

# JOGIIS

## Journal of GLOBAL ISSUES AND INTERDISCIPLINARY STUDIES



### KNOWLEDGE ABOUT SEXUALLY TRANSMITTED INFECTIONS AND SAFE SEX PRACTICES AMONG STUDENTS OF THE COLLEGE OF HEALTH TECHNOLOGY MUBI, ADAMAWA STATE.

<sup>1</sup>Yohanna, Wamanyi\*, <sup>2</sup>Ibrahim, Umar, <sup>3</sup>Jibrin, M. D., <sup>4</sup> Zar, V. D., <sup>5</sup>Mighty, Paul

Corresponding author: YOHANNA WAMANYI +2348067608748; wamanyiyohanna@gmail.com

Article history: Received 25 January, 2024, Reviewed 18 March, 2024, Accepted for Publication 26 April, 2024

#### **ABSTRACT**

**Background:** The aim of the study is to determine the Knowledge about sexually transmitted infections and safe sex practices among students of the College of Health Technology Mubi, Adamawa State. Sexually Transmitted Infections (STIs) have been conventionally recognized as a major public and social health problem for several years.

**Method:** The design of the study was a descriptive survey design. The population of the study was 9,307 students. The sample of the study were 384 students, and Taro Yamane formular for finite population was used. A structured questionnaire of 31 items were used to collect data, which were analyzed using means and standard deviation.

**Result:** The findings of the study amongst others are that students have knowledge of the signs and symptoms of sexually transmitted infections but most of them do not have adequate knowledge of other STIs. Also, students have adequate knowledge of the mode of transmission of sexually transmitted diseases.

Conclusion: The findings of this study have revealed that students have knowledge of the signs and symptoms of STIs but vast majority of them do not have adequate knowledge of other STIs. The students have adequate knowledge of the mode of transmission of STIs, they have healthy practices towards sex and they are aware of the control and prevention of STIs. The study revealed that female students seek more information from health professionals on STIs while male students seek information from the internet.

#### INTRODUCTION

Sexually Transmitted Infections (STIs) have been conventionally recognized as a major public and social health problem for

several years. STIs remain one of the major causes of acute illness and morbidity all over the world. More than one million STIs are acquired daily; over 100 million STIs occur yearly under 25<sup>1</sup>. WHO estimated 374 million new

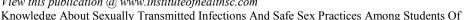
 $<sup>\</sup>overline{\phantom{a}}$ Modibbo Adama University, Yola, Nigeria: Department of Community Health

<sup>&</sup>lt;sup>2</sup>Community Health Practitioners Registration Board of Nigeria: Department of Education Development and Standard

<sup>&</sup>lt;sup>3</sup>Nasarawa State University Keffi: Department of Community Health

<sup>&</sup>lt;sup>4</sup>Benue State College of Health Technology, Agasha: Department of Community Health

<sup>&</sup>lt;sup>5</sup>International Organization for Migration Nigeria (IOM Nigeria)



infections with 1 of 4 STIs: chlamydia (129 million), gonorrhea (82 million), syphilis (7.1 million), and trichomoniasis (156 million). More than 490 million people were estimated to be living with genital herpes in 2016, and an estimated 300 million women have infection, the primary cause of cervical cancer and anal cancer among men who have sex with men. An estimated 296 million people are living with chronic hepatitis B globally<sup>1</sup>.

Sexually transmitted infections (STIs) constitute an epidemic of tremendous magnitude, with an estimated 27 million persons acquiring a new STI in 2018 at \$16 billion. Reported disease underestimate the true burden of infection majority of STIs because the asymptomatic and underreported<sup>2</sup>. STIs far-reaching public have health consequences the sexual on and reproductive health of individuals, as well as long-term healthcare costs to the community<sup>3</sup>. Due to the dramatic increase in reportable STI rates with resultant reproductive health consequences, an STI National Strategic Plan was developed with actionable goals, objectives, and strategies for prevention that focus on 4 of the STIs with the highest morbidity rates (chlamydia, gonorrhea, syphilis, human papillomavirus), though most of the components of the plan apply to other **STIs** (herpes simplex virus. trichomoniasis, Mycoplasma genitalium)<sup>4</sup>.

Sexually transmitted infections (STIs) are a significant public health concern among students, particularly those who are sexually active. STIs are infections that are spread through sexual contact, including vaginal, anal, and oral sex<sup>5</sup>. Some common STIs include chlamydia, gonorrhea, syphilis, herpes, human papillomavirus (HPV), and human immunodeficiency virus (HIV)<sup>6</sup>. According to World Health Organization<sup>7</sup>, several studies have been

conducted worldwide regarding knowledge about STIs and reported that 74.7% in India, 92.4% in Nigeria, 89.9% in Brazil, 98% in Tanzania, 88.5% in Ethiopia, 79% Jimma. in Dhaka. Bangladesh, 86.6% in Malaysia, 74% medical and 61.6% non-medical university students in Pakistan, 83.1% in Turkey. 68.3% in Klang Valley, Malaysia, 27% in Udupi Taluk, India, and 70.1% in Northern Cape Province, South Africa of the respondents had good knowledge of STIs. The factors that influence knowledge of STIs are diverse and include age, sex, residence, marital status, academic year, acquiring information from and friends/internet and mass media<sup>8</sup>.

