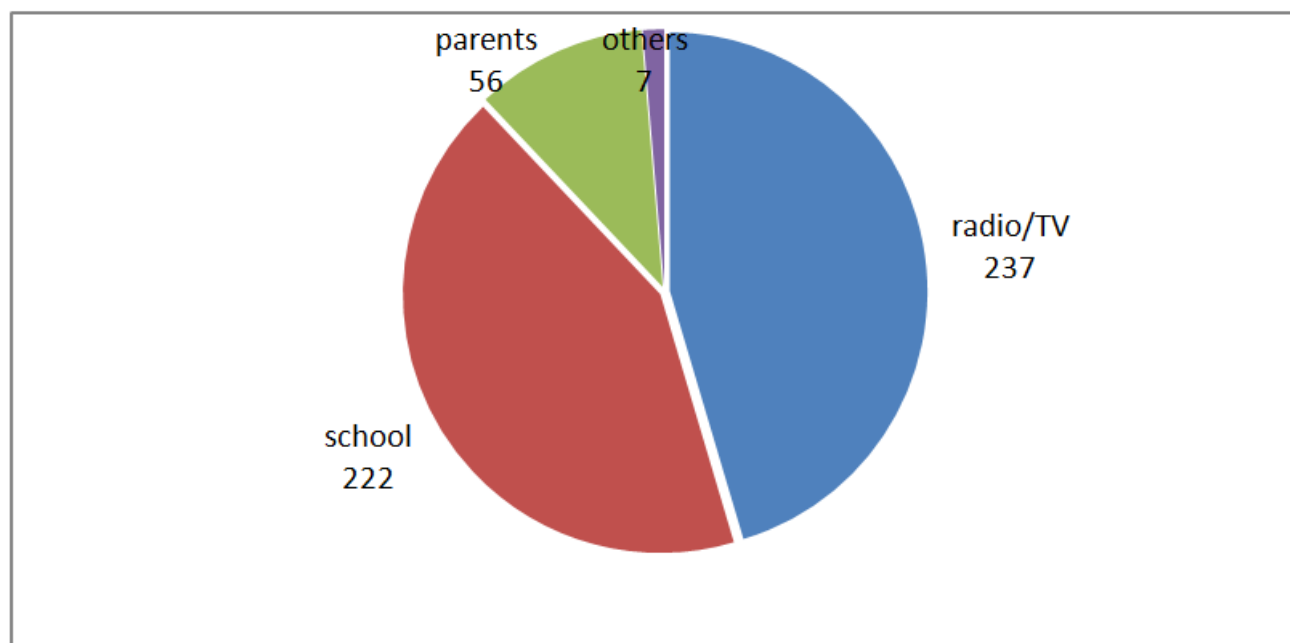


Figure 1. Frequency distribution of source of information for STIs among preparatory students in Debre Birhan, 2013.

Concerned with transmission of STI: 286(91.2%) of the respondents select individual transmission methods like sex 250(80.1%), blood contact 91(29.2%), contaminated needle 58(18.6%), genetics 18, breast feeding 33(10.6%) and the rest 9 mentions other transmission methods in which more

than one answer was possible. Regarding prevention method of STIs, majority of respondents 270(86.1%) know prevention method of STI but 42(13.5%) of the respondents didn't know any prevention method of STI.

