

ORIGINAL RESEARCH

# Intention toward condom use and its associated factors among students of Debre Work Senior Secondary and Preparatory School, East Gojjam Zone, Amhara Region, Ethiopia

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Department of Nursing and Midwifery, School of Allied Health Sciences, Addis Ababa University College of Health Sciences, Addis Ababa, Department of Public Health, College of Health Scienc, Debre Markos University, Debre Markos, Ethiopia **Objective:** The main aim of this research was to investigate the students' intention toward condom use and associated factors among students in Debre Work Secondary and Preparatory School, 2015.

**Methods:** A survey was carried out in the high school and the preparatory school. The self-administered semistructured questionnaire was distributed to 422 students. Systematic sampling techniques were employed to each class. Data were entered and analyzed by using SPSS version 20.0 software. Descriptive and analytical data analysis and presentation were used. Logistic regression model was used to check independent associations.

**Result:** Most (80.8%) of the respondents were not married. More than half (53.0% and 52.3%) of the respondents had low perceived benefit and low perceived self-efficacy of using condom. About 46.79% of respondents had an interest in using condoms and the rest had no intention. Males were 1.96 times more likely to have intention to use condom compared to females (adjusted odds ratio [AOR], 95% confidence interval [CI] 1.96 [1.29, 2.99]). When the intention to use condoms was compared, married respondents were 2.41 times more likely than those who were not married (AOR, 95% CI 2.41 [1.41, 4.14]). Intention to use condoms among respondents who had high perceived benefit of using condom were 1.57 times more compared to those who had low perceived benefit of using condom (AOR, 95% CI 1.57 [1.03, 2.39]). Intention to use condoms among those who had high perceived self-efficacy on condom use was 4.37 times higher compared to those who had low perceived self-efficacy (AOR, 95% CI 4.37 [2.85, 6.71]). **Conclusion:** The level of intention to use condoms among students of Debre Work Senior Secondary and Preparatory School was low. Sex, current marital status, perceived benefit of using condom, and perceived self-efficacy on condom use were the most positive contributing factors for intention to condom use.

Keywords: condom, intention, high school students, health belief model condom use, HIV risk

# **Background**

According to The United States Agency for International Development *Global Report on the Global AIDS Epidemic*, condom use is the basic means for protecting against HIV/AIDS and other sexually transmitted infections (STIs). Making condoms more accessible, lowering the cost of condoms, promoting awareness extensively, and helping to overcome social and personal obstacles that limit the use of condoms are some of the widely advocated strategies that can be used to prevent loss of life due to HIV/AIDS. It is scientifically undisputed that the transmission of HIV during sexual intercourse can be prevented when condoms are used correctly and consistently. Condom

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use is still too low, despite decades of promotion for use in the prevention of STIs.<sup>2</sup>

HIV-related behavioral change programs have been measured against the outcomes of reduction in the number of young people initiating sexual intercourse early, the number of sexual partners, and the increase in correct and consistent use of condoms among people who are sexually active.<sup>3,4</sup>

The Ethiopian Ministry of Health report on HIV/AIDS/STIs Behavioral Surveillance Survey indicated that condom use among young people is determined by individual and social factors. Perceived self-efficacy is one of the individual factors that can influence condom use. It is a concept derived from social cognitive theory and is considered as a factor that could potentially lead to health-related behavioral change. Perceived self-efficacy is defined as the confidence in one's ability to exhibit motivation and capability to achieve a given goal.<sup>5</sup>

#### Statement of the problem

There are several wide-reaching studies on knowledge, attitude, and practice of preparatory students toward AIDS. Preparatory students (grades 11 and 12, age range 18–22 years) are often viewed as being at high risk for HIV because of their propensity to engage in exploratory behavior, their need for peer social approval, and their sense of nonvulnerability. It is known that no intervention aimed at changing behaviors to promote health can be 100% effective; however, there is no question that the prevention programs through behavioral change work and remain the best and most cost-effective approach.

