

Assessing the Effects of Alcohol Consumption on the Work Performance of Teachers in the Builsa North District of the Upper East Region of Ghana

Akum-Yeri Whittaker Ayom-Bil Robert¹, Der Muonir Edmund^{2, *}

¹Tamale Teaching Hospital, Blood Bank, Tamale, Ghana

²Department of Pathology, School of Medicine and Health Sciences, University for Development Studies and the Tamale Teaching Hospital, Tamale, Ghana

Email address:

maadelle@yahoo.com (D. M. Edmund)

*Corresponding author

To cite this article:

Akum-Yeri Whittaker Ayom-Bil Robert, Der Muonir Edmund. Assessing the Effects of Alcohol Consumption on the Work Performance of Teachers in the Builsa North District of the Upper East Region of Ghana. *Central African Journal of Public Health*.

Vol. 6, No. 1, 2020, pp. 48-54. doi: 10.11648/j.cajph.20200601.18

Received: December 7, 2019; **Accepted:** December 19, 2019; **Published:** February 10, 2020

Abstract: Background: Alcohol consumption by teachers may impede or reduce productivity and cause lost for employers. The aim of the study was to ascertain the alcohol consumption patterns of teachers in the Builsa north district and the effects on work performance. Material and methods: This was a cross-sectional descriptive study. Data were analysed using SPSS software (version 21.0). Associations determined using Fisher's exact test. Results: Ninety-nine teachers who consume alcohol were interviewed, with mean age of 33.5±6.1 years. Majority were males (3:1 ratio, $p<0.0005$). The great majority (83.8%, $P<0.0001$) were trained; with (66.7%) being University graduates. Approximately 99.0% ($P<0.0001$) had friends who drink alcohol, and 86 (86.9%) drink alcohol with their friends. Alcohol intake was found to affect a person's social life (91.9%), family obligations, (97.0%) and finances (93.9%). Approximately 86.9% ($P<0.0001$) agreed alcohol intake is a problem among teachers. Many (63.6%) of the teachers take in alcohol every day, and approximately 80.8% have been drinking over one year. About 23.2% drink anytime during the day, while 33.0% spending one or hours in a spot. The reasons for alcohol intake among teachers were: socialisation (46.5%), relaxation (31.3%) and to forget problems (21.2%). The negative effects of alcohol intake on productivity were; hangover whiles at work (73.7%), absenteeism (88.9%), missing lessons in school due to time spent at spots (84.9%) and inability to complete syllabus (74.7%). Conclusion: The study concluded that teachers' alcohol consumption affects their work performance greatly in the Builsa North District.

Keywords: Teacher, Alcohol Consumption, Work Performance, Builsa North District, UER-Ghana

1. Introduction

Prior to the modern era, alcoholic beverages were known in all tribes, societies and villages all over the world except in Australia, Oceania and North America [1]. Globally, alcohol is used for different reasons and purposes and its usage is often associated with many social activities across the world [2-4].

In Europe and other parts of the world, alcohol is used in marriage and naming ceremonies, dinner and banquet parties. In Africa alcohol is used in offering sacrifices and rituals to

smaller gods and in social activities like marriages, naming ceremonies and funeral grounds. Still in Africa, alcohol is used during communal activities like farming, constructing of houses/buildings and any other activity that is undertaken communally. Thus, alcohol consumption has generally become an accepted social habit in many countries of the world and more so in some developing countries, where the revenue earned from trading in alcohol constitutes a large percentage of the national income [4, 5]. In Ghana, like most parts of Africa, there are wide ranges of activities that involve the usage of alcohol. Similar conditions and activities

can be found in the Builsa North District (BND) [6], these thus create fertile ground for increased alcohol consumption by individuals living in the area. The aim of this study was to ascertain whether teachers alcohol consumption affect their work performance in the Builsa North district of the Upper East Region of Ghana.

