Research article

Students Knowledge, Attitude and Practices on HIV/AIDS preventions. A case of Ambo University, Ambo, Ethiopia

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Abstract

Human Immune Virus and Acquired Immune Deficiency Syndrome (HIV/AIDS) are among serious health problems and obstacles of the development. Having realized the consequences, Ambo University has been making interventions to improve the knowledge, attitude and practices of student community to prevent and control HIV/AIDS. This study aimed at analyzing the level of students` knowledge, attitude and practice on prevention of HIV/AIDS; and identifying the determinants of students' knowledge, attitude and practice on the prevention of HIV/AIDS at Ambo University. Cross-sectional survey type was used for data collection using questionnaire, Focus Group Discussion, Key Informant Interview and observation; and was analyzed using descriptive statistics and econometric model. The study considered the undergraduate regular students of Ambo University as target population of the study. To avoid bias of sample respondent selection, multistage stratified sampling technique was employed to include respondents in the study from different departments and years of the study. The findings indicate that the respondents were found to be knowledgeable and had positive attitude towards preventing HIV/AIDS, though the majority were not practicing HIV prevention methods. The econometric model also revealed that class year, religion, training, PICT, interest for PICT, knowledge, condom accessibility were positively and significantly influencing practicing of HIV prevention methods. Hence, it is recommended that the university, hospital of the town, anti HIV/AIDS clubs of the university, different NGOs working on HIV/AIDS prevention and control should work synergistically for bringing the desired behavioral change on the students; and mainstreaming HIV/AIDS issues in different activities of the university.

Key words: Attitude, HIV/AIDS, Knowledge, Practices

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1. INTRODUCTION

The first evidence of HIV infection in Ethiopia was detected in 1984 and AIDS case report was made in 1986 (Tsega et al., 1988). In Ethiopia, the national adult prevalence rate is estimated at 2.3% and an estimated number of 1.2 million people are living with HIV/AIDS (USAID, 2010). With the same study report about 67,000 people lost their live due to HIV/AIDS at the end of 2007. As noted by Ethiopian Health and Nutrition Research Institute (EHNRI), (2009), in Ethiopia the prevalence of HIV/AIDS among young people of age 15–24 years was 2.6%. According to WHO/UNICEF (2006) although HIV/AIDS affects all segments of the population, young people were largely affected by this disease and young females were largely affected than young males. It is found to be the most barriers for the development of the country. As a result HIV/AIDS prevention is found to be the overriding policy agenda of the Ethiopian government. Hence, increasing the awareness, knowledge and attitude level of the people is vital measure to prevent HIV. In line with this, the Ethiopia government has made various efforts to improve the knowledge, attitude and practice level of the citizens on HIV/AIDS, of which establishing HIV/AIDS Prevention and Control Offices at national, regional levels and establishing different HIV/AIDS prevention and control units at various stages of the organizations are some endeavors to mention. Similarly, at higher learning institutions of the country there are HIV/AIDS prevention and control units that intensively work on the prevention of HIV/AIDS.

Though such efforts are made, according to Elias (2009) and Getinet (2009), AIDS incidence has been on increase and constitutes a big problem among college and university students in Ethiopia. Evidence showed that most sexual risk behaviors among college or university students might have been acquired through period of campus life mainly due to the life of independence, away from parental control, that often characterizes such setting (Teka, 1993). This indicates that students of higher learning institution including Ambo University are most likely exposed to the risk of HIV/AIDS. This fact led to emphasize on investigating the effectiveness of the existing HIV/AIDS interventions which in turn, contributes much for further improvement of the intervention. For realizing the desired prevention of HIV/AIDS in Ambo University, it was timely action to analyze the level of students' knowledge, attitude and practice on prevention of HIV/AIDS; and identify the determinants of students' knowledge, attitude and practice on the prevention of HIV/AIDS at Ambo University. In order to achieve the envisaged research objectives, the study considered the undergraduate regular students of Ambo University as target population of the study.