Where curable STIs exist in a population, so does the potential for HIV. Worldwide, over 300 million new cases of curable STIs occur annually, with a regional distribution similar to that of HIV. STIs increase a person's risk of acquiring HIV. Correct and consistent condom use, and other behaviors to limit exposure to infections can prevent STIs, especially HIV. While societies and their governments may view the promotion of condom use as a means to reduce rising rates of HIV prevalence, the main reason for promotion is to offer individuals one of only three possible means of 99% effective protection from sexual infection. HIV/AIDS prevention efforts that do not include condoms as an option are incomplete and ultimately ineffective.<sup>7,8</sup>

A high rate of sexual experiences and low tendency of condom use were observed in some studies among students in Ethiopia. A Gondar College of Health Sciences study revealed that out of 383 students, 56.1% were sexually active. Among the sexually active students, only 37.1% reported ever using a condom, and of them consistent use was reported by only 6.4%, 9 whereas a study among Agaro high

school students showed that 25% of the students had sexual intercourse experiences. Among those who had previous sexual exposure, more than half of the respondents, 54.4%, had experiences of using a condom, of which 46.9% were always using a condom.<sup>10</sup>

A survey conducted among high school students in Addis Ababa has shown that 48% of students had knowledge about HIV/AIDS prevention and only about 15% of them were informed about various types of STIs. Another study conducted to assess the prevalence of HIV among high school and college students attending clinics for STIs in Addis Ababa showed a 19% positivity.<sup>11</sup>

In Ethiopia, there is lack of compressive information on factors that influence intention to use condoms that is based on behavioral change models. The Health Belief Model is a change framework that addresses several constructs influencing health behaviors such as condom use. Thus, it is an effort to consolidate the existing knowledge, actual condom use, and future intention to use condoms, which will be comprehensively seen by one of the behavior models, namely the Health Belief Model.<sup>12</sup>

## Significance of the study

One of the key methods of HIV prevention is the use of condoms during all types of sexual intercourse, despite the fact that the government has implemented different programs to educate people regarding HIV/AIDS, STIs, and unwanted pregnancies, (the possible consequences of unsafe sex), and different preventive methods. Free condoms are made available by governmental health institutions throughout the country. Therefore, this study will be used to know the students' intention toward condom use and will be used as a baseline for further research. The result can be used to strengthen existing HIV prevention programs working toward 100% condom use among students. The data can be valuable for policy makers, managers at different levels, different stakeholders, the education sector, the community, and the family.

# Objective of the study

The aim of the study was to assess the intention to use condom and associated factors among students in Debre Work Senior Secondary and Preparatory School, East Gojjam, Amhara region, 2015.

#### **Methods**

#### Study design and area

A school-based cross-sectional study design was carried out in February 2015. The study was conducted in Debre Work

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Senior Secondary and Preparatory School, Enarji Enawuga Woreda, East Gojjam zone, Amhara, Ethiopia. In this district there is one senior secondary and preparatory school with the total number of registered students in the 2014/2015 academic year of 3,674.

## Study population

Students in Debre Work Senior Secondary and Preparatory School in the academic year of 2014/2015 in the regular program, and who had been selected by the sampling procedure were the study populations of this study. Students in the age group of <15 years were excluded.

## Sample methods

A single population proportion formula was employed to calculate the sample size by considering an assumption that the proportion of students who intended to use condoms (P), which was taken from a study in Agaro High school, Ethiopia, in 2001, was 49%. The level of significance ( $\alpha$ ) was taken to be 0.05 (Z-value of 1.96 at 95% confidence interval); the marginal error (d) was taken to be 5%, and nonresponse rate was assumed to be 15%. Therefore, the final total sample size, considering 15% (58) nonresponse rate, was 442. Systematic random sampling was used to select the study subjects considering the sampling interval (K), the total source population (N=3,674) divided by the final total sample size (n=442), that is,  $N/n=3673/442\approx8$ . Randomly, the fifth student was selected according to the bench arrangement from the first section (section A) of grade 9 as the first sample, then every eighth student was taken to the last section of grade 12 till the final total sample size. When a student was absent from his/her bench during the time of data collection, revisit was done up to 3 consecutive days. Student participation was voluntary.

