Reprinted from

International Journal of Health Research

Peer-reviewed Online Journal

http://www.ijhr.org

Abstracting/Indexing

Embase, Index Corpenicus, Chemical Abstracts, Socolar, EBSCO, African Journal Online, African Index Medicus, Open-J-Gate, Directory of Open Access Journals (DOAJ)



International Journal of Health Research

The *International Journal of Health Research* is an online international journal allowing free unlimited access to abstract and full-text of published articles. The journal is devoted to the promotion of health sciences and related disciplines (including medicine, pharmacy, nursing, biotechnology, cell and molecular biology, and related engineering fields). It seeks particularly (but not exclusively) to encourage multidisciplinary research and collaboration among scientists, the industry and the healthcare professionals. It will also provide an international forum for the communication and evaluation of data, methods and findings in health sciences and related disciplines. The journal welcomes original research papers, reviews and case reports on current topics of special interest and relevance. All manuscripts will be subject to rapid peer review. Those of high quality (not previously published and not under consideration for publication) will be published without delay. The maximum length of manuscripts should normally be 10,000 words (20 single-spaced typewritten pages) for review, 6,000 words for research articles, 3,000 for technical notes, case reports, commentaries and short communications.

Submission of Manuscript: The *International Journal of Health Research* uses a journal management software to allow authors track the changes to their submission. All manuscripts must be in MS Word and in English and should be submitted online at http://www.ijhr.org. Authors who do not want to submit online or cannot submit online should send their manuscript by e-mail attachment (in single file) to the editorial office below. Submission of a manuscript is an indication that the content has not been published or under consideration for publication elsewhere. Authors may submit the names of expert reviewers or those they do not want to review their papers.



The Editorial Office
International Journal of Health Research
Dean's Office, College of Medicine
Madonna University, Elele Campus, Rivers State
E-mail: editor_ijhr@yahoo.com or editor@ijhr.org



International Journal of Health Research, December 2009; 2(4): 333-338

© Poracom Academic Publishers. All rights reserved.

Available at http://www.ijhr.org

Original Research Article

Open Access
Online Journal

Psychosocial Characteristics of Patients Admitted to a Drug Rehabilitation Unit in Nigeria

Received: 02-Dec-09 Revised: 30-Dec-09 Accepted: 31-Dec-09

Abstract

Purpose: To identify the pattern and psychosocial characteristics of alcohol and other psychoactive substance use among patients admitted to a drug treatment unit of a regional psychiatric hospital in Benin City, Nigeria.

Methods: A cross-sectional survey of 90 in-patients was conducted over a 6 month period, using a specially designed questionnaire to elicit socio-demographic and personality characteristics. Patterns of psychoactive substance use were obtained by self reporting and corroborated from case notes. Associated psychiatric diagnoses were recorded according to clinicians' diagnosis using to the ICD-10.

Results: Majority of respondents were single (86.7%), male (92.2%), and unemployed (62.2%) with up to 12 years formal education (52.2%) and raised by both parents (60%) in polygamous family settings. Most (52.2%) misused a combination of psychoactive substances. Some (41.1%) had been using these substances for over 7 yr prior to admission. Psychiatric co-morbidity was infrequent (60%) and the commonest psychiatric diagnosis seen was schizophrenia (23.3%). A minority reported a history of parental use of psychoactive substances. Shy, reserved and sociable traits were seen in a minority of respondents.

Conclusion: Combinations of psychoactive substances are usually misused by young males from polygamous family settings. Cannabis use accounts for a high proportion of inpatient admissions. The successful management of substance use disorders needs preventive social strategies among vulnerable groups in resource-poor settings like ours.

Keywords: psychoactive substance use, psycho-social, socio-demographic characteristics.

George O Eze Bawo O James* Joyce O Omoaregba Reuben O Osahon

Department of Clinical Services, Federal Psychiatric Hospital, PMB 1108, Uselu, Benin City, Nigeria

*Corresponding author

Tel: +234-80237-15213

E-mail: bawojames@yahoo.com

Introduction

Psychoactive substance use and its disorders constitute a major public health burden in Nigeria [1]. A recent national epidemiological survey of lifetime substance use showed that alcohol was commonly used or misused [2]. In this survey, benzodiazepenes, tobacco and cannabis were less commonly misused. It also revealed that induction into psychoactive substance use commonly occurred in late childhood to the early adolescent years. Respondents who are Christians compared to other faiths were more likely to abuse psychoactive substance, especially alcohol [2]. In Pakistan, psychoactive substance users were more likely to be males with low socio-economic indices [3]. Individuals who are shy and sociable have been reported to be more likely to misuse psychoactive substance [4].

