Factors influencing awareness and attendance of traditional oral health care practices by residents of a peri-urban community in Ibadan, Nigeria

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Abstract

Background: In order to institute preventive programmes against harmful traditional oral health practices there is a need to identify targets.

Objectives: To investigate factors influencing awareness and attendance of traditional oral health practices by residents of a peri-urban community in Ibadan, Nigeria.

Methods: A cross-sectional study of adult residents selected by simple random sampling in a peri-urban community in Ibadan, Nigeria, was conducted over a period of six months. Information was obtained with interviewer administered questionnaires. Data were recorded using SPSS version 16 software.

Results: A total of 172 (44.1%) respondents were aware of the existence of traditional healers for dental problems. Only 34 (8.7%) participants had been to traditional healers on account of toothache. About 76.5% reported having relief after treatment with relapse occurring in 12 cases (46.2%). Twenty (58.8%) of these (34) participants said they would not choose this option of treating dental problems in future. Significant associations existed between knowing that traditional healers provided dental treatment and gender (p = 0.001) or history of dental problems (p = 0.008).

Conclusion: The study showed moderate awareness of traditional oral care practices in Ibadan, Nigeria as influenced by gender and previous dental problems.

Key words: Traditional, oral health care, practices, awareness, attendance, factors.

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Introduction

In many African countries, access to oral health services is limited and teeth are often left untreated or are extracted to relieve pain or discomfort while in industrialised countries there has been a positive trend of reduction in tooth loss among adults in recent years¹. The gap created by this inadequate coverage in dental services is more often than not filled by alternative oral health care services^{2,3}. Traditional practitioners are often the first point of contact in many sub-saharan communities, especially where some form of integration into modern

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Folake Barakat Lawal University of Ibadan, Department of Periodontology and Community Dentistry PMB 5017, Ibadan 200212, Nigeria. Phone number - +234-8023658988, Email address: folakemilawal@yahoo.com dental practice has occurred, and tooth extractions are often performed by them for painful tooth conditions⁴. Some researchers have reported positive outcome from the use of traditional alternative to oral care. One of such is the report on the medicinal value of Nigerian chewing sticks, Massularia acuminata and Distemonathus benthamianus⁵.

On the other hand complications may arise from some traditional health care practices leading to worsened dental appearance. One such example is qat, a leafy substance that is popular in several East African countries as well as in the Arabian Peninsula. It is commonly consumed, for its stimulant effect, in the form of tea, smoking, or chewing of the leaves. In addition to causing severe greenish discoloration of teeth, gat consumption can cause adverse effects such as oral mucosal lesions, dryness of the mouth, formation of cavities and development of periodontal disease¹. Furthermore, certain cultural practices of cosmetic nature taking place in some African communities include; pinching of gums to make them darker in colour, brushing of children's gingiva with fresh herbs and drilling holes in the upper lips of girls⁶⁻⁸. These and other practices are associated with morbidities^{8,9}.

engage in these harmful practices and seek dental treatment from traditional healers. Although it has been shown that 90% of those resident in the south-western parts of Nigeria are aware of traditional medical healers¹⁰, very little information is available on dental care provided by traditional practitioners in the region. Sarita and Tuominen¹¹ in a study from Tanzania have documented a poor patronage of traditional dental practitioners by rural dwellers. It is, however, not known if the situation in a peri-urban community that has ready access to a primary oral health care centre will be similar. on the respondent's dental history. Furthermore, the need arises to investigate the factors that influence the awareness of adults about traditional oral health care practices and reasons why they would seek traditional methods of treatment for dental problems. Socio-cultural influences have been implicated as If they were aware, they were asked about the sources supporting the propagation of harmful practices when of information. They were also asked to shed light on traditional practitioners are visited.

This is exemplified by the practice of dental mutilation by the deliberate removal of incisor teeth of adolescents "seeking rite of passage into adulthood" in Western Cape, South Africa¹². Elucidating the predictors of treatment seeking behaviour for these alternative forms of treatment will be a starting point towards primary oral health preventive programmes targeted at eliminating harmful traditional oral health care practices, while encouraging beneficial ones. The objectives of of association between variables were conducted with the study included describing the socio-demographic characteristics of residents of a peri-urban community in Ibadan, south-western Nigeria with knowledge of traditional oral health care practices and determining factors that influence awareness and service utilization.