2. Methodology

2.1. Study Area

The Builsa North district (BND) is one of the thirteen (13) administrative districts in the Upper East Region of Ghana. It was carved out on 15th March, 2012 by an Act of Parliament, 1993 (Act 462) with Sandema as its administrative capital from the then Builsa District created in 1974 under the Supreme Military Council One (SMC1) (Ghana Statistical Service, 2014) [3]. The BND consists of five major towns namely; Sandema, Chuchuliga, Seineisi, Weiga and Kaadema.

2.1.1. Study Design

This was a cross-sectional descriptive study.

2.1.2. Study Population

All teachers in the district.

2.1.3. Sample Size Estimation

We used the Yamane (1967:886).

$$n = \frac{N}{1 + N(e)^2}$$
 where n=sample size, N=population size and e=level of precision and this formula was applied in this study using an assumption of 95% confidence level and 5% level of precision.

By using the above formula to calculate the initial sample size (284), below is how the calculation was done.

$$n = \frac{N}{1 + N(e)^2} \text{ but } N=975 \text{ and } e=0.05.$$

By putting the values into the formula,

$$n = \frac{975}{1 + 975(0.05)^2} = \frac{975}{3.4375} = 284 \text{ (to nearest whole number).}$$

Therefore, n=284 and which was the initial sample size.

After having gone through the above calculation to determine the initial sample size of 284, there was a need to determine a sample fraction (SF) and so it was calculated and below shows how it was calculated.

Sample fraction (SF) = $\frac{n}{N}$; where n=sample size=284 and N=population size=975. By applying this formula ($SF = \frac{n}{N}$); it means $SF = \frac{284}{975} = 0.2913$ (to 4 decimal places). Hence, the sample fraction gotten was 0.2913 meaning $SF=0.2913$.

There after the respondents were then put into the following strata below.

1. Primary school teachers=353.
2. Junior high school (JHS) teachers=252.
3. Senior high school (SHS) teachers=370.

Each stratum was then used to multiply by the sample fraction which is 0.2913 and the results gotten were then sum up.

Thus, primary school teachers = $353 \times 0.2913 = 103$ (to the nearest whole number),

JHS teachers = $252 \times 0.2913 = 73$ (to the nearest whole number) and

SHS teachers = $370 \times 0.2913 = 108$ (to the nearest whole number).

This implies that,

$$\text{Sample size} = \text{primary teachers} + \text{JHS teachers} + \text{SHS teachers} = 103 + 73 + 108 = 284.$$

Hence the initial sample size of 284.

Questionnaires were then issued to 284 respondents and they responded to it. After this number responded to the questionnaires, a total number of 99 questionnaires were then sieved out and used for the study as those respondents who responded to these particular questionnaires have indicated that they consume alcohol. Therefore, the actual sample size that has been used for this study was 99 respondents.

2.1.4. Data Collection Tools

A structured questionnaire was used to collect the data. The questionnaires were issued to the respondents and they answered them.

2.1.5. Data Entry and Analysis

Data was collected daily from respondents: sociodemographic variables, alcohol drinking pattern, and effects of alcohol drinking on the work performance of the teachers in the BND. It entered into the Statistical Package for Social Sciences (SPSS) version 21.0, and analysed. Frequency distributions and descriptive statistics were calculated for the variables. Associations determined using Fisher's exact test.

2.2. Inclusion Criteria

All teachers within the district who were actively teaching for a minimum of three months at the time of the research were included.

2.3. Exclusion Criteria

All teachers in administration positions at the district education office were excluded.

3. Results

Socio-demographic Characteristics of Respondents

A total of 99 (34.9%) out of the 284 teachers interviewed consumed alcohol. Their ages ranged from 20-55 years, with a mean age of 33.5 ± 6.1 and a median age of 33.0 years respectively. The modal age group was 29-37 years. Many of the respondents were males [(75.8%) $p < 0.0001$], with a male to female ratio of 3:1. The great majority of the respondents were professionally trained teachers (83.8%; $p < 0.0001$). Approximately, 70.7% were Builsas' by tribe (Table 1).

