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Original Article

KNOWLEDGE ATTITUDE AND PRACTICE REGARDING TOBACCO CESSATION METHODS AMONG THE DENTAL PROFESSIONALS – A CROSS-SECTIONAL STUDY.

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ABSTRACT

INTRODUCTION: In India, the proportion of all deaths that can be attributed to tobacco use is expected to rise from 1.4% in 1990 to 13.3% in 2020. In this regard, health care professionals have a key role to play by working through the health care system to motivate and advise users to quit. AIM AND OBJECTIVES: The aim of the present study is to assess the dental students attitude and practice towards tobacco cessation programmes in the dental setting and to explore the influence of knowledge in its promotion. MATERIALS AND METHODOLOGY: This cross sectional survey was carried out at the college of dental sciences in davangere among the dental professionals i.e. final year, interns, post graduates students. A questionnaire was designed to test the knowledge, attitude and practice of dental surgeons regarding tobacco use. The self-administered survey included a set of questions .The data were analyzed using the SPSS 22. The chi-squared test was used to test associations between the responses among the age, qualification, and academic year. A critical p-value of 0.05 was regarded as significant. RESULTS: A total of 300 questionnaires were distributed, with a response rate of 96.39%. Out of the 250 participants, 54% were females and 46 % were males. About 68% students were in the age group between 20 to 23 years. About 32.4% were pursuing MDS and 67.6% pursuing BDS in the present study. Almost 50% preferred to recommend NRT as a tobacco cessation advise to the patients, 48% with self quitting practice and 1.2% with pharmacological methods.

DISCUSSION: More than half of the respondents had an average level of knowledge on smoking cessation interventions while a majority had a positive attitude towards the provision of smoking cessation interventions. Hence it's a need of hour to influence the students for generating interest in attaining knowledge about tobacco cessation methods.

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Introduction

Tobacco use remains one of the leading causes of preventable illness, disability, and premature death in the world. It kills nearly 6 million people each year worldwide India's tobacco problem is very complex, with a large use of a variety of smoking forms and an array of smokeless tobacco products. Many of these products are manufactured as cottage and small-scale industries using varying mixtures and widely differing processes of manufacturing.¹

The use of tobacco products, especially cigarettes, represents the leading cause of preventable illness and death in the developed world. In addition to being associated with a number of cancer and coronary conditions, tobacco always plays a role in the etiology of a number of serious oral conditions; it is a primary risk factor for oral cancer, as well as leukoplakia, periodontitis and delayed wound healing. In such situations Health care providers can play a vital role in helping their patients attempt and realize tobacco cessation. The 2000 Public Health Service clinical practice guideline indicates that "brief physician advice significantly increases long-term smoking abstinence rates." However, according to the guideline, intensive interventions are always more effective than less intensive interventions and should be used whenever possible. "programmes and providers being paid to help smokers quit."

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In recent years the *Journal of the Canadian Dental Association* has placed a high priority on disseminating information on the relationship between tobacco use and oral disease, and reiterating the obligations of the dental profession to promote smoking cessation.

Healthcare programmes, services, and practitioners in the USA and many other western countries are being held increasingly accountable for quality, safety, and cost effectiveness. 6

Evidence based guidelines for smoking cessation treatment exist, and recommended interventions are extremely cost effective. But there is little effort to ensure compliance with guidelines among

In India, the proportion of all deaths that can be attributed to tobacco use is expected to rise from 1.4% in 1990 to 13.3% in 2020 (Reddy and Gupta, 2004). In this regard, health care professionals have a key role to play by working through the health care system to motivate and advise users to quit. Since physicians are well regarded and their advice well-accepted, they also form the most likely persons from whom advice on quitting would be taken seriously and accepted by users.

Therefore, physicians can and should utilize the window of opportunity available during their contact with patients to offer tobacco cessation interventions actively in their routine clinical practice (Richmond et al., 1999). This becomes even more imperative in the case of professional group that is most actively consulted by tobacco using patients in India -the dental surgeons. Yet, one is not sure of the attitudes of such professionals towards tobacco cessation, which is important since negative attitudes may result in them less likely to counsel patients regarding the hazards of tobacco use (Tessier et al., 1995).

