Knowledge, attitude and practices regarding oral cancers amongst secondary school students in Lucknow district

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ABSTRACT

Background: The world at present is heading towards various types of non communicable diseases which are also known as modern epidemics. Oral cancer is the eleventh most common cancer in the world. It accounts for approximately 2.4 percent of all cancers with high incidence rate in developing countries. Globally, it represents an incidence of 3% and 2% of all cancers among men and women respectively. The aim of the study is to assess Knowledge and Practices about oral cancers amongst the students of intermediate college.

Methods: Study design was a cross sectional study. Study population was a list of intermediate colleges from Block Kakori was prepared with the help of social workers of the Department of Community Medicine. Two schools from the list were randomly selected by simple random sampling. Study area was at Kakori Block. Study duration was on July 2011- October 2011. Sample size was a total of 180 students were enrolled for the study who were present at the time of data collection. Data was tabulated using Microsoft Excel and analysed giving descriptive information.

Results: Tobacco and alcohol are considered most potent causative agents of oral cancer by the majority (91.1% and 74.4%) of the students. 51.1% of students considered it a blood disease, 25% of students told that it is infectious. When asked about knowledge regarding signs and symptoms of oral cancer majority (61.7%) of the students told that indigestion or difficulty in swallowing, unusual weight loss/gain (54.4%) and nagging change or hoarseness of voice by 41.1% students. Television emerges as the source of information about cancer for 55.00% students. 11.10% of students admitted to be using tobacco regularly with cigarette/bidi (42.3%) being the most common type of tobacco usage followed by gutka (30.8%).

Conclusions: There is very much need of spreading more awareness about cancer and its prevalence. Correlation between oral cancers and tobacco abuse needs to be highlighted. Significant number of students was not having adequate awareness about signs and symptoms of oral cancers.

Keywords: Oral cancers, Tobacco, School students, Knowledge, Practices

INTRODUCTION

The world at present is heading towards various types of non-communicable diseases which are also known as modern epidemics. Among the modern epidemics cancer is second largest non-communicable disease and it has a sizable contribution in the total number of deaths.

Oral cancer is the eleventh most common cancer in the world (Atessa, et al)¹. It accounts for approximately 2.4 percent of all cancers (Rhodus) with high incidence rate in developing countries (Peterson)². Globally, it represents an incidence of 3% and 2% of all cancers among men and women respectively (Greenlee, et al)³. The incidence of oral cancer is rising in most countries.
especially in developing countries. In the general male population, oral cancer is the sixth most frequent cancer. Squamous cell carcinoma (SCC) accounts for 95% of oral cancers, and it is associated with avoidable etiological risk factors. Approximately 419,000 new oral cancer cases diagnosed annually worldwide. Predisposing factors for oral cancer are heavy use of tobacco, excess alcohol consumption, diet deficient in fruit and vegetables, paan and betel nut chewing and poor oral hygiene.

Oral cancer is largely preventable (Pavia et al.). Early diagnosis of the malignancy greatly increase survival rates as the mouth is easily accessible for self or clinical examination. The prognosis of oral cancer is poor with lowest survival rates of less than 50 percent, within a five-year period (Greenlee et al.).

Objective
The aim of the study was to assess knowledge and practices about oral cancers amongst the students of intermediate college.

METHODS
Study design
A cross sectional study

Study population
A list of intermediate colleges from Block Kakori was prepared with the help of social workers of the Department of Community Medicine. Two schools from the list were randomly selected by simple random sampling.

Study area
Kakori Block

Study duration
July 2011- October 2011

Sample size
A total of 180 students were enrolled for the study who were present at the time of data collection.

Inclusion criteria
Students studying in class 10th to 12th after taking verbal consent.

Exclusion criteria
Students studying in classes upto 9th.

Tools of data collection
The investigating tool so used is preformed, pretested questionnaire. This had both open and close-ended questions related to various aspects of cancer.

Data analysis
Data was tabulated using Microsoft Excel and analysed giving descriptive information.

RESULTS
Tobacco and alcohol are considered most potent causative agents of oral cancer by the majority (91.1% and 74.4%) of the students (Table 1).

| No. | %  | Total |
|-----|----|-------|
| Irregularity in eating habits | 41 | 22.8 | 180 |
| Alcohol | 134 | 74.4 | 180 |
| Tobacco | 164 | 91.1 | 180 |
| Sharp teeth | 44 | 24.4 | 180 |
| Ill fitted denture | 76 | 42.2 | 180 |
| Hot food | 19 | 10.6 | 180 |
| Spicy/junk food | 34 | 18.9 | 180 |
| Non-veg food | 22 | 12.20 | 180 |

Meagre 17.8% students considered it a blood disease, 25% of students told that it is infectious. Meagre 17.8% students
considered cancer to be associated by hereditary factors despite much higher correlation between cancer and hereditary. 20.8% students have the misconception that religious healers and quacks can treat cancer (Table 2).

Table 3: Knowledge regarding signs and symptoms of oral cancers amongst secondary school students.

| Frequency | %  | Total |
|-----------|----|-------|
| Change in bowel/bladder habits | 82 | 45.6 | 180 |
| Non-healing sore throat | 79 | 36.7 | 180 |
| Indigestion or difficulty in swallowing | 111 | 61.7 | 180 |
| Nagging change or hoarseness of voice | 74 | 41.1 | 180 |
| Prolonged and frequent fever | 93 | 51.7 | 180 |
| Unusual weight loss/gain | 98 | 54.4 | 180 |
| Hair loss/fall | 110 | 61.1 | 180 |
| Loss of appetite | 88 | 48.9 | 180 |

When asked about knowledge regarding signs and symptoms of oral cancer majority (61.7%) of the students told that indigestion or difficulty in swallowing, unusual weight loss/gain (54.4%) and nagging change or hoarseness of voice by 41.1% students (Table 3).

