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Sexual and Reproductive Health Services Utilization and Associated Factors Among Preparatory School Students in Mecha District, Northwest Ethiopia: Cross Sectional Study



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Abstract

Background: Most of adolescents' sexual and reproductive health problems can be alleviated through sexual and reproductive health services. However, information about the level of sexual and reproductive health services utilization is limited. Additionally, the level of service utilization varies from place to place. Therefore, this study aimed to assess sexual and reproductive health services utilization and its associated factors among preparatory school students in Mecha district, northwest Ethiopia.

Methods: Institutional based cross-sectional study was conducted on September, 2015 among preparatory school students. The data were entered into Epi Info version 3.5.1 and transferred to SPSS version 20 for analysis. Descriptive, bivariate and multivariable analyses were done. Odds ratio with 95% confidence interval were used to assess the presence and the strength of association.

Results: Reproductive health services utilization among preparatory school students in Mecha district was 18.4% (95%CI: 15.2%-21.9%). In the pooled multivariate analysis, having employed mother, having discussion with their families on sexual matters, having sexual exposure, and involving in school sexual and reproductive health clubs or school mini-media were significantly associated with sexual and reproductive health services utilization. Having personal income or pocket money was an additional factor which was positively associated with sexual and reproductive health service utilization among male adolescents but not statistically significant among female adolescents.

Conclusion: In this study, utilization of sexual and reproductive services by preparatory school students was low. Parents, school staffs, and health professionals have great impact on adolescents' sexual and reproductive health service utilization.

Keywords: Reproductive health; Students; Utilization; Ethiopia

Abbreviations: AIDS: Acquired Immuno-Deficiency Syndrome; AOR: Adjusted Odds Ratio; BOFED: Bureau of Finance and Economic Development; BSc: Bachelor Science; EDHS: Ethiopian Demographic and Health Survey; HIV: Human Immuno-deficiency Virus; ICPD: International Conference for Population and Development; SRH: Reproductive Health; SRH: Sexual and Reproductive Health; STI: Sexually Transmitted Infection; SD: Standard Deviation; UN: United Nation; USD: United State Dollar; WHO: World Health Organization

Introduction

Adolescent is an individual aged from 10-19 years. Adolescence is a period of transition from childhood to adulthood. There are more than 1.2 billion adolescents in world and most of them are living in developing countries. Globally, around 25% (more than 1.8 billion) of world population are young, aged 10-24 years. The proportion is high in developing countries. In Ethiopia, they account 35% of the total population [1].

Adolescence, when major physical and psychosocial changes occur, is both a time of opportunity and risks [2]. Though most adolescents are healthy, there is a significant number of adolescent deaths, illness, and diseases. Sexual and reproductive health problems due to unprotected sex attribute

a significant proportion of adolescent morbidities and mortality [3]. These SRH problems include Human Immuno-deficiency Virus (HIV) infection, other sexually transmitted infections, and complications of pregnancy, childbirth and abortion. Adolescent boys and girls are disproportionately affected by HIV more importantly in developing countries like Sub-Saharan countries [3,4]. All these problems can be preventable through sexual and reproductive health services up take. Though the level of the problem varies from place to place, different studies noted that adolescents/youths have experienced social, psychological, and accessibility (financial, geographical, and cognitive) problems that hinder the uptake of SRH services when the need arises [5-8].

Youth-friendly services should be accessible, acceptable and appropriate to the needs of young people. The World Health Organization (WHO) definition of youth-friendly services requires that such services should be in the right place, at the right time, at the right price and delivered in the right style to be acceptable to young people. In addition, the services should be effective, safe and able to meet the individual needs of young people - who will then return when they need to and recommend these services to friends [4].

Many countries have given due attention to the problems of youth and adolescents after the declaration of international year of youth by United Nation (UN) in 1985 and the Cairo1994 International Conference for Population and Development (ICPD). The accessibility to and utilization of sexual and reproductive health services among youths are a global concern [9]. A range of comprehensive SRH services being provided for youths and adolescents in Ethiopia are: information and counseling on SRH issues, and sexuality, family planning counseling and methods, condom promotion and provision, pregnancy tests, HIV counseling and testing, management of sexually transmitted infections, antenatal care, delivery services, postnatal care, prevention of mother to child transmission of HIV, abortion and post abortion care [10,11]. Government of Ethiopia has given attention and is working to address the various sexual and reproductive health needs of adolescent and youths by increasing accessibility of and promoting youth friendly health services in every health center.