Dental treatment that often necessitates multiple visits provides the mechanisms for initiation, reinforcement, and support of tobacco cessation activities. Cessation advice can also be associated with readily visible changes in oral status. Cessation rate of 8.6% after one year of counselling alone has been reported, and when combined with prescription of (NRT) Nicotine Replacement Therapies, the quit rate increased. The awareness among the dentist regarding NRT is a prerequisite to build their confidence in their counselling skills. The reasons for not providing it include time and reimbursement issues, poor education and lack of further postgraduate training and poor co-ordination of dental and smoking cessation services. ¹²

The aim of the present study is to assess the dental students attitude towards tobacco cessation measures in the dental setting and to explore the influence of knowledge, belief in effectiveness, gender and curriculum of cessation programmes.

This study provides evidence that clinical dental undergraduates are willing to give smoking cessation advice to their patients but perceive barriers in giving such advice. We therefore attempted to carry out a survey on the knowledge, attitude and practices of dental surgeons regarding to bacco use.

Materials and methodology

This cross sectional survey was carried out at the college of dental sciences in davangere among the undergraduates i.e. final year, interns, post graduates students.

A questionnaire was designed to test the knowledge, attitude and practice of dental surgeons regarding tobacco use and then piloted to test for comprehensibility. Appropriate changes were made to grammar, layout and style. The self-administered survey instrument included 18 questions covering topics such as: 1) Personal data; 2) Knowledge of the hazards of smoking and attitude towards tobacco control policies; 3) Any smoking cessation interventions provided to patients; and 4)Whether or not dental surgeons received any training in smoking cessation methods.

All questionnaires were checked for completion and incomplete questionnaires were discarded. The data were analyzed using the Statistical Package for Social Sciences 22.

All clinical and postgraduate students of a dental college in Davangere, who were present on the day of distribution of questionnaire, were included in the study. Questionnaire was administered to a sample of 15 students attending public health dentistry clinical posting who were interviewed to gain feedback on the overall acceptability, validity, and reliability of the questionnaire in terms of length, language clarity, time, and feasibility of students completing and returning it. Based on the opinions expressed, a chronsbach alpha value of 0.85 was found. After obtaining the consent from each participant, the questionnaire was self-administered by single investigator. Each one was asked to fill the

provided questionnaire in front of the investigator with adequate time to avoid any malpractice while answering. Confidentiality was maintained throughout the process. Incomplete response sheets were excluded from data capturing and analysis.

The answer keys for the core questions on knowledge of nicotine replacement treatment were generated using the guidelines of tobacco cessation measures which have been written in parallel with guidance on the cost effectiveness of smoking cessation interventions, produced by the Centre for Health Economics at the University of York. ¹³

Materials and methodology

The data from 250 clinical dental students so obtained were entered in Excel sheet, and descriptive and inferential statistical analysis was made. Statistical Package for Social Sciences software version 22 was used for data analysis. The chi-squared test was used to test associations between the responses among the age, qualification, and academic year. A critical p-value of 0.05 was regarded as significant.

RESULTS

A total of 300 questionnaires were distributed, out of 260 were returned, with a response rate of 96.39%. Out of the 250 participants, 54% were females and 46 % were males (Graph 1). About 68% students were in the age group between 20 to 23 years (Graph 2). The sample consisted of Three groups according to the different academic levels: IV year Bachelor of Dental Surgery (BDS; 28.4%), interns (39.2%), and postgraduates (32.4%) (Graph 3). About 32.4% of the students were pursuing Master of Dental Surgery (MDS) and majority (67.6%) were pursuing BDS in the present study (Graph 4).

Graph 3:percentage distribution of students based on their academic level graph4 :percentage distribution of students based on their qualification

Knowledge of treatment modalities

About 11.2% of the respondents were aware about the usage of NRTs, only 26% of the students knew that nicotine nasal spray is absorbed faster. 49.6% were unaware of nicotine patches and about 49.2% were unaware of nicotine gums. Only 42% were aware of acute lethal dose of nicotine. Only 94% of the students had knowledge about tobacco cessation education programmes but the majority were unaware of the available pharmaceutical methods and dosage for tobacco cessation. (Graph 5)

Attitudes of dental surgeons regarding Tobacco cessation

Almost 53.2% keep a record of patients with habits and about 79.2% believe that nicotine replacement therapy can double the chance of quitting the habit of smoking. Yet there is hesitation towards recommending NRTs for smoking cessation to patients is due to lack of knowledge about its uses and side effects. Nearly all (88%) believed that there should be strict legislation against public use of tobacco, that media and were highly influential in promoting tobacco and that the warning labels on tobacco products should be increased. The majority of 41.2% also supported ban on public use of tobacco is an effective method of tobacco control. Due to the unawareness of such smoking cessation methods among the clinicians, almost 97.6% believed that Smoking Cessation Education should be a part of the core curriculum of the basic training of all health professionals. (graph 6)