2. Methodology

2.1 Description of the study area

Ambo University (AU) is one of the 31 higher learning institutions in Ethiopia. It is situated in West Showa zone, Ambo town at about 114 km West of Addis Ababa on the road to Nekemt town. It was established in 1939 as an agricultural school. After frequent restructuring with different names and levels of education, it has become a full-fledged higher learning institution (university) in 2009. The university has three mandate areas such as teaching,

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research and community services. In addition, the university conducts short term trainings, and offers outreach and

consultancy services.

Presently, the university is organized into five Colleges (Agriculture and Veterinary Sciences, Business and

Economics, Natural and Computational Sciences, Social Sciences and Humanities and Medicine and Health Sciences);

three Institutes (Education and Professional Studies, Technology, and Cooperatives and Development Studies); and

one school (school of law). The university has more than 30 academic departments with 11 graduate and 38

undergraduate programs. It has also one faculty (Faculty of Business and Economics) at Woliso Campus. The

university has undergraduate and post graduate regular, continuing education, summer and winter programs. In all

programs, the university has 15,841 (male=11,972, female=3,869) students of which 8,932 (male=6,686,

female=2,246) are undergraduate regular in 2012/13 academic year.

2.1. Sampling techniques

Purposive sampling technique was employed to identify the target population of the study. Accordingly, Ambo

University undergraduate regular students were included in the study. The main reason for selecting undergraduate

regular students purposively is that in the university, frequent intervention for preventing HIV/AIDS is made with

regular students. Ambo University has three campuses (main campus, Awaro and Woliso). The study emphasized on

the main campus of the University as eight out of nine colleges/institutes/school is available in it during the study

period. To avoid bias of sample respondent selection, multistage stratified sampling technique was employed. First,

the sample respondents were stratified into colleges/institutes/school. Second, the sample respondents were

categorized into departments and year of the study. Third, the sample respondents were categorized into male and

female students. Accordingly, among seven colleges/institutes/school, three were included in the study randomly.

From each college/institute/school, two departments were also selected randomly. Finally, the sample respondent was

selected for the study through systematic sampling technique.

2.2. Sample size determination

Sample size can be determined in various ways. For this particularly study, Araoye (2004) formula was used.

According to the author, sample size can be determined by using a simple formula, provided that the total population

size is less than 10,000. If N (the entire population) is less than 10,000 the required sample size will be smaller. In

such cases, calculation of a final sample estimate (Nf) by using the following formula

Nf = n/1 + (n/N)

Nf= the desired sample size (when the population is less than 10,000)

N= the estimate of the population size

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n= the target population has homogeneity in characteristics and the desired sample size when the population is more than 10,000 is estimated to be 250. The population size (N) of this study was 8932 undergraduate students. With this

information nf is calculated as follows;

Nf= 250/(1+250/8932)=250/1.04=240

Accordingly, the total sample size for the study was 240 students. From each department, 40 students were selected

for the study. The sample size of male and female students was determined through probability proportional to size.

2.3.Data collection methods

Cross-sectional survey type was used for data collection. However, a full understanding of the complexities involved

in the survey study can only be achieved by mixing methods, such as quantitative surveys, personal interview, focus

group discussions etc. (Dick et al. 2004). Self administered questionnaire was prepared and pre-tested to make all the

necessary amendment on the questionnaire before finalizing. With close supervision, enumerators made discussion

with the selected respondents briefing the objectives of the study. Then oral consent was obtained from each

respondent. Accordingly, the required data were collected from students, HIV/AIDS prevention office and clinic in

January and February 2013.

For qualitative data, personal observations, focus group discussions and personal interviews were conducted with

stakeholders involved in the prevention of HIV/AIDS and students. Attitude was measured using the five-point

Likert-scale from (5) for strongly agree to (1) for strongly disagree. Finally, the aggregate result of the respondents on

the likert-scale was taken for the analysis. Whereas, knowledge was determined using 10 practical questions on

HIV/AIDS with responses 'True' or 'False'; and the total result of the respondents is taken for the analysis.