Table 1. Socio-demographic characteristics of the respondents.

Variable		Frequency	Percentage	P-value
Age	20–28	29	29.3	
	29–37	55	55.6	
	38–46	13	13.1	
	47–55	2	2.0	
Total		99	100	
Sex	Male	75	75.8	P<0.0001
	Female	24	24.2	
Total		99	100	
Marital status	Married	64	64.6	P<0.0001
	Never married	27	27.3	
	Separated	8	8.1	
Total		99	100	
Tribe	Builsa	70	70.7	P<0.0001
	Kasena-Nankana	7	7.1	
	Frafra	9	9.1	
	Others	13	13.1	
Total		99	100	
Religion	Christianity	87	87.9	P<0.0001
	Islam	3	3.0	
	Traditionalist	9	9.1	
Total		99	100	
Educational Level	SHS	4	4.0	P=0.0022
	College	29	29.3	
	University	66	66.7	
Total		99	100	
Type of teacher	Trained	16	16.2	P<0.0001
	Untrained	83	83.8	
Total		99	100	
School one teaches	Primary	31	31.3	P<0.0001
	Junior high	32	32.3	
	Senior high	36	36.4	
Total		99	100	

Peer influence on the respondents' alcohol intake and alcohol effects on social life, family obligation and finances

A total of 98 (99.0%; $p<0.0001$) teachers had friends who take in alcohol and that 86.9% take alcohol with their friends

(Table 2). Approximately, 91.9%, 97.0% and 93.9% agreed alcohol intake affects one's social life, family obligations and finances negatively (Table 2).

Table 2. Peer influence on the respondents' alcohol consumption and alcohol effects on social life, family obligation and finances.

	Frequency	Percentage (%)	P-value
Have friends that take alcohol			
Yes	98	99.0	P<0.0001
No	1	1.0	
Total	99	100	
Take alcohol with them			
Yes	86	86.9	P<0.0001
No	13	13.1	
Total	99	100	
Alcohol intake affects one's social life			
Yes	91	91.9	P=0.041
No	8	8.1	
Total	99	100	
Alcohol intake affects family obligation			
Yes	96	97.0	P=0.323
No	3	3.0	
Total	99	100	
Alcohol intake affects finances negatively			
Yes	93	93.9	P=0.741
No	6	6.1	
Total	99	100	

Respondents' alcohol intake

Majority 86 (86.9%) of the respondents identified alcohol intake to be a problem among teachers. The commonest

reason why teachers take in alcohol was for socialisation 46 (46.5%). Many 63 (63.6%) of the teachers take in alcohol every day, and that 80 (80.8%) have been taken alcohol for

over one year now. Beer was the alcoholic beverage commonly consumed by teachers (45.4%) (Table 3).

Table 3. The pattern of alcohol intake by respondents.

	Frequency	Percentage (%)
Alcohol intake a problem among teachers		
Yes	86	86.9
No	13	13.1
Total	99	100
Take alcohol		
Yes	99	100
No	0	0.0
Total	99	100
Why do you take alcohol		
For relaxation	31	31.1
For socialization	47	47.5
To forget of problems	21	21.2
Total	99	100
Take alcohol every day or occasional		
Every day	63	63.6
Occasionally	36	36.4
Total	99	100
How long have you been taking alcohol		
6 months	7	7.1
1 year	12	12.1
Over 1 year	80	80.8
Total	99	100
What alcohol beverage do you take		
Beer	45	45.4
Guinness	21	21.2
Pito	13	13.1
Spirits	6	6.1
Not specific	8	8.1
Others	6	6.1
Total	99	100

Effects of alcohol intake on the respondents work

Many of the teachers take in alcohol before going to teach (58.6% $p=0.0227$). Approximately, 43.4% take alcohol after work, while 23.2% drink anytime during the day (figure 1). A total of 33 (33.3%) teachers spent more than one hour at a drinking spot (Figure 2). Many 64 (64.6%) of the respondents agreed that some teachers take in alcohol and

become intoxicated.