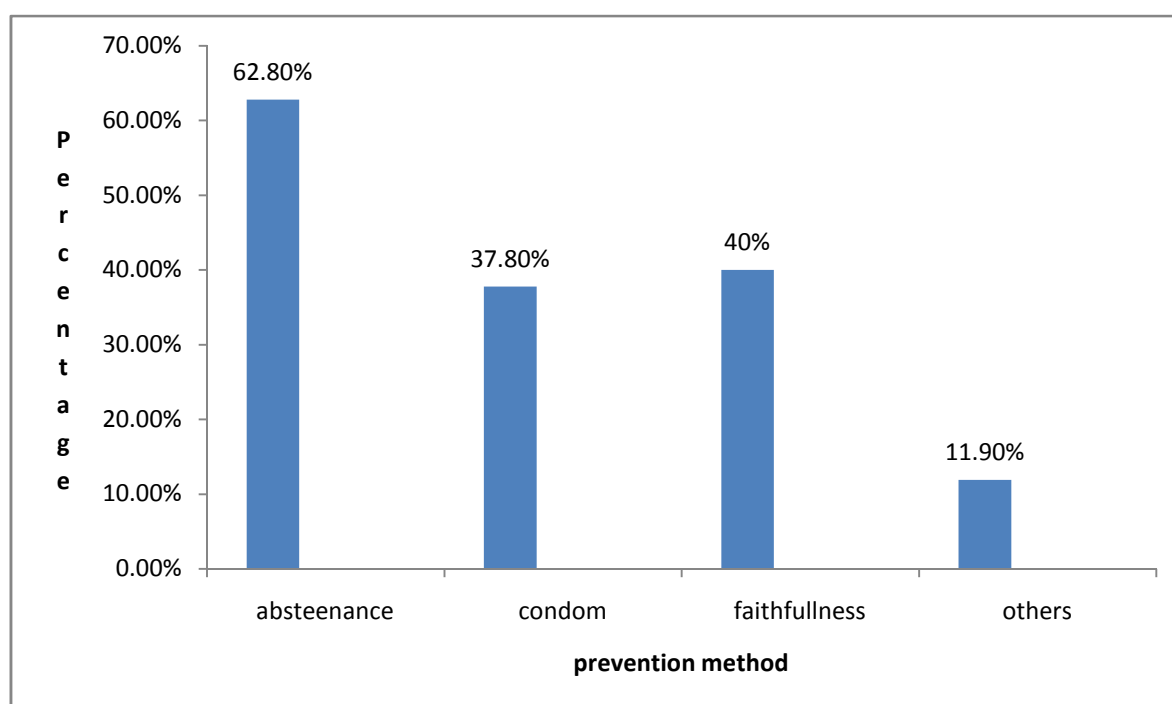


Figure 2. Percentage distribution of STIs prevention methods which were listed by respondents among preparatory students in Debre Birhan, 2013.

Table 2. Distribution of attitude among preparatory students on STIs in Debre Birhan, 2013.

Variable	No	Percentage (%)
What do you think about STIs?		
It is a diseases	242	77.6
Curse	32	10.3
Syndrome	33	10.6
I don't know	5	
What do you think about curability of STI?		
All are cured	87	27.9
There are cured and non cured	182	58.3
All are non cured	31	
I don't know	12	
Do you think that STIs can transmit other than sex?		
Yes	177	55.4
no	139	44.6
Do you think youths are vulnerable to STI?		
Yes	287	92
no	25	
Do you think that patients with STIs should be isolated from the community?		
yes	87	27.9
no	225	72.1
Do you think patients with STIs are easily identified in the community?		
Yes	104	33.3
no	208	66.7
Do you think that mosquito bite can transmit STIs?		
Yes	103	33
no	209	67

Two hundred forty- two (77.6%) of respondents consider STI as a disease, where others consider STIs as course

&syndrome. From study participants who asked regarding curability of STI: 87(27.9%) names as curable, 182(58.3%) says there are curable &none curable, 31(9.93%) says all are none curable and the remaining 12 told that they didn't know anything about the curability of STIs. Among those respondents who consider STIs as curable and non curable, 47(25.8 %) names the non curable STIs as curable. On perception of transmission 236(75.6) of the respondents believe that homo sexual intercourse can transmit STIs and 76(24.4%) didn't accept with this. From the participants 298(95.5%) of them consider STI as preventable but 14(4.5%) consider as non preventable diseases. The respondents also asked concerned with the impact of STIs; from these participants 181(58%) of them believes as it causes social isolation and stigma, but 131(42%) didn't accept this idea.

Among respondents who participate in the study 34(10.9%) have history of STIs .From those individuals who had history of STIs9 of them treated at home, 61.8% treated at health institution and the remaining 4 treated by other religious based practice. Among those individual who has treated at home 3% of them use animal product and the rest 6 (66.7%) use herbal medication like leaves. From those individuals who perform sex 42(55.3%) didn't use condom, but the 34 (44.7%) of them use condom. Among those who perform sex, 72(94.7%) perform sex at the age between 15-19, 3perform sex at the age greater than 19, and 1perform sex at the age less than 13. Those students were also asked about factors that initiated them to perform sex, from those 29(38.2%) of them perform sex because of peer pressure, 29(38.2%) perform sex because of age related increments of urge for sex, 12perform sex for money and 6 of them perform sex because

of other reasons. concerned with their plan for the future 43(13%) says use condom. 130(39%) says abstinence, 160(48%) says faithfulness, and

Table 3. Distribution of practice among preparatory students on Sexual transmitted infections in Debre Birhan, 2013.

Variables	number	Percent
Do you have history of STI?		
Yes	34	10.9
No	278	89.1
where you treated		
home	9	
health institution	21	61.8
others	4	
What measures you take for a person who is vulnerable to STIs?		
Advice to abstinence	160	51.3
Advice to be faithful	150	48
Advice to use condom	160	51.3
Advice to wash his genitalia before sex	34	10.9
Advice to wash his genitalia after sex	35	11.2

*Excess number is due to response of more than one answer

Table 4. Determinant of the association between socio-demographic factors and knowledge of sign and symptom of STIs among preparatory students in Debre Birhan, 2013.