However, there is limited information regarding the level of sexual and reproductive health services utilization and factors associated with service utilization in the study area and even in Ethiopia. Additionally, big variation was observed on the level of SRH service utilization from place to place in Ethiopia (80.5% in Madawalbu [12] and 21.5% in east Gojjam [8]). Therefore, it was important to conduct a study to assess sexual and reproductive health services utilization and associated factors among preparatory and high school students in Mecha district, northwest Ethiopia and came up with recommendations. Which in turn is important to design strategies and to take appropriate interventions.

Methods

Study design, study area and period

Institution based cross sectional study was conducted to assess the sexual and reproductive health services utilization and associated factors among preparatory school students. The study was conducted on September 2015 in Mecha district, northwest Ethiopia. It is located 529Km far from Addis Ababa (capital city of Ethiopia) to northwest. According to the Amhara regional bureau of finance and economic development (BOFED) 2015 report, the district has 46 Kebeles (6 urban and 40 rural) with a total of 370,032 population.

Study population

All preparatory school youth students at Mecha district were

the study population. Students who attend their academy at least for six month in the district school were included in the study.

Sample size determination and Sampling procedure

The sample size was computed by using single population proportion formula for the first objective by considering the following assumption: Prevalence of SRH service utilization =32% (a study done in Bahir Dar), level of significance (a) = 5%, 4% marginal error, and 10% for non-response rate, the sample size was 574. For the second objective, the sample size was determined by using Open Epi software by considering the above assumptions. Since all the sample size computed for the second objective were less than the sample size calculated for the first objective, 574 was taken as a final sample size.

In Mecha district, there was only one preparatory school having a total of 2453 students. The sample size was proportionally allocated to grade 11 students (318 from 1359) and 12 students (256 from 1094). By taking the list of all students in each grade, the investigators developed sampling frame. Then simple random sampling technique (computer generated random sampling) was used to select the study participants from each grade.

Operational definitions

SRH Service utilization: Utilization of one or more of the following sexual and reproductive health services: HIV counseling and testing, STI screening and treatment, family planning counseling and contraceptive use, life skill education, condom use, abortion service, and perinatal services within the last one year.

Knowledge on sexual and reproductive health services: Those who mention at list two SRH services and at least one source of SRH services.

Sexual exposure/practice: Having at least one sexual contact within the last one year.

Data collection

The questionnaire was first prepared in English and then translated to local language, Amharic, and re-translated back to English by language experts. Four diploma nurses for data collection and one Bachelor Science (BSc) nurse for supervision were recruited and were given training on the tool and the procedure by investigators. The tool was tested on 30 in school students at Bahir Dar city. Some modification was made on the tool after the pretest.

The data collectors obtained the consent after they read the information sheet and then they requested students to give the required information. Data on demographic factors, socio-economic factors, sexual and reproductive health related information and behavior, and sexual and reproductive health service utilization were collected using self-administered questionnaire. The supervisor and investigators supervised the data collection process.

Data processing and analysis

The data were checked manually for completeness first and be coded. Questionnaires which were incomplete for major variable/s have been excluded from the study. The data were entered in to EPI Info version 3.5.1 and were transferred to SPSS version 20 and STATA version 14 for analysis. Descriptive statistics was done to describe the study participants. Binary logistic regression model was used to analyze the data. Firstly, bivariate analysis was employed to see the association of each variable to the outcome variable. Two multivariate analysis models were used to see the independent effect of each explanatory variables with the outcome variable. The first multivariate analysis model was a pooled analysis to identify the factors associated with sexual and reproductive health service utilization in the overall study population while the second multivariate analysis model was to identify factors associated with the outcome variable stratified by sex/gender. In multivariate analysis, variables having P-value less than 0.05 were considered as significantly associated with the outcome variable. Adjusted odds ratio (AOR) with 95% CI was used to determine the presence and the strength of association.

Ethical considerations

Ethical clearance was first obtained from of University of Gondar, College of Medicine and the Health Science, Institute of Public Health, Institutional Review Board (IRB). Support letter was obtained from the Amhara Regional Education Bureau and then from Mecha district education office and permission was obtained from Merawi preparatory school director office. Informed consent/assent was obtained before conducting data collection. They were also informed about their right not to participate or withdraw from the study at any time. The data were collected anonymously so as to keep the confidentiality of the information.