Safe sex practices can significantly reduce the risk of getting an STI. These practices include using condoms consistently and correctly, getting vaccinated against HPV, limiting the number of sexual partners, and getting tested regularly for STIs<sup>6</sup>. Studies have shown that many students have insufficient knowledge about STIs and safe sex practices<sup>9</sup>. For example, some students may not know how to use a condom correctly or may not realize that they need to use a new condom every time they have sex. Additionally, some students may not understand the importance of getting tested for STIs regularly or be too embarrassed to talk to their healthcare provider about their sexual health<sup>10</sup>. This study aims to analyze the knowledge about sexually transmitted infections and safe sex practices among College of Health Technology Mubi students. College of Health Technology Mubi is in Mubi North Local Government Area of Adamawa Lokuwa Ward Barama State under opposite National Television Authority (NTA) Mubi.

#### Methods

**Design of the Study** 

A descriptive survey design was used to investigate and find out the knowledge about sexually transmitted infections and safe sex practices among students at the College of Health Technology Mubi. The design was chosen because it is convenient for capturing the opinions of respondents and information was collected once from the population using representative samples.

#### **Participants**

This study's participants covered the students of College of Health Technology, Mubi. The total population of the study is 9,307, these are students from various departments. The departments environmental health, community health, medical laboratory, dental health science, health education and promotion, health information and management, medical sociology, nutrition and dietetics, pharmacy, among others.

#### **Sample Size Calculation**

A sample size of 422 students was used for the study. The sample size of 384 was determined using Taro Yamane's formula for finite population was applied as a guide for statistically obtaining the sample for the study. Whereas, additional 38 students represent the 10% non-response rate. For this study, a stratified random sampling technique was used, therefore each department was considered as a stratum.

#### **Data Collection**

The instrument for data collection was researcher-designed questionnaire tagged 'Knowledge About Sexually Transmitted Infections and Safe sex Practices Among Students Questionnaire'. The questionnaire consisted of five sections (A

- E). Section 'A' elicited information on the level of students' knowledge of the signs and symptoms of STIs while section 'B' consisted of information on the students' knowledge of the mode of transmission of STIs. Section 'C' elicited information on the students' practices towards safe sex. Section 'D' elicited on their knowledge of the control and prevention of STIs, whereas section 'E' determined the influence of gender on students' level of knowledge of STIs. The instrument consisted of 31 items which used polychotomous questions of Strongly Agree, Agreed, Disagreed or Strongly Disagreed. The respondents were requested to place a tick  $\lceil \sqrt{\rceil}$  as it applied to them in sections A, B, C, D and E. The questionnaire items were organized based on the aim and objectives of the study.

#### **Data Analysis**

Data for this study was analysed using mean and standard deviation. A four (4) point scale was employed. For the study, items with mean responses of 2.50 and above will be agreed upon, whereas items with mean responses less than 2.50 will be disagreed.

#### **Ethical Consideration**

Permission was obtained from the school management to be allowed to conduct the study in the school. Informed consent was obtained from respondents and assurance of anonymity and confidentiality and their and rights were respected throughout the period of data collection including the right to withdraw from the study at any time they wish. Respondents were treated with respect and dignity. Their rights and welfare were protected. All the findings of this study were used with a high level of confidentiality.

#### **RESULTS**

#### Table 1: level of student's knowledge of the signs and symptoms of STIs

Table 1 shows that item six was disagreed upon by the respondents with a mean value of 2.13 and corresponding SD value of 4.33, whereas items one, two, three, four, five, and seven were agreed upon with mean values ranging from 2.60 - 3.32 and corresponding SD value of 5.44 - 6.91. This suggests that students know the signs and symptoms of Sexually Transmitted Infections (STIs) at the College of Health Technology Mubi, Adamawa State.

