Knowledge Level On Hiv/Aids: A Case Study On Students Perception And Sexuality Among University Students Community.

Alice A. Anika, Leonard Kiti Alii

Educational psychology and Special Needs DepartmentPwani University-P.0.Box 195 Kilifi, Kenya. Physics and Mathematics departmentPwani University-P.0.Box 195 Kilifi, Kenya.

Abstract:- Cross sectional survey design was used on this study among university students in Kilifi - Kenya. A sample size of 364 was used. Stratified random sampling technique and a questionnaire on Knowledge level on HIV and AIDS was administered. The study revealed knowledge level as 90%. Results on student's sex and sexuality revealed that 5.6% had multiple sexual partners, 28.9% had one partner, 93.3% are in heterosexual relationships, and 6.7% practiced lesbianism. Sex methods used emerged with heterosexual (90%) most preferred, oral sex(6.6%) and anal sex (2.67%). 7% of respondents were alcoholics, 7% had been raped, 1% HIV positives.

I. INTRODUCTION

HIV virus is still a killer disease among the youth (HIV Surveillance Report 2015). In 2015 alone, 670,000 young people between the ages of 15 to 24 were newly infected with HIV, of who 250,000 were adolescents between the ages of 15 and 19 (UNAIDS 2015 Report). About 44% young adults of between 18-24 years were reported to be living with the HIV virus but did not know they had HIV (UNICEF Report 2015). However, since 2000, it is reported that about 30 million new infections have been prevented so far worldwide; 8 millions have also been averted while 1.5 million people who are living with HIV are now on treatment (HIV Surveillance Report 2015). No vaccine has been discovered to date. These reports points to the fact that there is need to establish empirical knowledge gap on HIV infection, prevention and treatment methods among institutions of higher learning which is the herb of the young adults life, to mitigate the appropriate prevention strategies. This would help avail data for the student's information data bank, establishment of reliable and valid data, continued research in related areas and for individual, perception, attitude and behavior change. Particular reference to this study focused on current statistics, unveiled data on prevalence, prevention methods, modes of transmission, treatment, general knowledge on HIV and AIDS and challenges affecting the youth today on sex and sexuality. Although, the increased prevalence rate among the adolescents and young adults presumably could be due to generation of children infected with HIV prenatally and who by now have turned to be the young adults. The youth are sexually active during these periods and therefore are exposed to sexual practices, oblivion of further sexual risks with their infected peers. This study was in response to the Kenya Vision 2030, Strategic plan and the call on 2015 New Global HIV strategy which was launched by the International Health with all other partners to end the AIDS epidemic by 2030 among the youths.

1.2 Survey Objectives

The key objective of this survey was to obtain a baseline data on student knowledge level on HIV virus and infection prevalence to mitigate for appropriate intervention strategies.

1.2.1 Specific objectives:

- 1. To establish levels of awareness of PU students on HIV and AIDS in terms of;
- Current statistics
- Mode of Transmission and Prevention methods
- Treatment, and
- General knowledge
- 2. To suggest intervention strategies based on the baseline survey findings

II. METHODOLOGY

The study used cross sectional survey research design. This design was suitable for this study because it was possible to cover a range of participants regardless of age difference and generate data required for both

quantitative and qualitative data analysis. The study was carried out at Pwani University main campus, in Kilifi-Kenya. The student's current enrolment was about 5432. Stratified random sampling procedure was used to sample the students. The sample size was calculated using Krejcie et al, (2002) formula and table for calculating sample size. According to this formula, population above 7000 yield sample size of about 364. Permission was sort and notification given to the University administration to carry out the survey. The Ethics review Board was consulted for ethics certification. Participants consent was sort before administration of the tool. The questionnaires were administered to the students at various points within the University. Each questionnaire was accompanied with a consent form and a cover letter which explained the purpose of the study. After data collection, the questionnaires were coded and analyzed using both qualitative and quantitative data analysis techniques. The Social Package for Statistics Analysis (SPSS) was used to calculate the results. Participants were assured of anonymity, confidentiality. Dissemination of findings after study completion was also declared as a protocol for the study undertakings.