Results

Demographic and socioeconomic characteristics of the study participants

Table 1: Demographic and socioeconomic characteristics of preparatory school students in Mecha district, northwest Ethiopia, 2015.

Variable		Frequency (n=565)	Percentage
Sex	Male	260	46
Sex	Female	305	54
A ===	15-19 years	341	60.4
Age	20-24 years	224	39.6
D 1	Urban	486	86
Residence	Rural	79	14
	Married	30	5.3
Marital status	Not married	533	94.3
	Divorced	2	0.4

Educational status of	No formal education	464	82.1
respondent's mother	Primary school and above	101	18
Educational status of	No formal education	341	60.4
respondent's father	Primary school and above	224	39.6
Living status	Living with parents and other relatives	362	64.1
	Living alone	203	35.9
Personal	Yes	351	62.1
income or pocket money	No	214	37.9
	=50</td <td>199</td> <td>35.2</td>	199	35.2
F	51-100	193	34.2
Family incomea	101-150	73	12.9
	>150	100	17.7

^aFamily income is in USD

In this study, a total of 565 students were considered for analysis. Three respondents were absent during data collection time and six questionnaire were excluded because of data incompleteness. The mean age of the study participants was 19.2 years (SD±1.24 years). More than half of the respondents, 305 (54%), were female. Most respondents, 533 (94.3%) were not married and 362 (64.1%) were living with their parents. Regarding to personal income or pocket money, 351(62.1%) of the respondents had personal income or pocket money. About a third (35.2%) of respondent's monthly family income was less than or equal to 50 United State Dollar (USD) (Table 1).

Sexual and reproductive health related information and behavior

Table 2:Sexual and reproductive health related information and behavior of preparatory school students in Mecha district, northwest Ethiopia, 2015.

Variables	Response	Frequency	Percent
Respondents	Yes	550	97.3
who heard about SRH	No	15	2.7
Respondents	Yes	376	66.5
knowledge on SRH	No	189	35.5
	Health profes- sionals	421	76.54
Source of Infor-	Teachers	107	19.45
mation	Media	105	19
	Parents	87	16
	Peers /friends	53	9.6
Discussion on	Yes	95	16.8
SRH issues with peer	No	470	83.2

Discussion on	Yes	181	32
SRH issues	163	101	32
with families	No	384	68
Involvement in	Yes	245	43.4
SRH clubs/mini media	No	320	56.6
Sexual expo-	Yes	90	16
sure	No	475	84

Almost all, 550 (97.3%), of the respondents had awareness about SRH services. Health professionals, 421(76.5%), were the main source of information. From the total study participants, 470 (83.2%) and 384 (68%) respondents had no discussion on SRH issues with their peers and their families respectively (Table 2).

Level of sexual and reproductive health service utilization

From the total participants, only 104 (18.4%) (95%CI: 15.2-21.9%) used SRH services within the last one year. Among the total sexual and reproductive health service users, more than half, 63 (60.57%), had used voluntary counseling and testing (VCT) services for HIV (Figure 1). Among the study participants who had sexual contact in the past one year, only 37(41%) used contraceptive methods. Regarding the method mix: 13 (14.4%) used condom, 14 (15.6%) used oral pill, 10 (11%) used injectable, 7(7.8%) used emergency pill and 4(4.4%) used implant. Among contraceptive users, 11 (12.2%) used dual methods. Most SRH service users, 72 (69%), were handled friendly by health service providers. From the adolescents' perspective, the main obstacles/barriers that refrain them from getting SRH services were inconvenient working hour, 314 (56%), inconvenient location, 311 (55%), fear of families, 303 (54%), and financial barrier, 112 (20%).

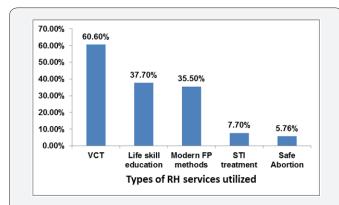


Figure 1:Types of sexual and reproductive health services utilized by preparatory school students in Mecha district, northwest Ethiopia, 2015.