2.5. Methods of data analysis

To answer the stated research questions of the proposed research, the tools used for data analysis _-include

descriptive statistics such as percentages, frequencies, mean and standard deviations; and t-test and χ^2 were employed

to test the significance of continuous and discrete variables, respectively.

A qualitative method, particularly content analysis was also used to assess in depth the effectiveness of different

interventions made to increase students' knowledge, attitude and practice on HIV/AIDS. In the other way, the

combination of quantitative and qualitative methods was employed. The qualitative method gives brief description

and explanation which more clarifies the econometric model outputs.

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2.6. Variables of the study

The dependent variable of the study is a practice on the prevention of HIV. It is dummy variable and the respondents were asked whether they practice at least one of the common HIV prevention methods (use condom, faithfulness and absenteeism from sex) or not. Those whose respond are "yes" considered as practicing HIV prevention methods, whereas those whose respond are "no" was considered as non-user of HIV prevention method. Nigatu and Seman (2011) have also employed similar approach in their study.

The independent variables of the study are hypothesized as follows:

Age, continuous variable (+)

Year of the study (years of education (+)

Knowledge on HIV/AIDS (continuous variable) (+)

Attitude towards HIV/AIDS prevention (continuous variable (+)

Religion participation, dummy variable (+)

Training effort on HIV/AIDS, (dummy variable, (+)

Exposure to pornography view, dummy variable (-)

Alcohol intake, dummy variable (-)

khat chewing, dummy variable (-)

Cigarette smoking, dummy variable (-)

Provider Initiated Counseling and Testing (PICT), dummy variable (+)

3. RESULTS AND DISCUSSION

3.1. Knowledge of respondents on HIV/AIDS

The knowledge of the respondents has been tested using 10 pragmatic questions on knowledge, prevention and transmission of HIV/AIDS. The questions include: Condoms reduce the risk of getting the AIDS virus; HIV/AIDS can be transmitted via sharing syringes/needles; Absenteeism from sexual intercourse prevents HIV; It is possible to have a negative HIV blood test in the first couple of months after becoming infected with HIV; HIV can be transmitted through breast-feeding; A person can get AIDS by kissing someone; HIV can be transmitted by eating raw meat prepared by HIV infected person; HIV can be transmitted by eating uncooked egg laid by a chicken that has swallowed a used condom; Mosquito bite can transmit HIV; Keeping in good physical condition is the best way to prevent getting the AIDS virus. The respondents were made to answer the questions providing the alternatives "true or false"

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A summary of data presented in Table 1 showed that the students have been found to be knowledgeable with mean score of 7.9 and 8.1 for users and non-users, respectively. The result is consistent with reports of Shitaye et al. (2004), who found that the level of knowledge about HIV/AIDS was high among the respondents. There is significant mean difference at P<0.05 between the groups. Though the knowledge level of the respondent is above the average, the majority of the respondents were not using the HIV prevention methods. As a result of group discussion, it was mainly due to condom inaccessibility and cultural barriers. There is a cultural influence to liberally take condom from someone and use it. In the other way, the supply of condom was not accessed in the way that the students could obtain by their own.

Table 1: Knowledge and attitude of respondents on HIV/AIDS

(n=240)

Variables	User	Non-user	T-value	P
	M=7.9(1.7)	M=8.1(1.3)	2.265	0.025
Knowledge				
	M=3.2(0.59)	M=3.3(0.53)	0.851	0.396
Attitude				

M=mean, the numbers in parenthesis indicate standard deviation

3.2. Attitude of the respondents towards HIV/AIDS prevention

The attitude of the sample respondents have been measured using a five point likert scale. For the purpose, 10 items were prepared and reviewed by experts. After incorporating the expert comments, the respondents measured the items on five point likert scale. Accordingly, the mean of attitude score was 3.2 and 3.3 for user and non-user, respectively. As summarized in Table 1, it has no significant mean difference as the user and non-user of the HIV/AIDS prevention practice have similar score of attitude towards preventing and controlling HIV/AIDS. As shown in Table 2, about 86.2% of the respondents were willing to treat HIV/AIDS patient properly without discrimination. About 9.1% the respondents reported HIV/AIDS patient students needed to be treated separately. The remaining 4.7% of the respondents said HIV/AIDS patient should have a separate washing and toilet facilities in the university.

