The role of dentists in clinical tobacco cessation interventions: The status in Nigeria

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ABSTRACT
There are myriads of oral diseases associated with chronic tobacco use. Dentists are influential leaders in oral healthcare and many tobacco users do seek them for clinical care. However, in Nigeria, anecdotal and scientific evidence shows that dentists play little or no role in clinical tobacco cessation interventions. Many Nigeria dentists fail to play a role in clinical tobacco cessation interventions due to deficits in knowledge on clinical management of tobacco addiction. Unlike in some other foreign dental schools, clinical tobacco cessation intervention is not included in the academic curriculum of dental schools in Nigeria. Hence, it is recommended that a review of the curriculum of dental education in Nigeria should be conducted, favoring the incorporation of tobacco cessation intervention into the curriculum. Also, clinical guidelines on the implementation of clinical tobacco cessation intervention strategies should be developed for Nigerian dentists.

ABBREVIATIONS
CME: Continual medical education, LMICs: Low and middle income countries, NRT: Nicotine replacement therapy, NUC: Nigeria University Commission, MDCN: Medical and Dental Council of Nigeria

COMMENTARY
Tobacco is a leading cause of death globally, claiming the lives of 8 million people every year1. The burden of tobacco use is enormous with about 1.1 billion people in the world being smokers of tobacco and tobacco products1. The majority (at least 80%) of these smokers are from LMICs, including Nigeria2.

There are myriads of oral diseases associated with chronic tobacco use3-4 including gingivitis, periodontitis, periodontal abscess, oral pre-cancer, and oral cancer3,4.

A review of clinical cases of oral diseases managed in dental settings revealed that patients with a history of tobacco use had poorer health outcomes than patients that were non-users of tobacco6-7. A very effective way to stem the development of tobacco-associated oral diseases is through tobacco cessation interventions3.

Dentists are influential leaders in oral healthcare and many tobacco users do seek them for clinical care. Hence, through their clinical position, they can influence tobacco smokers toward quitting tobacco use5-8. However, in Nigeria, anecdotal and scientific evidence shows that dentists play little or no role in clinical tobacco cessation interventions5.

This brief research (case study) article has the aim of: giving an overview on the deficiency of dental education in Nigeria, as regards tobacco cessation, and the role of tobacco in the Nigerian oral healthcare system; giving a brief note on the role of dentists in clinical tobacco cessation intervention; and also giving policy recommendations that support the significant engagement of Nigerian dentists in clinical tobacco cessation interventions.

Dental education in Nigeria
Undergraduate training of dentists in Nigerian universities officially started at the University of Lagos, in 196410. Thereafter, over the years, more and more dental schools have been established. According to the MDCN, there are 8 accredited dental schools in Nigeria11; this implies that Nigeria currently has the capacity to produce over 100 dentists per year. Since the commencement of undergraduate dental training in Nigeria, the academic curriculum of dental education has undergone a series of reviews and modifications12,13. Undergraduate dental education in Nigeria
traditionally takes a minimum of six years and another one
year of internship, after which a trained dentist in Nigeria can
be fully registered with the MDCN\textsuperscript{13}.

It is noteworthy to say that the academic curriculum
doctoral education in Nigeria is very rich and fortified\textsuperscript{13}. However, the curriculum has some deficiencies\textsuperscript{9,13}; for instance, the curriculum failed to include academic and
clinical training on tobacco cessation intervention strategies,
for dental students\textsuperscript{9}. This curricular deficit is not a universal
phenomenon, as some dental schools in other countries, such
as Japan, have it included in their own academic curriculum\textsuperscript{9}.

Furthermore, in the curriculum for postgraduate clinical
training of dentists in Nigeria, there is no clear evidence that
clinical training on tobacco cessation intervention strategies
exists\textsuperscript{9,13}. However, based on the author’s experience, the
opportunities available for dental students or dentists who are willing to acquire extra-curricular clinical skills on tobacco cessation interventions are few and limited.
A common example of these few opportunities is CME programmes, such as workshops, seminars, etc.

**Tobacco and dental practice**

As a practicing dentist in Nigeria, it is almost practically
impossible not to have at least one tobacco user (usually a
smoker) among the pool of patients treated at the dental
clinics in a week. This is so because: 1) tobacco smoking is
a leading cause of oral diseases\textsuperscript{4}.

Since tobacco is a known major risk factor for so many
oral diseases\textsuperscript{4}, it becomes imperative for dentists to have a
vast knowledge on tobacco-related clinical issues that are of
relevance to dentistry. However, research has shown that
not all Nigerian dentists have a sound knowledge on tobacco-
related clinical topics\textsuperscript{9}.

Importantly, a dentist may be the first healthcare
provider to detect early complications of tobacco use in a
patient. Hence, it is of huge clinical and public health benefit if dentists can play decisive roles in tobacco cessation interventions, since scientific evidence has shown that clinical interventions offered by dentists, in a dental setting, increase the likelihood of a tobacco smoker to quit tobacco use\textsuperscript{15}.

**The situation of dentists’ role in tobacco cessation intervention in Nigeria**

Raw tobacco is a nicotine-containing addictive psychoactive
substance. Also, all products made from raw tobacco (such as
snus, khaini, cigar, bidis, kreteks, cigarettes, shisha, and pipe)
contain nicotine\textsuperscript{16,17}.

Chronic consumption of tobacco and tobacco-products can
cause nicotine addiction – tobacco nicotine dependence\textsuperscript{3,18}.
Fortunately, many tobacco users are willing to quit its use\textsuperscript{19}.

There are two major strategic protocols developed to clinically manage tobacco nicotine dependency in patients\textsuperscript{3,19,20}: 1) clinical counselling therapy; and 2) NRT.
The former involves non-pharmacological management of
tobacco using patients while the latter involves the use of
drugs in such management\textsuperscript{1,19,20}.

Tobacco causes damage to the mouth\textsuperscript{4} – the primary
principle of the dentist. Hence, a dental patient deserves
to benefit from tobacco cessation intervention in order to
have better oral health outcomes\textsuperscript{5-7}. Based on the available
evidence, dentists in Nigeria are playing very little or no role in supporting tobacco smoking dental patients to quit
smoking. Research has shown that Nigerian dentists have
inadequate knowledge on tobacco cessation strategies\textsuperscript{9,14}.

**Ways forward**
The Nigerian dentist occupies a very influential position in
patient care; in fact, they are one of the first-line healthcare
practitioners sought for care, especially at the community
level. Also, dentists can play an effective role in the creation
of tobacco-free individuals, through their participation in
counselling their patients to quit\textsuperscript{5,14,20}.

**CONCLUSION**

It is recommended that a review of the curriculum of
doctoral education should be done, with the primary focus of
incorporating tobacco cessation intervention (such as
clinical counselling therapy and NRT) as an integral part of
the curriculum. A similar recommendation was also made
by some Nigerian dentists\textsuperscript{9}; therefore, it is a serious issue
for dental practice in Nigeria. Also, clinical guidelines for the
implementation of clinical tobacco cessation intervention
strategies should be developed for Nigerian dentists, as
done in other countries\textsuperscript{21}. Through the application of these
two strategies, dentists trained in Nigeria will be in a better
position to support tobacco-using dental patients to quit.

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CONFLICTS OF INTEREST
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