Studies enumerating the socio-demographic psycho-social demographics substance users in treatment settings in Nigeria are few [5.6]. The extensive retrospective survey by Ohaeri and Odejide [6] was conducted over 17 years ago. In their survey, the majority of admissions into drug treatment units according frequency of psychoactive substances were for cannabis use (77%), though most of the in-patients abused multiple substances. Research on this area is of vital importance to equip clinicians in formulating strategies to reduce the burden on families in the management of patients with substance use disorder. Identifying psycho-social correlates of substance use will be contributory in the effective design and implementation of preventive health policy in this area and in a developing country like Nigeria. This study therefore aims elucidating at psychosocial characteristics as well as identifying patterns of psychoactive substance use among patients at a regional treatment facility in Nigeria.

Methods

Setting

The study was conducted at the Drug Rehabilitation and Treatment Unit of the Psychiatric Hospital, Benin City, Edo State, Nigeria. The Unit is a purpose built 21-bed facility, that offers in-patient psychotherapeutic, pharmacological, vocational and psychosocial treatment services for substance abuse patients covering a population of about 10 million persons across 3 States of the country. It caters for patients with either a combination of substance use and psychiatric disorders or substance use disorders alone.

Study design

semi-structured questionnaire designed by the authors following focus group sessions involving patients, mental health nursing staff working at the drug unit, psychiatrists, social workers and a clinical psychologist. The first part elicited the sociodemographic data of patients and included age, sex, religion, occupation, presence/ duration of unemployment, monthly income, marital and educational status. Occupational status was classified using the groupings by Borroffka and Olatawura [7]: class I (doctors, lawyers, teachers. scientists. government officers); class II (teachers, administrators, clerical, supervisory personnel, large-scale farmers, entrepreneur and armed forces officers); class III (clerks, motor vehicle officers, mechanics, tailors, butchers, soldiers, policeman, small-scale entrepreneurs); class IV (cooks, barbers, domestic servants, gas station attendants, goldsmiths, palm wine tappers, small-scale farmers); class V (labourers and petty traders); and class VI (full time housewives, unemployed educated youths and apprentices). The next section elicited psychosocial variables. Two statements (Were you nervous as a child? and Were you regarded as odd and queer?) with dichotomous 'yes-no' responses, elicited patients' perceptions of their pre-morbid

mental health. Three statements (Do vou consider yourself - a shy person, - a reserved person, - a sociable person) with 'yes-no' responses were used to assess personality traits. The personal history of the patients was also obtained with questions directed at determining the duration and type of parental care, history of substance use by parents, reason for using substance, number of siblings and occupational status of the parents. Case files of the patients were examined by the authors to determine type substance(s) used, presence psychiatric co-morbidity and family history of mental illness.

All patients admitted into the drug treatment and rehabilitation unit of the hospital between January and August, 2005 who were 18 years and above and able to understand the nature of the study were recruited after they had given written informed consent. Questionnaires were self administered. After completion, respondents who had not completely filled the questionnaire and required clarification on some items were assisted by one of the authors.

Data analysis

Data was analysed using the SPSS version 17.0 (SPSS, Chicago, IL, USA). Results were calculated and presented using descriptive statistics. The student's t-test was used to compare means of some sample characteristics and proportional data were analysed using chi-square test or Fisher's exact test as appropriate. At 95% confidence interval, p values less than 0.05 were considered significant.

Results

A total of 101 patients met the inclusion criteria during the period of study. Of these, 4 declined to participate in the study, while 7 had incomplete data. Thus, 90 patients were included in the analysis given 89% as the participation rate.

The mean age (±SD) of the patients was 27.45±8.43 years, with a range of 18 – 64 years. Majority of them (92.2%) were males, had received up to 12 years of formal education (52.2%), Christian (86.7%), and employed (57.8%). There was no significant difference in the mean age by sex (df=88, p=0.90). Of those employed, a majority were professionals without university degrees (18.9%) and clerical staff (12.2%). Minority of them were married (13.3%), one was divorced, another separated and the rest were single (84.4%). Furthermore, a minority reported having children (17.8%).

Most of the patients received treatment for a combination of alcohol, cannabis and tobacco related problems (52.2%), while over a third (35.6%) had been misusing cannabis alone. A minority was admitted for misusing cocaine alone (2.2%), heroin alone (1.1%) and a combination of cocaine, heroin and tobacco misuse (2.2%). In terms of duration of drug use, most had been abusing psychoactive substance for over 7 years (41.1%). Though, most of the patients gave no reason for commencing psychoactive substance use, of those who had reasons, peer pressure was most implicated (23.3%). At the time of the study, most had no associated psychiatric disorder (60%).However. the psychiatric co-morbidity diagnosed were schizophrenia (23.3%), depression (12.2%) and bipolar disorders (4.4%). In 23 (25.6%) patients, it was observed that there was a prior history of a psychiatric disorder. Their sociodemographic and clinical characteristics are shown in Table 1.