3.1 Instrumentation, validity and reliability

The study used questionnaires to generate data on level of awareness among participants on various aspects of HIV and AIDS. The key issues addressed included knowledge on prevalence rate on HIV and AIDS, transmission, prevention, treatment and general knowledge. The items were 32 in number, with 5 sections. 4 sections out of the 5 sections - carried 5 items while the general questions had 10 items. Two items were open ended questions to solicit opinion on improvement of programme. The items ranged from true/false, strongly agree to strongly disagree, multiple choices and open ended questions. The instruments were subjected to expert scrutiny to establish validity and reliability. Pilot study was conducted first to a certain the validity and reliability of the instrument. The alpha coefficient for the items was 0.728 suggesting that the items had a relatively high internal consistency. From the total population of students of about 5000, 30% was sampled for pilot as shown in Table 1.2. Hence a sample size of 70% was used for pilot study.

FINDINGS AND DISCUSSIONS

4.2 Demographic Characteristics of the Study Sample,

III.

4.2.1 Respondents' Gender

In terms of gender, the males formed 61.4% of the total sample size, while the females were 38.6%, Table 4.1

	Table 4.1: Respondents' Gender					
	Gender of Respondent					
Frequency Percent, (%)						
Valid	Male	94	61.4			
	Female	59	38.6			
	Total	153	100.0			

Table 4.1: Respondents' Gender

The gender representation is in line with the PU students' gender balance. The males form two thirds of the student population while the females form one third.

4.2.2 Age of Respondents

Majority of the students interviewed were within the age bracket of 17-30, Table 4.2. According to the education system in Kenya, this age bracket is in line with the expectations as per the 8.4.4 system of education. This is also because the students interviewed were on a regular programme as opposed to institutional based programmes which include mature students some of whom are parents or already employed.

Table	4.2:	Age	of	Respondents

Age of Respondent					
Frequency Percent, (%)					
Valid	17-25	138	90.2		
	26-30	9	5.9		
	Total	147	96.1		

4.2.3 Year of Study of Respondents

The respondents' year of study was quite representative. The largest group of students at PU were the undergraduates, followed by Diploma, Certificate then Masters. The sample therefore showed clear representation. Table, 4.3

Table 4.5. Age of Respondents							
		Year of Study					
		Frequency	Percent, (%)				
Valid	Certificate	6	3.9				
	Diploma	25	16.3				
	Undergraduate	106	69.3				
	Post Graduate	13	8.5				
	Total	150	98.0				

Table 4.3: Age of Respondents

4.2.4 School of Respondents

All the schools were well represented. School of Education had the largest number of students, followed by School of Humanities, School of Pure and Applied Sciences, (SPAS), School of Agricultural and Environmental Sciences, (SEAS) and , School of Health Sciences, (SHS), in that order - Table 4.4

Table 4.4: School Respondents						
		School respondent				
		Frequency	Percent			
Valid	Education	67	43.8			
	Humanities and Social Sciences	30	19.6			
	Pure and Applied Sciences	27	17.6			
	Agricultural and Environmental Studies	18	11.8			
	Health Sciences	11	7.2			
	Total	153	100.0			

Table 4.4: School Respondents

4.2.5 Students Relationships, Type and Preferred Methods of Sexual Encounters

Majority of students had no sexual partners, (65%). The second largest groups were those with one partner, (28.9%), followed by those with multiple partners at 5.6%. It is important to note that the percentage of those with sexual partners, whether one or many is quite significant. This indicates that as young adults, this is the time they require close guidance and continuous counseling so as to adopt healthy lifestyles, Table 4.5, 4.6 and 4.7

Table 4.5. Student Kelationships							
Relationships							
	Frequency Percent 95% Confidence Interval						
Valid	No sexual partner	93	65.5	64.83	66.15		
	One partner	41	28.9				
	Multiple sexual partners	8	5.6				
	Total	142	92.8				

Table 4.5: Student Relationships

The types of relationships students engage in include lesbianism and heterosexual behaviors. Majority of the students, (93.3%) who are sexually active engage in heterosexual behavior. This is in line with the Kenya cultural values where other sexual encounters such as lesbianism and homosexuality are not embraced or encouraged and not accepted by most communities in Africa, Table 4.6

	Table 4.6: Types of Relationships						
If in a sexual relationship , what type							
Frequency Percent, (%) 95% Confidence Interval					idence Interval		
Valid	Heterosexual	70	93.3	92.68	93.98		
	Lesbianism	5	6.7				
	Total	75	49.0				

Table 4 (. Tomas of Deletionshins

The survey observed that students practice oral, anal and heterosexual methods of sexual activities. Majority of students practice, heterosexual, followed by oral and lastly anal sexual patterns. This is an important revelation in the fight against HIV/AIDS scourge. Awareness creation related to these various sexual encounters identified is necessary, Table 4.7