Methods

A descriptive cross-sectional study of adult residents of a peri-urban community in Ibadan, Nigeria, was conducted over a period of six months. A total of 390 residents aged 18 years and above were selected through a simple random sampling technique. The sampling frame was obtained from a list of numbered houses in ble 1. Of the surveyed participants, 155 had experi-

Despite this, individuals in the African community still the community and houses were selected using a table of random numbers. The occupants of the selected houses were then approached and if they consented, they were recruited up to a maximum number of four adults in each house. The next house selected through the sampling was then approached until the sample size was attained. Information was obtained with the use of interviewer administered questionnaires, which contained items on sociodemographic characteristics of age, gender, marital status, educational status and occupation. The questionnaire also sought information

> The participants were asked if they were aware of or had consulted traditional healers for dental problems in the past, with responses recorded as "Yes" or "No". the reasons why people patronize traditional "dentists", the range of treatment provided and its perceived effectiveness using a combination of open- and close-ended questions. There was strict compliance with the Helsinki Declaration principles on research involving human subjects.

> Data were processed using the SPSS version 16 software. Descriptive and inferential statistics were used as appropriate for univariate and bivariate analysis. Tests the use of Chi-square; sociodemographic characteristics and problems with the teeth in the past were treated as independent variables while awareness of traditional healers for dental treatment and consultation with a traditional healer for dental problems were categorised as dependent variables for this purpose. The level of statistical significance was set at a p-value of < 0.05.

Results

A total of 390 participants were recruited for the study with a mean age of 38.6 (SD = 15.6) years. The socio-demographic characteristics are as displayed in Taenced problems with their teeth in the past.

Table 1: Socio-demographic characteristics of the participants

Characteristic	Categories	No (%)	
Age	\leq 39 years	239 (61.3)	
	> 39 years	151 (38.7)	
Gender	Male	219 (56.2)	
	Female	171 (43.8)	
Marital status	Single	21 (51.4)	
	Married	280 (71.8)	
	Widowed	21 (5.4)	
	Divorced	1 (0.3)	
Educational status	None	59 (15.1)	
	Primary school (6th grade)	125 (32.1)	
	Secondary school (12th grade)	173 (44.4)	
	Tertiary education	33 (8.5)	
Occupation	Skilled workers	48 (12.3)	
	Unskilled workers	286 (73.3)	
	Dependants	56 (14.4)	

located within easy reach of the clients. The medicines Awareness of traditional healers for dental probadministered ranged from solids through semi-solids lems A total of 172 respondents were aware of the existence to liquids. It was common practice to extract "worms" of traditional healers for dental problems. The majorfrom the painful sites and 13 of the 34 participants who ity (93) knew about them through friends, 46 through had received traditional dental treatment claimed such. mass or electronic media, 20 heard about them through A large proportion of the respondents (76.5%) reportfamily members and 13 through sign posts meant for ed having relief after treatment even though there was a relapse following treatment in 46.2%. The readvertisement or when 'medicines' were being hawked. The reasons given for consulting the healers included: maining 23.5% did not experience relief from pain even cheaper than conventional dental care (34.9%), cultural after the use of concoctions. A total of 14 participants and family practices (20.3%), medicines are more posaid they would choose this option of treating dental tent (7.6%) and proximity compared to orthodox dental problems in future while 20 responded otherwise. clinics (5.8%). Some of the participants (17.4%) gave lack of awareness on alternatives to the traditional healers as the main reason. Socio-demographic characteristics and awareness

The proportion of males (29.0%) who knew that some Use of traditional healers for dental care traditional healers gave dental treatment was higher than Of the participants, 34 had been to traditional healers on that of females (15.1%) p = 0.001. There was no relaaccount of dental problems in the past. All visits were tionship between status of awareness and participants made for toothache. Most (76.5%) of the healers were age, marital status, educational status and occupational class as shown in Table 2.

of traditional healers for dental treatment

Table 2: Relationship between awareness of traditional dental healers and
sociodemographic characteristics of the participants