Factors associated with sexual and reproductive health services utilization

Utilization of sexual and reproductive health services by respondents was assessed with different variables. Considering the two multivariate analysis model, this study showed that having employed mother, discussing on SRH with families, having personal income or pocket money, involving in SRH clubs or school mini-media, and having sexual exposure had statistically significant association with sexual and reproductive health services utilization.

In the pooled multivariate analysis model, respondents who had employed mother were almost two times [AOR=1.74 (95%CI: 1.07-2.85)] more likely to use SRH service than those whose mother were not employed. Students who had discussed on SRH issues with their families were one point five times [AOR=1.55 (95%CI: 1.07-2.60)] more likely to use SRH services as compared to students who hadn't discussed. Students who had sexual exposure were nine times [AOR=9.34 (95%CI: 5.46-15.98)] more likely to use SRH services than those who didn't have sexual exposure. Students who were involved in SRH clubs or school mini-media were two times [AOR=1.55(95%CI: 1.08-2.55)] more likely to use SRH services than those who were not involved to SRH clubs/school mini-media (Table 3).

Table 3: Bivariate and multivariate analysis of SRH service utilization and associated factors among preparatory school students in Mecha woreda, northwest Ethiopia, 2015.

** 11	SRH service	utilization	COR (95%	AOR (95%	
Variables	Yes	No	CÌ)	CI)	
	Age				
15-19	62	279	1	1	
20-24	42	182	1.04 (0.67- 1.60)	0.88 (0.52- 1.50)	
		Sex			
Male	47	213	0.96 (0.63- 1.47)	0.87 (0.51- 1.47)	
Female	57	248	1	1	
		Residence			
Urban	92	394	1.30 (0.68- 2.51)	1.28 (0.61- 2.71)	
Rural	12	67	1	1	
	Мо	ther's educat	ion		
Has no formal education	86	378	1	1	
Primary school and above	18	83	0.95 (0.54- 1.67)	1.09 (0.55- 2.17)	
	Father's education				
Has no formal education	60	281	1	1	
Primary school and above	44	180	1.14 (0.74- 1.76)	1.28 (0.75- 2.18)	
Living condition					
Living with parents/ relatives	64	298	1	1	
Living alone	40	163	1.14 (0.74- 1.77)	0.73 (0.30- 1.77)	

Personal income (pocket money)				
Yes	45	169	1.32(0.86- 2.03)	1.26 (0.53- 3.00)
No	59	292	1	1
	Famil	ly monthly in	come ^a	
>/=50	39	160	1	1
51-100	32	161	0.82 (0.49- 1.37)	0.63 (0.34- 1.15)
101- 150	16	57	1.15 (0.59- 2.22)	1.16 (0.55- 2.45)
>150	17	83	0.84 (0.45- 1.56)	0.65 (0.31- 1.37)
	Mot	ther's occupa	ition	
Employed	51	159	1.83(1.19- 2.81)	1.74(1.07- 2.85)*
House wife	53	302	1	1
	Fat	her's occupa	tion	
Farmer	92	391	1	1
Employee	3	30	0.43 (0.13- 1.42)	0.47 (0.12- 1.84)
Private Business	9	40	0.96 (0.45- 2.04)	0.87 (0.34- 2.24)
Awareness about SRH				
Yes	103	447	3.23(0.42- 24.81)	1.92 (0.23- 16.28)
No	1	14	1	1
	Discussi	ion with peer	s on SRH	
Yes	28	67	2.17(1.31- 3.59)	1.72 (0.94- 3.15)
No	76	394	1	1
	Discussio	n with famil	ies on SRH	
Yes	46	135	1.92(1.24- 2.96)	1.55 (1.07- 2.60)*
No	58	326	1	1
Involvement in SRH clubs				
Yes	57	188	1.76(1.15- 2.70)	1.55(1.08- 2.55)*
No	47	273	1	1
Sexual exposure				
Yes	49	41	9.13(5.53- 15.06)	9.34(5.46- 15.98)**
No	55	420	1	1

Note: 1= Reference, * P-value < 0.05 ** P-value < 0.001, Hosmer and Lemeshow Test = 0.245.