Table 4.7: Sex Methods Preferred

If Sexually active, what sex method do you prefer?							
		Frequency	Percent	95% Confid	ence Interval		
Valid	Oral	5	6.67				
	Anal	2	2.677				
	Heterosexual	66	90.41	89.62	91.2		
	Total	73	47.7				

4.3 Health Status

i) General Health Status

The health status of respondents indicates that students experience different health related problems. These include STI, 1%; HIV+ 1%, Drug addiction 1%, and Alcoholism, 7%. 11% of the respondents have suffered rape, while among the female gender 42% are currently not pregnant. The statistics reveal a wide array of relationship and sex related issues that cut across the board. The statistics therefore point towards the realization that there is need for an all-round, holistic way of managing behavior related issues among the students, Table 4.8

	Current Health Status							
		Frequency	Percent	95% Conf	idence Interval			
Valid	Pregnant	1	1					
	HIV+	1	1					
	STI infected	1	1					
	Drug addicted	1	1					
	Not pregnant	42	42.00	41.03	44.43			
	Alcoholic	7	7					
	Recently Raped	11	11					
	Others	36	36					
	Total	100	65.4					

Table 1 8. Current Health Status

ii) Pregnancy

50% of the respondents who were pregnant were willing to carry the pregnancy to full term. The other 50% were not ready for the same task. This implied that some of the pregnancies were not planned and therefore involved unprotected sex without taking into consideration the responsibility or risks associated with unprotected sex. This situation also calls for more education on family planning options, (Table 4.9)

	Table 4.9: Pregnancy							
	If pregnant do you want to carry it to full term?							
Frequency Percent, (%) 95% Confidence Interval					ence Interval			
Valid	Yes	2	50.0	25.5	74.5			
	No	2	50.0					
	Total	4	100.0					

T 11 40 **D**

iii) Condom Use and Awareness of other Protective Methods

Condom use among students is varied. 83% of respondents know how to use condoms, 13% do not. 57% use condoms all the time, 21% most of the time, 11% rarely and 12% never. About 20% of the students do not or rarely use condoms. This is a worrying trend because it is a significant figure in HIV infection. Behavior change communication encourages consistency of protection use. The respondents indicated that the inability to use condoms always is associated with alcohol, lack of awareness and inadequate condoms in the dispensers, Table 4.10, 4.11 and 4.12

Table 4.10: Use of Condoms

Do you use (condom) protection during Sex?						
Frequency Percent, (%) 95% Confidence Interval					ce Interval	
Valid	Yes all the time	59	57.3	56.36	58.24	

	Most of the time	21	20.3	
	Rarely	11	10.7	
	Never	12	11.7	
	Total	103		
Total		153		

The results revealed that the respondents were quite informed on sexual protective methods. Table 4.11, 73.1% are aware of sex protective methods. The percentage of those not aware was low, 6.2%. This implied that students are responsible in their sexual interactions and behaviors.

	Table 4.11: Reasons for not Using Condoms								
	If no what is the reason								
	Frequency Percent 95% Confidence Interval								
Valid	Under The Influence of	6	26.1						
	Alcohol And Drugs								
	Lack of Information	2	8.7						
	Empty Dispensers	11	47.8	43.54	52.06				
	Others (Specify)	3	13.0						
	5	1	4.3						
	Total	23	100.0						

Table 4.11: Reasons for not Using Condoms

Table 4.12 Awareness of Sex Preventive Methods

	Am well aware of sex protective methods								
		Frequency	Percent	95% Co	onfidence				
		(%) Interval		1					
Valid	Not at all characteristic of me	9	6.2						
	Slightly characteristic of me	16	11.0						
	Somewhat characteristic of me	8	5.5						
	Moderately characteristic of me	6	4.1						
	Very characteristic of me	106	73.1	7250	73.70				
	Total	145	100.0						

iv) Sex and Marriage

Respondents had different views on sexual encounters. Majority, (63%) were willing to wait or delay sexual encounters till they get married. The percentage of students not willing to delay their sexual encounters 37% was also significant. Table 4.13

	Table 4. 13: Sex and Marriage								
	I want to have sex after marriage								
		Frequency	Percent	95% Conf	fidence				
				Interval					
Valid	Not at all characteristic of me	39	26.9						
	Slightly characteristic of me	7	4.8						
	Somewhat characteristic of me	15	10.3						
	Moderately characteristic of me	21	14.5						
	Very characteristic of me	63	43.4	42.73	44.07				
	Total	145	100.0						

76% of the respondents also indicated that they are aware of their sexuality. This is quite encouraging as it translates to one being able to make decision with regard to sexuality and responsible behavior, Table 4.14