# Variables of the study

The dependent variable was intention to use condoms; and the independent variables were sociodemographic, age, sex, religion, marital status, grade level, educational status of parents, currently living with family, having father alive, having mother alive, knowledge about the use of condoms and HIV/AIDS, attitude regarding condoms and HIV/AIDS, and past sexual experience.

# **Operational definitions**

#### Students' intention to use condoms

Regardless of their past sexual experience the students were assessed for their intention to use a condom in their next

sexual encounter, using the following item: "I intend to use a condom at the next sexual intercourse." Responses were arranged from strongly agree to strongly disagree on a 5-point scale. The responses were categorized as intention to use a condom or not. The neutral response was categorized to the no intention to use scale.

#### Students' perceived susceptibility

Students were asked regarding perceived susceptibility to HIV/AIDS. Items such as "I am at low risk for HIV infection" and "I am too young to get an HIV infection."

## Students' perceived severity

Students were asked questions regarding perceived severity of the HIV/AIDS virus. Items such as "If I had an HIV infection, my family relationships would be strained" and "If I got AIDS, I would eventually die from it."

## Students' perceived benefits

An item that suggests among other things that condom use is an effective way of preventing the transmission of the AIDS virus.

#### Students' perceived barriers

An item that suggests that buying or using condoms is embarrassing or expensive, and indicates mistrust.

# Self-efficacy

Items such as "confidence to use a condom in the middle of sexual excitement" and "high confidence in using a condom in different situations such as after alcohol use" were included.

A sum score was constructed by adding the items corresponding to each variable and dichotomized into low and high. The variable score less than or equal to the mean score was considered low, whereas that greater than the mean score was high. The response options for each item in the variables were on a 5-point Likert scale ranging from "strongly disagree to strongly agree."

# Data collection method, quality, and analysis

A semistructured, self-administered questionnaire was prepared, adapting from different literatures. The questionnaire was prepared in English, translated to Amharic, and then translated back to English to check for consistency. Data were collected by four diploma-graduated nurses, and two supervisors participated during the data collection.

Training was given to data collectors and supervisors for half a day on the content of the tool. Before going to data collection, pretest was done on 45 students in Bichena Senior Secondary and Preparatory School. After pretest, adjustments were made to a few questions on problems related to the meanings of variables, and time that needs to be taken was also adjusted. During data collection, the principal investigators and the supervisors supervised appropriately. The principal investigators monitored and evaluated the data collection procedure. The data were entered and analyzed using SPSS version 20.0 statistical package. Data cleaning was performed to check for frequencies, accuracy, consistencies, and missed values and variables. Variables with a p-value of  $\leq 0.3$  in the bivariate analysis were considered for multivariate analysis. Logistic regression analysis was done. A p-value of 0.05 was considered to declare independent association. Results were displayed in text, graphs, and tables.

#### Ethical consideration

Ethical clearance and letter of support was obtained from the Ethical Review Committee of Medicine and Health Sciences College, Debre Markos University. Permission to conduct the study was obtained from the school administration and students' parent representatives. Informed consent was obtained from students aged ≥18 years old, and for those students <18 years old consent was obtained from the schools representative families as well as assent from the student. Each data collector and supervisor received a copy of the permission letter from the school management. The confidentiality of the participants' response was maintained by eliminating their names from the questionnaire.

