A Survey About Awareness Of Oral Hygiene Practices Among The Students Of Professional Colleges In The Pethapur Village

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Abstract: Background and Aim: Oral hygiene is most important factor for prevention of oral diseases. With educated people concept of prevention and well-being could be more easily understood, irrespective of their course of study. So, present study was conducted to assess oral health knowledge, attitude, and behavior in professional college students. Present study was performed with an objective to compare the oral health awareness among the students of dental, nursing and ayurveda and to compare oral hygiene awareness among male and female students. Material and Methods: Survey performa was prepared with help of a self administered structured questionnaire written in English to assess oral health knowledge, attitude and behavior of students. 500 students who voluntarily agreed to participate in the survey were selected.SPSS,Version 20.0 was utilized for statistical analysis. The Chi-square test was performed for comparison of responses obtained from males and females. Results: Oral health awareness was high among the Dental students compared to Nursing and Ayurveda students. Females showed better oral health behavior than male students. Conclusion: There was lack of exposure in ayurveda and nursing students about oral health in their education. Hence, provision for oral health education must be implemented in professional courses. [Parmar M Natl J Integr Res Med, 2019; 10(5):82-85]

Key Words: Knowledge, Oral health education, Oral hygiene, Students

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Introduction: Oral health is equally important in relation to general health. Various factors like nutritional status, tobacco, smoking, alcohol, hygiene, stress, are linked to a wide range of oral diseases forming the fundamental basis of the common risk factor approach (WHO,2000) to prevent the oral diseases. Recently, researchers have found that bidirectional relationship between systemic diseases and periodontal diseases.^{2,3} Oral diseases can be prevent by proper tooth brushing, use of interdental aids, flossing and regular visit to dentist. Dental health is different concept which is affected by individual's socioeconomical status, environment and culture. To maintain oral hygiene is proved to be an effective preventive measure for good oral health as a part of general health. "Public health is the coalition of professions united by their shared mission" (Institute of Medicine Committee for the study of the future public health, Division of Health Care Services, 1988).

The phrase "coalition of professions" stresses that the achievement of better public health requires more than the participation of the various health professions: public health individuals and groups bind together to achieve a common goal. The present study was conducted to assess the oral health knowledge, attitude, behavior, the periodontal status inprofessional college students. This survey was therefore

initiated with a primefocus to determine the oral health awarenesslevels among the Dental, Ayurveda and Nursing students in Pethapur village. Present study was performed with an objective to compare the oral health awareness among the students of dental, nursing and ayurveda and to compare oral hygiene awareness among male and female students.

Materials and Methods: Present cross-sectional study was conducted from September to November 2018 professional among colleges in Pethapur village. Ethical approval was taken from hospital's research ethics committee and written informed consent was taken from the study participants.

<u>Inclusion criteria</u>: Undergraduate students having age of above 17 years.

<u>Exclusion criteria:</u> Postgraduate students.2- Age more than 24 years.

Sampling design: Simple random sampling method was used to select three professional colleges in Pethapur village. From the total number of students pursuing the undergraduate course, 500 students who voluntarily agreed to participate in the survey were selected.

The purpose of the study was informed and explained to the students. Participants were

asked to respond each question according to the given format provided in the questionnaire. The students took an average of 15 minutes to complete the procedure.

Survey performa: The survey performa was prepared with the help of a self administered structured questionnaire written in English to assess the objectives. The performa consisted of 2 parts. The first part includes general information like age, gender, and profession of students. The second partincluded 20questionsin which question number 1-11 were related to the awareness about theoral hygiene, question number12 -16 were related to knowledge aboutperiodontal diseasesand question number 17-20 designed to evaluate the oral health attitude and behavior of the students.

Statistical analysis: The recorded data was compiled and entered in a spreadsheet computer program (Microsoft Excel 2007) and then exported to data editor page of SPSS version 15 (SPSS Inc., Chicago, Illinois, USA). Descriptive statistics included computation of percentages, means and standard deviations. For all tests, confidence level and level of significance were set at 95% and 5% respectively. The Chi-square test was performed for comparison of responsesobtained from males and females. The level of statistical significance was set at P < 0.05.

Results: Out of 500 participants, 369 (73.8%)were male, 131 (26.2%) were female students and 340 (68.0%) were Dental, 124 (24.8%) were Ayurveda36 (7.2%) were Nursing students.

Brushing is important step for maintenance of oral hygiene and prevention of oral disease. This study result shows 210 (71.7%) Dental, 69 (23.5%) Ayurved and 14 (4.8%) Nursing students were having twice day brushing frequency.(Table-1).This result show more awareness in dental compared to other students.206 (73.6%) Dental, 61 Ayurveda and 13 (4.6%) Nursing students were having frequency of changing toothbrush in 3 months. Table -1 result showed that Dental students had more knowledge about oral hygiene awareness in compared to ayurveda and nursing students. Mean oral health awareness score was high among dental (9.45 ± 1.82) followed by Ayurveda(8.97 ± 1.65) and Nursing students (8.22

± 1.67). Statistically, significant difference was present in awareness among various professions.

