Abstract

Predictors of drug involvement among secondary school students in Ibadan were examined in this study. Two hundred and four (204) students comprising 113 males and 91 females, whose age ranged between 13 and 25 years (M = 16.32, S.D. = 1.81) participated in the study. Data collected with a structured questionnaire were subjected to independent sample t-test, and regression analysis. Psychosocial factors (life purpose, need for achievement and self-esteem) significantly predicted drug abuse [F (6; 113) = 7.75; p < .01, R2 = .29]. Participants with low score on life purpose reported higher substance abuse than those with high score on life purpose, t (161) = 2.62, p < .05; those with low score on the need for achievement reported higher substance abuse than those with high score on the need for achievement, t (162) = 4.09, p < .01; those with low score on the need for achievement reported higher substance abuse than those with high score on the need for achievement t (162) = 2.62, p < .05; female participants reported higher substance abuse than male counterparts, t (176) = -4.05, p < .01). In conclusion, it is expedient that efforts be intensified on actions that will reawaken the strive for excellence and sense of self worth through engagement in self development activities, thereby minimizing the prevalence of substance abuse among Nigerian youths.

Keywords: Drug, Involvement, Predictors, Psychosocial

Introduction

In the past, cases of substance abuse were commonly linked to the adult population, until the 1980’s when the world began to witness the spread of psychoactive use among the younger populations (World Health Organization, 2005). People abuse substances such as alcohol, tobacco, and other drugs for various and complicated reasons, but it is clear that the society pays a significant cost for it.

For instance, the United Nations Office on Drugs and Crime (UNODC, 2012) estimates that in 2010, between 15.5 and 38.6 million people worldwide were problem drug users. It was further stated that around 200,000 people worldwide die each year from drug related deaths. According to the World Health Organization (WHO) (2011), 320,000 young people between the ages of 15 and 29 die from alcohol-related causes each year.

Recently, more cases of psychoactive substance abuse has been reported in Nigeria among adolescents. For instance, (Azudeke, Oni & Dinsu 2012) noted that substance abuse has gradually become a cause for concern due to the alarming increase of consumption over the years in Nigeria. Nigeria has also been rated as the highest consumer of cannabis and amphetamines in Africa (UNODC 2011). A study conducted using a representative sample of Nigerian adults reported that a high proportion (58%) use alcohol, followed by tobacco (17%), sedatives (14%), cannabis (3%), while other substances constituted the remaining 8% (Gureje, Deghenhardt, Olley, Uwakwe, Udofia, Wakil, Adeyemi, Bohmert, & Anthony 2007). Oshodi, Aina, & Onajole (2010) also gave a similar report about the recent increasing rate of substance abuse among Nigerian adolescents. Similarly, Atoyebi & Atoyebi (2013) reported an increasing rate of drug involvement by Nigerian youths. In their investigation among secondary school students in Southwestern Nigerian city, they found that majority of the sampled students claimed awareness of existence of substances of abuse, while most of the students had history of substance use. Analgesics, cannabis, tobacco, alcohol and sedatives constituted the most common substances of abuse among the students.

The increasing rate of substance abuse among the young population has been said to be a strong determinant of moral decadence and loss of societal values and ideals, (Abudu, 2008; Fareo, 2012; Masibo, Mndeme & Nsimba 2013). Asagba (2009) posited that the increasing rate of drug involvement in the contemporary society is a reflection of existential frustration that people experience, which
also drive them to all sorts of nefarious acts in the bid to find satisfac-


tion and in the end they do not find what they desire. They have the
good things of life yet remain unsatisfied and thus say, ”I am sick


According to the Nigerian Drug Law Enforcement Agency
(NDLA, 1997), the use of drugs by adolescents has become one of
the most disturbing health related phenomenon in Nigeria and
other parts of the world. Further, substance abuse and dependence
have been described as one of the most frequently occurring disor-
ders in adolescents, young adults, and the general population.
For instance, drug abuse was described as a major public health prob-
lem all over the world (Asagba & Talabi 2001; UNODC, 2005). Ojji,
Okediji and Udagha, (2006) stated that alcohol abuse over a long
period of time results into brain malfunction. They also highlighted
several consequences of substance abuse on users and community
at large, which include several acts of violence, such as domestic
and sexual assault, problems at workplace including hazard and low
productivity, family and relationship problems, poverty and burden
disease. In addition, concern over behaviour change was also
reported by 64.7% of respondents with history of drug abuse, while
50% reported poor school performance, and sustaining injury in
conflict, (Masibo, Mandere & Nsimba, 2013).