#### Results

# Sociodemographic result

From the total 442 study participants only 421 completed the questionnaire; this makes the response rate 95.3%. The age of respondents ranged from 15 to 24 years with a mean  $\pm$  SD age of 18.34 $\pm$ 1.71 years. More than half, 51.8%, of the respondents were male. Most (80.8%) of the respondents were not married and 19.2% were married. Most (95.5%) of the respondents were orthodox in religion and 4.5% were protestant. More than half, 51.8%, of the respondents' mothers' educational level was at cannot read and write, whereas 49.7% of their fathers could read and write (Table 1).

# Knowledge, attitude, and practice of condom use

Almost two-thirds (65.6%) of the respondents had sufficient knowledge on condom use and HIV/AIDS, and most (91.9%)

Table I Sociodemographic result of respondents at Debre Work Senior Secondary and Preparatory School

Variable	Number (N=421)	Percent	
Sex			
Male	218	51.8	
Female	203	48.2	
Age (years)			
15–19	297	70.5	
20–24	124	29.5	
Current marital status			
Married	81	19.2	
Not married	340	80.8	
Religion			
Orthodox	402	95.5	
Protestant	19	4.5	
Currently living with family			
Yes	308	73.2	
No	113	26.8	
Have father alive			
Yes	366	86.9	
No	55	13.1	
Educational level of father alive (n=366)			
Cannot read and write	97	26.5	
Can read and write	182	49.7	
Grade I-4	43	11.7	
Grade 5–8	18	4.9	
Grade 9–12	20	5.5	
Above grade 12	6	1.6	
Have mother alive			
Yes	398	94.5	
No	23	5.5	
Educational level of alive mother (n=398)			
Cannot read and write	206	51.8	
Can read and write	107	26.9	
Grade I-4	44	11.1	
Grade 5–8	13	3.3	
Grade 9–12	24	6.0	
Grade > 12	4	1.0	

of the respondents had good attitude toward condom use and HIV/AIDS. One-seventh (14.3%) of the respondents had ever had sexual intercourse. The age of first sex of these respondents ranged from 10–23 years with a mean  $\pm$  SD age of 17±3.09 years. From those respondents who had ever had sex, more than two-thirds (38.3%) had used a condom, and among these, almost half (52.2%) used a condom "sometimes" during sex (Table 2).

# Health Belief Model constructs and intention to condom use

Most (88.1%) of the respondents had low perceived susceptibility to HIV. About 53.0% of the respondents had low perceived benefit of using condom. Slightly higher than half (52.3%) of the students had low perceived self-efficacy on

**Table 2** Knowledge-, attitude-, and practice-related results of respondents at Debre Work Senior Secondary and Preparatory School

Variable	Number (N=421)	Percent
Knowledge on condom use and HIV/AIDS		
Sufficient knowledge	276	65.6
Insufficient knowledge	145	34.4
Attitude toward condom use and HIV/AIDS		
Good attitude	387	91.9
Poor attitude	34	8.1
Have ever seen a condom		
Yes	322	76.5
No	99	23.5
Have ever practiced sexual intercourse		
Yes	60	14.3
No	361	85.7
Age at first sex (years) (n=60)		
10–14	8	13.3
15–19	43	71.7
20–24	9	15.0
Number of sexual partners (n=60)		
Only one	50	83.3
Two and above	10	16.7
Condom used during sex (n=60)		
Yes	23	38.3
No	37	61.7
Frequency of using condom during sex (n=23)		
Sometimes	П	47.8
Regularly	12	52.2

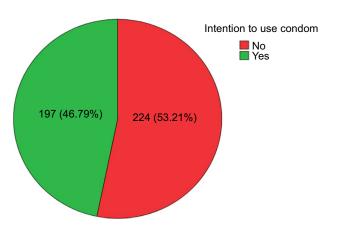
condom use (Table 3). Less than half (46.8%) of them had intention to use condom (Figure 1).