Table 1: Mean Responses of Level of student's knowledge of the sign and symptoms of STIs

		Departments																				
		en	ental		Communit y Health		Medical Laborator y		ntal alth ence	and		Health Informati on and Managem ent		Medical		Phar	macy	а	rition nd :etics			
S/No	Statement	<u>-</u>	9	<u> </u>	ð	x	ð	<u>-</u>	ð	<u>-</u>	ð	<u> </u>	ð	<u>-</u>	ð	<u> </u>	ð	<u> </u>	ð	Remark	Grand Mean	Grand SD
1	Yellow discharge from the vagina or urethra is among the signs and symptoms of Chlamydia	2.67	3.22		13.91		9.92	3.14	6.91	3.00	6.82	3.50			4.47	3.26	11.63	3.67		Agreed	3.32	6.91
	Painful or frequent urination is a sign and symptom of HIV																			Agreed	2.63	4.97
3	Fever, Rash, and Night sweats are signs and symptoms of Gonorrhea	2.75	2.57	2.75	11.28	2.83	7.63	3.14	4.64	3.00	6.82	3.50	2.19	4.00	4.47	2.13	5.76	3.33	3.32	Agreed	3.05	5.41
4	Fatigue, poor appetite, stomach pain, nausea, and jaundice are the signs and symptoms of Hepatitis B	3.50	3.34	3.35	14.53	3.35	9.11	3.00	3.71	2.75	4.31	3.50	2.19	3.00	2.29	3.17	11.08	3.67	3.11	. Agreed	3.25	5.96
	Flat warts may be seen on the vulva as sign and symptom of syphilis																			Agreed	3.19	5.87
	Foul-smelling discharge from the vagina is among the signs and symptoms of Typhoid	1.50	2.98	1.81	9.09	2.38	7.94	2.86	3.46	1.80	2.67	1.50	2.08	3.50	2.19	2.28	7.35	1.50	2.08	Disagreed	2.13	4.43
	Small bumps or blisters around the genitals, anus or mouth are not the	2.52	2.22	2.22		2.55	7.40	2.22	4.70	2.00	2.44	2.00	4.4-	2.00	2.12	2.02	44.45	2.00	2.45			
7	signs and symptoms of Genital herpes	2.50	3.38	2.20	9.40	2.56	7.43	2.29	4./2	3.00	3.41	3.00	4.15	3.00	2.19	2.83	11.12	2.00		Agreed Agreed	2.60 2.88	

Source: Field Survey (2023)

#### Table 2: Mean Responses of Mode of Transmission of STIs

Table 2 shows that item ten, eleven, twelve, and thirteen was disagreed upon by the respondents with mean values ranging from 2.01 - 2.42 and corresponding SD value of 4.28 - 4.87, whereas items eight, and nine were agreed upon with mean values of 3.29 - 3.42 and corresponding SD value of 5.65 - 6.43. This suggests that students have knowledge of the mode of transmission of STIs at the College of Health Technology Mubi, Adamawa State

Journal of Global Issues and Interdisciplinary Studies, Vol. 2, Issue 1; 2024 Published by Institute of Health Science, Research and Administration Nigeria Print ISSN: 1115-6031 Online ISSN: 3043-4424

111	e College	OTTICUILII	Technolo	5y Muon	, 1 Idama	va State.	. I Onum	iiu, wuii	idilyi Ct (	uı
						D	epartment	s		

								Departments														
		en	Environm ental Health		Communit y Health				ntal alth ence	Health Education and Promotio		Health Informati on and Managem ent		ati d Sociology		Pharmacy		а	rition nd tetics			
S/No	Statement	<u> </u>	9	-  x	9	- х	9	_ x	ð	<u> </u>	9	- x	9	т х	9	- x	ð	<u> </u>	ð	Remark	Grand Mean	Grand SD
<b>—</b> '	STIs can be transmitted to the fetus																					
8	during pregnancy	3.50	4.60	2.84	10.65	3.06	9.73	3.29	4.41	3.00	2.85	4.00	4.47	3.50	2.19	2.79	8.85	3.67	3.11	Agreed	3.29	5.65
	Infected blood or blood products can																					
9	be a source of STI transmission	3.75	4.43	3.13	12.48	3.00	7.25	4.00	9.26	2.50	3.38	4.00	4.47	3.50	2.19	3.24	11.30	3.67	3.11	Agreed	3.42	6.43
	STIs are transmitted through kissing																					
10	and romance	2.75	4.31	2.10	9.06	2.22	6.81	2.14	3.84	2.80	3.93	1.00	2.69	3.00	2.29	2.46	7.58	3.33	3.32	Disagreed	2.42	4.87
	STIs can be transmitted by																					
11	coughing/sneezing	1.75	3.85	1.90	8.29	2.71	7.13	2.00	3.59	2.40	2.99	1.00	2.69	3.50	2.19	2.24	7.21	1.33	2.43	Disagreed	2.09	4.49
	STI can be transmitted by sharing																					
	toilets and sharing kitchen utensils																					
12	(spoons, forks, cups etc.)	2.50	3.38	1.92	9.45	2.72	7.29	2.00	4.04	2.40	2.99	1.00	2.69	3.50	2.19	2.28	7.70	1.33	2.43	Disagreed	2.18	4.68
	STIs cannot be transmitted through																					
13	contact with vaginal fluid or semen	2.00	2.55	2.08	8.46	2.53	5.79	2.00	2.67	1.60	3.71	1.00	2.69	3.00	2.29	1.86	7.72	2.00	2.24	Disagreed	2.01	4.24
																				Agreed	2.57	5.06

