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#### **Psychology and Behavioral Sciences**

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Abstract

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# The Effect of Alcohol Consumption on the Acaden Performance of Undergraduate Students

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Abstract: Most people know that academic performance generally refers to how well accomplishing his or her tasks and studies, but there are numbers of factors that determine quality of students' academic performance. This study investigated the effect of alcohol consur academic performance of undergraduate students. A survey research design was used. A pil carried out with 30 students to validate and determine the psychometric properties of the q used in this study. Total of 200 respondents, 114 male and 86 females with ages ranging betwe years participated in this study. Three hypotheses were tested using Pearson r, T-test, Anovergression analysis. The result revealed that there is a significant relationship between

and academic performance (R<sup>2</sup>=0.74,P<.O5), there is a significant difference in academic pe students that drink alcohol and those that do not (R<sup>2</sup>=12.22,P<.05), there is a significant eff consumption on academic performance ( $R^2=4.474,P<.05$ ). The study has recommendations.

Keywords: Alcohol, Consumption, Academics, Performance, Undergraduates

- Contents 1. Introduction
  - 2. Statement of Problem
  - 3. Hypotheses of the Study
  - 4. Method Design
    - 4.1. Setting
    - 4.2. Participants
    - 4.3. Sampling Technique
    - 4.4. Instrument
    - 4.5. Section A
    - 4.6. Section B
    - 4.7. Section C
    - 4.8. Procedure for Data Collection
  - 5. Statistical Analysis
    - 5.1. Result
    - 5.2. Hypotheses Testing
  - 6. Discussion and Conclusion

#### 1. Introduction

In educational institutions, success is measured by academic performance, or how well a s standard set out by institution. As career competition grows ever fiercer in the working world, th of students doing well in school has caught the attention of parents, and employers. Education i road to success in the working world, much effort is made to identify, evaluate, track and e progress of students in schools. Parents care about their child's academic performance because that good academic results will provide more career choices and job secutity. Perfomance evaluated in a number of ways. For regular grading, students demonstrate their kowledge by t and oral tests, performing presentations, turning in home work and participating in class discussions. Academic achievement or (academic) performance is the outcome of education 1 which a student, teacher or institution has achieved their educational goal. Academic ac commonly measured by examinations or continuous assessment but there is no general agr

best tested or which aspects are most important — procedural knowledge such as skills or declarasuch as facts. (majkut@fas.harvard.edu). Students academic gain and learning performance i numerous factor including gender, age, teaching faculty, students schooling, father/guardian sc status, what they consume, residential area of students, medium of instructions in schools, daily study hour and accommodation as hostelries or day scholar. Many researchers condu studies about the factors contributing to students' performance at different study levels. G suggested that a student's educational success is contingent heavily on social status of stude guardians in the society. Considine and Zappala (2002) noticed the same that parent's inco status positively affects the student test score in examination. According to Minnesota (2007 education performance is depending upon the academic performance of graduate students. Dur quoted Staffolani and Bratti, (2002) observed that "the measurement of students previou outcomes are the most important indicators of students future achievement, this refers that previous performance is, better and will predict the student's academic performance in future . have been conducted in the area of students achievement and these studies identified and number of factors that affect the academic performance of the student at school, college university level. Their findings identified students' effort, previous schooling, parent's background, family income, self motivation of students, age of student, learning preference qualification of students as important factors that have effect on student's academic performance setting. The utility of these studies lies in the need to undertake corrective measures that academic performance of undergraduate students. It is generally assumed that the students better or higher performance in the starting classes of their studies also performed better in ful years at degree level. Everyone can be surprised with this assumption if it could be proved From the last two decades it has been noticed significantly that there is great addition in resea and review material relating to indicators of academic achievement with much emphasis on whether traditional achievement measures of academic performance are best determinal academic gain at university or higher level or innovative measures. However, it is also observed the researchers do not agree with this view point or statement. Reddy and Talcott (2006) d these assumptions that future academic gains are resolute by preceding performance. In thei the relationship between previous academic performance and subsequent achievement at un they found that students learning or studying at graduate level and the score secured did no academic achievement at university level. They also cited Pearson and Johnson (1978) who obs the whole grade association of only 0.28 graduate level marks and university degree achi recorded. Parent's socio-economic condition, which includes parents' academic and professional revenue and occupational affiliation, is also associated with academic gain of students. The re studies confirmed that academic achievement of students is contingent upon parent's so condition. So the students belonging to higher socioeconomic backgrounds will perform better students associated with low socioeconomic backgrounds. "Social and economical status generally determined by combining parents' qualification, occupation and income standa J€

