TO BRING ABOUT A CHANGE IN KNOWLEDGE, ATTITUDE AND PRACTICE REGARDING GUTKHA CHEWING AMONG STUDENTS OF ST. MARY'S H. S. SCHOOL, INDORE

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BACKGROUND

Consumption of tobacco is one of the greatest threat to global health today. It is estimated that in the middle or low income group countries, there are 1.2 billion tobacco users alive. It has been reported that a considerable number of tobacco chewers develop this habit during adolescence and hence this study was performed.

ABSTRACT

AIM

1. To study the knowledge, attitude and practice regarding gutkha chewing in school children. 2. To study prevalence of gutkha chewing in school children in terms of frequency, type expenditure, cause, duration and age of starting.

METHOD USED

50 students of St. Mary's H.S. School were involved and were given a pre-intervention questionnaire. Lectures were taken to explain hazards of tobacco and after a month's time students were given a post-intervention questionnaire. The data collected by the questionnaire was tabulated and simple mathematical calculations were used to obtain results.

RESULTS

An improvement of 21% was seen in the number of students indulging in gutkha chewing from pre-intervention to post-intervention.

KEYWORDS

Gutkha, Tobacco, Pre-Malignancy, Habit.

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INTRODUCTION

Each year tobacco kills 3 million people worldwide. WHO has estimated that by 2020-2030, tobacco will be responsible for 10 million deaths per year, of which 70% occurring in developing countries. In the developing world, tobacco poses a major challenge not just to health, but also to social and economic development and environmental sustainability. According to study by World Bank (1994), tobacco results in a global net loss of USD 2,00,000 million per years with half of this in developing countries. These costs include (a) Direct medical care for tobacco related illness, (b) Absenteeism from work, (c) Reduced productivity, (d) Forgone income due to early mortality. In the Indian sub-continent, the use of betel nut in various forms is very popular. This is prevalent either in the form of brand nuts or in the form of 'Gutkha,' a preparation of tobacco, betel nut, areca, lime and flavouring agents.^{1,2,3}

This condition SMF is found in 4 per thousand adults in rural India. The disease as it advances goes unattended due to negligence on the part of the patient, as there are not disabling symptoms in very early cases and in most cases the patient sees a doctor in late stage with disability symptoms, which are now quite pronounced like burning sensation, trismus and difficulty in swallowing.^{4,5}

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School Based Health Promotion

Surveys have indicated that much of the tobacco chewers get this habit during school time. Hence, control programs should be forced at these sections of the society. School is an extraordinary setting in which to improve the health of the students, school personnel, families and members of the community should be involved. Therefore, reduction in the prevalence of gutkha chewing among school children is very important.^{4,6}

AIMS AND OBJECTIVES

- 1. To study the knowledge, attitude and practice regarding gutkha chewing in school children.
- 2. To study prevalence of gutkha chewing in school children in terms of frequency, type expenditure, cause, duration and age of starting.
- 3. To decrease gutkha chewing in school children.
- 4. To evaluate our methodology.

METHODOLOGY

All the students were informed and then teachers were consulted. A self-administered questionnaire was prepared to find out knowledge, attitude and practice of students through the questionnaire. Educational intervention was carried out by means of lecture using transparencies explaining the hazards of gutkha chewing. Then again post-intervention assessment was done through another questionnaire after a month's time. Selection of Subjects - Fifty school children of Class 11 and 12 were randomly selected. We considered 11th and 12th class students as having enough maturity to understand the subject of our study.

Definition of Subject: Those students who chew gutkha. Definition of Control: Those students who do not chew gutkha.

RESULTS AND OBSERVATION Knowledge and Attitude

	Number of Students			
	Pre- Post %			
	Intervention	Intervention	Improvement	
Yes	34	48	28	
No	16	2	28	
	Table 1: Number of Students Aware of all Four			
	Ingredients of Gutkha being Tobacco,			
	Betel Nut, Lime and Areca			

	Number of Students					
	Pre- Post %					
	Intervention	Intervention	Improvement			
Yes	13	45	64			
No	No 37 5 64					
Tab	Table 2: Number of Students Aware of the Fact that all					

Ingredients are Harmful

	Number of Students			
	Pre- Post %			
	Intervention Intervention Improvement		Improvement	
Yes	5	47	84	
No	45	3	84	
	Table 3: Knowledge of Cancerous Condition caused by Gutkha			