#### Determinate of intention to use condom

The multivariate logistic regression that controls the undesirable effect of confounding variables was used and the method was backward (unconditional). All the eight covariates (sex, current marital status, attitude toward condom use and HIV/ AIDS, have ever seen condom, have ever practiced sexual intercourse, perceived benefit of using condom, perceived threat of not using condom, and perceived self-efficacy on condom use) that were significant at the bivariate analyses were entered simultaneously to see the relationship with the dependent variable. Only four of the most contributing factors were statistically associated at 0.05 level of significance and were independently associated with intention to use condom. Men were 1.96 times more likely to have intention to use condom compared to females (adjusted odds ratio [AOR], 95% 1.96 [1.29, 2.99]). The intention to use condom among married respondents was 2.41 times more compared to those who were not married (AOR, 95% CI 2.41 [1.41, 4.14]). The condom use intention among

**Table 3** Result on Health Belief Model constructs of respondents at Debre Work Senior Secondary and Preparatory School

Variable	Frequency (N=421)	Percent
	(N=421)	
Perceived susceptibility to HIV		
High	50	11.9
Low	371	88.1
Perceived severity of HIV/acquired imm	une deficiency syn	drome
High	163	38.7
Low	258	61.3
Perceived benefit of using condom		
High	198	47.0
Low	223	53.0
Perceived barriers to condom use		
High	98	23.3
Low	323	76.7
Perceived threat of not using condom		
High	105	24.9
Low	316	<b>75.</b> I
Perceived self-efficacy on condom use		
High	201	47.7
Low	220	52.3



**Figure 1** The level of intention to use condom of respondents at Debre Work Senior Secondary and Preparatory School.

those with high perceived benefit of using condom was 1.57 times more compared to those who had low perceived benefit of using condom (AOR, 95% CI 1.57 [1.03, 2.39]). Respondents who had high perceived self-efficacy on condom use were 4.37 times more compared to those who had low perceived self-efficacy (AOR, 95% CI 4.37 [2.85, 6.71]) (Table 4).

#### Discussion

Almost two-thirds (65.6%) of the respondents had sufficient knowledge on condom use and HIV/AIDS. Additionally, 91.9% of the respondents had good attitude toward condom use and HIV/AIDS. However, a result found by Abraha and Berhanu<sup>13</sup> among secondary school students in Mekelle City (Ethiopia) showed that both knowledgeable students and

**Table 4** Result of multivariate analyses (factors associated with intention to condom use) among respondents at Debre Work Senior Secondary and Preparatory School

Independent variable	Intention to use condom (N=421)		Corrected odds	Adjusted odds	p-value
	Yes, n (%)	No, n (%)	ratio (95% CI)	ratio (95% CI)	
Sex					
Male	121 (55.5)	97 (44.5)	2.09 (1.41, 3.08)	1.96 (1.29,2.99)	0.002
Female	76 (37.4)	127 (62.6)	1.00	1.00	
Current marital status					
Married	48 (59.3)	33 (40.7)	1.87 (1.14, 3.05)	2.41 (1.41, 4.14)	0.001
Not married	149 (43.8)	191 (56.2)	1.00	1.00	
Perceived benefit of using condom					
High	108 (54.5)	90 (45.5)	1.81 (1.23, 2.66)	1.57 (1.03, 2.39)	0.036
Low	89 (39.9)	134 (60.1)	1.00	1.00	
Perceived self-efficacy on condom use					
High	130 (64.7)	71 (35.3)	4.18 (2.78, 6.29)	4.37 (2.85, 6.71)	< 0.001
Low	67 (30.5)	153 (69.5)	1.00	1.00	
Attitude toward condom use					
Good	185 (47.8)	202 (52.2)	1.68 (0.81, 3.49)	1.63 (0.73, 3.62)	0.24
Poor	12 (35.3)	22 (64.7)	1.00	1.00	
Have ever seen a condom					
Yes	162 (50.3)	160 (49.7)	1.85 (1.16, 2.95)	1.35 (0.77, 2.36)	0.29
No	35 (35.4)	64 (64.6)	1.00	1.00	
Perceived threat of not using condom					
High	56 (53.3)	49 (46.7)	1.42 (0.91, 2.21)	1.23 (0.76, 2.01)	0.39
Low	141 (44.6)	175 (55.4)	1.00	1.00	
Have ever had sexual intercourse					
Yes	33 (55)	27 (45)	1.47 (0.85, 2.54)	1.03 (0.55, 1.93)	0.93
No	164 (45.4)	197 (54.6)	1.00	1.00	

those having good attitude on condom use was at 70%. Even if the difference is not high, this little difference might be due to measurement difference (this study used Likert scale to measure knowledge and attitude).