Concerning their personality traits, some of them (37.8%) reported that they were often nervous in social situations as children, while a smaller proportion (33.3%) said peers and relatives considered them as odd or queer in their child and adolescent years. Forty four (48.9%) considered themselves as shy, 64 (71.1%) as sociable, while 14 (15.6%) had a combination of shy and sociable personality traits. Complete details of their personality characteristics are illustrated in Table 2.

Table 1: Socio-demographic characteristics of patients

Sociodemographic variable	Frequency n (%)
Age class (years)	
≤25	47 (52.2)
26 – 40	36 (40.0)
41 – 55	6 (6.7)
>55	1 (1.1)
Sex	
Male	83 (92.2)
Female	7 (7.8)
Religion	
Christian	78 (86.7)
Muslim	3 (3.3)
Traditional religion	9 (10)
Education	
< 6 years	15 (16.7)
6 – 12 years	47 (52.2)
>12 years	28 (31.1)
Employment status	
Employed	25 (27.8)
Unemployed	65 (62.2)
Duration of employment	(==)
<3 years	13 (52)
3 – 5 years	10 (40)
>5 years	2 (8)
Occupational class	
Class I	4 (4.4)
Class II	17 (18.9)
Class III	11 (12.2)
Class IV	11 (12.2)
Class V	38 (42.2)
Marital status Married	10 (10 0)
	12 (13.3)
Single	78 (86.7)
Marriage type	10 (00 0)
Monogamous	10 (83.3)
Separated Divorced	1 (8.3) 1 (8.3)
Monthly income/allowance	۱ (٥.٥)
≤N5,000	21 (61 9)
≥N5,000 >N5,000	21 (61.8) 13 (28.2)
>NU,UUU	13 (20.2)

A majority of the patients (80%) reported that they were raised by their parents. Most were raised by both parents (86.2%). They were raised mostly in polygamous family settings (60%) and indicated that there was a history of alcohol or other psychoactive substance use in 25.6% of their fathers, and 7.8% of their mothers. Less than a third (30%) reported ever migrating out of the country.

Illustration of their psychosocial variables is shown in Table 3.

Table 2: Clinical characteristics of patients

Clinical variables	Frequency n (%)
Psychoactive substance(s) used	
Alcohol, cannabis and	
tobacco	47 (52.2)
Cannabis alone	32 (35.6)
Alcohol alone	6 (6.7)
Cocaine alone	2 (2.2)
Heroin alone	1 (1.1)
Cocaine, heroin and tobacco	2 (2.2)
Psychiatric illness present	
None	54 (60)
Schizophrenia	21 (23.3)
Depression	11 (12.2)
Bipolar disorder	4 (4.4)
Duration of substance use	
≤1 year	21 (23.3)
2 – 7 years	32 (35.6)
>7 years	37 (41.1)
Reason for commencing	
substance use	
None	51 (65.7)
Peer pressure	21 (23.3)
Enhance performance (work,	6 (6.7)
social skills)	
Frustration/anger	8 (8.9)
Previous psychiatric illness?	
Yes	23 (25.6)
No	67 (64.4)

Discussion

The socio-demographic characteristics observed in this sample are similar to that in an earlier survey of southern Nigeria [5]. Young males are in a vulnerable position. They are prone to taking risks and have an increased tendency to experiment with drugs [8]. Experimentation often is due to peer pressure, though most of our respondents gave no reason for initiating the habit of psycho-active substance use. The high representation of Christians in our sample reflects the predominant faith practised in this environment. Though, most of our respondents had up to 12 years of formal

Table 3: psychosocial characteristics of patients

Psychosocial variables	Frequency n (%)
Nervous as a child?	00 (04 4)
Yes	28 (31.1)
No	62 (58.9)
Regarded as odd or queer? Yes	04 (06.7)
res No	24 (26.7)
Consider yourself a shy person?	66 (63.3)
Yes	27 (26.7)
No	58 (63.3)
Consider yourself a reserved	00 (00.0)
person?	44 (48.9)
Yes	46 (41.1)
No	, ,
Consider yourself a sociable	
person?	64 (71.1)
Yes	18 (18.9)
No	
Shy and sociable?	
Yes	14 (15.6)
No Baile and have a second of	76 (84.4)
Raised by parents?	70 (00)
Yes No	72 (80)
Raised by which parent?	18 (20)
Both	62 (86.2)
Mother alone	4 (5.5)
Father alone	6 (8.3)
Marriage type of parents	0 (0.0)
Monogamous	36 (40)
Polygamous	54 (60)
Substance use among parents	, ,
('indicated yes')	23 (25.6)
Father	7 (7.8)
Mother	
Previously emigrated?	
Yes	27 (30)
No	63 (70)

education, this often does not translate to employment opportunities. A combination of unemployment, being single with small monthly income or allowance largely characterised this sample. It stands to reason that social programs like free education, vocational skills training and increased employment opportunities for the socio-economically disadvantaged will impact positively in reducing the prevalence of substance misuse and the health burden it constitutes on lean resources.