	Number of Students			
	Pre- Post	%		
	Intervention	Intervention	Improvement	
Yes	4	47	86	
No	46	3	86	
Tal	Table 4: Awareness about Gutkha Chewing being the Most Common Cause of Oral Cancer in India			

Personal Habits

	Number of Students			
	Pre- Post	%		
	Intervention	Intervention	Improvement	
Yes	32	25	21.7	
No	18	25	21.7	
	Table 5: Number of Students Indulging			
	in Gutkha Chewing			

	Number of Students			
	Pre-	Post	%	
	Intervention	Intervention	Improvement	
Male	32	25	21.7	
Female	0	0	0	
Total	Total 32 25 21.7			
	Table 6: Sex Wise Distribution of			
	Cause of Gutkha Chewing			

	Number of Students			
	Pre- Post %		70	
	Intervention	Intervention	Improvement	
With	7	3	56.8	
Tobacco	/	5	50.0	
Without Tobacco	25	22	12	
				Total
Table 7:	Table 7: Type of Gutkha Consumed (With or Without			
	Tobacco)			

No. of Pouches	Pre-Intervention	Post Intervention
< 2	5	15
2 – 5	20	8
> 5	7	2
Table 8: Daily Consumption (In Pouches Per Day)		

Table 8: Daily Consum	ption (In Pouc	thes Per Day)	
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Expense in	Pre-	Post
Rupees	Intervention	Intervention
< 50	8	20
50 - 100	16	4
100	8	1
Table 9: Expenditure on Gutkha Per Month		

Age in Years	Number of Students		
< 14	6		
14-16	22		
> 16	>16 4		
Table 10: Age When Started Gutkha Chewing			

Age in Years	Number of Students	
< 6 Months	10	
6 Months – 2 Years	16	
> 2 Years	6	
Table 11: Duration of Consumption of Gutkha		

Causes	Number of Students	Percentage
Peer Pressure	25	50
Curiosity	2	4
To Alleviate Boredom	15	30
Influence of Advertisements	1	2
Family Habit	1	2
Increase Work Influence	15	30
Easy Availability	0	0
Table 12: Cause of Consumption of Gutkha		

Causes	Number of Students	Percentage
Exams	25	50
Journey	16	32
Stress	8	16
Table 13: Consumption Increases During		

Number of Students		
Yes	No	
20	5	
Table 14: Number of Students who Tries to Quit after Intervention (Specify Yes or No)		

Days	Number of Students	
< 10	15	
10 - 20	3	
20 - 30	2	
Table 15: For those who Tried to Quit, 'Period of Abstinence'		

DISCUSSION

Evidences show that the frequency of tobacco and betel nut chewing has increased, especially in west Pacific region. IARC has classified only betel nut as group 1 carcinogen and its use with tobacco further increases risk of oral carcinoma. The use of betel nut with tobacco is increasing because of aggressive marketing of tobacco products. Studies and surveys show that tobacco consumption has increased considerably amongst the

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The above study led to a substantial improvement of 21.7% amongst the students of standard 11th and 12th class of St. Mary's Convent School, Indore. There was no prevalence of gutkha chewing seen among the females. The study caused a reduction in the number of pouches consumed by the students per day, who had not yet left the habit. The most vulnerable age of starting gutkha chewing was found to be 14-16 years. The main causes of gutkha consumption was peer pressure, boredom and to increase work efficiency. Increased consumption was seen during exams and majority of the students tried to quit, but could not stick to it.

J Muttapappallymyalil, J Sreedharan had done a study on smokeless tobacco consumption among school children and the results showed that the mean age of tobacco consumption was 14.4, while in the present study it was 15. Similarly, in the study done by Krishna Dere and Prashant Chaudhary majority of the students who consumed tobacco were between 13-14 yrs. and approximately 38% of female students used tobacco, whereas in this study majority of the students involved in tobacco consumption were between 14-16 years; no female student was involved.^{1,2}

Since most of the habits develop during adolescence, all interventions should be targeted at this level. Strict legislation in the college and school premises should be taken to ban the use of any tobacco products. The school authorities should promote shows that motivate students to abstain themselves from tobacco products and programmes should be held on special days like anti-tobacco day, so that student can be motivated.³

CONCLUSION

A reduction in the prevalence of gutkha chewing in the community could be brought about by an educational approach, which at the same time was helpful in improving the knowledge and attitude regarding gutkha chewing.

Our project succeeded in bringing about a reduction of 21.7% in gutkha chewing among school students of Class 11 and 12 of the St. Mary's Higher Secondary School, Indore.

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