Table 2: Respondents' view towards HIV infected students

(n=240)

R. no.	Items	Percent
1	Students infected with HIV/AIDS should have separate washing	4.7
	and toilet facilities at university	
2	HIV infected students should be treated differently	9.1
3	I treat them as anyone and I do not discriminate them	86.2
	Total	100

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As indicated in Table 3, the respondents have also reported on the HIV/AIDS means of transmission. About 71.25% responded that HIV/AIDS transmits through sexual intercourse without using condom; from infected syringes (8.33%); from infected blood (11.67%). There was also misconception among the respondents in considering that HIV/AIDS can be transmitted by hugging and kissing or sharing food and classrooms (1.25%); mosquito and other insect biting, sharing common toilet (3.75%); sharing bath room and swimming pool (3.75%).

 Table 3: Respondents view on the means of HIV transmission

(n=240)

Items	Percent		
Through sexual intercourse without a condom	71.25		
From infected syringes	8.33		
From infected blood	11.67		
Hugging and kissing or sharing food and classrooms	1.25		
Mosquito and other insect biting	3.75		
Sharing common toilet, bath room and swimming pool	3.75		
Total	100		

3.3. Practices of respondents on HIV prevention

Sources of information on HIV/AIDS information were mainly electronic media and it was followed by HIV/AIDS prevention and control office, friends, and printed materials. The practices of the respondents have been seen assessed in line with the three programmatically important HIV/AIDS prevention methods (correctly use of condom during sexual intercourse, having one uninfected faithful partner and abstaining from sex). As summarized in Table 4, about 47.08% of the respondents were sexually active during the past 12 months. Of those who reported having had sex, identified the partner as university student (12.08%), sex worker (5%), high school student (13.34%), husband/wife (16.66%). Among users who reported that they have had sexual intercourse, the mean age at first sexual intercourse was 18 years, which is ranged from 14-27 years old.

Table 4: Respondents` sex partners and sexual experience during the past 12 months

(n=240)

Respondents sex partners			Sexual experiences of the past 12 months		
R. no. Partners		Percent	Percent response		
1	University Student	12.08		47.08	
2	Sex worker	5	Yes	47.00	
3	High school student	13.34			
4	Husband/wife	16.66			

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5	Had no sex	52.92	No	52.92
	Total	100	240	100

As depicted in Table 5, the majority of the respondents (64.5%) were not using condom during the past 12 months. Though the majority of students were not using HIV/AIDS prevention methods, 48.4% ranked abstinence from sex as the best method to prevent HIV/AIDS (Table 6). It followed with faithfulness (25.1%) and use of condom (19.1%). Unexpectedly, 7.4% of the respondents selected not to use any preventive methods. About 20% and 80% of the respondents were tested for HIV from user and non-user, respectively. In line with this, during the group discussion the users have shown interest in Provider Initiated Counseling and Testing (PICT) to be done twice annually as it helped the students to know themselves and take more caution to the prevention of HIV/AIDS.

Table 5: Sexually active respondents report on use of condom

			(n=240)
Use	Use of condom during the first sexual intercourse		Use of condom during the past 12 months
Re	sponse	Percent	Percent
	yes	33.7	35.5
	no	66.3	64.5
Total		100	100

The study looked into variables that may lead the students to risky behaviors such as pornographic film show, alcohol drink intake, khat chewing and cigarette smoking. The variables did not indicate variation among the respondents as almost all of them responded "not using" for the questions that are related to the variables. As a fact, FGD has been used to see the impact of the variables related to risk behaviors. The group agreed on negative impact of the variables in that the students who use the identified variables (pornographic film show, alcohol drink intake, khat chewing and cigarette smoking) less likely practice HIV prevention methods.