Practice of dental surgeons regarding to bacco users among their patients

97.2 come across the patients with tobacco use. About 94.8% advocated tobacco cessation practices actively. With regard to details on follow up and records, only 46.8% did not followed up on their patients using tobacco nor maintained records. However, almost 50% preferred to recommend NRT as a tobacco cessation advise to the patients,48% with self quitting practice and 1.2% with pharmacological methods. Hence, there is a felt need to be aware of all the methods to provide a better treatment for the people with a thought of quitting their habit.

Response rate of the questions and significance associated age, qualification and academic level.

Questions		response	n	%	p-value
1. Do you c	ome across	A) Yes	243	97.2	0.25
patients	with	B) No	7	2.8	
tobacco l	nabits.				
2. Are you	aware Of	A) Yes	235	94.0	0.589
tobacco (cessation	B) No	15	0.6	
educatio	n				
program	me?				
3. Do you p	rovide	A) Yes	237	94.8	0.553
patient v	vith tobacco	B) No	13	5.2	
cessation	advise.				
4. Which to	bacco	A)Nicotine replacement	125	50	0.225
cessation	n method do	therapies			
you prefe	er to	B)Self quitting method	122	48	
recomme	end.	C)pharmacological methods	3	1.2	
5. Do you fo	ollow up or	A) Yes	133	53.2	0.963
keep a re	cord of	B) No	117	46.8	
these par	tients.				
6. Can Nico	tine	A) Yes	198	79.2	0.482
Replacer	nent	B) No	52	20.8	