Table 4.14: Responsible Sexual BehaviorMy sexuality is something that I am largely responsible for

		Frequency	Percent,	95% Confide	nce
			(%)	Interval	
Valid	Not at all characteristic of me	9	6.3		
	Slightly characteristic of me	9	6.3		
	Somewhat characteristic of me	6	4.2		
	Moderately characteristic of me	10	7.0		
	Very characteristic of me	108	76.1	75.51	76.69
	Total	142	100.0		

It was also observed that participants are aware of their sexual feelings, (70.6%). Small percentage still does not understand their sexual feelings and should be targeted for further education and awareness creation, Table 4.15

I am very aware of my sexual feelings								
			Percent	95% Conf	idence			
			(%)	Interval				
Valid	Not at all characteristic of me	9	6.3					
	Slightly characteristic of me	12	8.4					
	Somewhat characteristic of me	11	7.7					
	Moderately characteristic of me	10	7.0					
	Very characteristic of me	101	70.6	69.98	71.22			
	Total	143	100.0					

 Table 4.15: Awareness of Sexual Feelings

(v) Other Sex Related Aspects

Other aspects of sex related prevention results included, 59.9% knew how to prevent STIs. 31% do not feel anxious when they think of sexual engagement, while 25% are quite comfortable with these encounters. 53% are assertive about their sexuality, 51.8% are depressed about sex without protection, while 18% are not bothered. 44% of the respondents are of the opinion that sex is not necessary while still in school, while 31% feel that there is nothing wrong with sex while still in school.

4.4.1 Global and National Issue Related to HIV/AIDS

This section tested the level of students' awareness on global and national issues related to HIV/AIDS. Majority of the respondents indicated that globally, the number of HIV infected people is more than One Million. They are also aware that the number of HIV infected people in Kenya is more than One Million, Table 4.14 and Table 4.15. The awareness level on the percentage of women in Kenya infected with HIV virus is also in line with general knowledge about the same situation, Table 4.16

	Table 4.14. A watchess on HI (AMD) I revalence at Global Devel								
	Globally the Number of HIV infected People are more than 1 M								
	Frequency Percent 95% Confidence Interval								
Valid	True	125	83.3	82.81	83.79				
	False	25	16.7						
	Total	150	100.0						

 Table 4.14: Awareness on HIV/AIDS Prevalence at Global Level

Table 4.14: Awareness on HIV/AIDS Prevalence in Kenya

	Number of HIV People in Kenya are 500,000							
FrequencyPercent95% Confidence Interval				erval				
Valid	True	61	41.5					
	False	86	58.5	57.84	59.16			
	Total	147	100.0					

Table 4.15: Number of Women with HIV Virus in Kenya

	Number of Women with HIV in Kenya is below 10%								
Frequency Percent 95% Confidence Interval									
Valid	True	15	10.1						
	False	133	89.9	89.50	90.3				
	Total	148	100.0						

The respondents are aware of the prevalence of HIV/AIDS in Kenya. HIV/AIDS prevalence is not lowest in the Rift Valley region as the statement tried to affirm, Table 4.16. There is general agreement that HIV/AIDS has increased among married couples in Kenya. 74.7% supported this statement, Table 4.17. A small percentage of students are still not knowledgeable about the HIV/AIDS prevalence in Kenya as per the previous provinces. 25% of the respondents do not know that HIV infection has increased among the married couples. This is a matter of great concern as there is an increasing trend among young girls to have relationships with married men they refer to as 'sponsors'

	Lowest HIV Prevalence in Kenya is Rift valley								
Frequency Percent 95% Confidence Interva			erval						
Valid	True	52	35.9						
	False	93	64.1	63.45	64.75				
	Total	145	100.0						

Table 4.16: Lowest HIV Prevalence in Kenya is Rift valley Lowest HIV Prevalence in Kenya is Rift valley

4.4.2 HIV Virus Prevention and Transmission

Abstinence was accepted as the best and surest way of avoiding HIV virus. This was supported by 68% of the respondents. However, there is still 15% of the respondents who are of the contrary opinion, and 3% who are not aware at all, Table 4.17. There was also strong disagreement that antibiotics can prevent the infection by HIV virus, Table 4.18. 60% of the respondents also disagreed with the statement that using two condoms can help reduce the spread of HIV Virus. On the other hand, 34% of responded did not support the statement that deep kissing can cause the spread of the Virus. On whether antibiotics can help in reducing the spread of HIV Virus, 55% supported this statement indicating that the level of awareness on HIVAIDS and the use of antibiotics are low.