3.4. Conditions promoting sex exercising in the university

The study has assessed the main reasons that forced the respondents to exercise sex in the university. As indicated in Table 6, about 34.1% of the respondents reported that being out of the control of the parents was the main reason for exercising sex in the university. The remaining respondents mentioned that living outside the campus (21%), lack of students control at the dormitory (11.4%), existence of hidden areas in the university (19.2%), and for academic assistance (14.4%) were reasons for exercising sex in the university.

Table 6: Conditions promoting for exercising sex in the university

	(n=240)
Items	Percent

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Being out of the control of the parents	34.1
Living out of the campus	21.0
Lack of control whether the students regularly	11.4
live in the dormitory or not	
Existence of hidden areas in the university	19.2
For academic assistance	14.4
Total	100.0

3.5. Effectiveness of HIV/AIDS intervention

In the university various interventions have been done with the support of different organization such as National Alliance of State and Territorial AIDS Directors (*NASTAD*) Ethiopia, DKT/Ethiopia, United Nations Population Fund (UNFPA), United Nations Children's Fund (UNICEF) and Ambo University. With the support of these organizations, HIV clubs both by the students and staff of the university are working on HIV/AIDS prevention. The students anti HIV/AIDS club are working on awareness creation mainly through training, pamphlet distribution, face to face discussion, poster preparation etc. Though such efforts existed, the changes on the behavior of the students were not encouraging. In this regard, Focus Group Discussion was made emphasizing on the effectiveness of the HIV/AIDS intervention with the students, anti HIV/AIDS clubs, gender club, art club and women students association. The interventions were not in the organized way. There were piece meal approach and lacks holism. Each clubs lack rule and regulation that governs them, participation of women were found to be less. As a result, few committed individuals were accomplishing the activities of their club, which was not to the level of expectation. There was also no well-established linkage among the clubs and supporting organizations. FGD rectify that interventions bring positive impact when they are systematically planned, coordinated and has pre-determined objectives.

The students had also got HIV/AIDS training during their elementary, secondary and preparatory education period. Though such efforts were made, the desired behavioral change was not attained. In this regard, FGD was held focusing on marking out the reasons for the less number of respondents to have practiced HIV/AIDS prevention method. The main reason raised during group discussion was that the death rate reduction as a result of anti HIV drugs caused the students to overlook the severity of HIV/AIDS. The interventions were also focused on educational aspect and the others structural aspects which are also important in preventing HIV were overlooked. For instance, the anti HIV/AIDS clubs were not strengthened with human power. Likewise, it was not well coordinated as there was no binding rule and regulation. The clubs were not also cascaded to the colleges/institutes/school and to the departments. This implies that mainstreaming efforts of the activities were not progressing.

HIV/AIDS behavioral change interventions are effective when risk behaviors are reduced and PICT programs are used by the students. As summarized in Table 7 the variables related with HIV intervention such as training

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availability, condom availability, getting service of PICT and having interest to PICT have been tested using χ^2 . All the selected variables were found to be significantly different at P<0.05 except the variable getting service of PICT which is significantly different at P<0.01. It implies that making intervention with organizing training, creating easy access to condom, service of PICT, developing the interest of the students to PICT lead the respondents towards practicing HIV prevention methods.

