



Co-curricular practices on prevention of substance abuse among secondary school students in Kakamega County – Kenya

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Abstract: The critical need everywhere in the 21st-century world is to prepare students to lead healthy and fulfilling lives by providing them with relevant educational programs, inclusive of co-curricular practices. The study evaluated the impact of co-curricular practices on the effectiveness of substance abuse preventive interventions among secondary school students in Mega County. It adopted a cross-sectional survey design. The target population includes 3 students, 1080 class teachers, 530 G/C teachers, and 12 sub-county directors in the study area. Simple random and purposive sampling techniques were used to program the sample size: 381 students, 108 class teachers, 53 G/, C, and 12 sub-county directors of education. Structured questionnaires, focus group discussion guides, and interview guides were used to collect data, which were subjected to descriptive and inferential analyses using the Statistical Package for the Social Sciences. Based on the correlation results, the study established that there is a positive association between co-curricular practices and the effectiveness of substance abuse preventive interventions in the study area. From the regression results, co-curricupracticese and saree are significant predictors. Therefore, at a 95% confidence limit, co-curricular practices have a statistically significant influence on the effectiveness of substance abuse preventive intervention. The practices range from competitive games and sports, with the strongest influence, followed by the time allocated, frequency of participation, down to stars in co-curricular, and lastly clubs. Overall, the study concludes that the success or effectiveness of substance abuse prevention is dependent on co-curricular practices. The intervention ranges from school administration, school location, open communication, and finally, random checks

Keywords: Co-curricular practices, influence, effectiveness, preventive intervention, substance abuse, secondary school students

1. Introduction:

In the 21st century, success in life demands good health and proper education (WHO, 2017). Pursuers and governments across the world are striving to provide relevant educational programs, inclusive of co-curricular practices that nurture students' passions, problem-solving abilities, and creative skills (Drugs & Crime, 2012) for quality education. Improved health outcomes are more closely linked to a safe environment provided by the education program (Drugs & Crime, 2012). If students lead healthy lifestyles integrated with active physical activities, their intellectual abilities do grow (Larson et al., 2021). Learners, like any other human being, experience health complications. Several of these complications are psychological in nature, and substance abuse is one of the critical causes. This largely emanates from the environment a learner interacts with. To address this issue, schools engage in co-curricular practices such as competitive games, sports, music, and dance, which are important parts of the curriculum and help prevent student bus use. Co-curricular is defined as programs and learning experiences within or outside the school that complement the academic curriculum but do not earn a student academic credit (Nyamoma & Maragia, 2023) When targeting prevention, content should be broad and focus on teaching social skills, self-control, decision-making, and healthy behaviors. Programs should largely be interactive and focus on resistance skills and dispel the idea that substance abuse is normal. These programs were well conducted through co-curricular practices.

UNODC (2017) supports that various stakeholders combine strategies to deal with substance abuse before it escapes further. School is one of the most influential outlets for adolescent development, where positive

Received 29 Apr 2023; Accepted 28 June 2023; Published (online) 30 June 2023
Finesse Publishing stays neutral regard to jurisdictional claims published maps



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DOI: 10.61363/jsse.v2i1.78

environments for students to perform in extra-curricular activities are remote (Wanjama, Muraya, & Gichaga, 2013). However, schools also expose students to at-risk behavior activities, such as substance abuse (Azeez et al., 2020). An observation that several preventive interventions have been utilized in schools to curb substance abuse, however, their effectiveness is of concern since the challenge has persisted in the case of Kakamega County.

Substance abuse is the self-administration of psychoactive substances into one's body through chewing, sniffing, snuffing, suc, king, and smoking rubbing on one's body, if not injecting for wrong intentions (WHO, 2017). United Nations Office on Drugs and Crime (UNODC) (2015) reported that the use of illicit drugs has increased throughout the world with heroin and cocaine being the main substances abused. Substances that are commonly abused in a school setting currently include alcohol, cigarettes, bhang, miraa, cocaine, and heroin (Drugs & Crime, 2012). Environmental factors, such as co-curricular practices, also play a role in students' substance abuse. Many studies conducted on sport participation and adolescent substance abuse have found that participating in sports during adolescence contributes to substance abuse (Kwan et al., 2014; Veliz et al., 2015). However, co-curricular activities among students decrease their chances of substance abuse, and as a way to prevent adolescents from engaging in deviant behaviors, Kwan et al. (2014), Farrel & Barnes (2000), and Moore & Werch (2004). A study in Iran revealed that membership in the sports team and participation in sports camps increased alcoholism among adolescents. The higher levels of risk tendency among members of the sports team were a result of stress caused by the conditions of the sport its camp, and the normative pressure of peers. Co-curricular activities do not necessarily lead to substance abuse directly, but may either prepare the potential victim for the vice or increase their vulnerability (Azeez et al., 2020). Unchecked substance abuse among youths and the entire population, therefore, could negatively affect the general well-being of an individual.