Factors	Know sign and Symptom of STIs		Total	X ²	COR	p-value
Father level of education						<0.025
≥9	124	20	144	7.03	1	
<9	72	30	102		2.58	
Illiterate	22	28	50		7.89	
Total	233	79	312			
mother level of education						<0.025
≥9	113	15	128	7.02	1	
<9	74	28	102		2.9	
Illiterate	46	36	82		5.9	
Total	233	79	312			
Occupation of family						
Gov't employee	121	11	132	16.7	1	
Farmer	62	56	118		10	<0.005
Merchant	47	12	59		2.8	
Total	233	79	312			

Table 5. Association between socio-demographic factors and knowledge of transmission method of STIs among preparatory students in Debre Birhan, 2013.

Variables	Knowledge of transmission method		total	X ²	COR	p-value
	yes	no				
Father level of Education						<0.5
≥9	132	12	144	0.65	1	
<9	112	6	118		0.6	
Illiterate	41	9	50		2.4	
Total	286	26	312			
Mother level of education						
≥ 9	122	6	128	0.76	1	<0.5
<9	95	7	102		1.5	
Illiterate	69	13	82		3.8	
total	286	26	312			
FAMILY OCCUPATION						
Gov't employee	123	7	130	0.36	1	
Farmer	96	14	110		2.6	<0.75
Merchant	67	5	72		1.4	
Total	286	26	312			

Table 6. Association of socio demographic characteristics and practice of condom use among preparatory students in Debre Birhan, 2013.

Variables	Use condom		X ²	OR	P-value
	Yes	no			
urban	28	13	41	11.1	10.41
rural	6	29	35		
Total	34	42	76		
11 th	11	18	29	0.48	0.6
12 th	23	24	47		
Total	34	42	76		
Male	19	13	32	2.64	2.8
Female	15	29	44		
total	34	42	76		

4. Discussion

This study has tried to assess knowledge, attitude and practice of sexual transmitted infections among preparatory students in Debre Birhan town Amhara regional state. In this study 93.7% in which 17.5% rural and 82.5% urban respondents ever heard about STI. This result was lower than the previous studies conducted in Tanzania among in-school youths at which ages ranged from 13 to 25 years, however most of them (60%) had age between 17 and 19 years, about 99% of the students have had heard about STIs (17). This may be because of some respondents in this study were from rural areas (17.5%) have no access to mass media and Debre Birhan town also was not developed as capital city of Tanzania. But this result close with study conducted at age between 15 to 20 years in Pulau Pinang, Malaysia, at which from respondents 10.6% claimed that they never heard about STIs (18). In this study the most frequently information source for STI were radio/TV (76%) followed by school (43.9%), parent (17.95%) and others (2.2%) in which multiple information source was common. The result is little bit different from survey done in Tanzania which revealed that majority of students 99% were capable of mentioning multiple sources of information about knowledge of STIs, and none of them mentioned parents or teachers as source of information. Also Radio and Television were cited by 93% of students as the source of information on STIs while the rest 45 (7%) students had sought information on their own from internet and books ($p < 0.001$) (17). This may be due to development of the country civilization, they change the information delivery system to computerized one like internet, digital library. In this study 74.7% of respondents' aware sign & symptoms of STIs but the rest 25.3% didn't know any sign & symptom of STI. This is lower than a result that is conducted in Uganda Kampala, at which 90% of respondents mention two and above sign and symptoms of STIs (18). This variation may be due to Kampala is developed than our study area Debre Birhan in which different media and other information sources are not accessible as much as Kampala. But greater than study conducted in Tanzania, that most students had poor knowledge on the symptoms associated with STIs. Seventy-three 11.5% female and 14.5% male students accurately

described some symptoms associated with STIs. Two hundred and fifty-five 39% were completely unable to describe the symptoms compared with 165 (26%) who were able to describe the STI-associated symptoms correctly ($p < 0.001$) [16]. This difference may be due to currently in Ethiopia in order to improve health seeking behavior of patients with STI most medias advert by calling sign and symptom of STIs. This investigation revealed that from those individuals who were interviewed with respect to the knowledge on other means through which STIs could be transmitted other than sexual intercourse, 55.7% students responded positively while 139 (44.6%) were unable to respond. Two hundred and eighty six (91.7%) students said they were able to protect themselves from contracting STIs, 20 (6.4%) said cannot protect themselves and 6 (1.9%) were response as they didn't know. This result is different from study which conducted in Tanzania in which, from 635 students who were interviewed with respect to the knowledge on other means through which STIs could be transmitted other than sexual intercourse, 77% students responded positively while 23% were unable to respond. Six hundred and thirteen (96%) students said they were able to protect themselves from contracting STIs, 2.5% said cannot protect themselves and 1% were not sure (17). This may be in that area better education may be given about transmission of STIs. Concerned with their attitude towards risk of acquiring STIs most of the students 92% said they were at risk of contracting STIs, while 8% said as they are not at risk. This result is inconsistent with that of research conducted in Tanzania, 46% of the students said they were not at risk of contracting STIs, while 38% said they were at risk (17). This variation may be due to knowledge difference of respondents among the two study areas.