A) Yes B) No 161 67.4	Therapies (NRTs)				
TÂ Do you have adequate knowledge about NRTs. A) Yes 89 35.6 0.318 8Å Nicotine Replacement Therapy (NRT) is designed to use for, D) 16 Weeks 46 18.4 0.001 9Å Which product is absorbed faster? A) Nicotine SkinPatch G) Nicotine SkinPatch B) Nicotine Gum G) Nicotine Rasal Spray G6 26.0 0.229 10ÅHow much dose of nicotine gum should be advised to a heavy smoker? B) 6mg S8 23.2 8.0 0.006 11ÅNicotine skin patch should be worn for, D) Don't know A)24-48Hours G2 A4.8 19 7.6 0.000 12ÅNicotine patch and inhaler are not recommended upto which age group? A) A) 19 7.6 0.009 13ÅAcute Lethal dose of nicotine is, A) A) 109 24.0 0.093 13ÅAcute Lethal dose of nicotine is, A) A) 27 10.8 0.093 13.6Acute Lethal dose of nicotine is, B) 40-60mg C) 105 42.0 42.0 0.093 108 A) A) 27 10.8 0.093 108 A) A) 40-60mg C) 65 26.0	double the chance of				
Semoking?	success in quitting				
7Å Do you have adequate knowledge about NRTs. A) Yes 89 35.6 0.318 8.Å Nicotine Replacement Replacement Therapy (NRT) is designed to use for, A) 12Weeks 28 11.2 9.Å Which product is absorbed faster? A) Nicotine SkinPatch B) Nicotine Gum C) Nicotine Nasal Spray B) Don't know 60 24.0 0.229 10.ÅHow much dose of nicotine gum should be advised to a heavy smoker? A) A) Home Shin Patch B) Home Shin Patch B) Don't know 28 8.0 0.006 11.ÅNicotine skin patch should be worn for, C) 8-10 Hours D) Don't know 123 49.2 0.000 12.ÅNicotine patch and inhaler are not recommended upto which age group? A) 24-48Hours Span Should S	the habit of				
adequate knowledge about NRTs.	smoking?				
adequate knowledge about NRTs.					
B.Å Nicotine	7. Do you have	A) Yes	89	35.6	0.318
B.Å Nicotine	adequate knowledge	B) No	161	67.4	
Replacement B 4 Weeks 28	about NRTs.				
Replacement B 4 Weeks 28					
Therapy (NRT) is designed to use for, D) 16 Weeks 135 54.0 16.4		_			0.001
designed to use for, D 16 Weeks 41 16.4 9.Å Which product is absorbed faster? B Nicotine Gum					
9.Å Which product is absorbed faster? B) Nicotine Gum C) Nicotine Nasal Spray 66 26.0 D) Don't know 83 33.0 10.ÂHow much dose of nicotine gum should be advised to a heavy smoker? D) Don't know 11.ÂNicotine skin patch should be worn for, D) Don't know 12. Nicotine patch and inhaler are not recommended upto which age group? D) Don't know 12.ÂAcute Lethal dose of nicotine is, B) 40-60mg C)80-100mg C)80-1					
absorbed faster? B) Nicotine Gum C) Nicotine Nasal Spray 66 26.0 D) Don't know 83 33.0 10.ÂHow much dose of nicotine gum should be advised to a heavy smoker? D) Don't know 123 49.2 A)24-48Hours D) Don't know 123 49.2 A)24-48Hours B) 16- 24 Hours 62 24.8 should be worn for, C)8-10Hours D) Don't know 124 49.6 12.ÂNicotine patch and inhaler are not recommended upto which age group? D) Don't know D) D	designed to use for,	D) 16 Weeks	41	16.4	
absorbed faster? B) Nicotine Gum C) Nicotine Nasal Spray 66 26.0 D) Don't know 83 33.0 10.ÂHow much dose of nicotine gum should be advised to a heavy smoker? D) Don't know 123 49.2 A)24-48Hours B) 16- 24 Hours 62 C)8-10Hours A) C)8-10Hours B) <124 49.6 12.ÂNicotine patch and inhaler are not recommended upto which age group? D) Don't know D) Don't					
absorbed faster? B) Nicotine Gum C) Nicotine Nasal Spray B) Don't know B) 33 B) 66 B) 33.0 10.ÂHow much dose of nicotine gum should be advised to a heavy smoker? D) Don't know B) 6mg	9. Which product is	A)NicotineSkinPatch	60	24.0	0.229
C) Nicotine Nasal Spray D) Don't know 10.ÂHow much dose of nicotine gum should be advised to a heavy smoker? D) Don't know A)24-48Hours D) Don't know 11.ÂNicotine skin patch should be worn for, D) Don't know 123 A)24-48Hours B) 16- 24 Hours C)8-10Hours D) Don't know 124 49.6 12.ÂNicotine patch and inhaler are not recommended upto which age group? A)20-30mg B) 40-60mg C)80-100mg C)80-1	_				0.227
D) Don't know 83 33.0	absorbed faster .				
10.ÂHow much dose of nicotine gum should be advised to a heavy smoker? D) Don't know 123 49.2 19.6 19.6 19.6 19.6 19.6 19.6 19.6 19.6 19.6 19.6 19.6 19					
nicotine gum should be advised to a be advised to a heavy smoker? C)8mg 49 19.6 heavy smoker? D) Don't know 123 49.2 11.ÂNicotine skin patch should be worn for, should be worn for, and inhaler are not recommended upto which age group? A) 18Years 51 24.8 8.0 12.ÂNicotine patch and inhaler are not recommended upto which age group? A) 54 21.6 21.6 13.ÂAcute Lethal dose of nicotine is, A) A) 27 10.8 0.093 13.ÂAcute Lethal dose of nicotine is, B) 40-60mg 105 42.0 26.0		b) boil t know		33.0	
be advised to a heavy smoker? D) Don't know 123 49.2 A)24-48Hours B) 16- 24 Hours Should be worn for, C)8-10Hours D) Don't know 124 49.6 12.ÂNicotine patch and inhaler are not recommended upto which age group? D) Don't know 13.ÂAcute Lethal dose of nicotine is, B) 40-60mg C)8-100mg C)8-100mg C)8-100mg C)8-100mg C)8-100mg A) 49.6 19.6 49.2 19.6 19.6 49.2 24.8 8.0 124 49.6 20.4 49.6 20.4 49.6 10.0009 10.8 10.8 10.993	10.ÂHow much dose of	A)4mg	28	8.0	0.006
heavy smoker? D) Don't know 123 49.2 A)24-48Hours B) 16- 24 Hours 62 24.8 should be worn for, C)8-10Hours D) Don't know 124 49.6 12.ÂNicotine patch and inhaler are not recommended upto which age group? D) Don't know 124 13.ÂAcute Lethal dose of nicotine is, B) 40-60mg C)80-100mg 65 26.0 10.000 7.6 0.000 24.8 8.0 49.6 24.8 8.0 49.6 24.8 8.0 49.6 24.8 8.0 49.6 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10	nicotine gum should	B) 6mg	58	23.2	
A)24-48Hours 19 7.6 0.000 11.ÂNicotine skin patch should be worn for, C)8-10Hours 45 8.0 D) Don't know 124 49.6 12.ÂNicotine patch and inhaler are not recommended upto which age group? D) Don't know 103 41.2 13.ÂAcute Lethal dose of nicotine is, B) 40-60mg C)80-100mg 65 26.0	be advised to a	C)8mg	49	19.6	
11.ÂNicotine skin patch should be worn for, should be worn for, should be worn for, color and should be worn for, by the should be worn for, color and should be worn for, color and colo	heavy smoker?	D) Don't know	123	49.2	
11.ÂNicotine skin patch should be worn for, should be worn for, should be worn for, color and should be worn for, by the should be worn for, color and should be worn for, color and colo					
should be worn for, C)8-10Hours 45 8.0 D) Don't know 124 49.6 12.ÂNicotine patch and inhaler are not A)<18Years		A)24-48Hours	19	7.6	0.000
D) Don't know 124 49.6	11.ÂNicotine skin patch	B) 16- 24 Hours	62	24.8	
12.ÂNicotine patch and inhaler are not recommended upto which age group? A)<18Years	should be worn for,	C)8-10Hours	45	8.0	
inhaler are not recommended upto C)<15Years 42 16.8 which age group? D) Don't know 103 41.2 13.ÂAcute Lethal dose of nicotine is, B) 40-60mg C)80-100mg 65 26.0		D) Don't know	124	49.6	
inhaler are not recommended upto C)<15Years 42 16.8 which age group? D) Don't know 103 41.2 13.ÂAcute Lethal dose of nicotine is, B) 40-60mg C)80-100mg 65 26.0 21.6 21.6 21.6 21.6 21.6 21.6 21.6 21.6					
recommended upto C)<15Years 42 16.8 which age group? D) Don't know 103 41.2 13.ÂAcute Lethal dose of nicotine is, B) 40-60mg 105 42.0 C)80-100mg 65 26.0		A)<18Years		20.4	0.009
which age group? D) Don't know 103 41.2 13.ÂAcute Lethal dose of nicotine is, A)20-30mg 27 10.8 0.093 105 42.0 42.0 42.0 42.0 42.0 65 26.0	inhaler are not		54	21.6	
13.ÂAcute Lethal dose of nicotine is, B) 40-60mg C)80-100mg B		-	42		
nicotine is, B) 40-60mg 105 42.0 C)80-100mg 65 26.0	which age group?	D) Don't know	103	41.2	
nicotine is, B) 40-60mg 105 42.0 C)80-100mg 65 26.0					
C)80-100mg 65 26.0					0.093
	nicotine is,	, ,			
D) 30-50mg 53 21.2		_			
		D) 30-50mg	53	21.2	