From a preventive intervention perspective, when formulating and implementing any preventive intervention, a good percentage of students should participate to own it. This is with the understanding that effective change always comes from comes in the person and that preventive interventions targeting the root of the problem are essential to curb substance abuse and help people lead healthier lives. Co-curricular issues, such as the school's location, student population, and other factors, as well as random checks, require programs that are youth-focused and interactive. It has been shown that young people use substance prevention information if it is accurate, honest, and delivered by people they trust. That is when emphasizes the importance of involving peers in the treatment of adolescent substance abuse and co-occurring disorders (WHO, 2017).

Alcohol abuse prevalence among secondary school students in Kakamega has reached 23.4%, which is far above the national average of 12.2%, despite attempts to implement substance abuse preventive interventions in schools. Enforcement of the Alcohol Drinks Control Act 2010 and the County Alcohol Drinks Control Act is yet to be perfected in Kakamega County (NACADA, 2017). As Muhia, D. (2proclaimsclaim, it is necessary to ascertain the reasons why substance prevalence is high and yet preventive strategies are in place. Hence, there is a need to investigate the influence of co-curricular practices on the effectiveness of substance abuse prevention.

2. Materials and Methods

2.1 Study Area

The study was purposively conducted in Kakamega County, located in Kenya's Western region. It comprises 12 sub-counties: Lurambi, Ikolomani, Mumias East, Matungu, Shinyalu, Khwisero, Butere, Lugari, Malava, Likuyani, and Navakholo (County Survey Office, 2016). The study was carried out in secondary schools, of which 95 are girls' schools, 32 are boys' schools, 251 are mixed day schools, and 113 are mixed day and boarding schools. (County Education Office, 2017).

Kakamega has a poverty index of 49.2% (Wiesmann et al., 2016) a contributing factor to the consumption of buses and change, which is cheap and easily available (NACADA, 2016). The lengthy history of the renowned football club, A Fleopards, has a strong, indirect influence on co-curricular practices and substance abuse prevention.

2.2 Research Design



The study adopted a cross-sectional survey. This was based on the expert opinion of Penny and Deborah (2018), who observe that a cross-sectional survey has the advantage of enabling data collection at one point in time and of allowing comparisons across different groups within the study.

2.3 Sampling and sample size determination

The sample frame for the study consisted of 12 education officers, 530 G/C HoDs, 1,080 games teachers, and 59,675 form-three students drawn from 491 secondary schools (CDE's Office Report, 2017). Three students were selected for the study because they have been in school for a relatively long time and can evaluate the effectiveness of preventive interventions in schools. Due to the broad sample frame, multi-stage sampling was adopted in line with Kothari and Garg (2014), which caters to all subsets of interest. This was followed by cluster sampling and then proportionate sampling. Cluster sampling focuses on intact groups, while proportionate sampling provides for fair representation of each group of interest (Mugenda & Mugenda, 2011) In this case, the students, teachers, and education officers. This was then followed by a simple random sampling of class teachers and Guidance and Counseling HoDs. Sub-County Directors of Education were purposively selected as key informants in line with. The sample size for students was determined using the Krejcie and Morgan table, as recommended by (Kothari & Garg, 2014). The probability-proportionate-to-size (PPS) sampling technique was used to determine the sample size per cluster. Kathuri Pals's (1993) formula was used to determine the number of members per school type (cluster) because it is appropriate for studies involving several clusters like this. The overall sample size for students was the summation of the specific sample sizes from the different clusters. Purposive sampling was used to select class teas, Guidance and Counseling HODs, and 12 sub-county directors of education.