Table 4: Source of information about oral cancer amongst secondary school students.

| No. | %   | Total |
|-----|-----|-------|
| Newspaper | 38 | 21.10 | 180 |
| TV | 99 | 55.00 | 180 |
| Teachers | 21 | 11.70 | 180 |
| Textbooks | 1 | 0.60 | 180 |
| Internet | 18 | 10.00 | 180 |
| Friends | 3 | 1.70 | 180 |

Television emerges as the source of information about cancer for 55.00% students. Awareness gained through teachers and textbooks is meagre 11.70% and an alarming 0.60% respectively (Table 4).

11.10% of students admitted to be using tobacco regularly with Cigarette / Bidi (42.3%) being the most common type of tobacco usage followed by Gutka (30.8%) (Figure 1 and 2).

DISCUSSION

In present study tobacco and alcohol are considered most potent causative agents of oral cancer by the majority (91.1% and 74.4%) of the students. In a study by Somaia et al in Jeddah it was observed that respondents were aware of the major risk factors most likely associated with oral cancer, since the highest percentages identified tobacco (97%), precancerous oral lesions (92%) family history (86.9%) and alcohol usage (83%) as the main risk factors for oral cancer. In a study by Al Dubail et al, in Malaysia found that regarding knowledge of risk factors, most of the respondents agreed that the following are risk factors for oral cancer; smoking (95.5%), poor oral hygiene (90.5%), family history (90.0%), alcohol (84.5%) and poor fitting dentures (83.0%). In a study by Okoh and Enabulele, although the graduating dental students easily identified alcohol and tobacco as risk factors for oral cancers, knowledge of other risk factors such as poor nutrition, oral sex and sunlight was on the average, and a total of 96.7% of the dental students routinely ask patients on the use of alcohol and tobacco, whereas in our study 93% of students were aware of all the risk factors for oral cancer.

In present study knowledge regarding signs and symptoms of oral cancers, majority 61.7% of the students told that indigestion or difficulty in swallowing, unusual weight loss/gain 54.4% and nagging change or hoarseness of voice by 41.1% students. More than half of the respondents could identify the clinical signs and symptoms of oral cancer. A similar finding was reported in Pakistani undergraduate medical and dental students whereas a low level of knowledge was found in Iranian population.
Limitations of study

Small sample size

Duration of study was short for getting any statistically significant results.

CONCLUSION

Perspective of students about most prevalent forms of cancers was mixed with Cancers of oral cavity being seen as most common cancer ahead of Breast cancer and Lung Cancer respectively. Cancer of Cervix is seen as least common cancer which is not so the case in actual clinical prevalence. There is very much need of spreading more awareness about cancer and its prevalence. Correlation between oral cancers and tobacco abuse needs to be highlighted. Significant number of students was not having adequate awareness about signs and symptoms of Oral cancers.

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REFERENCES

1. Atessa P, Farnaz F, Habib OE, Shabestari S. Oral cancer knowledge among patients referred to Mashad Dental School, Iran. Arch Iranian Med. 2010;13:543-48.
2. Rhodus NL. Oral cancer: leukoplakia and squamous cell carcinoma. Dent Clin North Am. 2005;49:143-65.
3. Peterson PE. The World Oral Health Report: continuous improvement of oral health in the 21st century—the approach of the WHO Global Health Programme. Community Dent Oral Epidemiol. 2003;31:3-24.
4. Greenlee RT, Hill Harmon MB, Murray T, Thun M. Cancer statistics. CA Cancer J Clin. 2001;51:15-36.
5. Scully C, Porter S. Oral cancer. West J Med. 2001;174(5):348-51.
6. Scully C. Oral cancer aetipathogenesis; Past, present and future aspects. Med Oral Patol Oral Cir Bucal. 2011;16(3):e306-11.
7. Ferlay J, Shin HR, Bray F, Forman D, Mathers C, Parkin DM. Estimates of worldwide burden of cancer in 2008: GLOBOCAN 2008. Int J Cancer 2010;127:2893-2917.
8. Balaram P, Sridhar H, Rajkumar T, Vaccarella S, Herrero R, Nandakumar A, et al. Oral cancer in Southern India: the influence of smoking, drinking, paan-chewing and oral hygiene. Int J Cancer. 2002;98:440-5.
9. Pavia M, Pileggi C, Nobile CG, Angelillo IF. Association between fruit and vegetable consumption and oral cancer: a meta-analysis of observational studies. Am J Clin Nutr. 2006;83:1126-34.
10. Eltelety SMK, Hassan MHA, Kassimi FE, Qahatani NE, Mohamed N. Knowledge, Attitudes And Practices Regarding Oral Cancer Among Dentists In Jeddah. Cairo Dental J. 2014;30(1):1-17.
11. Al Dubail SAR, Ganasegeran K, Alabsi AM, Alshagga MA, Ali RS. Awareness and Knowledge of Oral Cancer among University Students in Malaysia. Asian Pacific J Cancer Prev. 2012;13:165-8.
12. Okoh M, Enabulele J. Knowledge and practices regarding oral cancer among graduating dental students, Indian J Oral Sci. 2015;6(1):14-8.
13. Farhat K, Aslam CM, Mumtaz M, Umair N. Oral cancer knowledge and awareness amongst undergraduate dental students of Lahore, Pakistan. Pakistan Oral Dental J. 2011;31:64-7.

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