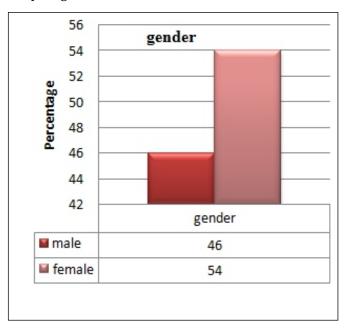
14.ÂNRTs have the	A)0-5mmhg	28	11.2	0.000
potential to increase	B) 5-10mmhg	60	24	
the blood pressure	C)10-15mmhg	52	20.8	
by,	D) Don't know	110	44.0	
3,,	b) bon c mion		1110	
15.ÂHesitation towards	A)Lack of knowledge about	193	77.2	0.211
recommending	NRTs			
NRTs for smoking	B) NRTs are not helpful to	20	8.0	
cessation to patients	quit smoking	21	0.0	
is due to,	C) NRTs have hazardous side		8.4	
is due to,	effects	16	6.4	
			0.4	
	D) all of the above			
16.ÂWould you	A)YES	220	88.0	0.147
recommend a strict	B)NO	30	12.0	
legislation on				
tobacco use in the				
public?				
17.ÂIf Yes,	A)If no	28	11.2	0.043
	B) Ban on public use of	103	41.2	
	tobacco			
		4	1.6	
	C) Increase price of tobacco			
		1		
	i products	4	1.6	
•	products D) Increase the size of	4	1.6	
	D) Increase the size of	4	1.6	
	D) Increase the size of warning labels on the tobacco			
	D) Increase the size of	111	1.6	
	D) Increase the size of warning labels on the tobacco products			
18 Å Should Smoking	D) Increase the size of warning labels on the tobacco products E) All of the above	111	44.4	0.044
18.ÂShould Smoking	D) Increase the size of warning labels on the tobacco products E) All of the above A)Yes	244	97.6	0.044
Cessation Education	D) Increase the size of warning labels on the tobacco products E) All of the above	111	44.4	0.044
Cessation Education be a part of the core	D) Increase the size of warning labels on the tobacco products E) All of the above A)Yes	244	97.6	0.044
Cessation Education be a part of the core curriculum of the	D) Increase the size of warning labels on the tobacco products E) All of the above A)Yes	244	97.6	0.044
Cessation Education be a part of the core curriculum of the basic training of all	D) Increase the size of warning labels on the tobacco products E) All of the above A)Yes	244	97.6	0.044
Cessation Education be a part of the core curriculum of the basic training of all health	D) Increase the size of warning labels on the tobacco products E) All of the above A)Yes	244	97.6	0.044
Cessation Education be a part of the core curriculum of the basic training of all	D) Increase the size of warning labels on the tobacco products E) All of the above A)Yes	244	97.6	0.044