Source: Field Survey (2023)

#### Table 3: Mean Responses of Student's practices towards safe sex

Table 3 shows that item eighteen was disagreed upon with mean value of 2.29 and corresponding SD value of 4.56, whereas items fourteen, fifteen and sixteen were agreed upon with mean values of 2.56 - 3.71 and corresponding SD value of 5.65 - 7.85. This suggests that students have safe sex practices at the College of Health Technology Mubi, Adamawa State.

			Departments																			
		en	ental		Communit y Health				ntal alth ence			Infor on Mana	Health nformati on and Vlanagem ent		lical ology	Phar	macy	aı	rition nd etics			
S/No	Statement	- х	d	- x	à	- x	ð	- x	ð	- x	ð	- x	ð	- x	ð	- x	ð	- x	ð	Remark	Grand Mean	Grand SD
3,113	The proper use of condoms could	-	-	Ė	ľ		_		-		_		-		_		-		1	IS THUIL	, vicuit	
14	enhance safe sex	ı	4.43	3.72	19.03	3.61	10.77	3.89	7.72	3.20	2.94	4.00	4.47	4.00	4.47	3.54	13.75	3.67	3.11	Agreed	3.71	7.85
	Coitus interruptus is a practice towards																					
15	safe sex	3.50	3.34	2.66	9.79	3.06	8.00	2.29	5.18	2.80	5.30	3.00	4.15	4.00	4.47	2.54	8.19	2.00	3.16	Agreed	2.87	5.73
16	Abstinence is among the practices of safe sex	l	2 54	2 0 5	12.24	2 20	0.65	2 06	7.02	2 25	4.06	4.00	4 47	2 50	2 10	2 57	0 21	2.00	216	Agreed	3.06	5.96
16	Penile circumcision can reduce		2.54	2.63	12.24	3.26	9.63	2.00	7.03	3.23	4.00	4.00	4.47	3.30	2.15	2.3/	6.51	2.00	3.10	Agreeu	3.00	3.30
17	contracting STIs	l	3.38	2.21	9.27	2.67	6.47	2.57	4.07	3.00	2.85	1.00	2.69	3.50	2.19	2.75	7.98	3.00	4.06	Agreed	2.58	4.77
	Unfaithful sexual partners can practice		2,00		-1/		211/			2.00	00			2.00			.,,50	2,00		, .g. 500		,
18	safe sex	l	3.41	2.00	8.50	2.41	6.12	3.00	3.79	2.40	3.92	1.00	2.69	3.50	2.19	2.32	7.16	1.00	3.29	Disagreed	2.29	4.56
	The use of emergency contraceptive pill																					
19	is the best practice for safe sex	3.00	3.41	2.54	10.24	3.00	7.29	2.43	5.11	2.00	3.41	2.00	3.61	4.00	4.47	3.04	10.03	1.00	3.29	Agreed	2.56	5.65
																				Agreed	2.85	5.76

Source: Field Survey (2023)

Table 4: Mean Responses of Student's Awareness of the Control and Prevention of STIs

Table 4 shows that all items were agreed upon with mean values ranging from 2.66 - 3.63 and corresponding SD value of 5.19 - 8.05. This suggests that students are aware of the control and prevention of STIs at the College of Health Technology Mubi, Adamawa State.

									D	e part	ment	s										
		en	Environm ental Health		Communit y He alth				ntal alth ence	He alth Education and Promotio n		Health		Medical		Pharmani		aı	rition nd se tics			
s/No	Statement	<u></u>	ð	<u></u>	a	_ x	ð	<u></u>	ð	_ x	ð	_ x	ð	_ x	a	<u>_</u>	ð	<u>-</u>	ð	Remark	Grand Mean	Grand
Í	Sexual health education in schools provides awareness of the control and								V						<u> </u>							
	prevention of STIs.  Enlightenment campaigns on sexuality provide knowledge on the control and	3.75	4.43	3.64	17.92	3.83	13.37	3.43	5.36	3.20	5.12	4.00	4.47	3.50	2.19	3.69	16.52	3.67	3.11	Agreed	3.63	8.05
21	prevention of STIs	3.25	2.54	3.32	13.92	3.39	10.14	3.14	3.97	2.80	2.73	3.50	2.19	4.00	4.47	3.57	13.55	3.50	2.19	Agreed	3.39	6.19
	I would take precautions to reduce my risk of HIV/AIDS when having sex.	3.25	2.54	2.61	11.66	3.17	8.34	3.50	5.16	2.80	2.73	3.00	4.15	4.00	4.47	3.03	11.17	3.50	2.19	Agreed	3.21	5.82
23	The use of condoms is the best way of preventing sexually transmitted diseases/infections.	3.50	3.34	3.50	15.57	3.5	10.44	3.29	5.01	2.60	4.23	3.00	4.15	4.00	4.47	3.46	13.57	3.50	2.19	) Agreed	3.37	7.00
24	Abstinence from sexual activities is the best in controlling and preventing STIs.																			Agreed	3.34	6.41
	Emergency contraceptive use is the correct control and prevention																					
25	measures for STIs	3.00	3.41	2.11	9.39	2.71	7.71	2.57	5.18	2.20	3.09	3.00	4.15	3.50	2.19	2.86	9.38	2.00	2.24	Agreed Agreed	2.66 3.27	