2.4 Data Collection and Analysis

Structured questionnaires, Interview GU Guides, and Focus Group Discussion Guides were reused to collect primary data. The factor analysis technique was used to optimize the number of indicators for the study variable. The data were then subjected to descriptive and inferential analyses using version 27 of the Statistical Package for the Social Sciences, including measures of central tendency, simple linear correlation, and simple linear regression. The items in the questionnaire were framed on a five-point Likert scale, with 5 representing a high level of influence of co-curricular practices on substance abuse preventive intervention, 4 = moderately strong, 3 = Neutral, 2 = moderately low, and 1 = very low. Based on the mean score (μ), 3.00 was adopted as the base baseline beta and interpretation. Therefore, a variable with a mean score of at least (μ) 3.00 was interpreted as having a strong influence, while those scoring below (μ) 3.00 were interpreted as non-issues in the study area.

3. Results and Discussions

Table 1: Contribution of Co-curricular practices on substance abuse preventive intervention by secondary school students in Kakamega County

Cocurricular Practice		VS	MS	N	ML	VL			
		5	4	3	2	1	Mean(μ)	Std d	
		AG.Mean							
Competitive games and sports	Soccer	Students	16.29%	30.00%	22.59%	22.59%	17.77%	3.20	1.356
		Teachers	44	81	61	61	48		
	Rugby	Students	18.64%	49.15%	14.0%	10.53%	5.26%	3.89	1.068
		Teachers	11	29	8	6	3		
	Sports	Students	30.37%	30.74%	16.29%	11.48%	10.37%	3.62	1.334
		Teachers	82	83	44	31	28		
	Students	38.98%	20.33%	18.64	10.16%	8.47%	3.91	1.311	
	Teachers	23	12	11	6	5			
	Students	2.96%	10.74%	32.59%	25.18%	27.77%	3.09	1.311	
	Teachers	8	29	88	68	75			
		20.33%	27.41%	25.72%	15.75%	14.86%	3.09	1.121	
		12	16	15	9	7			

Musical performances	Students	14.81% 40	7.77% 21	17.46% 47	21.115 % 56	39.25%	2.78 106	1.411
	Teachers	16.94% 10	15.25% 9	27.11% 16	13.55% 8	25.42%	3.09 15	1.121
Clubs - Drama Festival	Students	8.88% 24	11.85% 12	18.14% 49	20.74% 6	39.25%	2.78 106	1.411
	Teachers	20.33% 12	38.98% 23	18.64% 11	8.47% 5	13.55%	3.89 8	1.068
Time allocated	Students	26.66% 72	30.00% 81	15.55% 42	13.33% 36	13.33%	3.37 36	1.259
	Teachers	15.25% 9	30.50% 18	22.03% 13	16.67% 9	11.56%	3.38 7	1.247

Source: Field data (2021)

Key: 5 = Very strong 4 = Moderately strong 3 = Neutral 2 = Moderately low 1 = Very low

Table 1: The respondents were asked whether co-curricular practices influence substance abuse. Findings indicate that (16.29%; N=44) of students and (18.64%; N=11) of teachers held the view that soccer had a strong influence on students' abuse of substances, implying that soccer highly provides social networks in substance abuse. This is contrary to Larson (2000), who observed the incorporation of games and sporting activities in prevention programs and raised arguments about the effectiveness of preventive interventions. Further still, (30.00%), N=81, of students and 49.15%, N=29, of teachers felt that soccer had a modern impact on students' participation. A majority of the respondents felt that soccer predisposed students to substance abuse. This is reflected in a mean above the baseline ($\mu = 3.00$). However, this is contrary to (Kwan et al., 2014; Barnes et al., 2006), who asserted that it is also a way to prevent adolescents from engaging in deviant behaviors. This corroborates with findings from the interview guide with Education Officers who felt that soccer exposed students to substance abuse. Commenting on the association between co-curricular practices and substance abuse, one of the Education officers stated:

Co-curricular activities led students to social networks, a breeding ground for substance abuse. Students are directly or indirectly influenced by their peers to abuse substances (Edu. officer, Feb. 19, 2021). The results showed that the environment is a critical source of substances. This is in agreement with Ondieki and Mokua (2012) who asserted that peers or friends in a school were the major source of information about the availability of drugs of abuse.

