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 years. The gap created by this inadequate coverage in dental services is more often than not filled by alternative oral health care services. Traditional practitioners are often the first point of contact in many sub-saharan communities, especially where some form of integration into modern dental practice has occurred, and tooth extractions are often performed by them for painful tooth conditions. 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 benthamianus.

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, qat consumption can cause adverse effects such as oral mucosal lesions, dryness of the mouth, formation of cavities and development of periodontal disease. 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 girls. These and other practices are associated with morbidities.
Despite this, individuals in the African community still 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 healers, very little information is available on dental care provided by traditional practitioners in the region. Sari-ta and Tuominen 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. 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 supporting the propagation of harmful practices when 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 Africa. 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 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 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 on the respondent’s dental history.

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”. If they were aware, they were asked about the sources of information. They were also asked to shed light on 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 of association between variables were conducted with the use of Chi-square; sociodemographic characteristics and problems with the teeth in the past were treated 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 Table 1. Of the surveyed participants, 155 had experienced problems with their teeth in the past.

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

Awareness of traditional healers for dental problems
A total of 172 respondents were aware of the existence of traditional healers for dental problems. The majority (93) knew about them through friends, 46 through mass or electronic media, 20 heard about them through family members and 13 through sign posts meant for advertisement or when ‘medicines’ were being hawked. The reasons given for consulting the healers included: cheaper than conventional dental care (34.9%), cultural and family practices (20.3%), medicines are more potent (7.6%) and proximity compared to orthodox dental clinics (5.8%). Some of the participants (17.4%) gave lack of awareness on the alternatives to the traditional healers as the main reason.

Use of traditional healers for dental care
Of the participants, 34 had been to traditional healers on account of dental problems in the past. All visits were made for toothache. Most (76.5%) of the healers were located within easy reach of the clients. The medicines administered ranged from solids through semi-solids to liquids. It was common practice to extract “wombs” from the painful sites and 13 of the 34 participants who had received traditional dental treatment claimed such. A large proportion of the respondents (76.5%) reported having relief after treatment even though there was a relapse following treatment in 46.2%. The remaining 23.5% did not experience relief from pain even after the use of concoctions. A total of 14 participants said they would choose this option of treating dental problems in future while 20 responded otherwise.

Socio-demographic characteristics and awareness of traditional healers for dental treatment
The proportion of males (29.0%) who knew that some traditional healers gave dental treatment was higher than that of females (15.1%) p = 0.001. There was no relationship between status of awareness and participants age, marital status, educational status and occupational class as shown in Table 2.
Problems with tooth/teeth in the past and awareness of traditional healers for dental problems

Eighty out of the 155 participants with a previous history of dental problems 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 problems (Table 3).

Discussion

Traditional medical practices have been with indigenous African communities for centuries. Many of these practices have, however, been dropped because of improved awareness and access to modern methods of health care. Any, as a result of better integration of traditional health practitioners into modern health care. In this study, 44.1% of the respondents were aware of the existence and functions of traditional healers on matters of dental problems. This is lower than what was reported by Banudde et al. [10] where 90.4% of urban residents of south-west Nigeria were aware of the existence of traditional medical care. The major methods of care mentioned by the respondents in this study included traditional bone setting and use of herbs.

These methods have been shown to be associated with negative health outcomes in the African society. Consequently, the greater awareness of medical rather than traditional practitioners of traditional health care may be because there are more negative reports associated with visiting such traditional medical practitioners. Another explanation may be that some of the causes of dental pain may be self-limiting or relieved by other means such as self-medication [14].

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 Tanzania [11]. Although residents of two rural communities in Tanzania utilised traditional methods for general medical care, very few patronised traditional practitioners for dental care because they perceived that dental care was best provided in hospital settings, in spite of the distance to those facilities. In addition, the present study showed that there is a significant association between having repeated history of dental problems and being aware of the operations of the traditional oral health care providers. Those who had experienced toothaches in the past were more likely to know that these practitioners offered such services. An explanation for this is that pain is an important factor making people seek any dental treatment option available.

In that study only a quarter of the respondents who had experienced acute dental pain went to a hospital, with the majority of respondents using self-medication. Adegbeso et al. [15] had similarly shown that social class and economic status were significant predictors of visiting a dentist.

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 of gender on the awareness may be because the male gender has been considered a risk factor of some oral diseases such as periodontal diseases [16]. Therefore, when acute pain sets in following complications of dental
caries and other periodontal problems, the male looks 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 countries16,17. 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 the 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 visiting traditional medical practitioners and as much as 47% felt that visiting a traditional medical practitioner could be injurious to their health18, 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 by gender and previous dental problems. Relapse and "non-relief of pain" appeared to be the major outcomes of visiting traditional healers for oral health care.

**References**