Source: Field Survey (2023

#### Table 5: Mean Responses of Influence of Gender on students' Level of knowledge of STIs

Table 5 shows that all items were agreed upon with mean values ranging from 2.94 - 3.30 and corresponding SD value of 5.79 - 6.60. This suggests that female students seek more information on sexually transmitted infections than males at the College of Health Technology Mubi, Adamawa State.

									D	e parti	nents	5										
		en	ental		Communit y Heal th		Medical Laboratory		ntal alth nce	Health Education and Promotio n		Health Informati on and Managem ent		Medical		Pharmacy		Nutritio  and Dietetic				
s/No	Statement	_ x	ð	$\overset{-}{x}$	ð	_ x	9	<u>-</u>	9	_ x	ð	_ x	9	$\stackrel{-}{x}$	ð	-  x	ð	$\overset{-}{x}$	ð	Remark	Grand Me an	Grand
	Females tend to drop out of school due to poor sexual and reproductive health		_				U				_										ivie an	บ
	(SRH) knowledge than males	2.50	3.38	3.05	12.53	3.28	9.65	3.29	4.41	2.60	3.14	3.00	4.15	3.50	2.19	2.21	11.50	3.00	1.19	Agreed	2.94	5.79
	Several STIs such as Chlamydia, trichomoniasis and gonorrhea are more prevalent in females than males	2 25	4.06	2 52	16 05	2 20	0.51	214	161	2 90	2 70	2 EU	2 10	3 EU	2 10	2 10	11 02	2.00	4.06	Agreed	3.24	6.38
	Women often experience complications (infertility, chronic pelvic pain) from																					
	STIs than men	3.00	2.37	3.52	17.06	3.35	9.11	3.14	4.64	2.40	3.92	3.50	2.19	4.00	4.47	3.46	12.72	3.33	2.89	Agreed	3.30	6.60
	Females often have a higher awareness and knowledge of STIs than males	3.00	2.37	3.05	12.52	3.41	9.45	3.14	4.64	2.40	3.92	2.50	2.30	3.50	2.19	3.30	11.77	3.33	2.89	Agreed	3.07	5.78
	Females seek information on STIs from healthcare professionals, educational institutions and reliable sources than																					
	males.	3.50	3.34	3.21	14.08	2.94	7.31	3.00	3.79	2.40	3.92	3.00	4.15	4.00	4.47	3.31	12.36	3.50	1.19	Agreed	3.21	6.07
	Males rely on peers and the internet for information on STIs than females	3.00	5.97	3.13	14.03	3.29	10.3	3.00	3.79	3.25	4.06	3.50	2.19	3.50	2.19	3.34	12.28	2.67	3.22	Agreed	3.19	
																				Agreed	3.16	6.18

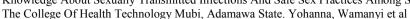
Source: Field Survey (2023)

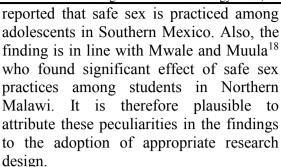
#### **Discussions of Findings**

The study revealed that students have knowledge of the signs and symptoms of Sexually Transmitted Infections (STIs) such as chlamydia, hepatitis B, syphilis, and genital herpes and they also have knowledge that foul-smelling discharge from the vagina is not among the signs and symptoms of typhoid. However, the vast majority of the students do not have adequate knowledge of the signs and symptoms of other STIs such as HIV and gonorrhea (2.88 and corresponding SD value of 5.57). The finding is not surprising rather expected since sexuality education programme is highly encompassing in schools/colleges, addressing STIs and thus, is expected to make positive impact on the STIs knowledge. Also, the finding can be attributed to the fact that STIs is a global phenomenon that can result in multiple serious long term problems including complications, pregnancy fetal neonatal demise, cancer, infertility, sexual dysfunction, and enhanced transmission<sup>11</sup>. Adegun<sup>12</sup> Amu and reported that 499 out of 550 adolescents aware of sexually transmitted infections with emphasis on their sources of information to include electronic media, schoolteachers and print media. This implies that the respondents who were aware of STIs are more than their counterparts who were not. Furthermore, Yinusa, Abdullateef Oluyemi, Sunday<sup>13</sup> reported that secondary school adolescents possessed fair knowledge of sexually transmitted diseases in Asa LGA of Kwara State Nigeria. This finding is in agreement with previous study therefore not surprising.

