Determinants of Substance Abuse among Commercial Bus Drivers in Kano Metropolis, Kano State, Nigeria

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Abstract: Background: The use of illicit substances among commercial bus drivers is not only increasing but strangely predisposing the drivers and their passengers to health hazards. There is however paucity of empirical data on the factors associated with this increase. Aim: This study was conducted to explore the determinants of substance abuse among commercial bus drivers in Kano Metropolis, Kano state, Nigeria. Methodology: A descriptive cross sectional design was used for the study where by 196 respondents were selected through a multi-stage cluster sampling technique. A validated and structured interviewer administered questionnaire (IAQ) was used to collect data from the eligible respondents. The data were analysed using descriptive statistics. Results: Findings from the study showed that eight out of every ten (81.1%) of the respondents has ever abused a substance. The desires to relax/sleep after a hard days job (84.8%), work hard (48%), relieve stress (81%), relieve anxiety (66.5%) and pleasure (72%) are the major factors associated with the abuse of substances by the respondents. The most commonly abused substances by the respondents include solution (93.3%) coffee (85.2%), Tramadol (80.6%), local stimulant tea (Gadagi) (78.1%), cola-nut (66.3%) and tobacco (65%), Substance abuse can be reduced by controlling the production and sale of commonly abused substance (27.6%). Conclusion: The major determinants of substance abuse among commercial bus drivers are the desires to work hard, relieve of stress and anxiety. It is therefore recommended that Government should control the production, supply and sale of these illicit substances.

Keywords: Determinants, Substance, Abuse, Bus Drivers, Commercial

1. Introduction

Substance abuse, also known as drug abuse, is a patterned use of a drug in which the user consumes the substance in amounts or with methods which are harmful to themselves or others (Nutt, King, Saulsbury & Blakemore, 2010). The use of illicit drugs across the globe has increased in recent years (Ekpenyong, 2012). It is estimated that about 230 million people (5%) out of the world’s adult population have used an illicit drug at least once in the last 12 months of the survey (United Nations Office on Drugs and Crime UNODC, 2012). Given the dearth of scientific survey in Africa, information on drug use in the region is extremely inadequate. However the annual prevalence rate in Africa for cannabis use fluctuates roughly between 4 and 14 per cent, and is the highest in the world. Nigeria tops in the use of illicit drugs in Africa (UNODC, 2012).

The number of youths that have been incarcerated and indulged in various forms of crime in Nigeria have increased over the last few decades (National Drug Law Enforcement Agency, NDLEA, 2014). It has been estimated that Heroin, cocaine and other drugs kill around 0.2 million people each year, shattering families and bringing misery to thousands of other people. Illicit drugs undermine economic and social development and contribute to crime, instability, insecurity and the spread of HIV (NDLEA, 2014). The specific illicit
drugs with the largest numbers of persons with past year dependence or abuse in 2013 were marijuana (4.2 million), pain relievers (1.9 million), and cocaine (855,000). (National Survey on Drug Use and Health NSDUH, 2013).

The major influences of smoking among youths are friends (Winters, 2009). In addition, advertisements, film, TV stars, pop stars and fashion models make smoking seem attractive and the adolescents imitate them to smoke their style (Jiloha, 2011; Nutt et al, 2010). Parents have a tremendous influence on their children as the children of smoker parents are twice likely to become smokers. Parental disapproval of smoking makes an adolescent less likely to initiate smoking (Winters, 2009). Cannabis abuse in school-going population has been associated with poor scholastic performance, school dropout and reinforcement of conduct symptoms (Rockville, 2005). Availability and accessibility are important factors in initiation and maintenance of drug abuse among adolescents. (Nutt et al, 2010).

Drug abuse in northern Nigeria’s largest city (Kano) has been on the rise in recent years, with anti-narcotics officials and experts warning of serious social consequences if the problem is not addressed. Kano has the country’s highest drug abuse rate based on the number of seizures, arrests of addicts and convictions of arrested dealers, according to the National Drug Law Enforcement Agency (NDLEA, 2013). The use of hard drugs, especially among the youths, has become a real social menace and cuts across all social strata, with people from both rich and poor backgrounds deeply into it (NDLEA, 2013).