9/8/2015 4:17 PM

Among many research studies conducted on academic achievement, it is not very surprising to Socio-economic status is one of the main elements studied while predicting academic perforn (1995) conducted a study on socio-economic status of the parents of students and concluded 1 economic background has a great impact on student's academic performance, main source c imbalance among students and student's academic success contingent very strongly on p economic standard. Considine and Zappala (2002) also having the same views as Graetz (19 study on the influence of social and economic disadvantage in the academic performance of sc noticed, where the parents or guardians have social, educational and economical advanta strengthen the higher level success in future. But it is also noted that these parents make available psychological and emotional shore up to their children by providing good educational environment that produce confidence and the improvement of skills needed for success. O Pedrosa et.al (2006) in their study on social and educational background pointed out those mostly came from deprived socio-economic and educational background performed relatively others coming from higher socio-economic and educational area. They named this phenomen elasticity. It is obvious and true that the criteria for categorizing socio-economic standard countries are different depending of their norms and values. The criteria for low socioeconor developed country will be different from the criteria of developing nations and same will be i developing and under developing countries. "The total income of families, monthly or annual expenditures also put a great effect on the learning and academic opportunities accessible to yo their chances of educational success. Furthermore, he also pointed that due to residential stra segregation, the students belonging to low-income backgrounds usually attend schools with I levels, and this situation reduced achievement motivation of the students and high risk c malfunction in future life endeavors" (Escarce, 2003).

Alcohol is a colorless, volatile, flammable liquid which is the intoxicating constituent of wine, beother drinks. Alcohol is no ordinary commodity but a drug that can be depended upon (Gureje Production and consumption of alcohol in the modern Nigeria is on the increase and the volu unrecorded due to illegal and local productions and the paucity of data on the legality of produc & mayowa 2011). World health organization (2004) ranked Nigeria among the thirty nations wit per capita consumption of alcohol worldwide. The new drinking norms that have evolved competitions among youths. Bar owners, brewery's representatives set out prizes for the fastes! the winner is judged based on the quantity consumed (Odejide et al, 1987, 1999, 2006). In Ni star trek, gulder ultimate search and a host of others. In the universities there is a group known club which uses palm wine as holy water. There can be lingering cognitive deficits up to 48 night of drinking. Heavy drinking by students can lead to positive blood alcohol levels the next whether or not they even get up for class and, if they do, the quality of how information is ; ultimately stored. Sleeping off after a buzz is a common practice, it can interfere with the resulting in an increase in anxiety, jumpiness, and irritability the next day, and fatigue the d Although most people take for granted that alcohol impairs memory of events that occur ٦ç