The study revealed that students have knowledge of the mode of transmission of STIs such as transmission during pregnancy to the foetus, through infected blood and blood products, and contact with vaginal fluid or semen and cannot be transmitted through kissing, romance, coughing/sneezing or sharing toilets or kitchen utensils (2.57 and corresponding SD value of 5.06). Similarly, Nwatu et al.<sup>14</sup> reported high level of knowledge of STIs transmission school/college students in South-eastern part of Nigeria. The finding, however, contradicts the result of Okere<sup>15</sup> who reported poor knowledge of STIs transmission mode among in-school adolescents in selected urban and semi urban Areas of Enugu State in a sample of 950 students selected from 34 secondary schools. Similarly, Ogbe<sup>16</sup> in a descriptive survey reported that the rural dwellers in Delta State, Nigeria were deficient in knowledge, practice and sources information on STIs (condom use). This finding is in agreement with previous study and therefore not surprising.

The study also revealed that students practice safe sex by agreeing that proper use of condoms could enhance safe sex. abstinence is among the practices of safe sex. However, most students don't have adequate knowledge about safe practices as coitus interruptus also termed as (withdrawal) isn't a practice of safe sex and doesn't offer protection from sexually transmitted infections, penile circumcision isn't a safe sex practice and doesn't offer protection from sexually transmitted infections, and the use of emergency contraceptive pill doesn't offer protection from sexually transmitted infections. (Mean value of 2.85 and corresponding SD value of 5.76) finding is well expected and encouraging as it further demonstrates the significant effect of school-basededucational programme in combating certain sexual risky behaviors that are prevailing among the students in school environments. This finding in accordance with Castillo-Arcos et al. 17





The study revealed that students have awareness of the control and prevention of sexually transmitted infections by agreeing that the use of condoms is the best way of preventing sexually transmitted infections (3.57 and corresponding SD value of 7.00), abstinence from sexual activities is the best in controlling and preventing STIs (3.34 and corresponding SD value of 6.41), sexual health education enlightenment campaigns on sexuality provide knowledge on the control and prevention of **STIs** (3.63)and corresponding SD value of However, the vast majority of the students do not have adequate knowledge and awareness that emergency contraceptive use is not a control and preventive measure for STIs (2.66 and corresponding SD value of 5.19). The finding was not surprising rather expected. The finding agrees with Bell<sup>19</sup> who posited that knowledge is an organized set of statement of fact or ideas, presenting a reasoned judgment or an experimental result such as the present and is being transmitted to others through their preventive and measures. In furtherance of the author's postulation, appropriate STIs knowledge of the preventive measures, risk factors, and consequences by the students would enhance their sexual and reproductive positively. Ajide and Balogun<sup>20</sup> found that the knowledge of STIs and its prevention was poor among adolescents in Nigeria. The authors further stated that the adolescents were either already involved in risky sexual behaviour or have intention to engage in risky sexual

behaviour. Similarly, Munakampe, Zulu and Michelo<sup>21</sup> stated that the main barriers found among young people to use contraceptives for prevention of STIs is the lack of knowledge. This finding is not in agreement with previous study<sup>18</sup> and therefore surprising. The disparities in the findings of the studies could be due to variations in both geographical and sociocultural settings where the studies were conducted.

The study also revealed that female students more influenced are knowledgeably than male students because female students seek more information from healthcare professionals, educational institutions, and reliable sources sexually transmitted infections and have a higher awareness of STIs than male students. females often experience complications from STIs than males, and several STIs are more prevalent in females than males (3.16 and corresponding SD value of 6.18). This implies that gender influenced positively the impact increasing the STIs knowledge of the students. The outcome of the study could also be attributed to the composure and readiness of the who were consistently to well-organized exposed learning experiences and mental exercises by their mothers in their houses. This finding agrees with Rizwan et al.11 who saw the need for intervention such as the present in addressing multiple long term problems including pregnancy complications, fetal and neonatal demise, cancer, infertility, sexual dysfunction, and enhanced HIV transmission emanating from STIs cases. Also, the finding is in line with Okere<sup>15</sup> who found that the male in-school adolescents had poor knowledge of STIs when compared their female to counterparts with adequate knowledge in the selected urban and semi-urban areas of Enugu State. Ogbe<sup>16</sup> in a descriptive survey showed that the female rural dwellers in Delta State had higher



knowledge than their male counterparts on STIs knowledge-based survey. There are obvious similarities in these studies as they addressed STIs knowledge with respect to gender. It is therefore plausible to attribute these peculiarities in the findings to the participants' composition and the appropriateness of the adopted research design.