_	Table 4.17: Abstinence								
	Abstinence is the only surest way of avoiding HIV								
		Frequency	Percent, (%)	95% Coi	nfidence Interval				
Valid	Strongly Disagree	23	15.1						
	Disagree	21	13.8						
	Don't Know	5	3.3						
	Agree	30	19.7						
	Strongly Agree	73	48.0	47.36	48.64				
	Total	152	100.0						

		5	5.5		
	Agree	30	19.7		
	Strongly Agree	73	48.0	47.36	48.64
	Total	152	100.0		
		Table 4.18: Us	se of Antibiotics		
	Use of anti	biotic can preve	ent one from acc	quiring HIV	
		Frequency	Percent	95% Confiden	ce Interval
Valid	Strongly Disagree	83	55.3	54.65	55.95
	Disagree	45	30.0		
	Don't Know	15	10.0		

2.0

2.0

100.0

3

3

150

The respondents were further presented with statements testing their knowledge on transmission of HIV Virus. On whether all pregnant women infected with HIV can have HIV+ babies, the responses revealed that this is not always the case. 45% strongly disagreed with this statement and 40% disagreed. As per the general knowledge of mother to child prevention, the transmission can be minimized based on the care given during delivery and when breastfeeding, Table 4.19. Equally, there was a high percentage of respondents, who strongly disagreed and disagreed with the statement that passing urine immediately after sexual contact can prevent HIV virus transmission, Table 4.20

Table 4.19: All pregnant women infected with HIV can have HIV+ babies							
	Frequency Percent 95% Confidence Interval						
Valid	Strongly Disagree	69	45.4	44.76	46.04		

Agree

Total

Strongly Agree

Disagree	61	40.1	
Don't Know	3	2.0	
Agree	15	9.9	
Strongly Agree	4	2.6	
Total	152	100.0	

Table 4	Table 4.20: Passing Urine immediately after sexual contact can prevent HIV							
		Frequency	Percent (%)	95% Con	fidence Interval			
Valid	Strongly Disagree	74	49.3	48.65	49.95			
	Disagree	54	36.0					
	Don't Know	15	10.0					
	Agree	5	3.3					
	Strongly Agree	2	1.3					
	Total	150	100.0					

It was also observed that the respondents were aware that anal sex could transmit HIV Virus. This has come out clearly on Table 4.21 where 57.6% strongly disagreed and 25.8% disagreed with the statement that anal sex cannot transmit HIV.

	Table 4.21: Having Anal sex cannot transmit HIV virus							
		Frequency	Percent	95% Confid	dence Interval			
Valid	Strongly Disagree	87	57.6	56.96	58.24			
	Disagree	39	25.8					
	Don't Know	16	10.6					
	Agree	5	3.3					
	Strongly Agree	4	2.6					
	Total	151	100.0					

The respondents were also presented with the statement that a woman cannot get HIV virus if she has sex during her menses. The responses are given on Table 4.22. 58.3% of the respondents strongly disagreed with this statement, 29.3% disagreed, while 5% agreed. There is a small percentage, 13% who did not have any idea. This means that the respondents are aware that the HIV virus can be transmitted as long as where there is no protection during sexual contact

Table 4.22: A women cannot get HIV if she has sex during her menses							
		Frequency	Percent	95% Confid	lence		
				Interval			
Valid	Strongly Disagree	88	58.3	57.66	58.94		
	Disagree	45	29.8				
	Don't Know	13	8.6				
	Agree	2	1.3				
	Strongly Agree	3	2.0				
	Total	151	100.0				

The question on whether coughing and sneezing cannot spread HIV virus also attracted mixed reactions. 46.7% strongly agreed that this is the case; 25.7% agreed; 14% strongly disagreed and 9.9% disagreed and 3% had no idea about this matter, Table 4.23. The results show that there is need for more awareness campaigns as there was no clear win on either side.