Table 1 : p≤0.05 significant, p≤0.01highly significant

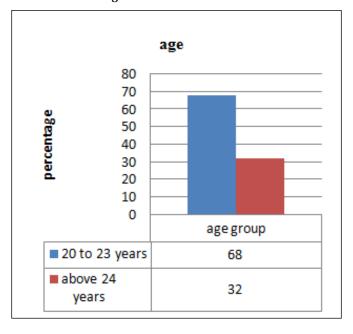
Questions	response	n	%	p-value
19.ÂDo you come across patients with	A) Yes	243	97.2	0.25
tobacco habits.	B) No	7	2.8	0.20
tobacco napris.	<i>B</i>) No	'	2.0	
20.ÂAre you aware Of tobacco cessation	A) Yes	235	94.0	0.589
education programme?	B) No	15	0.6	
21.ÂDo you provide patient with tobacco	A) Yes	237	94.8	0.553
cessation advise.	B) No	13	5.2	0.000
cessation advise.	B) No		3.2	
22.ÂWhich tobacco cessation method do you	A)Nicotine replacement	125	50	0.225
prefer to recommend.	therapies			
	B)Self quitting method	122	48	
	C)pharmacological methods	3	1.2	
23.ÂDo you follow up or keep a record of	A) Yes	133	53.2	0.963
these patients.	B) No	117	46.8	
•				
24.ÂCan Nicotine Replacement Therapies	A) Yes	198	79.2	0.482
(NRTs) double the chance of success in	B) No	52	20.8	
quitting the habit of smoking?				
25.ÂDo you have adequate knowledge about	A) Yes	89	35.6	0.318
NRTs.	B) No	161	67.4	3.510
141(13)	<i>B</i>) No	101	07.1	
26.ÂNicotine Replacement Therapy (NRT) is	A)12Weeks	46	18.4	0.001
designed to use for,	B) 4 Weeks	28	11.2	
	C)Don'tknow	135	54.0	
	D) 16 Weeks	41	16.4	
		- 10		
27.ÂWhich product is absorbed faster?	A)NicotineSkinPatch	60	24.0	0.229
	B) Nicotine Gum	41	16.0	
	C) Nicotine Nasal Spray	66	26.0	
	D) Don't know	83	33.0	
28.ÂHow much dose of nicotine gum should	A)4mg	28	8.0	0.006
be advised to a heavy smoker?	B) 6mg	58	23.2	-
· ······	C)8mg	49	19.6	
	D) Don't know	123	49.2	
	,			
	A)24-48Hours	19	7.6	0.000
29.ÂNicotine skin patch should be worn for,	B) 16- 24 Hours	62	24.8	
	C)8-10Hours	45	8.0	
	D) Don't know	124	49.6	
30.ÂNicotine patch and inhaler are not	A)<18Years	51	20.4	0.009
recommended upto which age group?	B) <10 Years	54	21.6	0.007
recommended upto winem age group:	C)<15Years	42	16.8	
	D) Don't know	103	41.2	
	, =			
31.ÂAcute Lethal dose of nicotine is,	A)20-30mg	27	10.8	0.093
	B) 40-60mg	105	42.0	
	C)80-100mg	65	26.0	
	D) 30-50mg	53	21.2	
32.ÂNRTs have the potential to increase the	A)0-5mmhg	28	11.2	0.000
blood pressure by,	B) 5-10mmhg	60	24	
Stood probate by,	C)10-15mmhg	52	20.8	
	D) Don't know	110	44.0	
	D) Don t Know	110	17.0	l .