Curiosity, peer group influence, lack of parental supervision, personal
problems, the need for energy to work for long hours, availability of the
drugs, and the need to prevent the occurrence of withdrawal symp-
toms are the commonest triggers of drug abuse reported by most Nigerian
youths (Haladu, 2003; Masibo, et al., (2013); Gebreslassie, Feleke &
investigated the triggers of psychoactive substance among in-school adolescents
in Zaria, North western Nigeria, where 54% of the sampled students, who
have history of substance use reported that they used the substanc-

ekout of curiosity. Nalah & Audu (2014) identified peer pressure as
another strong trigger of substance use and further observed that
the majority of the students, who are substance dependent, saw
formal education as a platform to explore their curiosity. Asagba and
Ifeaka (2007) also reported that knowledge and beliefs of users of
local herbs containing alcohol are associated with indiscriminate
consumption of local alcoholic drink (ogogoro) in Lagos, Nigeria.

Need for achievement, which has been described as an indi-
vidual’s desire for significant accomplishment, mastering of skills,
control, or high standards, has previously been examined to under-
stand its relationship with drug involvement among Nigerian youth.
For instance, Elegbeleye (1995) investigated the role of need for
achievement in the drinking habit of secondary school students in
Ibadan and found out that students’ need for achievement did not
influence their alcohol consumption.

A negative relationship between self-esteem and drug use
was reported by McNeal and Hansen (1999), who postulated that
the deterioration of self-esteem can lead to adolescent drug use/
abuse. Similarly, students from a selected secondary school in
Somolu Lagos, who had low self-esteem reported more involve-
mment in substance use and abuse (Uba, Yaacob, Talib, Mofrad, &
Abdullah, 2013).

Gender difference on alcohol and drug abuse has been repeat-
edly reported. Most of the studies on substance abuse showed that
males abuse substances more than their female counterparts.
A special project carried out by the WHO on gender, alcohol and
culture in eight countries including Nigeria, found out that females
reported significantly lower rate of alcohol consumption than their
male counterparts in all the eight countries (WHO, 2005). Johnston
O’Malley and Bachman (1998) explained that males are more likely
to use illicit drugs and at a younger age than females. They also
established that heavy drinking is more identified with males than
females. Obikeze and Obi (2013) in their descriptive survey study
investigated the relationship between alcohol and violence among
undergraduate students, they found that there is a high involvement
of students in alcohol use and that male students consume alcohol
more than females. Furthermore, Asagba and Talabi (2001), Oshi-

daly & Ifeaka (2007), Oshodi, et. al., (2010) and
Masibo, et. al., (2013) also gave similar reports on gender dif-
fERENCE on substance abuse. However, Elegbeleye (1995), Giusti,
Sarhudo, and Scivoletto (2002), and Bouthoorn, van Hoof and van
der Lely (2011) reported no significant gender difference in alcohol
consumption and intoxication.

People, who reported low life purpose, have been found to
abuse alcohol and have alcohol addiction problem more than peo-
ple with high life purpose in the general population. For instance,
reported a negative relationship between heavy alcohol use and
life purpose. In a similar study on substance abuse in undergraduate
rave culture and other related settings by the Research Sub-
committee of the Action Committee Against Narcotics (ACAN)
(2004) in China, drug abusers were found to have less purpose in
life compared to non-drug abuser participants.