Further assessment of competitive games revealed that 30.37% (N=82) of students and 38.98% (N=23) of teachers believed that rugby strongly influences substance abuse. This implies that the majority of students thought that rugby provides equal opportunities for social networking and a conducive environment for substance abuse. This is reflected in the mean of 1.334 > 1.311, indicating that the majority of teachers and students agreed that rugby, to an extent, exposed students to substances. This is close to Gee, Jackson, and Sam (2014), who explored the role that alcohol played in the international rugby sevens tournament and found that pageantry and excessive alcohol consumption were normative. This could be due to the competitive spirit of participants, which enhances works that easily expose students to substance abuse. On the contrary, the study revealed that participation in physical extra-curricular activities causes crisis behavior like illicit drug abuse. The responses from the interview guide validated the findings from the questionnaire that participation in competitive games influenced students to abuse substances. One of the respondents during the interview asserted

Substance abuse is evident, and cases have risen in recent years of many students involved in vices. It is something very normal during school competitions in games and sports (HoD, Feb. 19, 2021).

Given the researcher, these students come from environments where the use of substances is part of their cultural practices, and the same is practiced in school. This is close to (KIPPRA) and NACADA (2019) surveys conducted across 25 counties, including Kakamega, which revealed that standard five and eight pupils (respondents) get alcohol, change, and buses from homes since a majority of their parents brew at home. According to the study, the second most co-curricular practice with strong influence, as reflected in $\mu = 3.62$



and STD deviation of $\alpha = 1.334$ among students, and $\mu = 3.91$ and STD deviation of $\alpha = 1.311$ among teachers, is rugby. This is attributed to the game's recent popularity.

Further assessment of co-curricular practices in Table 1 revealed that (2.96%; N=8) of students and (20.33%; N=12) of teachers felt that sports had a strong influence, while (10.74%; N=12) of students and 27.41%; N=16) of teachers noted that it had a moderate influence on students abuse of substances, this means a bigger proportion of teachers than students felt that sports contributed to substance abuse. An indication that teachers thought sports activities create a competitive spirit that enhances the setting in the abuse of substances. This corroborates the suggestion in a study on sports participation and substance abuse that the type of sport, the environment in which it is played, and competition influence the amount.

Similarly, a good proportion of students (32.59%; N=88) were neutral, implying that some students were not sure whether sports activities exposed them to substance abuse. In the same vein, (25.18%; N=68) of students and (15.75%; N=9) of teachers felt that sports activities have a very low influence on students' abuse of substances, whereas 75(27.77%; N=75) of students and (14.86%; N=7) of teachers felt it had a moderately low influence. This is reflected in a moderate score of STD deviation ($\alpha = 1.311$) which means that on average, it is close from the mean by only 1.311 units about the Likert items. This indicates that a bigger proportion of students felt that sports activities did not expose students to substance abuse. This is close to (Cutting, 2014) observation that it is imperative when formulating and putting in place any extra-curricular activities to fore students a that good percentage of the students should participate for them to own it.

Further still, (8.88%; N=24) of students and (20.33%; N=12) of the students reported that drama, to an extent, had a strong influence on students' abuse of substances. Whereas (11.85%; N=32) of students and (38.98%; N=23) of teachers felt it had a moderately strong influence. On the other hand (39.25%; N=106) of students and (13.55%; N=8) of teachers were of the view that drama had a very low influence on substance. An indication that while a majority of teachers were in agreement, the majority of students disagreed that drama exposed them to substance abuse. This view is further supported by a very low mean (2.78), which is below the baseline score compared to teachers' (3.89) response to responses.

This could be due to the difference in teachers' high level of experience, which gives them an edge in understanding student behavior better in matters of drama festivals. Students, on the other hand, are ignorant of the fact that drama exposes them to networks of substance abuse, for they are controlled by situational excitement. This is in line with NACADA's (2021) guideline for alcohol and substance use, which points out clubs, and in particular drama festivals, where some students misuse to abuse substances. On the contrary, Dunne, Bishop, Avery, & Darcy (2017) noted that establishing school connectedness by increasing student participation in co-curricular relationships helps prevent abuse.

Findings from further assessment revealed that while, (26.66%; N=72) of students and (15.25%; N=9) of teachers felt that the length of the time the activity allocated had a very strong influence, on students' abuse of substances, (30.00%; N=81) of students, and (30.50%; N=18) of teachers were of the view that it had a moderately strong influence over the same. This, therefore, implied that a majority of teachers and students felt that the time scheduled for activities provided room for work substance abuse use among students.

