Assessment of the awareness of periodontal diseases and oral hygiene practice among various healthcare professionals: A cross sectional study

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ABSTRACT

Context: Oral health is an important component of general health that influences quality of life which affect appearance and psychological activities of person. Oral diseases have impact on overall systemic health. So doctor must play active role in educating their patients about role of oral diseases in their overall health.

Aims: To assess the awareness of periodontal diseases and oral hygiene practice among healthcare professionals.

Settings and design: A total of 200 participants were selected from Ayurveda College, Homeopathic Medical College and two other hospitals for this study. Convenience sampling is used here.

Methods and Materials: 50 participants from each group were selected for study. The questionnaire consisted of 10 questions based on assessment of oral hygiene practice, knowledge of periodontal diseases and to promote oral hygiene.

Statistical analysis: Collected data was analyzed statistically using SPSS version 24 and utilized for statistical analysis. Pearson Chi-square test was used to evaluate differences between different variables and level of statistical significance was P < 0.05.

Results: Homeopathy participants were more concerned about their oral healthcare comparing other groups. About 62% of Ayurveda and Homeopathy participants were able to identify dental patients and refer them for proper dental care. All the groups have knowledge regarding periodontal diseases.

Conclusion: Although healthcare professionals who had undergone previous dental visit had some awareness regarding oral diseases, oral health knowledge was poor among healthcare professionals. There is also a need to enhance awareness of healthcare practitioners about periodontal disease.

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1. Introduction

Periodontal disease including gingivitis and periodontitis is an inflammation of the gums that results in loss of the supporting tissues holding the teeth in its socket.1 The signs and symptoms include reddish or swollen gums, bleeding gums, halitosis or in severe cases, loosening of teeth. Oral health diseases are harmful to the quality of life from childhood through old age and can have an effect on self-esteem, eating ability, diet and health.2,3 Oral health has been considered just equally as important as general health. More prevalence among the dental diseases are dental caries and the periodontal problem and it is a significant component of the burden of a global epidemic.4 The main cause of periodontal disease is bacterial plaque but many other factors such as hormonal changes, diabetes, poor diet, smoking and stress can affect initiation and progression. Oral health is an important component of general health that has been shown to influence the quality of life which can affect the appearance, social functions and day-to-day physical and psychological activities of the person.5 Oral diseases have a definite impact on overall...
systemic health; therefore, the doctor must play a more active role in educating their patients about the role of oral diseases in their overall health.¹ But a healthcare professional’s role in improving the population’s oral health depends on his own knowledge of oral disease and its impact on general health, his attitude toward dentistry, and their daily practice in preserving oral health. The prevention of dental diseases requires complete involvement of the community, the professional and the individual.⁶ Previous literatures have reported that the healthcare professionals have deficit in knowledge regarding periodontal diseases. So the study was conducted to assess the awareness of periodontal disease and oral hygiene practice among various healthcare professionals. The reason for study being conducted in health care professionals is that they are directly involved with the society.

So if the healthcare professionals are aware about periodontal diseases and effective oral hygiene practices they can refer their patients to the dentist for diagnosis and treatment of periodontal diseases at early stage and also counsel their patients to maintain good oral hygiene.

1.1. Subjects and Methods

A total of 200 participants were selected from Government Ayurveda College and Hospital Thrippunithura, Dr Padiar Memorial Homeopathic Medical College Chottanikara, Indo American Brain and Spine Centre Chemmanakary and Medical Trust Hospital Ernakulam for this cross sectional study. The healthcare professionals include four groups: Ayurveda, Homeopathy, Physiotherapy and Nursing. 50 participants from each group were selected consisting of both males and females. The participants were briefed about the study and informed consent was obtained from them. The questionnaire consisted of 10 questions.

The questions were based on the assessment of oral hygiene practice, knowledge of periodontal diseases and to promote oral hygiene. Both male and female healthcare professionals who were interested to participate in the study were included. Institutional review board approval was obtained from Annoor Dental College and Hospital, Muvattupuzha, Kerala with Ref No: IHEC/08/20.

2. Results

Homeopathy participants were more concerned about their oral health care when compared to other groups of healthcare professionals. About 62% of Ayurveda and Homeopathy participants were able to identify dental patients and refer them for proper dental care when compared to other groups. All the groups have knowledge regarding periodontal diseases.

3. Discussion

The data was tabulated as graphs, based on the responses received.

Fig. 1: How often do you visit the dentist for cleaning your teeth?

The above graphs revealed that most of the healthcare professionals visit dentists once a year and Homeopathy participants visit the dentists more frequently when compared to other groups.

Fig. 2: How many times do you brush your teeth?

Among the homeopathy groups 68% participants brush their teeth twice a day while 58% of nursing, 64% of physiotherapy participants and 78% of Ayurveda participants brush their teeth twice a day.

Fig. 3: How often do you change your tooth brush?

Most of the participants change their brush once in 3 months.
Fig. 4: Do you use dental floss?

More number of Homeopathy participants (78%) use dental floss when compared to other groups. About 50% participants in Ayurveda group are unaware of dental floss.

Fig. 5: Have you ever had patients with dental complaints?

About 88% of Ayurveda participants have encountered patients with dental complaint in their practice. While 82% of physiotherapy participants, 64% of nursing group and 60% of homeopathy participants have encountered patients with dental complaints in their practice.

Fig. 6: If any of your patients is suffering from a sudden toothache, what will you do?

About 92%, 56%, 82% and 92% responses from Homeopathy, Nursing, Physiotherapy and Ayurveda respectively shows that they refer the patients to the dentist. Also some advice analgesics for the sudden toothache.

Fig. 7: Have you ever seen patients with oral lesions or conditions?

In Homeopathy group almost 96% participants came across patients with oral lesions or conditions. In Nursing, 90% participants encountered patients with oral lesions or conditions. But only 68% participants in physiotherapy group came across patients with oral lesions or conditions. Nearly 84% of subjects from Ayurveda group have encountered patients with oral lesions or conditions.

Fig. 8: Do you counsel patients for good oral hygiene?

Most of the healthcare professionals counsel their patients for good oral hygiene.

Fig. 9: What do you think is the commonest cause for loose teeth?

In the above graph 90% from Homeopathy, 84% from Nursing, 88% from Physiotherapy and 84% Ayurveda participants are supporting that the common cause for loose teeth is poor oral hygiene while a minor number of healthcare professionals reported that old age, diabetes and accident/injury can be common cause for loose teeth.
The authors declare they have no conflict of interest.

References


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