A)Lack of knowledge about NRTs	193	77.2	0.211
B) NRTs are not helpful to	20	8.0	
C) NRTs have hazardous side		8.4	
effects D) all of the above	16	6.4	
A)YES	220	88.0	0.147
B)NO	30	12.0	
A)If no	28	11.2	0.043
B) Ban on public use of	103	41.2	
tobacco	4	1.6	
C) Increase price of tobacco products	4	1.6	
D) Increase the size of warning labels on the tobacco products	111	44.4	
E) All of the above			
A)Yes	244	97.6	0.044
B) No	6	2.4	
	NRTs B) NRTs are not helpful to quit smoking C) NRTs have hazardous side effects D) all of the above A)YES B)NO A)If no B) Ban on public use of tobacco C) Increase price of tobacco products D) Increase the size of warning labels on the tobacco products E) All of the above	NRTs B) NRTs are not helpful to quit smoking C) NRTs have hazardous side effects D) all of the above A)YES B)NO A)If no 28 B) Ban on public use of tobacco 4 C) Increase price of tobacco products D) Increase the size of warning labels on the tobacco products E) All of the above A)Yes 244	NRTs B) NRTs are not helpful to quit smoking C) NRTs have hazardous side effects D) all of the above A)YES B)NO A)If no B) Ban on public use of tobacco tobacco C) Increase price of tobacco products D) Increase the size of warning labels on the tobacco products E) All of the above A)Yes San Board All San

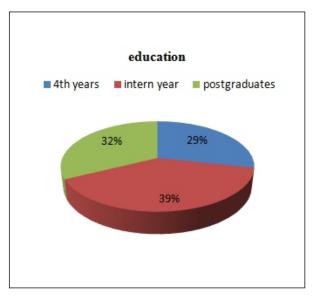
Graph 1: gender distribution



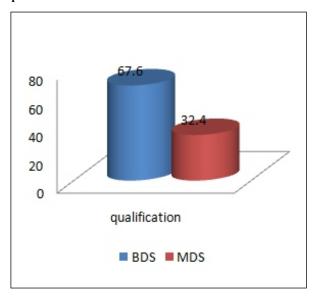
Graph 2: percentage distribution of students based on their age



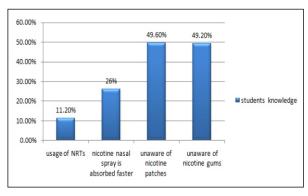
Graph 3:percentage distribution of students based on their academic level



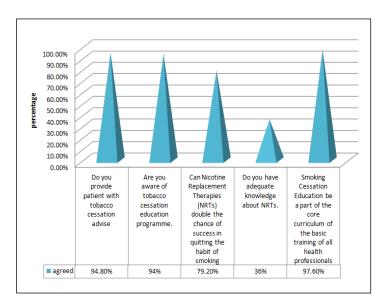
Graph4: percentage distribution of students based on their qualification



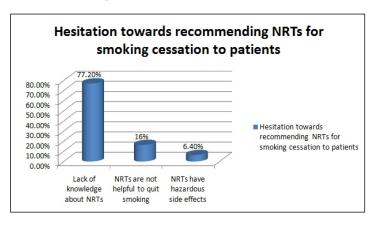
Graph 5: percentage distribution of students knowledge about tobacco cessation methods



Graph 6: percentage distribution of students attitude towards tobacco cessation measures



Graph 7: percentage distribution of students hesitation towards recommendating NRT.



There was a significant association seen in response to the smoking cessation education programme to be a part of the core curriculum. Only 8% of the students believed that 4mg of nicotine gum should be given to a heavy smoker and there was a significant association seen. 11.2% aware that about nicotine replacement therapies can be used for 4 weeks and 24.8% knew that nicotine skin patch could be used for 16 to 24 hours, as well as there was a highly significant association seen in respect to age, qualification and academic level.(table1)

Discussion

The Dental office provides an excellent setting for providing tobacco cessation intervention services. Dental patients are particularly more aware, quick to understand health messages during every dental visits, & oral effects of tobacco use which ultimately provide strong motivation for tobacco users to quit. Hence every dentist should always be ready and prepared to intervene patients who visit their dental office. There are 5 major steps (the "5 As") to intervention in the primary care setting. It is important for the Dental care

provider to "Ask" the patient if he or she uses tobacco, "Advice" him or her to quit, "Assess" willingness to make a quit attempt, "Assist" the patient in making a quit attempt and "Arrange" for follow-up contacts to prevent relapse. 14