9/8/2015 4:17 PM 4 of 12

alcohol consumption has further-reaching effects on memory and learning ability", a Duke Un suggests, "intoxication is produced by temporary impairment of brain receptors key in creati memories in the hippocampus", said Jeff Georgi, a coordinator at the school's Alcohol at Program. "If you study for four hours...then go drinking, it affects this anchoring process," h Chronicle. Alcohol also disrupts sleep, which interferes with long-term memory formation. In ac adults seem to have more trouble than older adults learning while drinking, the study suggest subjects drank two drinks in one hour, subjects aged 21 to 24 fared worse on a test of vert memory than subjects aged 25 to 29.In some cases the linkage between problem drinking performance is profound. Drinking can affect the biological development of young people as school-related achievement and behavior. Serious alcohol use among youth has significant consequences. Alcohol damages areas of the brain responsible for learning and memory, ver visual-spatial cognition. Diagnosticians often find that these skills in adolescents who drink ar comparison to those who aren't drinking. Scientists know that alcohol problems are tied to lower attendance and increases dropout rates. According to Fleming (1992) youths (undergraduate alcohol use to help them cope with academic stress, negative emotions and make them Students that use alcohol as a coping mechanism tend to indulge more always in the use of alcohol as a coping mechanism tend to indulge more always in the use of alcohol as a coping mechanism tend to indulge more always in the use of alcohol as a coping mechanism tend to indulge more always in the use of alcohol as a coping mechanism tend to indulge more always in the use of alcohol as a coping mechanism tend to indulge more always in the use of alcohol as a coping mechanism tend to indulge more always in the use of alcohol as a coping mechanism tend to indulge more always in the use of alcohol as a coping mechanism tend to indulge more always in the use of alcohol as a coping mechanism tend to indulge more always in the use of alcohol as a coping mechanism tend to indulge more always in the use of alcohol as a coping mechanism tend to indulge more always in the use of alcohol as a coping mechanism tend to indulge more always in the use of alcohol as a coping mechanism tend to indulge more always in the use of alcohol as a coping mechanism tend to indulge more always in the use of alcohol as a coping mechanism tend to be a copin of the time apply defence mechanism by engaging in denial and rationalization. Almost one th students admit to having missed a class, and failing a test/project because of alcohol (school According to FACTS ON TAP, an organization that specializes in educating college students about of alcohol consumption, "159,000" of first year undergraduates drops out of school as a result ( other related drugs.

#### 2. Statement of Problem

If you take a closer look at what qualities it takes to have an excellent academic performance, that this are the qualities required to be successful in life, because to have a good academic per have to be consistent, determined, focused, then you can have a good academic performar performance reflects your abilities. Success on its own comes with lots of meanings and the varies across individuals, however ones definition of success determines how he dreams and vachieving it, nevertheless academic success is the primary and the major step one will likely race, because it is when are educated and have a degree that you will work in a company the some level of happiness and financial stability which in some definition is already a success. how one defines success, having a good academic performance will be a boost in achieving it rabeen educated. Alcohol consumption by students in the university has become unbearable. alcohol poses danger to health but its negative effect on academic performance. Once in the urgroup has a strong influence on the students' involvement with alcohol. Students instead o academic activity spend their precious time in social activity (alcohol). This leads to class mis tests, rape, unwanted pregnancies, vandalism, drunk driving and other types of crimes.

## 3. Hypotheses of the Study

- There will be a significant positive relationship between alcohol consumption and academic p
- · There will be a significant difference in academic performance between users and non users
- There will be a significant effect of alcohol consumption on academic performance.

#### 4. Method Design

This study which examined the effect of alcohol on academic performance adopted a survey res The independent variable is alcohol consumption while the dependent variable is academic perfo

#### 4.1. Setting

The study took place in Delta State University (DELSU), Delta State Nigeria. This is a conventio where students have their independence (freedom). Some live in the hostel while others reside

#### **4.2.** Participants

The participants were two hundred undergraduate students of Delta State University (DELSL ranges from 15 to 29 years. There were 114 (57%) males and 86 (43%) females.

#### **4.3.** Sampling Technique

The purposeful sampling method was used to select the participants because of the nature of th entails administering questionnaires to undergraduates that indulges in alcohol and those that d

#### **4.4.** Instrument

A structured questionnaire developed by the researcher (Cronbach Alpha coefficient of 0.78 consistency of 0.86) was used to tap relevant information from the participants of the questionnaire consists of different sections with each of the sections collecting information on t interest. It comprised A, B, and C. The structure of the questionnaire is outlined below.

#### 4.5. Section A

In this section of the questionnaire, demographic information of the participants was captured age to their department and level of their study.

#### 4.6. Section B

This instrument measured the drinking behavior, the quantity and type consumed by the participation of the partici

#### 4.7. Section C

This instrument measured the academic life and performance (CGPA) of the participants.