In the second multivariate analysis model, different factors were associated with the outcome variable. In male students, the odds of using SRH services were 3.6 (95%CI: 1.04-12.51) times higher in those who had personal income or pocket money than their counterparts. Male students who had discussed with their families on SRH matters were 2.47 times [AOR=2.47 (95%CI: 1.15-6.08)] more likely to use SRH services as compared to those who hadn't discussed. Male students who were involved in

school sexual and reproductive health clubs or school mini-media were 1.45 times [AOR=1.45 (95%CI: 1.04-2.28)] more likely to use SRH services as compared to those who were not involved in school sexual and reproductive health clubs or school mini-media. Male students who had sexual exposure were 11.10 times [AOR=11.10 (95%CI: 4.74-25.99)] more likely to use SRH services as compared to those who didn't have sexual exposure (Table 4).

Table 4: Multivariate analysis of factors associated with sexual and reproductive health services utilization stratified by sex among preparatory school students in Mecha woreda, northwest Ethiopia, 2015.

	Male	Female		
Variables	AOR (95% CI)	AOR (95% CI)		
Age				
15-19	1	1		
20-24	0.99 (0.44-2.22)	0.68 (0.30-1.51)		
	Residence			
Urban	3.07 (0.74-12.68)	0.89 (0.34-2.30)		
Rural	1	1		
	Mother's education			
Has no formal edu- cation	1	1		
Primary school and above	0.74 (0.25-2.24)	1.42 (0.57-3.56)		
	Father's education			
Has no formal edu- cation	1	1		
Primary school and above	1.24 (0.51-2.98)	1.59 (0.77-3.18)		
	Living condition			
Living with parents/ relatives	1	1		
Living alone	0.31 (0.08-1.14)	1.41 (0.42-4.71)		
Perso	onal income (pocket m	oney)		
Yes	3.60 (1.04-12.51)*	0.57 (0.17-1.94)		
No	1	1		
I	Family monthly income	a		
>/=50	1	1		
51-100	0.49 (0.19-1.27)	0.73 (0.32-1.68)		
101- 150	2.04 (0.69-5.98)	0.73 (0.24-2.26)		
>150	0.68 (0.19-2.44)	0.68 (0.25-1.82)		
Mother's occupation				
Employed	1.41(0.65-3.02)	2.05 (1.04-4.05)*		
House wife	1	1		
Father's occupation				
Farmer	1	1		
Employee	0.78 (0.12-4.93)	0.17 (0.02-1.65)		
Private Business	0.63 (0.13-3.13)	1.52 (0.45-5.19)		
Discussion with peers				
Yes	1.85(0.82-4.18)	1.17 (0.47-2.92)		
No	1	1		

Discussion with families					
Yes	2.47(1.15-6.08)*	1.43 (1.06-2.98)*			
No	1	1			
I	Involvement in SRH clubs				
Yes	1.45(1.04-2.28)*	2.36 (1.17-4.77)*			
No	1	1			
Sexual exposure					
Yes	11.10 (4.74-25.99)**	11.27 (5.17-24.59)**			
No	1	1			

In female students, the odds of using SRH services were 2.05 times [AOR= 2.05 (95%CI: 1.14-4.05)] higher in those who had employed mother than those whose mother were housewife. The odds of using SRH services were 1.43 times [AOR=1.43 (95%CI: 1.06-2.98)] higher in female students who had discussed with their families on SRH issues as compared to female students who hadn't discussed. Female students who were involved in sexual and reproductive health clubs or school mini-media were 2.36 times [AOR= 2.36 (95%CI: 1.17-4.77)] more likely to use SRH services as compared to those who were not involved in sexual and reproductive health clubs or school mini-media. Female students who had sexual exposure were 11.27 times [AOR= 11.27 (5.17-24.59)] more likely to use SRH services as compared to those hadn't sexual exposure (Table 4).

Discussion

Information about sexual and reproductive health services is a prerequisite for SRH service utilization. Majority of the students had awareness about the sexual and reproductive health service. Health professionals, teachers and media were the main source of information. Utilization of sexual and reproductive health services among preparatory school students in Mecha district was 18.4%. In the multivariate analysis, open discussion with parents/families, having employed mother, involving in SRH clubs/mini-media, having personal income/pocket money, and having sexual exposure were positively associated with sexual and reproductive health service utilization.