Unlike in the recent national survey where alcohol use was predominant [2], the higher representation of cannabis, used alone or in combination with alcohol and tobacco in our sample may be explained in terms of psychiatric co-morbidity. Oshodi et al [9], recently reported a high association between cannabis use and psychopathology. Many lay persons are unaware of available treatment facilities for substance use disorders in the country. Rather, when relatives observe that psychoactive substance use has precipitated or is complicated by a psychiatric illness, they may then present to these psychiatric services primarily to seek treatment for disruptive behaviour. Thus, surveys on substance use in treatment units may not provide a true picture of the prevalence of substance use in our environment.

Though, modelling significant others who use substances have been implicated as an aetiological factor [10], a minority reported a history of substance use in their parents. Furthermore, most were raised by both parents, but were from polygamous family settings. The questionnaire did not however explore other family dynamics such as upbringing style and degree permissiveness in child training implicated in predisposing individuals to substance use. We also observed that most did not exhibit shy or reserved personality traits. A sizable number said they were sociable. A combination of shyness and sociability has been shown to be a predictor for eventual substance misuse in western cultures [4]: however a minority exhibited this combination of traits in this study.

Limitations

This study was conducted at a single centre, thus the generalization of its findings are limited. We relied heavily on self report in data acquisition with the result that there might have been under or over reporting. Furthermore, the aspect of our questionnaire enquiring about personality traits was not

validated and limits its comparison or interpretation.

Conclusion

This study found that although most patients abuse a combination of psychoactive substances, cannabis use appears to account for a large number of in-patient treatments. Unexpectedly, shy, reserved or sociable traits were least reported. This may be due to under-reporting as well as the use of a non-validated instrument. Substance use and its disorders remain a major public health concern. Socio-economically disadvantaged groups are more at risk. A relationship to psychiatric morbidity may explain this variation. Prevention strategies promoted treating be as combination of a substance use disorder and co-morbid psychiatric illness has poorer outcomes.

Conflict of interest

There is no conflict of interest associated with this work.

Author contributions

We declare that this work was done by the authors named in this article and all liabilities pertaining to claims relating to the content of this article will be borne by the authors. GOE and ROO conceived the study, GOE, BOJ and JOO designed the questionnaire, conducted the data analysis wrote the manuscript. All authors approved the final draft of the manuscript.

References

- Odejide AO. Problems of drug use in Nigeria: a review of existing literature. Niger Med J 1980; 10: 122-125.
- Gureje O, Degenhardt L, Olley BO. A descriptive epidemiology of substance use and substance use disorders in Nigeria during the early 21st century. Drug Alcohol Depend. 2007; 91:1–9.
- Margoob MA, Majid A, Hussain A, et al. Changing sociodemographic and clinical profile of substance use disorder patients in Kashmir valley, JK Pract. 2004; 11(1):14-16.
- Santesso DL, Schmidt LA, Fox NA. Are shyness and sociability still a dangerous combination for substance use? Evidence from a US and Canadian sample. Pers Individual Differences. 2004; 37(1): 5-17.
- Adamson, T.A., Akindele, M.O. Experience with an in-patient treatment model for alcohol and drug dependence in Nigeria. West Afr. J. Med. 1994; 13, 105–108.
- Ohaeri JU, Odejide AO, Admissions for drug and alcohol related problems in Nigerian psychiatric care facilities in one year Drug Alcohol Depend. 1993; 31:101-109.
- Boroffka A, Olatawura MO. Community psychiatry in Nigeria: the current status. Int J Soc Psychiatr. 1976; 23:1154-1158.
- Thorn B. Risk taking behaviour in men: substance use and gender. Health Development Agency, UK. Available online at http://www.gbymn.org.uk/ gbymnp/mentarisk.pdf (accessed on 10 June, 2009).
- Oshodi JO, Ikeji OC, Olotu SO, Ihenyen OF, Obianwu HO. A retrospective study of cannabis use-associated psychopathology in a southern Nigerian treatment facility. Afr J Drug Alcohol Studies. 2009; 8(1): 9 – 15.
- Andrews JA, Hops H, Ary D et al. Parental influence on early adolescent substance use. J Early Adol. 1993; 13(3): 285-310.