This view is further supported by a moderately high mean (3.37) for students and (3.38) for teachers from the study. This is close to Carson-Chahhoud, Ameer, Sayehmiri, Hnin, Agteren, SayehmirInd, and I, Smith, (2017) who asserted that longer and more intensive interventions are more successful. However, (13.33%; N=36) of students and (16.67%; N=9) of teachers felt it had a moderately low influence, while (13.33%; N=36) of students and (11.56%; N=7) felt it had a very low influence on students' abuse of substances. The findings imply that the time scheduled for these activities does not contribute to social networking for students' abuse of substances. This is contrary to the views of Jernigan, Nl, La,d on, and Lobstein (2017), whose study findings revealed that sports and other social activities provided an enabling environment for behavior such as substance abuse. This study sought to examine the effectiveness of substance abuse preventive intervention in secondary schools in Kakamega County as summarized in Table 2.

Table 4.11: Effectiveness of substance abuse preventive interventions (teachers/students' perspectives).

	Respondent category	Opinion					Stdd	Mean(μ)
		5	4	3	2	1		
Nature of co-curricular/sch culture	Students	29.62% 80	30.74 % 83	10.74% 29	15.93% 43	12.96% 35	3.87	1.377
	Teachers	20.33% 12	42.37% 25	20.33% 12	3.51% 2	10.53% 6	4.33	1.173
Location of the school	Students	19.25% 52	38.17% 103	21.84% 59	11.15% 30	9.29% 25	4.14	1.191
	Teachers	22.03% 13	49.15% 29	13.55% 8	7.02% 4	5.26% 3	4.54	1.076
School Admin	Students	18.88% 51	32.22% 87	31.1% 84	11.72% 34	11.72% 1.269	4.55	
	Teachers	23.72% 14	25.42% 15	23.72% 14	16.075 9	7.14% 4	4.16	1.223
Co-curricular resources	Students	14.1% 38	25.9% 70	24.1% 65	21.85% 59	14.07% 1.268	3.62	
	Teachers	14.72% 8	42.37% 27	18.64% 11	21.05% 12	1.75% 1	4.10	1.038
Random checks	Students	29.62% 80	30.00% 81	15.55% 42	12.59% 34	12.22% 1.352	3.97	
	Teachers	23.72% 4	42.37% 25	15.25% 9	12.28 7	3.51% 4	4.73	1.050
Open communication channels	Students	15.93% 43	12.96% 35	29.62% 80	30.00% 81	11.11% 1.349	3.83	
	Teachers	42.37% 25	25.42% 15	3.51% 2	3.55% 8	15.25% 1.125	4.89	

Source: Field data (2021)

N=329

Key: 5 = Strongly agree 4 = Moderately agree 3 = Neutral 2 = Moderately disagree 1 = Strongly disagree M=mean SDD= standard deviation

Participants were asked whether substance-abuse preventive interventions implemented within curricular practices were effective in schools. Findings revealed that (29.62%; N=80) of students and 20.33%; N=12) of teachers felt the nature of co-curricular had a strong influence on the effectiveness of substance abuse preventive interventions. However, 83(30.74%; N=83) of students and (42.37%; N=25) of teachers felt it had a moderately strong influence over the same. This, therefore, implies that the majority of teachers and students were in agreement that the nature of co-curricular activities plays a role in the effectiveness of the preventive intervention, indicating that the kind of sports, such as competitive gender-based learner-based sports, that call for a high level of discipline, assist in preventing substance abuse. This is reflected in a moderate score of STD ($\alpha = 1.377$) for students and ($\alpha = 1.173$) for teachers, meaning that the average of the teachers' opinions differs from the mean by only 1.173 units with about the Likert scale items. is contrary to Diehl et al., 2012; Kwan et



al. (201)cautionons against the use of sports as a means to reducing youth substance abuse for the feelings that youth get from participating in sports might mirror the same feelings produced from higher alcohol use.

Further still, (19.25%; N=52) of students and (22.03%; N=13) of teachers thought that the school's location had a very strong influence on the effectiveness of preventive interventions for substance abuse. Similarly, (38.14%; N=103) of the students and (49.15%; N=29) of teachers felt it had a moderately strong influence over the same. An indication that the majority of the teachers and students thought that where the school is situated has a bearing on the effective management of substance abuse. This is further supported by a strong mean of ($\mu=4.14$ for students and ($\mu=4.54$) for teachers from the study. The result is attributed to competitive or open games taking place in a school free from drinking dens, and to further support for effective preventive intervention, and vice versa.