The present study investigated the predictive power of life
purpose, need for achievement, and self-esteem on substance
abuse among Nigerian youths. In order to actualize the purpose
of this study, the following four hypotheses were generated: (1) life
purpose, need for achievement, and self-esteem will significantly
predict substance abuse, (2) students with low life purpose will
report higher involvement in substance abuse than their counter-
parts with high level of life purpose, (3) there will be a significant
difference in substance abuse of students with low and high level
of need for achievement, and (4) there will be a gender difference
in substance abuse.

Methods

Design

A descriptive survey was used in this study. The dependent vari-
able of the study was substance abuse, while the independent
variables include life purpose, need for achievement, self-esteem,
and gender.

Setting

The study was conducted in St. Luke’s College in the heart of
Molete Ibadan, Ibadan South East local government, Oyo State.
Molete is an area of Ibadan, which is notorious for its availability
of psychoactive substances that can be also accessed by school
students and was thus purposively selected for the study. The in-
voluntary participants were selected among senior secondary students in the
school. The study comprised of male and female students and was thus organi-
ized to receive equal representation.

Participants

Two hundred and four (204) randomly selected students participat-
ed in the study. They were drawn from a population of about 600
senior secondary students in the school. Participant comprised of
113 males and 91 females, their ages ranged between 13 and 25
years with a mean of 16.32, and standard deviation 1.81. Fifty-two
percent were from monogamous family.

Instrument

A structured questionnaire was used to collect data in the present
study. It was divided into four sections. Section one was used to

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elicit demographic information such as gender, age, religion, and family background.

Section two is the Drug Involvement Scale developed by Lam, Ng and Boey (2002). The scale is a 22-item instrument designed to measure drug involvement among adolescents. It has five response options ranging from “Absolutely Untrue” (1) to “Absolutely True” (5). A minimum score of 22 and a maximum score of 110 is obtainable. Cronbach’s alpha of 0.90 was obtained by the authors. The scale was also found to be internally consistent in the present study (α = 0.78).

Section three of the questionnaire was the Life Purpose Questionnaire (LPQ) developed by Hablas and Hutzell (1982). The LPQ is a 20-item questionnaire designed as a simpler version of the Purpose in Life Test to measure life purpose attained by an individual. Participants used “agree” or “disagree” to respond to the items. A total score of 20 is obtainable on the scale. The scale has been reported valid and reliable in Nigerian population. For instance, Asagba, Alarape, and Chovwen (2009) reported a Cronbach’s alpha of 0.63 in their study among students of University of Ibadan.

Section four of the questionnaire contains the nine-item adjusted version of Murray’s need for achievement by Oyefeso (1988). The scale was developed to measure an individual’s desire for significant accomplishment, mastering of skills, control, or high standards. Items of the scale are responded to on five response options ranging from “Strongly disagree” (1) to “Strongly Agree” (5). Oyefeso (1988) reported a test-retest coefficient of 0.61 (p<.05, n = 121); a split half reliability of 0.82; internal consistency using Spearman Brown of 0.82 and a convergent validity with the original scale test-retest of 0.68 (p<.01, n = 123). Reliability coefficient of Cronbach’s alpha .80 was established in the present study.

**Procedure**

A letter of approval was obtained from the Commissioner of Education of Oyo state, in order to conduct the study among the target population. The principal of the school was intimated with the purpose of the study and permission was obtained to use the students in the senior class category as participants of the study. The consent of the participants was obtained before questionnaire administration. Questionnaires were administered in a classroom setting after the purpose of the study had been explained. Confidentiality of response was also assured. Data collected were subjected to the Statistical Package for Social Science (version 20). The independent sample t-test and regression analysis were used to test the hypotheses.

**Results**

The first hypothesis of the study stated that life purpose, need for achievement, and self-esteem will significantly predict psychoactive substance abuse among students. The stated hypothesis was tested with a multiple regression analysis. The result obtained was presented in Table 1.