Less than one-fifth (18.4%) of preparatory school students in Mecha district utilized sexual and reproductive health services. This finding was almost consistent with the study done in Mekele (22%) [13], and in Machakel district, east Gojam zone (21.5%) [8]. However, it was lower as compared to studies conducted in Harare (63.8%) [14] and Bihar Dar (32 %) [7]. This finding was also lower than the studies done in Awabel district, Ethiopia [15] and in Nigeria [16] that SRH service utilization six months preceding the data collection time was 41.2% and 29.7% respectively. This difference might be due to difference in age and maturation. For example, in Madawalbu, the study was conducted among University students whose age and maturation are relatively higher than study participants in this study. Additionally, university students are relatively free from family and community influences; there may be high peer influence and risk perception in university students. All these might made difference in SRH services utilization. In the studies done in

Harare town and Awabel district, the studies were conducted on out of school students that most of them might have sexual exposure and might be married. Socio-demographic variation might be another possible reason for this variation [17,18].

Sexual and reproductive health service (SRH) utilization was affected by different factors. In this study, students who had employed mother were two times more likely to use SRH services than those who had non-employed mother. This might be due to the fact that employed mothers may have better information or awareness about SRH issues and might have open communication with their children. This can create good opportunity for adolescents to think and give high value for their sexual and reproductive health and to obtain SRH services. The same association was also seen in a study done in Kenya [19]. However, in the second multivariate analysis model, it was identified that male students who had employed mother had no statistically significant association with SRH service utilization as compared to their counterparts. This might be due to the fact that mothers give more attention for girls in providing information and making open discussion on SRH matters because of relatively high burden of SRH problems in females.

In this study, open discussion about sexual and reproductive health with parents was significantly associated with students' SRH service utilization. This might be due to the fact that parent and child relationship might influence young people's decision to use different SRH services. Moreover, sexual and reproductive health communication is mostly promote healthy sexual development and reduce sexual risks. Communication is the principal means for parents to transmit sexual values, beliefs, expectations and knowledge to their adolescents. Thus, adolescents are more likely to engage in healthy behaviors when they feel connected to their family, and it also creates opportunity to deal with adolescent problems related to their SRH and services. The same finding was seen in studies done in Gondar, East Gojam zone, and Awabel district, Ethiopia [8,15,17], Nigeria [16], and United State [20].

In this study, the study participants who had sexual practice were 9 times more likely to use SRH services than abstainers. This could be due to difference in risk perception. Adolescents who had sexual contact might relatively have high level of risk perception for unwanted pregnancy, abortion, HIV and other STIs than those who abstain. So, they might plan and use methods of protection during sexual activity. The same finding was also seen in the study conducted in Madawalbu, Awabel district, and Gondar town, Ethiopia [12,15,17].

Involvement in school SRH clubs or school mini-media was positively associated with SRH service utilization. Students who were a member of school SRH clubs or school mini-media might frequently discuss on sexual and reproductive health issues, on the barriers to utilization of services, on sexual and reproductive health risks, develop life skills, share experiences and have awareness. Hence, this can increase SRH service utilization.

Male students who had personal income or pocket money had better SRH service uptake than their counterparts. The reason might be when male students have access to money they may be engaged in sexual activity that demands to use SRH services. However, this association was not observed in female students and in the overall (pooled) multivariate analysis.

The strength of this study might be addressing one of the government's thematic areas of research and intervention. In this study, out school youths were not addressed. This is the possible limitation of this study.

Conclusion

Sexual and reproductive health service utilization among preparatory school students in Mecha woreda was low. This might make adolescents prone for different sexual and reproductive risks/problems. This in turn can increase school dropout rate and has impact on their future life. It also causes failure of adolescent health policy from meeting its goal. Discussing on SRH with parents; having employed mothers; involving in RH clubs or school mini-media, and having sexual exposure were found as predictors for SRH service utilization. This implies that improving the cogitative accessibility of SRH is mandatory. That is, providing information, education and communication about risky sexual practices, sexual and reproductive health and services, and breaking the social barriers are found imperative. So, parents/families, school staffs, and health professionals are important stake holders to improve SRH services utilization.

Declarations

Data availability

All data generated or analyzed during this study are included in this main manuscript

Competing interests

The authors declared that there are no financial and non-financial competing interests.

Author's contributions

MTT designed the study and acquired the data; MTT, AAG and YTA analyzed and interpreted the data. All authors prepared, reviewed and approved the manuscript.

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