	Table 4.23: Coughing and Sneezing do not spread HIV							
		Frequency	Percent	95% Con	fidence Interval			
Valid	Strongly Disagree	22	14.5					
	Disagree	15	9.9					
	Don't Know	5	3.3					
	Agree	39	25.7					
	Strongly Agree	71	46.7	46.06	47.34			
	Total	152	100.0					

4.5 General Knowledge Questions

In handling HIV/AIDS patients, the respondents were of the opinion that it necessary to take precautions, that is wear gloves, Table 4.24. This proves that the respondents are aware of the safety precautions related to HIV/AIDS

Table 4	Table 4.24: Which of the following is a must while handling an Aids Patient with sores							
		Frequency	Percent	95% Co	onfidence			
				Interval				
Valid	Wear gloves when birthing them	135	91.8	91.43	92.17			
	Throw away cups and Plates after	7	4.8					
	feeding							
	Don't touch them	5	3.4					
	Total	147	100.0					

There was mixed responses on the symptoms of HIV/AIDS especially in stage three. 38.5% selected coughing and zoster, 23.7% selected Herpes Zoster, while 37.8% selected generalized lymphadenopathy. There was no clear general agreement on the stage three symptoms of HIV/AIDS. This requires further work, Table 4.24

	Table 4.24: Which symptom is most likely to occur in stage three							
Frequency Percent 95% Confidence Inter					dence Interval			
Valid	Herpes Zoster	32	23.7					
	Coughing and zoster	52	38.5	37.79	39.21			
	Generalized lymphadenopathy	51	37.8					
	Total	135	100.0					

Other general questions testing facts about HIV/AIDS also attracted varying responses. As given in Table 4.25. 85% of the respondents observed that eating from the same plate with HIV + people is not necessarily a path through which the HIV virus is transmitter

	Table 4.25: Which is not true about HIV treatment							
		Frequency	Percent	95% Con Interval	fidence			
Valid	There is no cure for HIV	12	8.2					
	Eating from the same plate with an infected person gives HIV	126	85.7	85.23	86.17			
	HIV weakens you body Immunity	6	4.1					
	An infected person may look and feel okay for years	3	2.0					
	Total	147	100.0					

The respondents were able to relate HIV to AIDS. 73.6% were able to identify the false statement that AIDS causes HIV. This statement is not correct as it a general knowledge that HIV causes AIDS, Table 4.2

Table 4.26: Which is not correct about HIV						
	Frequency	Percent	95% Confidence			
			Interval			
An infected couple can give birth to a healthy infant	5	3.6				
AIDS causes HIV	103	73.6	72.98	74.22		
Baby can be infected through breastfeeding	15	10.7	12.90	17.22		
Mosquito bites cannot cause HIV infection	17	12.1				
Total	140	100.0				

The respondents correctly stated that a person with the HIV virus develops AIDS when the CD4 Count is below 200, (Table 4.27)

Table 4.27: When does a person with HIV infection have AIDS						
	Frequency	Percent	95% Confidence			
	Frequency	Percent	95% Confidence			

				Interval	
Valid	When CD4 count is below 200	88	73.9	73.18	74.62
	When CD4 count is 400	13	10.9		
	When CD4 count is at 1000	7	5.9		
	When CD4 count is 500	11	9.2		
	Total	119	100.0		

There was general understanding that it is not always the case that among HIV+ couples, the person who dies first is the one who brought the disease. 90.6% of the respondents disagreed with this statement, 79.7% also responded that it is not always the case that orphans who had HIV+ parents are most likely to die, Tables 4.28 and 4.29

Table 4.28: One who dies first is the one who brought it							
Frequency Percent 95% Confidence Interval			dence Interval				
Valid	True	13	8.7				
	False	135	90.6	90.22	90.98		
	Total	149	100.0				

Table 4.29: Orphans with dead parents are most likely to get HIV							
Frequency Perce			Percent (%)	95% Confidence Interval			
Valid	True	30	20.3				
	False	118	79.7	79.17	80.23		
	Total	148	100.0				

High level of awareness was also observed in relation to HIV/AIDS and STIs. 78.1% of the respondents indicated that sexually transmitted disease can predispose one into getting HIV virus, Table 4.30. About 88.7 of those interviewed did not support the statement that there is no need in spending a lot of money on HIV programs since there is no cure anyway, Table 4.31

Table 4	Table 4.30: Sexually transmitted infections can predispose one into getting HIV							
Frequenc		Perce	95% Confidence Interval					
У		nt						
Valid	True	114	78.1	77.54	78.66			
	False	32	21.9					
	Total	146	100.0					

 Table 4.31: There is no need in spending a lot of money on HIV programs since there is no cure

 onyway

	anyway							
		Frequency	Percent	95% Confidence Interval				
Valid	True	17	11.3					
	False	133	88.7	88.29	89.11			
	Total	150	100.0					
Total		153	100.0					

On the issue of concordant couples, 85.7% of the respondents rated the statement that there is no need for a concordant couple to use protection since they both have the virus. This is in line with the facts on the ground that protection against HIV virus should an ongoing exercise to give no chance to the virus, Table 4.32