**Table 1:** Multiple regression analysis for variables predicting psychoactive substance abuse

<table>
<thead>
<tr>
<th></th>
<th>N</th>
<th>M</th>
<th>SD</th>
<th>df</th>
<th>t</th>
<th>p</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low</td>
<td>8</td>
<td>55.0</td>
<td>12.0</td>
<td></td>
<td>16</td>
<td>&lt; .05</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>6</td>
<td></td>
<td></td>
<td>2</td>
<td>.01</td>
</tr>
<tr>
<td>High</td>
<td>8</td>
<td>47.2</td>
<td>12.5</td>
<td></td>
<td>1</td>
<td></td>
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<td></td>
<td>1</td>
<td>1</td>
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<td>5</td>
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</table>

* = p<.05   ** = p<0.1

The result in Table 1 revealed that life purpose, need for achievement and self-esteem significantly jointly predicted psychoactive substance abuse (F (3, 135) = 11.20; p < .01, R2 = .20). The result further indicated that life purpose, need for achievement and self-esteem jointly accounted for 20% of the variation in substance abuse reported by the students. Life purpose significantly predicted substance abuse among the participants (t (138) = -2.28, β = -.20, p <.05). The negative value of the beta implies that the lesser the life purpose the more involved in the abuse of psychoactive substances reported by the students. A similar outcome existed for need for achievement as it was found to significantly predict substance abuse among the students (t (138) = -3.94, β = -.31, p <.01). Although self esteem did not significantly predict substance abuse among the students, the significant joint prediction of the three predicting variables on substance abuse confirmed the stated hypothesis.

Hypothesis two stated that students with low life purpose will report a higher involvement in the abuse of psychoactive substances than their counterparts with high level of life purpose. This hypothesis was tested using an independent sample t-test analysis. The result is presented in Table 2.

**Table 2:** Differences in substance abuse between participants with low and high life purpose

<table>
<thead>
<tr>
<th>Life purpose</th>
<th>N</th>
<th>M</th>
<th>SD</th>
<th>df</th>
<th>t</th>
<th>p</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low</td>
<td>84</td>
<td>54.07</td>
<td>11.74</td>
<td>161</td>
<td>2.62</td>
<td>&lt; .05</td>
</tr>
<tr>
<td>High</td>
<td>79</td>
<td>48.86</td>
<td>13.65</td>
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</table>

The result in Table 2 showed a significant difference between students, who reported low level of life purpose and their counterparts, who reported a high level of life purpose on psychoactive substances abuse (t (161) = 2.62, p <.05). Further, it was revealed that students with low life purpose were involved in the abuse of psychoactive substances (M = 54.07, S.D. = 11.74) than students with high life purpose (M = 48.86, S.D. = 13.65). The stated hypothesis was therefore accepted.

The third hypothesis stated that there will be a significant difference in the abuse of psychoactive substances by students with low level of need for achievement and their counterparts, who reported high on need for achievement. This hypothesis was tested with a t-test for independent samples.

**Table 3:** Differences in substance abuse between participants with low and high need for Achievement

<table>
<thead>
<tr>
<th>Need for achievement</th>
<th>N</th>
<th>M</th>
<th>SD</th>
<th>df</th>
<th>t</th>
<th>p</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low</td>
<td>8</td>
<td>55.0</td>
<td>12.0</td>
<td></td>
<td>16</td>
<td>&lt; .05</td>
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<td>6</td>
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<td>2</td>
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<tr>
<td>High</td>
<td>8</td>
<td>47.2</td>
<td>12.5</td>
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</table>
The result presented in Table 3 revealed that there was a significant difference in the abuse of psychoactive substances reported by students with low level of need for achievement and their counterparts, who reported high need for achievement (t (162) = 4.09, p < .01). Students with low level of need for achievement scored higher (M = 55.06, S.D = 12.02) on psychoactive substances abuse than their counterparts with high need for achievement (M = 47.21, S.D. = 12.55). The hypothesis was confirmed.

The fourth hypothesis stated that there will be a gender difference in substance abuse among the students. The hypothesis was tested with t-test of independent samples. The result obtained is presented in Table 4.