The use of illicit substance cuts across every sector, occupation, gender and area. With the increase in the rate of road traffic accidents and injuries in the state, commercial bus drivers have also been implicated in the use of illicit substances. According to the World Health Organization (2007) studies from low-middle income countries still show 4%-69% of injured drivers having alcohol in their blood. A significant proportion of commercial drivers use stimulants to keep awake and relieve fatigue during their long work schedules. (Davey & Richards, 2005). Intoxicants such as alcohol and marijuana affect the mental state of drivers leading to altered perceptions and delayed reactions, increasing the risk for having Road Traffic Accident (Drummer, 2005). The high incidence of road traffic accident observed now in our society is thought to be directly linked with high incidence of substance use among commercial bus drivers, likewise other immoral behaviours among them which is a serious problem to the peaceful co-existence of people they interact with especially their passengers. Aggressive behaviours are common and routine in their day to day life. (Taiwo, 2015)

Since the National Drug Law Enforcement Agency (NDLEA) was set-up in 1999, frantic efforts are being made to collect relevant information on drugs through variety of drug indicators for policy formulation. The impact of this agency in terms of intervention strategies and control is tremendous. (Essien, 2010). There is however a dearth of empirical evidence on why substance abuse is not only common among commercial bus drivers but persisting and increasing. Hence this study was conducted to explore the determinants of substance abuse among commercial bus drivers in Kano Metropolis. Findings from the study will help in creating awareness in the society on the general effects of substance abuse on their health and to provide policy makers with empirical data on the strategies to control the menace of substance abuse.

2. Methodology

2.1. Research Design and Instrument

A cross sectional survey design was used for the study. Data was collected with a validated interviewer administered questionnaire (IAQ). The questionnaire comprised 5 sections: section A, covers the bio-data of the respondent; section B, the rate of substance abuse and section C covers the factors associated with substance use. Sections D and E elicited the commonly abused substances and measures that can be used to reduce substance abuse respectively. The target population of the study encompasses all the commercial bus drivers in Kano metropolis.

2.2. Study Setting

This study was conducted in Kano Metropolis, Kano State in Northern Nigeria. The state is the commercial center of Northern Nigeria and is the second largest city in Nigeria after Lagos. According to the 2006 census, Kano is the most populous state in Nigeria, with about 9,383,682 million people. The Kano urban area covers 137km² and comprises six local government areas (LGAs) Kano Municipal, Fagge, Dala, Gwale, Taurauni and Nassarawa with a population of 2,163,225 at the 2006 Nigerian census. The metropolitan area covers 499 km² and comprises eight LGAs the six mentioned above plus Ungogo and Kumbotso with a population of 2,828,861 at the 2006 Nigerian census (Benyard, 2005). Kano metropolis was chosen as the study area as a result of high prevalence of substance abuse as reported recently by agencies concerned with fighting substance abuse.

2.3. Sample Size and Sampling Technique

A sample size of 196 was obtained by utilizing the Kirkwood formula for determining sample size $n = \frac{z^2 \cdot p \cdot (1-p)}{\varepsilon^2}$ (Kirkwood, 2003). Where $n$ = the acquired minimum sample size, $\varepsilon$ = margin of error (5%) = 0.05, $p$ = prevalence (a prevalence indicator of 85% by Moses (2010) was used for the this study, $z$ = standard normal deviation corresponding to 95% confidence level. = 1.96. the sample size was increased by 5% to 206 to control attrition.

A multistage cluster sampling technique was used to select six out of the eight local governments in Kano metropolis using simple random sampling technique, the selected local government areas are Nassarawa, Gwale, Municipal, Kumbotso, Taurauni and Ungogo local Governments respectively. Two political wards were then selected from each of the six local governments using
judgmental non probability sampling. A single motor park was then selected from each of the selected wards using convenience non probability sampling. A total of 16 commercial bus drivers were selected from eight (8) of the 12 selected motor parks, and 17 respondents were selected from the remaining four motor parks using convenience sampling technique.

2.4. Ethical Clearance and Data Collection

Ethical clearance for the study was sought from Kano State Ministry of Health with reference number MOH/Off/797/T.I/53. Eligible respondents were voluntarily recruited at the selected bus parks. They were informed of the purpose of the study, their roles, possible benefits and risks of participating in the study and then allowed to make an informed consent to participate in the study. The researcher read the questions and options from the questionnaire and asked the respondent to choose the appropriate answer. Data collected was treated with confidentiality.

2.5. Data Analysis

The data was entered in the statistical package of social sciences (SPSS version 20) and the result was presented in simple frequency distribution tables and percentages. The mean of the ages of respondents was computed.

3. Results

Results as indicated in Table 1 revealed that all (100%) of the respondents are male. More than two fifth (45.4%) of the respondents are within the age range of 25-34 years. The respondents have an average age of 32.3 years. Findings of the study further showed that more than one third (36.7%) of the respondents had primary education as their highest qualification. The proportion of respondents that earn between ₦21,000/$42 and ₦30,000/$63 (42.9%) was nearly twice that of those that earn from ₦31,000/$64 to ₦40,000/$83 (23%).

Table 2 revealed that more than eight out of every ten (81.1%) of the respondents takes one form of substance or the other. The proportion of respondents that abused more than one substance at a time (49.4%) was similar to those that abused only one substance (50.6%). More than half (53.6%) of the respondents abused substances about 2-3 times in a day. The Table also indicated that the reasons why commercial bus drivers abused substances are to relax/sleep after a hard days job (84.8%), work hard (48%), relieve stress (81%), relieve anxiety (66.5%) and pleasure (72%).