#### 4.8. Procedure for Data Collection

The researcher randomly selected two hundred undergraduate students of Delta State

Delta state, Nigeria using simple random selection. The respondents cut across age, sex, de level of study. The criteria for inclusion were; must be an undergraduate student of Delta Sta and will be below thirty years of age. The respondents were approached, having acquainted researcher's intention. The respondents consent was duly sought by asking them wheth participate in the study and signing the consent form. Those who responded in the affirmative r the study, while also at the same time requesting them to pick one ballot paper from the basket them. Those who picked 'Yes' written on the card were drawn into the study while those that pic excluded from the study. This procedure ensured that every participant was given equal c participating in the study. Prior to given the questionnaires to them to fill, the researcher in: on how they were expected to respond to the statements in the questionnaire (i.e., they should in each statement and that the questionnaire should be filled completely as half filled questionn rendered invalid). Additionally, the participants in the main study were informed that their contents in the main study were informed that their contents in the main study were informed that their contents in the main study were informed that their contents in the main study were informed that their contents in the main study were informed that their contents in the main study were informed that their contents in the main study were informed that their contents in the main study were informed that their contents in the main study were informed that their contents in the main study were informed that their contents in the main study were informed that their contents in the main study were informed that their contents in the main study were informed that their contents in the main study were informed that their contents in the main study were informed that the main study were informed than the main study were informed that the main study were informed the main study were informed the main study were informed that the main study were informed the main study were info was guaranteed and therefore, they should not write their names on the questionnaires. They v albeit individually to mention any areas in the questionnaire they did not comprehend. They the questionnaire was written in unambiguous language and therefore, they could respond to the in the questionnaire almost effortlessly on their own.

#### Statistical Analysis

Data generated in this study was analyzed using simple regression analysis, Pearson r, indepe and Anova.

#### 5.1. Result

This chapter discusses the analyses and presentation of results. For all the hypotheses tested level of significance is 0.05. As stated in chapter three, the independent variable is alcohol con the dependent variable is academic performance.

Level	Frequency	Percent	Valid percent	Cumulative p
100	24	12	12	12
200	28	14	14	26
300	82	41	41	67
400	42	21	21	88
500	24	12	12	100
Total	200	100	100	

**Table 1.** (Level of the participants).

24 participants (12%) were 100 level students, 28 participants (14%) were 200 level participants (41%) were 300 level students, 42 participants (21%) were 400 level students, 2 (12%) were 500 level students.

Table 2. (CGPA of the participants).

Cumulati	Valid percent	Percent	Frequency	CGPA
	28	28	56	1.00-2.49
	47	47	94	2.50-3.49
÷	12	12	24	3.50-4.49
1	13	13	26	4.50-5.00
	100	100	200	Total

56 participants (28%) have CGPA of 1.00-2.49, 94 participants (47%) have CGPA of 2 participants (12%) have CGPA of 3.50-4.49 and 26 participants (13%) have CGPA of 4.50-5.00.

Table 3. (Alcohol).

Alcohol	Frequency	Percent	Valid percent	Cumulati
consumers	170	85	85	
Non consumers	30	15	15	:
Total	200	100	100	

170 participants (85%) consume alcohol while 30 participants (15%) do not.

**Table 4.** (Etiology of alcohol consumption behavior).

Source	Frequency	Percent	Valid percent	Cumulati
parents	34	20	20	
peers	100	59	59	
self	36	21	21	1
total	100	100	100	

34 participants (20%) were influenced by their parents, 100 participants (59%) were influenced by nobody.

**Table 5.** (Quantity consumed in a sitting).

Cumulati	Valid percent	Percent	frequency	No of bottles
	6	6	10	1-2
	65	65	110	3-6
1	29	29	50	7 and above
	100	100	170	Total

10 participants (6%) consumes between 1-2 bottles once, 1:10 (65%) participants consumes 3-4 while 50 participants (29%) consumes 7 bottles and above once.

Table 6.	(Missed	class o	or failed	test as a	result	of hang	over).
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Missed class/failed test	Frequency	Percent	Valid percent	Cumulat
Yes	112	66	66	
No	58	34	34	:
Total	170	100	100	

112 participants (66%) missed class/failed test due to hang over while 58 (34%) denied missin test due to hang over.