Table 7: HIV interventions status distribution by sample respondents

(n=240)

Variables	Response	User Non-user		Total	χ^2
Training availability	No	54(38.3)	118(61.7)	192 (100)	
	Yes	9 (18.2)	39 (81.8)	48 (100)	4.768**
	No	61 (40.4)	89 (59.6)	150 (100)	
Condom availability	Yes	33 (25.4)	67 (74.6)	90 (100)	3.888**
	No	65(38.2)	105 (61.8)	170 (100)	
Getting service of PICT	Yes	14 (20)	56 (80)	70 (100)	5.337***
Having interest to PICT	No	35 (42.9)	137(57.1)	172 (100)	
	Yes	13 (18.2)	55 (81.8)	68 (100)	4.179**

() percentage **, *** significant at P<0.01; P<0.05

For the study, variables such as existence of parent follow up, mother and father education level, previous residential area, earning of pocket money, discussion about sex with mother were hypothesized to have positive impact for practicing HIV/AIDS prevention methods. However, there were no significant variations among the group.

3.6. Determinants of HIV prevention methods

Explanatory variables that are selected for econometric model would be discussed based upon the model output. Accordingly, as indicated in Table 8, 80.3 % of the total variation for the practicing HIV prevention method is explained by logistic model. The χ^2 result also shows that the parameters are significantly different from zero at P<0.01 for practicing HIV prevention method. The model correctly predicted sample size of 77.8 % and 82.1% for users and non-users, respectively. The explanatory variables that fit the model, class year, religion, training, getting service of PICT, interest for PICT, knowledge, condom accessibility were found to be significant as hypothesized,

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where as the other explanatory variable, age was insignificant. The result implies that there is no variation between users and non-users mean age.

Table 8: Logistic regression for factors influencing HIV prevention methods

					(n=240)	·
Variables	В	S.E.	Wald	df	Sig.	Exp(B)
classyear	1.157	.569	4.127	1	.042	3.180
religion	3.350	1.806	3.442	1	.064	.035
training	4.013	1.421	7.978	1	.005	55.327
PICT	2.550	.897	8.077	1	.004	12.813
interestforPICT	1.833	.992	3.413	1	.065	6.249
knowledge	.669	.298	5.049	1	.025	1.951
accesstocondom	1.923	.917	4.399	1	.036	6.845
age	.245	.183	1.788	1	.181	.782
Constant	-11.622	5.685	4.179	1	.041	.000

 $^{-2 \}log likelihood = 51.554,$

$$\chi^2 = 37.748***$$
, Predicted user = 77.8 %

Non-user 82.1%, Over all = 80.3%

The explanatory variables that were significantly influencing practicing HIV prevention method are discussed as follows;

Class year (classyear). As the class year of the students increase, the students get more exposure and understanding about HIV/AIDS means of transmission and prevention methods. It was found to be statistically significant at P<0.05. The odds in favor of practicing HIV prevention method increased by a factor of 3.180 for students who attended higher class year compared to first year students.

Religion — attending religion service regularly found to be statistically significant at P<0.1. The odds in favor of practicing HIV prevention method increased by a factor of .035 for students who attended their religious service had favorable attitude on HIV/AIDS prevention methods than those who did not attend the religious service. The result is supported by earlier study of (Nigatu and Seman, 2011) who investigated that religious service attendance was found to be the highest significant factor where respondents who attend the religious service were positively associated with attitudes of HIV prevention.

Getting service of PICT (PICT) - the students who got the service of PICT more opt for practicing HIV prevention methods. It is also statistically significant at P<0.01. The odds in favor of practicing HIV prevention

^{*, **, ***} significant at p<0.1, p<0.05, and p<0.01

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method increased by a factor of 12.813 for students who got the service of PICT compared to those students who did not get the service of PICT. During the group discussion, the group also agreed on getting the PICT service twice annually as it assisted the students to know themselves and take more caution on the prevention of HIV/AIDS.

Interest for PICT (interestforPICT)- the students who developed interest to get the service of PICT more opt for practicing HIV prevention methods. It is statistically significant at P<0.1. The odds in favor of practicing HIV prevention method increased by a factor of 6.249 for students who had interest to get the service of PICT compared to those students who had no interest to get the service of PICT.