Table 4.32: There is no need for a concordant couple to use protection since they both have the virus							
		Frequency	Percent	95% Confidence	e Interval		
Valid	True	21	14.3				
	False	126	85.7	85.23	86.17		
	Total	147	100.0				

There was general agreement among the respondents that Alcohol and Drug Abuse, (ADA) is a predisposing factor in contraction of the HIV virus. 87.1% of the respondents rated this statement as 'true'', Table 4.33. This is line with the facts on the ground that ADA can interfere with an individual's ability to make choices and appropriate decisions

Table	Table 4.33: Alcohol and Drug abuse is a predisposing factor in contracting HIV							
Frequency Percent 95% Confidence Interval				nce Interval				
Valid	True	128	87.1	86.65	87.55			
	False	19	12.9					
	Total	147	100.0					

Counseling and testing were also seen as appropriate ways or entry point to care and treatment of HIV infections. The high number, (86.6%) of respondents who supported this view shows the level of awareness among the students on the need to seek counseling to fight against HIV virus. This calls for strengthening the ACU department in all universities and public services. Table 4.34. Similarly, the respondents are aware that donating blood cannot make one be infected with HIV virus. This confirmed through the observation in Table 4.35 where 67.6% rated the statement as false. Facts show that donating blood cannot really be a channel through which HIV virus is transmitted. Blood transfusion also goes through a process of screening which minimizes chances of spreading the HIV virus

Table 4.34: Counseling and Testing for HIV is an entry point to care and treatment							
Frequency Percent (%) 95% Confidence Interval				ence Interval			
Valid	True	129	86.6	86.15	87.05		
	False	20	13.4				
	Total	149	100.0				

Table 4.35: Donating blood can make one be infected with HIV							
		Frequency	Percent (%)	95% Confi	dence Interval		
Valid	True	48	32.4				
	False	100	67.6	66.98	68.22		
	Total	148	100.0				

The respondents were presented with various practices related to sexual encounters. There was high score, (92%) for solo masturbation, (Table 4.36). This practice was seen as low risk practice as it does not involve any exchange of fluids or contact with a partner. Solo masturbation was followed by unprotected sex at 4.4% and 3.6% for homosexuality. These results implied that the respondents were aware of the risks involved in any sexual practices that involve two individuals.

	Table 4.36: Which of the following is a low risk in HIV infection						
Frequency Percent (%) 95% Confidence					ce Interval		
Valid	Homosexuality	5	3.6				
	Solo masturbation	126	92.0	91.61	92.39		
	Unprotected anal sex	6	4.4				
	Total	137	100.0				

In terms of groups at risk, there was no general agreement for one particular group. The highest figures, (47.7%) were for the statement that all the groups, truck drivers, IDUs, University students, fish mongers are at risk groups in relation to HIV infection - Table 4.37.

	Table 4.37: Which group is at less risk							
		Frequency	Frequency Percent (%) 95		Interval			
Valid	Truck drivers	10	7.7					
	IDU's	25	19.2					
	University	6	4.6					
	students							
	Fish Mongers	27	20.8					
	All the above	62	47.7	46.95	48.45			
	Total	130	100.0					

The statement that disclosure of HIV results should be kept open so that we can avoid those infected also generated mixed reactions among the respondents. Among the respondents 57.8% strongly disagreed with

,	Table 4.38: HIV results should be kept open so that we can avoid those infected						
Frequency Percent (%) 95% Confidence Inter							
Valid	Strongly Disagree	85	57.8	57.14	58.46		
	Disagree	29	19.7				
	Agree	19	12.9				
	Strongly Agree	14	9.5				
	Total	147	100.0				

this statement and 19.7% disagreed. This confirms that HIV/AIDS related stigma still exists and more work should be done in this area, Table 4.38

Chi-square tests were carried out to find out whether there was any association between gender and the responses. On the use of condoms for instance, there were 62.13% of those who responded were males while 37.87% were females. 57.81% of the male respondents and 56.41% of the female respondents said that they used condoms all the time. These proportions were however not significant (Chi-square statistic = 1.284, p value = 0.733). Current health stated was associated with gender (Chi square statistic = 59.969 p-value = 0.000.