**Table 7.** (Ever been sanctioned in school/home as a result of alcohol use).

Sanctioned	Frequency	Percent	Valid percent	Cumula
Yes	158	93	93	
No	12	7	7	
Total	170	100	100	

158 (93%) participants have been sanctioned for the use of alcohol while 12 (7%) participants have been sanctioned. This is of a grave consequence.

### **5.2.** Hypotheses Testing

Hypothesis one states that there will be a significant relationship between alcohol consumption performance.

Table 8. (Summary of correlation coefficient).

Variation	N	DF	Mean	SD	R observed	
Alcohol use	200		22.26	4.29		
Academic	200	199	5.64	6.08	0.74*	
performance	200		3.04			

The result confirmed the hypothesis that there is a significant relationship between alcohol use performance,  $(R^2=0.74,P<.05)$ 

Hypothesis two states that there will be a significant difference in academic performance betweenon users of alcohol.

**Table 9.** (Summary of independent t test).

Variations	N	DF	Mean	SD	T observed

Student alcohol users	170		2.18	1.29	
Students alcohol non	30	198	3.64	0.08	12.22*
users	30		3.04	0.00	

The result confirms that there is a significant difference in academic performance of studer alcohol and those that do not  $(R^2=12.22,P<.05)$ ,

Hypothesis three states that there will be a significant effect of alcohol consumption performance.

Table 10. (Regression summary).

Std. Err	Adjusted R square	R square	D	Model
estin		K Square		
4.	.448	.477	.691	1

47.7% of the variation in the academic performance could be accounted for by alcohol const 52.3% represents alcohol consumption measurement error in alcohol consumption and other influence academic performance that were not considered.

**Table 11.** (Alcohol consumption and academic performance variance).

Model	source	Sum of squares	DF	Mean square	F
4	Regression	16.686	1	16.686	
1	Residual	792.071	199	2.720	4.474
	Total	758.757	200	3.729	

The result confirms that there is a significant effect of alcohol consumption on academic  $(R=.691,R^2=4.474,P<.05)$ . The study has recommendations and limitations.

#### Discussion and Conclusion

All the hypotheses that were tested in this study were confirmed. It is evident that alcohol influences the academic performance of the consumer (Engs et al., 1996; Perkins, 1992; P 1996a,b; Wechsler et al., 1994, 1998, 2000b). . Undergraduates in the universities are no me guidance of their parents and they are free to do whatever they choose. This is evid undergraduates run mad at the course of their academic sojourn and some even suffer memory finding it hard to graduate as their academic performance is always below pass mark (We 2000b). Some as a result of their background associates with peers that will end up destroyi with alcohol because they want to belong among the big boys on campus. This is a serious issue are regarded as future leaders are destroying themselves with alcohol, then how will

Alcohol-related sexual assault is a common occurrence on college campuses. Although esti incidence and prevalence vary dramatically because different sources use different definitio victims are unwilling to report sexual assaults to the police or other authorities, at least 50 perc student sexual assaults are associated with alcohol use (Abbey, 1991, 2002; Abbey et al., Copenhaver and Grauerholz, 1991; Harrington and Leitenberg, 1994; Koss, 1992; Koss et al., and Marshall, 1987; Muehlenhard and Linton, 1987; Presley et al., 1997; Tyler et al., 1998). F alcohol is involved, acts meeting the legal definition of rape appear more likely to occur (L 1999). Even aside academic performance when undergraduates misuse alcohol, damage to environment or residence hall-including vomit and litter-are common after effects. (Engs 1994)

#### Recommendation

- There will be a continuous awareness program on the dangers of alcohol consumption on performance for undergraduates starting from freshmen to those in their final year.
- Promotional sales by alcohol companies will be prohibited in the higher institutions.
- Drinking joints and bars will not be allowed to operate within or around universities.
- Self esteem training will be carried out periodically, to let the undergraduates understand t not a self esteem booster.
- There will be a periodic alcohol level screening in the universities and a stiff penalty for wanting so as to deter others.

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