Table 1: Percentage of students of dental, ayurveda, nursing having a knowledge about oral hygiene awareness

oral hygiene awareness					
Questions	Dental	Ayurveda	Nursing	Total	
Brushing	340	123	36	499	
teeth daily	(68.1%)	(24.6%)	(7.2%)	(100%)	
Frequency	210	69	14	293	
of brushing	(71.7%)	(23.5%)	(4.8%)	(100%)	
twice daily					
Frequency	206	61	13	280	
of changing	(73.6%)	(21.8%)	(4.6%)	(100%)	
toothbrush					
in 3months					
Knowledge	70	20	16	106	
absout	(66%)	(18.9%)	(15.1%)	(100%)	
dental					
floss					
Knowledge	156	49	14	219	
about	(71.2%)	(22.4%)	(6.4%)	(100%)	
mouthwash					
Clean your	319	120	36	475	
tongue	(67.2%)	(25.3%)	(7.8%)	(100%)	
Dental visit	180	45	11	236	
for oral	(76.3%)	(19.1%)	(4.7%)	(100%)	
hygiene					
Frequency	180(77.	43	9	232	
of visiting	5%)	(18.6%)	(3.8%)	(100%)	
a dentist in					
one year					

In comparison of awareness about periodontal diseases 57 (55.3%) Dental, 36 (35%) Ayurveda and 10 (9.7%) Nursing students were having bleeding gum that show Dental student have a more awareness compared to Ayurveda and Nursing students. 4 (50%) Dental, 3 (37.5%) Ayurveda and 1 (12.5%) Nursing students were having bad breath.3 (75%) Dental, 1 (25%) Ayurveda and 0 (0%) Nursing students were taken treatment for bad breath.Mean awareness about periodontal was high among Dental(2.85 ± 0.55) followed by Nursing(2.67 ± 0.67) and Ayurveda students (2.61 ± 0.64). (Table-2)

Table 2: Percentage of students having awareness about periodontal diseases

Questions	Dental	Ayurveda	Nursing	Total
Students	4	3	1	8
having a	(50%)	(37.5%)	(12.5%)	(100%)
bad breath				
Students	3	1	0	4
taken any	(75%)	(25%)	(0%)	(100%)

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treatment				
for bad				
breath				
Bad breath	46	10	7	63
affecting	(73%)	(15.9%)	(11.1%)	(100%)
social life				
Students	57	36	10	103
having a	(55.3%)	(35%)	(9.7%)	(100%)
bleeding				
gum				
Students	302(69.	104	28	434
having	6%)	(24%)	(6.5%)	(100%)
knowledge				
about				
effect of				
poor oral				
hygiene on				
general				
health				

Mean awareness about periodontal disease was high among female (2.81 \pm 0.59) than male students (2.69 \pm 0.57). Details are shown in table 4 and 5.

Table 4: Percentage of male and female student having a awareness about oral hygiene.

maving a awareness about oral myglene.					
Questions	Female	Male	Total		
Brushing teeth	368	131	499		
daily	(73.7%)	(26.3%)	(100%)		
Frequency of	219	74	293		
brushing twice	(74.7%)	(25.3%)	(100%)		
daily					
Frequency of	208	72	280		
changing	(74.3%)	(25.7%)	(100%)		
toothbrush in					
3months					
Knowledge	91	15	106		
about dental	(85.8%)	(14.2%)	(100%)		
floss					
Knowledge	172	47	219		
about	(78.5%)	(21.5%)	(100%)		
mouthwash					
Clean your	349	126	475		
tongue	(73.5%)	(26.5%)	(100%)		
Dental visit for	170	66	236		
oral hygiene	(72%)	(28%)	(100%)		
maintenance					
Frequency of	171	61	232		
visiting a dentist	(73.7%)	(26.3%)	(100%)		
in one year					

Table 5: Awareness among gender

Score	Female		Male	Total	
Mean	8.43	±	7.97	8.31	±

score	1.89	±1.39	1.76	
P ≤ 0.05 S				

Discussion: Oral hygiene is mostly neglected by people because most of people are oblivious about the relationship between oral hygiene and diseases effect on systemic cardiovascular disease, diabetes. Oral health knowledge is considered to be an essential for health related behavior. In this survey we studied the status of awareness in that section of society which is considered to have a better knowledge and awareness than general population. As was expected, in this present study the dental students had the highest knowledge, attitude and behavior scores because it is an important content in their professional education, and they need this knowledge to educate patients and community when they start working in health care system.

There is a positive link between dental education experiences, oral health attitudes, behavior, and improvement of personal oral health of dental students. ⁴The present study shows 71.7% dental students brushed twice daily, which accordance with study of Neerajaet al. in 2011,5 and Rahman and Kawas in 2013.6The present study reported that the 75% females showed better oral health behavior than 25.3% male students regarding brushing twice daily which is in accordance with the studies of Rahman and Kawas 2013.⁶ and Polychronoponulou al.(2002)⁷,Fukai et al., 1995⁸, Ostberg et al., 1999.9 In the present study, response to the awareness to the bleeding gums have been seen more in dental students as compared to ayurveda and nursing students (55.3% of dental students as compared with 35% ayurveda and 9.7% nursing students). The findings were found to be similar to that of study done by Laxman Singh et al. 10

Conclusion: The present study shows that lack of oral health awareness and there is need to educate and spread of knowledge of proper dental care and dental diseases through dentists. Dental education start early stage in life, be delivered by trained personnel and also included in general health.

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