Chi-Square Tests							
	Value	Df	Asymp. Sig. (2-sided)				
Pearson Chi-Square	1.284 ^a	3	.733				
Likelihood Ratio	1.287	3	.732				
Linear-by-Linear Association	.163	1	.686				
N of Valid Cases	103						

Chi-Square Tests							
	Value	df	Asy				
			mp. Sig. (2-sided)				
Pearson Chi-Square	59.969 ^a	7	.000				
Likelihood Ratio	70.834	7	.000				
Linear-by-Linear Association	46.948	1	.000				
N of Valid Cases	100						

IV. DISCUSSIONS

Even though knowledge level of students on HIV and AIDS is high, the varied response shows that the age bracket under study as reported (HIV Surveillance Report, UNAIDS Report 2015, UNICEF Report 2015, KAIS 2012) confirmed that the adolescents and the young adults are a vulnerable group under HIV threat. This study is one of the responses to other suggested youth friendly prevention mechanisms suggested by other researchers such as the adaptation of Adolescents and youth Assessment and Decision Making Tool (AADM) (UNICEF, 2015 Annual Report). This study contributes to the rapid monitoring of HIV knowledge level, attitude, prevalence and trends among the youth. The results from this study pointed out clearly the obvious sexual engagements among the youths. HIV knowledge level was high at 90% with positive attitude level at 76% but even though, the trends in sexual engagements results points out active sexual knowledge and sex type of activities as follows; heterosexual (90%), oral sex (6.6%) and anal sex (2.67%), condom use (57.3%), 7% alcoholics addicts, 7% had been raped, 1% were HIV positives. This result implies that further researches need to focus on best strategies which can guide the young adults to responsible adulthood.

Further implications of these results are that 76% are positively aware of the HIV scourge and they take responsibility for their actions in risky sexual engagements. On the contrary, only 31.5% of the young people have accurate basic knowledge of HIV transmission. In addition, despite their high knowledge level in HIV pandemic in general, this situation explains some of the reasons for the high increase rate of HIV prevalence among the youth. In Africa alone, about 2100 young adults and adolescences are infected with HIV every day (AVERT, 2016). Student's life styles in institutions of higher learning shows heightened increased puberty realization, peer pressure, risky sexual behaviours and sudden realization from parental freedom. The implications of this study is that it strengthens other studies such as Kenya county report on unintended pregnancies in Kenya (2014) which revealed that about 14% of pregnancies in Kenya often end in abortion. Since about 50% of responded who were pregnant consented to not willing to carry the pregnancy to term , It has been revealed that most of these abortions are performed by unskilled people, often in conditions that do not

meet minimal medical standards and are not followed with the appropriate post-abortion care. These unsafe abortions result in about 2,600 deaths of women and girls annually in Kenya (Wamwana, E.B., Ndavi P.M, Gichangi P.B, Karanja J.g., Muia E.G. (2006).Further to this, if the study results revealed that 5.6% had multiple sexual partners while 28.9% engage in unprotected sex and 93.3% are in heterosexual relationships, then we may not rule out possibilities of risky sexual behaviours engagements since 13% do not even know the use of condoms. It has been observed and documented that, among female young adults and adolescence age groups, maternal mortality is one of the top cause of death worldwide (Olukoya, A.A., et al. 2001) especially in developing countries among women of reproductive age of whom the group under this study fell. Hence there is need to strengthen rigorous mentorship and guidance programmes in institutions of higher learning to help facilitate transition of young adults from childhood stages of development. Further studies may look into knowledge, perception and attitude in health system information herb for quick accessibility and utilization of health data and further research.

REFERENCES

- [1] HIV Surveillance (2014) Annual Report
- [2] HIV/AIDS AVERTS Reports (2015)
- [3] Idele, P., *et al* (2014) 'Epidemiology of HIV and AIDS Among Adolescents: Current Status, Inequities, and Data Gaps
- [4] Kenya AIDS Indicator Survey –KAIS, (2012)
- [5] Krejcie *at al* (2002) R.V., & Morgan, D. W. (1970) Determining sample size for research activities, Educational and psychological measurement, 30, 607-610.
- [6] Mumah, J, Kabiru, CW, Mukiira, C, Brinton, J, Mutua, M, Izugbara, C,
- [7] Birungi, H. and Askew, I. (2014). "Unintended Pregnancies in Kenya: A Country Profile," STEP UP Research Report Nairobi: African Population and Health Research Center.
- [8] Olukoya, A.A., et al. (2001). Unsafe abortion in adolescents. Special Communication from the World Health Organisation. International Journal of Gynaecology and Obstetrics75(2): 137—147.
- [9] UNAIDS (2014) The Gap Report
- [10] UNICEF (2015) Annual Report
- [11] Wamwana, E.B., Ndavi P.M, Gichangi P.B, Karanja J.g., Muia E.G. (2006): Socio-demographic characteristics of patients admitted with gynaecological emergency conditions at the Provincial General Hospital Kakamega