Awareness of traditional dental healers						
Variable	Aware	Not aware	Total	χ^2	p value	
	No (%)	No (%)	No (%)			
Age group (years)				*		
\leq 39	98 (41.0)	141 (59.0)	239 (100.0)	2.404	0.121	
> 39	74 (49.0)	77 (51.0)	151 (100.0)			
Total	172 (44.1)	218 (55.9)	390 (100.0)			
Gender				-	-	
Male	113 (51.6)	106 (48.4)	219 (100.0)	11.383	0.001	
Female	59 (34.5)	112 (65.5)	171 (100.0)			
Total	172 (44.1)	218 (55.9)	390 (100.0)			
Marital status				-		
Married	132(47.1)	148 (52.9)	280 (100.0)	3.722	0.054	
Unmarried	40 (36.4)	70 (63.6)	110 (100.0)			
Total	172 (44.1)	218 (55.9)	390 (100.0)			
Highest education			-	-	-	
None	25 (42.4)	34 (57.6)	59 (100.0)	0.143	0.931	
Primary/Secondary	133 (44.6)	165 (55.4)	298 (100.0)			
Tertiary	14 (42.4)	19 (57.6)	33 (100.0)			
Total	172 (44.1)	218 (55.9)	390 (100.0)			
Occupation				-	-	
Skilled workers	20 (41.7)	28 (58.3)	48 (100.0)	0.133	0.936	
Unskilled workers	127 (44.4)	159 (55.6)	286 (100.0)			
Dependants	25 (44.6)	31 (55.4)	56 (100.0)			
Total	172 (44.1)	218 (55.9)	390 (100.0)			

Problem with tooth/teeth in the past and awareness of traditional healers for dental problems

Eighty one out of the 155 participants with a previous history of dental problem were aware that traditional healers gave dental treatment whereas 91 of the 235 who claimed not to have had issues with their teeth knew that traditional healers provided dental treatment (p = 0.008).

Factors influencing consultation of traditional healers for dental problems

There was no association between sociodemographic characteristics and previous visitation to a traditional healer (Table 3). Similarly, no significant relationship was found between previous tooth problems and consulting with a traditional healer for dental problem (Table 3).

Table 3: Association between variables and previous visitations to traditional healers	for
dental problems	

Had visited traditional dental healers in the past							
Variable	Yes	No	Total	χ^2	p value		
	No (%)	No (%)	No (%)				
Age group (years)				•			
\leq 39	17 (17.3)	81 (82.7)	98 (100.0)	0.841	0.359		
> 39	17 (23.0)	57 (77.0)	74 (100.0)				
Total	34 (19.8)	138 (80.2)	172 (100.0)				
Gender				-			
Male	23 (20.5)	89 (79.5)	112 (100.0)	0.119	0.730		
Female	11 (18.3)	49 (81.7)	60 (100.0)				
Total	34 (19.8)	138 (80.2)	172 (100.0)				
Marital status							
Married	28 (21.4)	103 (78.6)	131 (100.0)	0.894	0.344		
Unmarried	6 (14.6)	35 (85.4)	41 (100.0)				
Total	34 (19.8)	138 (80.2)	172 (100.0)				
Highest education	,		é.				
None	7 (28.0)	18 (72.0)	25 (100.0)	1.341	0.511		
Primary/Secondary	24 (18.0)	109 (82.0)	133 (100.0)				
Tertiary	3 (21.4)	11 (78.6)	14 (100.0)				
Total	34 (19.8)	138 (80.2)	172 (100.0)				
Occupation		-		-	-		
Skilled workers	6 (30.0)	14 (70.0)	20 (100.0)	2.272	0.321		
Unskilled workers	25 (19.7)	102 (80.3)	127 (100.0)				
Dependants	3 (12.0)	22 (88.0)	25 (100.0)				
Total	34 (19.8)	138 (80.2)	172 (100.0)				
Previous dental proble	m						
Yes	13 (15.9)	69 (84.1)	82 (100.0)	1.514	0.219		
No	21 (23.3)	69 (76.7)	90 (100.0)				
Total	34 (19.8)	138 (80.2)	172 (100.0)				

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utilization in Africans¹⁵. Therefore, there is a close re-Discussion Traditional medical practices have been with indigesemblance between the oral health behaviour of Afrinous African communities for centuries¹². Many of cans, either with conventional or traditional health care these practices have, however been dropped because settings. of improved awareness and access to modern methods of health care or modified as a result of better inte-The major sources of awareness of traditional healers gration of traditional health practitioners into modern for dental problems in this study were through friends health care^{4,5,13}. In this study, 44.1% of the respondents and mass or electronic media. Friends, noted in this were aware of the existence and functions of traditionstudy, as the most important source of awareness about traditional practitioners of oral health care may be beal healers on matters of dental problems. This is lower than what was reported by Bamidele et al.¹⁰ where cause of the traditions that exist in the African setting, 90.4% of urban residents of south- west Nigeria were where individuals are more likely to interact with each aware of the existence of traditional medical care. The other, have friends outside the immediate environment major methods of care mentioned by the respondents and be influenced by peers creating awareness outlets to in that study included traditional bone setting and use relieve dental pain. Furthermore, the radio and televiof herbs. sion have been reported as important sources of information about the existence of traditional practitioners These methods have been shown to be associated with of health¹⁰.