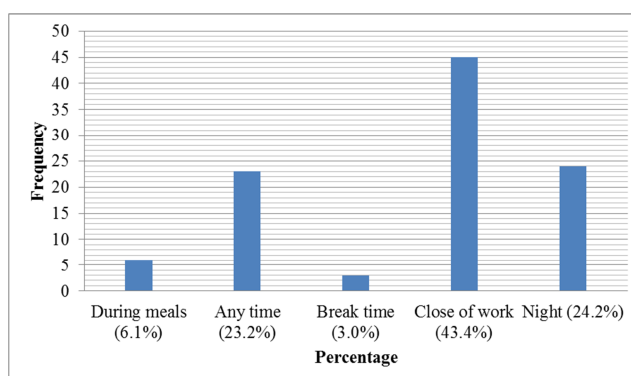


Figure 1. The time of day teachers drink alcohol in the BND.

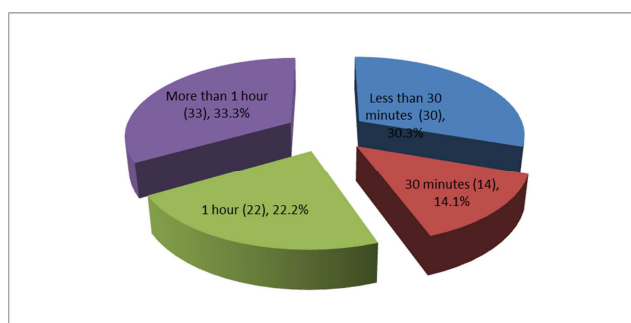


Figure 2. The time spent by teachers in the BND at a drinking spot.

Majority experienced hangover while in the classroom (73.7% $p<0.0001$). Also, the great majority (88.9% $p<0.0001$) absent themselves at time from school due to previous day alcohol intake (Table 4). Approximately, 84.9% of the respondents agreed that teacher who take in alcohol, miss lessons Also, many 74.7% of the respondent agreed that some teachers are not able to finish the syllabus due to alcohol intake (Table 4).

Table 4. Effects of alcohol intake on the work performance of teachers in the BND.

Variable		Frequency	Percentage (%)	P-value
Take in alcohol and go to school to teach?	Yes	58	58.6	$P=0.0227$
	No	9	9.1	
	Sometimes	32	32.3	
Total		99	100	
Take in alcohol and experience hangover whiles at work?	Yes	73	73.7	$P<0.0001$
	No	25	25.3	
	Sometimes	1	1.0	
Total		99	100	
Absent from school due to alcohol intake?	Yes	88	88.9	$P<0.0001$
	No	11	11.1	
	Sometimes	1	1.0	
Total		99	100	
Miss lessons in school due to alcohol intake?	Yes	84	84.9	$P<0.0001$
	No	14	14.1	
	Sometimes	1	1.0	
Total		99	100	
Not able to finish syllabus due to alcohol intake?	Yes	74	74.7	$P<0.0001$

Variable		Frequency	Percentage (%)	P-value
Total	No	25	25.3	
		99	100	
Time of the day you consume alcohol?	Any time	21	21.2	
	Break time	9	9.1	
	Close of work	45	45.5	
	Night	24	24.2	
	Total		100	
What amount of time do you spend on taking alcohol?	Less than 30 minutes	30	30.3	
	30 minutes	14	14.1	
	1 hour	22	22.2	
	More than 1 hour	33	33.3	
	Total	99	100	
Consume alcohol and become intoxicated?	Yes	15	15.2	
	No	35	35.4	
	Sometimes	49	49.4	
	Total	99	100	