In this study, about 14.3% of the respondents had ever practiced sexual intercourse. However, three studies that had been conducted by Belaineh et al<sup>10</sup> at Agaro High School, Gebreselassie et al<sup>14</sup> at Agena Preparatory School, and Abraha T<sup>13</sup> et al at Mekelle Secondary School showed that the proportion of students who had practiced sexual intercourse was 25%, 27.1%, and 26.3%, respectively. This difference might be due to the difference in cultural norm, because the study areas are in different regions of the country.

The finding of this study showed about 38.3% of the respondents who had ever had sex used a condom. This finding is in line with the finding by Yohannis et al<sup>9</sup> at Gondar (37.1%), but lower than the three studies conducted by Belaineh et al<sup>10</sup> at Agaro High School, Gebreselassie et al<sup>14</sup> at Agena Preparatory School, and Abraha et al<sup>13</sup> at Mekelle secondary school with condom use result of 54.4%, 63.1%, and 75%, respectively. This difference could be related to study knowledge difference and lack of access.

Less than half (46.79%) of the respondents had intention to use condom. This finding is almost in line with the finding

by Belaineh et al<sup>10</sup> at Agaro High School (49%). However, it is high relative to the finding by Gebreselassie et al<sup>14</sup> at Agena Preparatory School (33.3%). The difference might be due to the difference of the measurement (this study used Likert scale) and may also be due to cultural differences.

The finding of this study shows that men have intention to condom use. However, sex was not an independent factor for intention to condom use in other literatures. 9,10,14 The finding in this research might be due to cultural influences; men might have also high exposure for condom use to develop confidence compared to their counterparts.

Marriage was not an independent factor for intention to use condom in other literature. 9,10,14 However, married respondents in this study have intention to use condom. The finding in this research might be due to married respondents possibly having high exposure to sexual intercourse and wanting to use condom as an option for family planning.

Similarly, perceived benefit of using condom was not statistically significant in other literature. 9,10,14 But the finding of this study showed that respondents with high perceived benefits of condom use have intention to use condom. This might be due to that those who perceive highly on the benefit of condom use to prevent HIV/AIDS possibly having more awareness about it.

Respondents had high perceived self-efficacy on condom use, which is in line with Gebreselassie et al<sup>14</sup> at Agena Preparatory School.

#### **Conclusion**

The level of intention to condom use among students of the senior secondary and preparatory school was low (46.79%). Sex, current marital status, perceived benefit of using condom, and perceived self-efficacy on condom use were the most positive contributing factors for intention to condom use.

#### Recommendation

# To the senior secondary and preparatory school management and staff

The senior secondary and preparatory school management and staff should design strategies to increase the students' intention to use condoms. Specifically, much effort should be made on students who are not married as well as on female students of senior secondary and preparatory school.

#### To health office and health centers

The district health office and health centers should design strategies and do more on perceived benefits of using condom and perceived self-efficacy on condom use for senior secondary and preparatory school students.

# To concerned non-government organizations on condom use

Concerned NGOs on condom use like DKT Ethiopia should play an active role integrated with the senior secondary and preparatory school management and staff, the district health office, and health centers on intention to use condom.

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#### **Author contributions**

All authors contributed toward data analysis, drafting and critically revising the paper and agree to be accountable for all aspects of the work.

#### **Disclosure**

The authors report no conflicts of interest in this work.

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