Table 2. Distribution of the respondents by rate of abused substance.

<table>
<thead>
<tr>
<th>Variables</th>
<th>Frequency</th>
<th>Percentage (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Use of substance other than those required for medical reasons N=196</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Yes</td>
<td>158</td>
<td>81.1</td>
</tr>
<tr>
<td>No</td>
<td>38</td>
<td>18.9</td>
</tr>
<tr>
<td>Abuse of more than one substance at a time N=158</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Yes</td>
<td>78</td>
<td>49.4</td>
</tr>
<tr>
<td>No</td>
<td>80</td>
<td>50.6</td>
</tr>
<tr>
<td>Frequency of substance intake N=151</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1-2 times</td>
<td>56</td>
<td>37.1</td>
</tr>
<tr>
<td>2-3 times</td>
<td>81</td>
<td>53.6</td>
</tr>
<tr>
<td>3+ times</td>
<td>14</td>
<td>9.3</td>
</tr>
<tr>
<td>Ability to stop using substance N=156</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Yes</td>
<td>31</td>
<td>19.9</td>
</tr>
<tr>
<td>No</td>
<td>125</td>
<td>80.1</td>
</tr>
<tr>
<td>Reasons of substance use other than those required for medical reasons.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>To work hard</td>
<td>52</td>
<td>48</td>
</tr>
<tr>
<td>To relieve anxiety</td>
<td>33.5</td>
<td>66.5</td>
</tr>
<tr>
<td>To relieve stress</td>
<td>19</td>
<td>81</td>
</tr>
<tr>
<td>To relax/sleep</td>
<td>15.2</td>
<td>84.8</td>
</tr>
<tr>
<td>For pleasure</td>
<td>28</td>
<td>72</td>
</tr>
</tbody>
</table>

Table 3 revealed that commonly abused substances by the commercial bus drivers are solution (93.3%), coffee (85.2%), tramadol (80.6%), local stimulant tea (Gadagi) (78.1%), cola-nut (66.3%) and tobacco (65%). The Table further showed that more than one quarter (28.5%) of the respondents have used some measures to control themselves from taking substance. Measures that have been tried by the respondents to stop or control substance abuse include avoiding the substance (76.4%), suppressing the desire to take the substances (82.9%) and prayers seeking God’s intervention (29.9%). Strategies that can be used to stop or control substance abuse as suggested by the respondents include health education (81.1%), controlling the production, distribution and availability of the substances (72.4%), rehabilitation of commercial bus drivers engaged in substance abuse (91.8%) and spiritual intervention (91.8%).

Table 1. Distribution of the respondents by bio-demographic data N=196.

<table>
<thead>
<tr>
<th>Variables</th>
<th>Frequency</th>
<th>Percentage (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sex</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Male</td>
<td>196</td>
<td>100</td>
</tr>
<tr>
<td>Female</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Age in years</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
more income and to relieve stress after a long day work are the major reasons why the respondents engage in substance abuse. This validates findings of Alti, Muazu & Aliyu (2008) where keeping awake, suppression of fatigue, and peer group effect were the identified factors influencing psychoactive substance use.

Some of the respondents have used measures to control themselves from taking substance. This is true because it has been established that only few individuals have the ability or measures that can be used to control themselves from taking substance. Likewise more than two fifth of the respondents control themselves from taking substance by avoiding them and the remaining respondents did not mention avoidance as a measure of prevention or control of substance abuse. It has been established in this research work that More than three fifth of the respondents control themselves from substance intake by suppressing the desire to take the substance. Also more than one fifth of the respondents say their prayers seeking God’s intervention in prevention and control of substance use, people have the belief that with God everything is possible.

Strategies that can be used to stop or control substance abuse as suggested by the respondents include health education, controlling the production, distribution and availability of the substances, rehabilitation of commercial bus drivers engaged in substance abuse, and spiritual intervention. The study showed that there is a significant relationship between the age of respondents and the rate of substance abuse which explains why a significant majority of the respondents that abuse substance are young adults.

### 5. Conclusion and Recommendation

The study concluded that the major determinants of substance abuse include the desire to work hard, desire to relieve stress, anxiety relief, desire to relax, pleasure seeking stimulus and most importantly age (young adults). It is therefore recommended that Government control the production, supply and sale of commonly abused substances. Nurses and other health care workers educate youths on the importance of rest to the body. The commercial bus drivers and the general public should be enlightened on the dangers and the health implication of substance abuse. The National Drug Law Enforcement Agency should work with National Agency for Food Drug Administration and Control, National Union of Road Transport Workers and health care workers to prevent this illicit act.

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