4. Discussion

Socio-demographic characteristics of respondents

The current study found that the great majority (84.9%) of the teachers in active service within the BND who drink alcohol were younger than 38 years old with a mean age of 33.5 ± 6.1 years. The age characteristics of this study in the BND are consistent with reports of other studies among different professional groups across Africa [7-9]. For instance, Ovuga et al., (2006) [7], conducted a study on alcohol consumption among the police force in Kampala, Uganda and found the habit to be common among young policemen. Again, a study conducted in Nigeria by Babalola et al., (2017) [9] found hazardous alcohol consumption pattern among younger than 40 years of age. Alcohol was found to be much common among male teachers compared to their female counterparts ($p < 0.0001$) with a male to female ratio of 3:1. The gender characteristics of alcohol consumption as reported in this current study is in line with reports from the GDHS, (2008) [10] and Yawson et al., (2015), [11] which suggested that, in Ghana more men consumed alcohol than women. Similar observations were made by Molnuddin et al., (2016) [12] in their study on alcohol consumption and gender characteristics in India.

Alcohol consumption was found to be common among married teachers ($P < 0.0001$). This supports previous studies in Ghana on marital status and alcohol consumption by Adusi-Poku, et al., (2013), [13] and Tampah-Naah, et al (2015) [14]. For instance, Tampah-Naah, et al., (2015) [11] in a study titled “*Consumption and drinking frequency of alcoholic beverage among women in Ghana: a cross-sectional study*” found positive statistical significant association ($p < 0.0001$) between marital status and alcohol consumption patterns. Majority of the teachers who consumed alcohol were Builsa by tribe. This is because the study was conducted in the Builsa land. This is however in line with reports of a study conducted by Friends of the Future, among five selected districts in the Upper East region which ranked the Builsa youth second in alcohol

consumption with Navrongo youth in the Kassena Nankana District taking the first position (Ghana News Agency, 2010) [15]. Furthermore, the increased alcohol consumption pattern as found in this current study supports reports globally [4, 16]. For instance, Lim et al., reported in their study that alcohol consumption moved from being the eighth highest ranked risk factor in 1990 to the fifth highest ranked risk factor in 2010 [4].

The study found that 87.9% of the respondents were Christians, compared to the other religions combined, with significant positive statistical association ($p < 0.0001$). This finding is in accordance with previous studies in Ghana by Adusi-Poku et al., (2013) [13] and Lamptey, (2005) [17] which reported higher alcohol consumption among Christians compared to their Muslims counterparts. For instance, Lamptey, (2005) [17] reported 82.8% alcohol consumption among Christians compared to 11.5% among Muslims. Similar findings were reported in India in a study by Gupta et al., 2003 [18]. Regarding the schools that the respondents were teaching, the study there was a fair distribution of them across with 31.3%, 32.3% and 36.4% teaching in primary, junior high and senior high schools respectively in the district. However, the study found high educational level to be associated with increased alcohol consumption. For instance approximately 66.7% of the respondents who drink alcohol were university graduates (< 0.0001). Again the study found that 83.8% ($p < 0.0001$), of the respondents were professionally trained teachers. This is in contrast to previous studies in Ghana and other parts of the world [12, 14, 18, 19], which reported high prevalence of alcohol consumption among persons with no or low education level.

Respondents in this current study agreed that alcohol consumption is a problem among teachers in Builsa North district ($p < 0.0227$) and this have negative impact on their work performance. The study established that hangovers while at work were a common feature among teachers who drink excess alcohol ($p < 0.0001$) and potentially a low output of the individual while at work. This supports the findings of a study by Ames et al., (1997) [20] more than 2 decades ago which reported that Workers who had hangovers at work

were significantly more likely to report that they had felt sick at work, had trouble getting their job done and fallen asleep on the job [20]. Similarly, Rukundo et al., (2013) [21] also reported in their study that alcohol consumption by teacher leads to poor decision making in assessing students, poor organization, planning and delivery of lessons and poor learning environment [21].