negative health outcomes in the African society¹³. Consequently, the greater awareness of medical rather than The poor degree of regulation of advertisement by dental practitioners of traditional health care may be the traditional practitioners in sub-Saharan Africa has because there are more negative reports associated with contributed to the heavy use of radio jingles and telvisiting such traditional medical practitioners. Another evision clips in promoting their existence, often with explanation may be the fact that some of the causes unsubstantiated claims of medicines that could cure all of dental pain may be self-limiting or relieved by other ailments. Socioeconomic and cultural factors were the means such as self-medication¹⁴. most frequent reasons given by inhabitants for visiting traditional healers for dental care. In a society where poverty is rampant and health insurance is available only to a handful, cost becomes a major consideration in the choice of medical or dental care. In a study conducted among 1,759 adult Tanzanians on the barriers to use of emergency services for oral health care, lack of money to pay for treatment or transportation to the dental clinic were noted as major deterrents to seeking emergency oral health care¹⁴.

Only 9% of the residents of the peri-urban community surveyed in this study had ever visited a traditional healer for dental problems. This low rate of utilisation of traditional methods for dental care is similar to that reported from Tanzania¹¹. Although residents of two rural communities in that country utilised traditional methods for general medical care, very few patronised traditional practitioners for dental care because they perceived that dental care was best in hospital settings, in spite of the distance to those facilities¹¹. In addition, In that study only a quarter of the respondents who the present study showed that there is a significant ashad experienced acute dental pain went to a hospital, with the majority of respondents using self-medication. sociation between having repeated history of dental problems and being aware of the operations of the Adegbembo¹⁶ had similarly shown that social class and traditional oral health care providers. Those who had economic status were significant predictors of visiting experienced toothaches in the past were more likely to a dentist. know that these practitioners offered such services. An Male respondents were more likely to be aware of traditional oral health care practitioners than female ones and visited the practitioners more often. The influence

explanation for this is that pain is an important factor making people seek any dental treatment option available. of gender on the awareness may be because the male gender has been considered a risk factor of some oral This was further explained by the problem driven approach to conventional oral health care that has been diseases such as periodontal diseases¹⁷. Therefore, when documented as the typical pattern of oral health care acute pain sets in following complications of dental

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caries and other periodontal problems, the male looks by gender and previous dental problems. Relapse and for the quickest or easiest ways to ameliorate the pain, hence turning to traditional healers.

Although many respondents in this study who had visited a traditional healer for relief of pain perceived immediate relief, relapse occurred in nearly half of them and overall relief from pain was reported by only 41.2%. About 40% of these respondents claimed they had "tooth worm(s)" extracted by the traditional healers. The extraction of "worms" is often interpreted as a sign of treatment of the underlying pathology in some African and Latin American countries^{18,19}. The immediate relief perceived may be due to the psychological impact posed by the extraction of the "tooth worms" regarded as the causative agent and or the analgesic properties of the concoction administered.

This will need to be further investigated. Moreover 4. Agbor AM, Naidoo S, Mbia AM. The role of trathe self-limiting effect of some oral diseases may also account for this, as the type of oral disease or condition affecting the respondents as at that time was not known. The effectiveness of the traditional methods of oral health care employed by the inhabitants of the study location is less than optimal with the result that 58.8% of those who had patronized them vowed never to return. This was further evidenced by the relapse occurring in nearly half of those who had received such treatment. Further reinforcing this, is the finding from a study in South-west Nigeria where more than half of the participants were aware of the side effects of 7. Elujoba AA, Odeleye O, Ogunyemi C. Review-Travisiting traditional medical practitioners and as much as 47% felt that visiting a traditional medical practitioner could be injurious to their health¹⁰, though our study did not address the issue of side effects.

One limitation of this study was that of not investigating the actual contents of the concoction administered, some of which have been anecdotally reported to contain mixtures of orthodox medications as these may have contributed to the relief experienced by some of the respondents, in the first place, hence totally nullifying any effectiveness earlier attributed to the traditional remedies.

Conclusion

The study has shown moderate awareness of traditional health care practices in a typical peri-urban community in Ibadan, Nigeria. Such awareness is influenced

'non-relief of pain' appeared to be the major outcomes of visiting traditional healers for oral health care.

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