This is consistent with Otieno et al.'s (2009) study findings, which noted that students in towns are more likely to abuse drugs and other substances as compared to those in rural areas. Further assessment reveals that (18.9%; N=51) of students and (25.72%; N=14) of teachers was of the view that school administration had a very strong influence on the effectiveness of the preventive intervention. Similarly, 87(32.2%; N=87) of students and (25.42%; N=15) of teachers felt that it had a moderately strong influence. On the other hand, 11.72% (N=34) of students and 9 (16.07%) of teachers held the view that it had a moderately low influence. Therefore, it was established that a majority of teachers and students agreed that school administration, to some extent, contributes to the effectiveness of preventive interventions. This view is further confirmed by a very high mean ($\mu=4.55$) for students and ($\mu=4.16$) for teachers from the study. The implication is that where the administration embraces open forums and listens to students' grievances, it creates an environment conducive to the management of substance abuse. This is close to Dunne, Bishop, Avery, & Darcy (2017), who noted that establishing school connectedness by increasing student participation in co-curricular activities does improve relationships and helps cut down on substance use.

Finally, findings reveal that (15.93%; N=43) of students and (42.37%; N=25) of teachers thought open communication had a very strong influence, while, (25.42%; N=15) of teachers and (12.96%; N=35) of students felt that it had a moderately strong influence This view is further supported by a moderately high mean ($\mu=3.83$) for students and ($\mu=4.89$) for teachers from the study an indication that open communication impacts positively on effectiveness of preventive intervention of substance abuse However, (30.00%; N=81) of students and (13.55%; N=8) of teachers felt it had a very low influence. This study, therefore, established that while teachers agreed that open communication had a positive impact on preventive interventions, students disagreed, as indicated ($\mu=4.89>3.83$). This could be because, in an open forum, most students are unable to express themselves openly for fear of being labeled as wrong elements, while teachers consider open forums an effective method. This aligns with the ministerial guidelines on schools, which suggest boxes for addressing issues raised by students at the earliest opportunity in an open forum (MOE, 2021). This corroborates the views of Maithya (2009), whose study revealed that 50% percent of the teachers felt that the integrated methods were moderately effective in Kenyan schools.

4. Hypothesis Testing

The Null Hypothesis of the study was that co-curricular practices have no statistically significant influence on the effectiveness of substance abuse preventive intervention in Kakamega County. The study was first subjected to a pair-wise correlation to the pursued regression model at $p=0.05$. To establish the level of influence of co-curricular practices and examine whether it was a significant predictor of preventive intervention of substance abuse, the study used a coefficient of determination (R^2) using regression analysis and the results indicated that the model accounted for 9.7% of teachers and 5.5% from students of the variation in the dependent variable and thus a significant predictor, where $[F(1, 269) = 15.363, P<.05]$ and $[F(1, 58) = 6.098, P<.05]$ (Appendix I and ii). The decision rule is to reject the null hypothesis and accept the alternative hypothesis. This implies that the effectiveness of substance abuse preventive interventions in secondary schools in Kakamega County depends on co-curricular activities among secondary school students.

5. Conclusion

In Kakamega County, the effectiveness of substance abuse preventive interventions ranges from school administration (highest) to school location, open communication, and random checks (lowest). The study

further concludes that key co-curricular practices, such as competitive games and sports, and time allocated to clubs, influence substance abuse, and that, at a 95% confidence level, these practices have a statistically significant influence on the effectiveness of substance abuse preventive interventions.

a. Appendix i: Table 3: Model summary (students)

Model	R	R Square	Adjusted R Square	Std. The error in the Estimate
1	.234 ^a	.055	.051	.63961

a. Predictors: (Constant), Co-curricular Determinant

b. Table 4: Model Summary (teachers)

Model	R	R Square	Adjusted The error is	Std. The error in the Estimate
1	.311 ^a	.097	.081	.60655

a. Predictors: (Constant), Co-curricular Determinant

c. Table 4.16: ANOVA of co-curricular determinant and preventive interventions (students)

Model	Sum of Squares	Df	Mean Square	F	Sig.
1 Regression	6.285	1	6.285	15.363	.000 ^b
Residual	108.412	269	.409		
Total	114.697	270			

a. Dependent Variable: Preventive interventions

b. Predictors: (Constant), Co-curricular determinant

d. Appendix ii: ANOVA of co-curricular determinant and preventive intervention (teachers)

Model	Sum of Squares	Df	Mean Square	F	Sig.
1 Regression	2.243	1	2.243	6.098	.017 ^b
Residual	20.970	58	.368		
Total	23.214	59			

e. Dependent Variable: Preventive intervention

f. Predictors (Constat), Co-curricular determinant

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