From study participants majority of respondents 86.1% calls prevention method of STI but 13.5% of the respondents didn't call any prevention method of STI. From prevention methods abstinence was listed by 62.8 % of respondents, followed by condom 37.8%, faithfulness 40%, avoid sex with commercial sex workers 14.1% & avoid blood donate 8.7% in which more than one answer was common. This result is different from previous study which was conducted in Durban, South Africa majority of the students mentioned condom 80.1% followed by zero gazing (46.4%) and abstinence (19.9%) (19). This different may be

the effect of religious practice in this study area in which most religion institution oppose condom. There is also a little bit different from study done in Debre Markose regarding preventive knowledge of STI, respondents call individual preventive methods like abstinence 52.1%), 70.0% said be faithful to one uninfected partner and 48.2% correct and consistent condoms use (20). Concerned with local miss conception 33% of the study units of this study said mosquito bite can transmit sexual transmitted infection. This result is inconsistent with results of study done in Debre Markose for questions to common local misconceptions, 46% had at least one misconception (20,21). This difference may be due to time difference at which today the perception of the community was changed from time to time due to education. In this study 27. % of them recommended to isolate patients with STIs from the community this is also have little bit similarity with that of study conducted in Gondar at which More than 30% of the students recommended isolation of AIDS patients (22, 23, 24, 25). Among respondents who had have history of STIs (10.9%), 26.4% of them treated at home, 21(61.8%) treated at health institution and the remaining 4(11.8%) treated by other religious based practice. From those individuals who treated at home 3% of them use animal product and the rest 66.7% use herbal medication like leaves. This result is different from Study conducted at Hawassa, Ethiopia from sample students 59.63% of student had history of sexually transmitted infections and 40.37% had no history of STIs. From those students who had history STIs 49.88% was treated at home, 40.09% was treated at health institution and 10.03% was treated at other place. Out of those students who had history of STIs and treated at home, 52.45% was treated by animal product, 18.88% was treated by root (16.08%) was treated by stem bark and 12.59% was treated by leaf (17,26,27). This may be due to; currently health information was distribute by different media about STIs and its important of treated at health Institution. Fathers education of 9 and above classes had positive association with respondents knowledge of sign and symptoms of STIs (COR =2.58). Mothers education 9 and above classes had positive association with students knowledge of sign and symptoms of STIs (COR=2.9). Families occupation being a government employee had positive association with knowledge of sign and symptoms (COR=10). Residence of students being urban had positive association with condom usage (COR=10.4)

5. Strength and Weakness of This Study

5.1. Strength

Even if confidentiality is a big issue in adolescent age response rate was interested.

5.2. Weakness of This Study

- Due to lack of resources different data quality assurance like SPSS and EPinfo were not used
- Because of the analysis was done manually it was

difficult whether there is confounder factor or not.

- Self-reported information is subjected to reporting errors, missed values & biases. Since the study touches sensitive issues the possibility of underestimation cannot be excluded.

Cross- sectional study design was used in the present study. This type of study design shows the exposure and outcome at the same point in time, so that we cannot formulate cause and effect relationship

6. Conclusion

Even if most of the respondents heard about STIs and know about STIs, till there are misconception and their practice remained quit low. Behavioral change communication and demonstration be done regularly as part of the routine service and through the out reach (school Visit) program about optional prevention and control of sexual transmission infection practice to all students who came to health institute and outreach services especially preparatory school. The main source of knowledge for respondents was radio/TV. Most of the respondents know the transmission and prevention method of STIs. There is association between father level of education, job of father & job of mother with knowledge of sign and symptom of STIs. Priority should be given for reproductive health of youths, Anti STIs clubs in school should be strengthened and Programs concerning with STIs should focus on practice, since most of the respondents aware about STIs.

Author's Contributions

AA and MW have made substantial contributions to beginning and design, collection of data, analysis and interpretation of data and in drafting the manuscripts and correcting the comment given by the advisors.

M A and MT, involved in revising the research paper and the manuscript critically for important intellectual context and approval of the final version to be published and participated in its design and coordination. He participated in the approval and funding process, participated in the design of the study participated in its design and coordination. YY, GD, FT have involved in revising the research paper and the manuscript critically for important intellectual context and approval of the final version to be published and participated in its design and coordination, had greater contribution in reviewing the manuscript English and topography. And helped to draft the manuscript.

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