This study found that teachers who consumed alcohol were more likely to absent themselves from school ($p < 0.0001$) and the resultant effect will be poor academic performance by the students either at the end year examination or terminal examination. This finding is in line with a previous study in southern Ghana by Coleman et al., (2002) [20] which found that teachers who engage in excessive alcohol drinking may absent themselves from school because of hangovers and reduced energy due to dehydration and malnutrition [20]. Furthermore, 84.9% ($p < 0.0001$) of the respondents in the study did indicate that teachers who miss lessons in school were those who drink alcohol. These findings of the current study affirmed findings of a previous study conducted by Rukundo et al., (2013) in Uganda [20].

Secondly, the study reveals that majority (74.7%, $p < 0.0001$) of the teachers who consumed alcohol most often are not able to finish the syllabus. The study also found that teachers either drink during working time or spent so much time at a drinking spot. For instance, 21.2% of the respondents consume alcohol at any time during the day, while 55.5% spent one or more hours at a drinking spot. These potentially suggest a decrease pupil to teacher contact hours, for they are not able to continue with the work of the day, and this impact negatively on the child academic performance/achievements. Previous studies in Africa on the amount of time spent on alcohol consumption and the effect on work output and family like found that most drinking requires time (often spent with drinking colleagues) and this competes with the quality time required for any other routine work and social life including the care for families [9, 21-23]. For instance, a very recent study by Babalola, et al., (2017) on Alcohol Use among Secondary School Teachers in Southwestern Nigeria, reported that teachers who drink heavy alcohol had psychological distress and hence increased risk of alcohol related work place injuries and a reduced productivity [9]. Similarly, Booth et al., (2002) stated that the mere consumption of alcoholic beverage by any person may not predispose them to health or social consequences. It is rather the quantity of alcoholic beverage consumed and the drinking frequency that, importantly, can predict the likely health effects or other socially related consequences they encounter [23].

5. Conclusion

The study found that alcohol intake is a big problem especially among young teachers in the district. The act affects the routine work performance of the teachers with a resultant negative impact on the pupils academic achievements and progression.

6. Recommendations

1. The by-laws of the Ghana education service and the ministry of education regarding the ethics of the profession should be enforced to the later.
2. The supervisory role of the district directors of education and the heads of schools should intensify and conducted regularly, and should be given the powers to query teachers found guilty of an offense.
3. Parents and guardians of the pupils should regularly walk into the schools to monitor the present of their wards and their teachers. Teachers who are known to be absenting themselves from school and are often not able to finish the syllabus should have their salary stopped to serve as warning.
4. The Ghana Education Service should have a policy as part of their in service training or refresher courses to organise workshops on alcohol and substance abuse where the effects of these are highlighted clearly for the participants to see the effects alcohol intake and substance abuse have on their lives and work.

Conflict of Interest

There is no conflict of interest.

Availability of Data

The data used to prepare this manuscript shall be made available upon request by the editor-in-chief.

Author's Contributions

AYW and DEM conceptualized the manuscript. AYW collected and analysed data. AYW and DEM wrote the manuscript, read through the final manuscript approve it for publication.

Ethical Consideration/Informed Consent

This manuscript is an extract from a dissertation submitted to the graduate school of the University for Development Studies (UDS) for the award of a Master of Science degree in community health and development. The university officially wrote to the district director of the Ghana Education Service seeking permission to allow the researcher to carry out the study and the opportunity was granted. The consent participants were sought by the researcher. The objectives of the study were explained to the participants. Confidentiality of respondents was assured. Participants were given the option to withdraw at any time in the course of given out information.

Acknowledgements

We thank the Director of the Ghana Education Service for Builsa North district and his staff, most especially the Coordinator for the Girl Child Education; Madam Lydia

Azangtilow. We also express our gratitude to all those who have contributed in one way or the other to make this research a success.

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