Condom accessibility (accesstocondom)- making the accessibility of the condom in the way that the students get by their own increase the practicing of HIV prevention methods. As anticipated, condom accessibility affected practicing of HIV prevention method positively and significantly at P<0.05, The odds in favor of practicing HIV prevention method increased by a factor of 6.845for students who easily got condom compared to those students who did not get condom easily. During the FGD inaccessibility of condom was also raised by the group. There is a cultural influence to liberally take condom from someone and use it. As a fact the group suggested self accessed mechanism to be designed in the university for instance making it available around the dormitory.

Knowledge – practicing HIV prevention method needs knowledge on means of transmission. It is statistically significant at P<0.05, the odds in favor of practicing HIV prevention method increased by a factor of 1.951 for students who had better skill on HIV/AIDS prevention methods. The result also agrees with Shitaye *et al.*(2004) Teka (1993) and Teka (1997). The group discussion was also held with group members of 6-8 students. The theme of the discussion was "how the students understand the severity of HIV/AIDS and respond to its prevention and control." Through the course of discussion, it was identified that the students have knowledge on the incurability and the most destructiveness of the disease. The students have also favorable attitude towards HIV prevention. However, their knowledge on the disease did not lead them to practice HIV/AIDS prevention methods.

Training – training increases the knowledge of students on practicing HIV prevention method as they get more access to information. It also increases the understanding on the means of HIV transmission which, in turn, helps to easily apply the practices. As hypothesized, training influences practicing of HIV prevention method positively and significantly at P<0.01 %, the odds in favor of practicing HIV prevention method increased by a factor of 55.327for students who had more training opportunity. The result is also supported by earlier studies of Harding (1999). As of the FGD, different interventions have been made to prevent and control HIV/AIDS, though practicability of using HIV prevention methods is not found to be sound. For instance, training has been offering frequently by DKT Ethiopia and students` anti HIV/AIDS club of the university. The desired behavioral change was not observed on the majority of the students. In this regard, one of the participants of the group discussion said "One of the main reasons

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for not to see the real change on the behavior of the student is that during the training it is not offered in the way that the student inculcates it easily. It seems teasing and the student takes it for recreational purpose." The approach of the training should be in the way that the students take seriously. The training should be offered by professionals that have more experience on HIV/AIDS prevention and control. The training should also be organized soon the joining of the students at the university.

CONCLUSION

HIV/AIDS is one of a serious health problems and an obstacle of the development. As a result, at Ambo University various interventions have been done with the support of different organization such as National Alliance of State and Territorial AIDS Directors (*NASTAD*) Ethiopia, DKT/Ethiopia, United Nations Population Fund (UNFPA), United Nations Children's Fund (UNICEF) and Ambo University. With the support of these organizations, HIV clubs both by the students and staff of the university are working on HIV/AIDS prevention. The students anti HIV/AID club are working on awareness creation mainly through training, pamphlet distribution, face to face discussion, poster preparation etc. Though such efforts were made, the changes on the behavior of the students were not encouraging. Hence, the following recommendations are given.

The interventions made on HIV/AIDS were not in the organized way. It needs well established linkage among the anti HIV/AIDS clubs, hospital of the town and supporting organizations i.e. working synergistically to bring positive impact. Continuous assessment on the impact of the interventions is also needed for obtaining immediate feedback and reacts accordingly.

Different anti HIV/AIDS clubs needs to be cascaded and mainstreamed to the colleges/institutes/school and the departments. The supply of the condom needs to be more accessible i.e. self accessed mechanism has to be designed in the university for instance making it available around the dormitory.

Training is the best tool in inculcating knowledge, skill and attitude. As a fact, the training should be offered by professionals that have more experience on HIV/AIDS prevention and control. The training should also be organized soon the students joining of the university. Education of HIV/AIDS needs to be emphasized commencing elementary school i.e. before exercising sex.

The interventions should not only focus on educational aspect but also on others structural aspects which are also important in preventing HIV i.e. strengthening the anti HIV/AIDS clubs with human power; cascading the activities to different units.

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