**Table 4: Gender difference in substance use**

<table>
<thead>
<tr>
<th>Gender</th>
<th>N</th>
<th>M</th>
<th>SD</th>
<th>df</th>
<th>T</th>
<th>P</th>
</tr>
</thead>
<tbody>
<tr>
<td>Male</td>
<td>101</td>
<td>47.74</td>
<td>13.03</td>
<td>176</td>
<td>-4.05</td>
<td>&lt; .01</td>
</tr>
<tr>
<td>Female</td>
<td>77</td>
<td>55.25</td>
<td>11.12</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

A significant gender difference in psychoactive substance abuse (t (176) = -4.05, p <.01) was shown from the result presented in Table 4. It was further revealed that female students reported a higher involvement in substance abuse (M = 55.25, S.D. = 11.12) than male students (M = 47.74, S.D. = 13.03). The hypothesis was therefore accepted.

**Discussion**

The present study examined psychosocial factors such as life purpose, need for achievement and self-esteem as predictors of psychoactive substance abuse among senior students in a secondary school in Ibadan. The researchers found that life purpose and need for achievement predicted substance abuse among the students. Contrary to expectation, self-esteem did not predict substance abuse in the present study. This is in contrast to several studies that reported negative correlation between self-esteem and substance abuse (McNeal & Hansen, 1999; Uba, Yaacob, Talib, Mofrad & Abdullah, 2013).

In line with the assertion by Lukas (1986) as cited by Asagba (2009), it can be inferred that adolescents with a clear and definite life purpose tended not to get involved in drug abuse unlike those with poor life purpose. A probable explanation is that people with definite life purpose are likely to be more focused and satisfied with life, they also tend to value the present and have good hope about the future. People with low life purpose, are however more likely to be depressed and hopeless about the future. The feeling of existential frustration leads them to engage in behaviour like hazardous alcohol consumption and use of psychoactive substances of different kinds. Consistent with the findings of this study, Waisberg and Porter (1994) and AGAN (2004) reported a negative association between life purpose and drug abuse. They noted that the more meaningful the life purpose reported by the participants the less their involvement in substance abuse.

A previous finding on substance abuse and need for achievement among Nigerian youths reported by Elegbeleye (1995) concluded that the drive to consume excessive amount of alcohol was not influenced by their level of need for achievement. In contrast, we found a significant influence of need for achievement on substance abuse.

Finally, abuse of psychoactive substances was found to be more pronounced among the female students. This finding is in contrast to many previous studies that investigated gender difference on overall use and abuse of psychoactive substances. For instance, Oshodi, Aina, and Onajole (2010) reported that male secondary school students were more involved in drugs than their female counterparts except for antibiotics, analgesics, heroin and cocaine. Furthermore, Johnston, O’Malley and Bachman (1998) in their survey on drinking behaviour among adolescents in United States of America reported a higher percentage of male students reporting drinking than female students.

In conclusion, the present study examined the psychosocial predictors of psychoactive substance abuse among senior students in a secondary school. The findings of this study established that the abuse of psychoactive substances among adolescents in secondary school remain a problem in the educational system and in our contemporary society. It is quite obvious that psychosocial variables are paramount in the abuse of such substances among senior secondary school students. Surprisingly, female students reported higher drug involvement than male. This calls for further study especially to explore the specific types of drugs of abuse among this target population and observe the types that female are likely to be more involved with. Self esteem was however not found to be a significant factor by the present researchers even though several other researchers had found an inverse relationship between it and substance abuse.

It is recommended that further research on the relationship between self esteem and substance abuse be done. Also, workshops should be organized for students and teachers in all secondary schools in Nigeria on psychosocial factors like need for achievement, life purpose, and self esteem in order to equip students with better life skills. In addition, efforts should be intensified by school authorities towards reawakening strive for excellence among their students, which would make them engage in more profitable tasks and have their sense of self worth increased. Furthermore, parents and guardian should provide proper guidance to their children and wards in order to live better purposeful lives. Finally, regular assessment of substance abuse should be conducted among secondary school students, in order to identify students in need of help, and for proper orientation.
References