An earlier survey on counselling among dental surgeons had felt that giving advice or information about tobacco cessation was the responsibility of the dentist in order to persuade patients to quit tobacco and majority were also willing to receive formal training towards tobacco cessation and intervention strategies (Ajwani et al., 2001). Our survey however found that only half of them actually enquire about the tobacco use of their clients. Data from around the world suggests that upto half of all dental surgeons advise their patients and suggest methods to quit tobacco (Dolan et al., 1997; John et al., 1997; Warnakulasuriya et al., 1999; Campbell et al., 2001). 15

Similarly, in line with other studies, only 53.2% respondents in our study maintained records or advocated tobacco cessation practices among their clients similar to Severson et al., 1990; Hastreiter et al., 1994; Tomar et al., 1996.

In the present study Doctors were aware of behavioral methods of tobacco cessation and only about 35.6% aware of different forms of Nicotine Replacement therapy. With regard to medications, only a 1.2% was aware of pharmacotherapy, reflecting the urgent need to sensitize health professionals on the different modalities of tobacco cessation similar to Murthy et al., $2010.^{17}$ It would certainly benefit patients by improving cessation rates among them. Almost 16% of them think that nicotine replacement therapy are not helpful in quitting smoking along with 6.40% believe in the adverse effects of using nicotine gums contradictory to omolara guti et al study.(graph 7)

The low mean score observed for 'belief in effectiveness' indicates that respondents have low confidence in the fact that tobacco counselling offered in the dental office can have an impact on patients' quitting. This rather low perception of effectiveness follows the general trend reported in few literature . These responses suggest that many students may still be sceptical about the extent to which tobacco cessation counselling is effective in helping patients to quit. Moreover, more than 80 percent of the respondents felt their time could be better utilized on other things.

94.8% advise patients with tobacco cessation activities similar to omolara g.uti et al. The results of this study indicate that many dental students participating in the survey did not have prior training in tobacco control and many did not provide advice about nicotine replacement therapy. In addition, patient expectations do not create a demand for these services

The inclusion of smoking cessation training in the dental curriculum also becomes paramount if smoking cessation behaviour in dental practice is to be improved and almost 250 (97.2%) respondents also felt that tobacco cessation training is an important part of Dental curriculum similar to karbhari salman et al study.

Ehizele et al. reported lack of training as a barrier to providing cessation services among dental students. The results of our study are similar and indicate a lack of training opportunities in smoking cessation and prevention as a barrier to providing cessation services. Inclusion of cessation in the dental school curriculum and availability of continuing education in tobacco intervention are very important and should be encouraged among oral health care practitioners to enable them have up-to-date information and equip them to play their role effectively in the overall smoking cessation and prevention drive. There is, therefore, a need to provide such training as the respondents are willing to undergo it. The training will need to be didactic, practical, and relevant within the context of the dentist's day-to-day running of the practice.

Conclusion

The students from our study demanded the establishment of a Tobacco documentation centre by institutions, so that they get proper training about the cessation techniques. Researchers have posed the need for implementing professional training for medical and dental students in tobacco-cessation counselling techniques.

It also suggested that a positive attitude towards smoking cessation among professionals, does not always lead to good practice. This may be due to certain barriers faced while implementing the available knowledge and translating the positive attitude towards actual practice in the clinical scenario. Further studies includes multiple institutes will provide more insight on organizational practice of tobacco cessation interventions in India. As future role models, it is essential that smoking cessation counselling be embedded in the dental curriculum, but so that they may promote the importance of being tobacco free in the wider population.

Recommendations

Two things are needed to move forward in developing a national programme in training and certification. Firstly, leaders in the field of tobacco control, and more specifically experts in the area of treating tobacco dependence, need to embrace the concept. Secondly, funding needs to be obtained to support development and early implementation of the programme. Possible funding sources include government agencies, foundations, employer groups, consortia of managed care organisations, the health insurance industry, voluntary health agencies and pharmaceutical companies.

National health policy of government of india has set the target of relative reduction in prevalence of current tobacco use by 15% by 2020 and 30% by 2025. Hence such tobacco cessation interventions can create a huge difference for improving the health care in India.

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