#### Conclusion

The findings of this study have revealed five major aspects. Firstly, the study revealed that students have knowledge of the signs and symptoms of Sexually Transmitted Infections (STIs) but vast majority of them do not have adequate knowledge of other STIs. Secondly, the study revealed that students have adequate knowledge of the mode of transmission of STIs. Thirdly, the study revealed that students have healthy practices towards sex. Fourthly, the study revealed that students are aware of the control and prevention of STIs. Fifthly, the study revealed that female students seek more information from health professionals on sexually transmitted infections while male students seek information from the internet.

#### Recommendation

The following recommendations were made based on the findings of the study: School authorities should sustain efforts towards improving student's knowledge of sexually transmitted infections and safe sex practices. Parents/guardians should put considerable effort in adequately educating their children about the importance of safe sex practice. Government should include sexual health as a course in tertiary institution's curricula for students to have in-dept knowledge on sexually an transmitted infections or diseases and safe

sex practices. Federal Ministry of Health, Ministry of Education, private organizations, communities, religious leaders. cultural leaders. and other government agencies to provide effective programmes on sexuality education for students, train and equip professionals who will further educate students on the right knowledge and attitude towards sexually transmitted infections or diseases and safe sex practices. Government should support through the ministry of health and ministry of education in creating awareness and enlightenment campaigns and workshops on sexual health to improve students' knowledge and the public on sexually transmitted infections and safe practices.

#### Limitation and Strength of the Study

- The study was restricted to only inschool adolescent, leaving the out-of school categories in Adamawa State. Thus, the findings of the study may not serve a general representation of the entire adolescents in the state.
- The study was restricted to the use of questionnaire tool, thus only quantitative data were generated analysed. The finding might not be generalized since qualitative measures were not assessed.
- Only students in Adamawa State College of Health Technology participated in the study while students in other institutions or states of the country did not. Thus, the findings may not represent a general situation in Nigeria.
- The structure of the research instrument did not allow the participants to express views and experiences. The students were restricted to respond to only the items of the questionnaire.

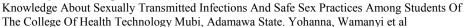
#### REFERENCE

- 1. Rahel Tamrat, Tesfaye Kasa, Zewdineh Sahilemariam, Mulatu Gashaw, "Prevalence and Factors Associated with Sexually Transmitted Infections among Jimma University Students, Southwest Ethiopia", International Journal of Microbiology, vol. 2020, Article ID 8859468, 6 pages
- 2. Ajayi, A.I., Ismail, K.O. & Akpan, W. (2019). Factors associated with consistent condom use: a cross-sectional survey of two Nigerian universities. *BMC Public Health* 19, 1207 (2019). https://doi.org/10.1186/s12889-019-7543-1
- 3. Basim Matar AL-Malki (2014). Knowledge and awareness of sexually transmitted disease among male university students in Taif, Saudi Arabia. *International Journal of Medical Science and Public Health*, 3 (3), 342-348. doi:10.5455/ijmsph.2014.070120141
- 4. Workowski, K. A., & Bachmann, L. H. (2022). Centers for Disease Control and Prevention's Sexually Transmitted Diseases Infection Guidelines. *Clinical Infectious Diseases*, 74(Supplement\_2), S89-S94.

https://doi.org/10.1093/cid/ciab1055. Last accessed April 5, 2023

- 5 Brookmeyer, K. A., Haderxhanaj, L. T., Hogben, M., & Leichliter, J. (2019). Sexual risk behaviors and STDs among persons who inject drugs: A national study. *Preventive medicine*, *126*, 105779. https://doi.org/10.1016/j.ypmed.2019.105779
- 6. Ejike O. (2015). Factors and Attitudes affecting sexual behavior and sex practices among secondary school students in Enugu. *Journal of Experimental Research, Vol 3 No 1 June 2015.* Retrieved from

- https://www.erjournal.com/papers/OBUOHA\_JUNE\_201 5 3 1.pdf.
- 7. World Health Organization (2023) Sexually transmitted infections https://www.who.int/health-topics/sexually-transmitted-infections#tab=tab\_1. Last accessed April 5, 2023
- 8. Nigussie, T., & Yosef, T. (2020). Knowledge of sexually transmitted infections and its associated factors among polytechnic college students in Southwest Ethiopia. *The Pan African Medical Journal*, 37. https://doi.org/10.11604/pamj.2020.37.68. 22718. Last accessed April 4, 2023
- 9. Jacques M. Nsuami, Ladatra S. Sanders & Stephanie N. Taylor (2013). Knowledge of Sexually Transmitted Infections Among High School Students, American Journal of Health Education, 41:4, 206-217, DOI: 10.1080/19325037.2010.10599147
- 10. Van Gerwen, O. T., Muzny, C. A., & Marrazzo, J. M. (2022). Sexually transmitted infections and female reproductive health. *Nature Microbiology*, 7(8), 1116-1126. https://doi.org/10.1038/s41564-022-01177-x
- 11. Rizwan, S., Rath, R. S., Vivek, G., Nitika, A. G., and Farhad, A. (2015). Knowledge Attitude Practice Study on Sexually Transmitted Infections/Reproductive Tract Infections (STIs/RTIs) among married women in rural Haryana. *Indian Dermatology Online Journal.* 2015;6(1):9-12.
- 12. Amu, E. O., &Adegun, P. T. (2015). Awareness and Knowledge of Sexually Transmitted Infections among Secondary



School Adolescents in Ado Ekiti, Southwestern Nigeria.

- 13. Oluyemi, J. A., Yinusa, M. A., Abdullateef, R., Sunday, A.,& Kehinde, K. (2015). Factors Influencing the practice of self-medication among bankers in selected new generation banks in Ilorin, Nigeria.
- 14. Nwatu, C., Ekenechukwu, Y., Ezeala-Adikaibe, B., Okafor, C. &Onwuekwe, I. (2017). HIV and sexually transmitted infections knowledge and practices: a survey of female secondary school students in Enugu, Southeast Nigeria. Department of Internal Medicine, College of Medicine, University of Nigeria (UNN), Nsukka, Enugu State, Nigeria.
- 15. Okere, A.U. (2006). Knowledge of HIV/AIDS issues among in-school Adolescents. *Journal of Educational Foundations*, *3*, 44-53.
- 16. Ogbe, J. O. (2011). Knowledge, source of information and practice of condom use in the prevention of sexually transmitted infections (STIs) among rural Delta state. Studies on Ethno-Medicine. 2011;5(2):107–114.
- 17. Castillo, A., Carmen, L. D., Aguirre, A., Barrera, A. B., Valle-Solís, Y., Ofelia, M., Montero, V., Kantún-Marín, C. & Amparo, M. J. (2017). Age, Gender and Resilience in Sexual Risk Behavior of STI

- among adolescents in Southern Mexico. Nursing Science Doctoral.
- 18. Mwale, M., &Muula, A.S. (2018). Effects of adolescent exposure to behaviour change interventions on their HIV risk reduction in Northern Malawi: a situation analysis. *Journal of Social Aspects of HIV/AIDS*, 15, 1, 146-154. Doi:10.1080/17290376.2018.1529612
- 19. Bell, J. W. (2009). USFDA andensuring food safety: Perspective of a seafood scientist. Paper presented at the Institute of Medicine: National Research Council Committee on Review of FDA's Role in Ensuring Safe Food Meeting. Washington, DC: USA.
- 20. Ajide, K. B., & Balogun, F. M. (2018). Knowledge of HIV and intention to engage in risky sexual behaviour and practices among senior school adolescents in Ibadan, Oyo State, Nigeria.
- 21. Munakampe, M. N., Zulu, J. M., &Michelo, C. (2018). Contraception and abortion knowledge, attitudes and practices among adolescents from low and middle-income countries: a systematic review. *BMC Health Services Research*, 18(1), 909. https://doi.org/10.1186/s12913-018-3722-5

Journal of Global Issues and Interdisciplinary Studies, Vol. 2, Issue 1; 2024 Published by Institute of Health Science, Research and Administration Nigeria Print ISSN: 1115-6031 Online ISSN: 3043-4424



In the rapidly evolving landscape of academic and professional publishing, the dissemination of knowledge through journals and articles stands as a cornerstone of scholarly communication.

IHSRAN Manual on Publishing Journals and Articles serves as an indispensable guide, offering an in-depth exploration of the multifaceted process that transforms ideas into published works of significance. This manual not only unravels the intricate threads of manuscript preparation, peer review, and publication ethics but also navigates the digital age intricacies, including open access paradigms and online platforms.

Whether you are a novice researcher seeking to navigate the complexities of publishing or a seasoned scholar aiming to refine your approach, this manual promises to be a beacon, illuminating the path to impactful and responsible dissemination of research.

Join us as we blend tradition and innovation, enabling writers to make valuable contributions to global array of expertise. We approve and release journal papers, ensuring your work is well-cared for.

Initiating the process of publishing in an IHSRAN journal involves ensuring the publication of high quality manuscript and journal. Throughout the publication, there are guidelines to support you, allowing you to write, release and publish your articles.

Allow us to assist you in enhancing the potential of your upcoming publication!

Print ISSN: 1115-6031 Online ISSN: 3043-4424