

AWARENESS ABOUT ORAL CANCER AMONG DENTAL STUDENTS

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Abstract

Introduction

Oral cancer affects people in the 6th and seventh many years of existence with a background marked by smoking tobacco and, or liquor utilization. Early acknowledgment and referral is basic as less treatment is required to decrease mortality and morbidity Past examinations have demonstrated that oral cancer can be quiet in symptoms with attention to primal signs being increasingly advantageous in diagnosis.

***Aim:** To assessing oral cancer knowledge and awareness among undergraduate dental students*

***Materials and method:** A cross sectional survey was done with a self-administered questionnaire with 10 questions circulated among 100 dental students. The questionnaire assessed the awareness about oral cancer ,their risk factors,clinical manifestations ,diagnosis and management strategies.The responses were recorded and analysed.*

***Results:** 96 % of dental students were aware of oral cancer.95% said smoking and tobacco related products are the major risk factors of oral cancer.85% were aware of clinical manifestation of oral cancer.71% were aware of diagnosis of oral cancer and 65% were aware of management strategies for oral cancer.*

***Conclusion;** Greater part of the responders in this investigation had satisfactory information about clinical indications of oral cancer.Efforts ought to be made to develop inspirational disposition towards avoidance of oral cancer. There is a necessity to present instructions on counteraction, early referral and demonstrative techniques for oral cancer .*

Keywords: Awareness,oral cancer,dental students

Introduction

Oral cancer basically influences people in the 6th and seventh many years of existence with a past filled with tobacco smoking and, or liquor ingestion(Napier & Speight, 2007; Speight et al., 1996). Early acknowledgment and referral is basic as less treatment is required to decrease mortality and morbidity. Past examinations have

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demonstrated that oral cancer can be quiet in symptoms with attention to early signs being increasingly useful in determination (Aaronson et al., 1987) Oral cancer has tetrad vital signs which endorse further examination. These are leukoplakia, erythroplakia, blended form (erythroleukoplakia), and ulceration. Ulceration is the most common sign. The dominance of this sickness is recognized through clinical presentation. (Simpkins & Kanatas, 2016)

Oral cancer is a predominant cancer on the planet. It represents around 2.4 percent of all cancers with increased rate in developing nations. Universally, it speaks to an occurrence of 3% and 2% of all cancers among all people. Oral cancer is to a great extent preventable. Early determination of the danger significantly increment endurance rates. The prognosis of oral cancer is moderate to poor. (McGurk, 1992; Schnetler, 1992)

Inclining causatives for oral cancer are substantial utilization of tobacco, overabundant liquor utilization, diet lacking in foods grown from the ground, paan and betel nut biting and miserable oral cleanliness (Castellsagué et al., 2004; Turnberg, 1993). There are few investigations in India about oral cancer information among population and college undergraduates. Hence the current study is aimed at assessing oral cancer knowledge and awareness among dental undergraduate students.

Materials and method

A cross sectional study was done with a self-administered questionnaire with 10 questions circulated among 100 dental students. The questionnaire assessed the awareness about oral cancer, their risk factors, clinical manifestations, diagnosis and management strategies. The responses were recorded and analysed.

Results

96% of dental students were aware of oral cancer (Fig 1). 95% said smoking and tobacco related products are the major risk factors of oral cancer (Fig 2). 85% were aware of clinical manifestation of oral cancer (Fig 3). 71% were aware of diagnosis of oral cancer (Fig 4) and 65% were aware of management strategies for oral cancer (Fig 5).

Fig 1: Awareness of oral cancer

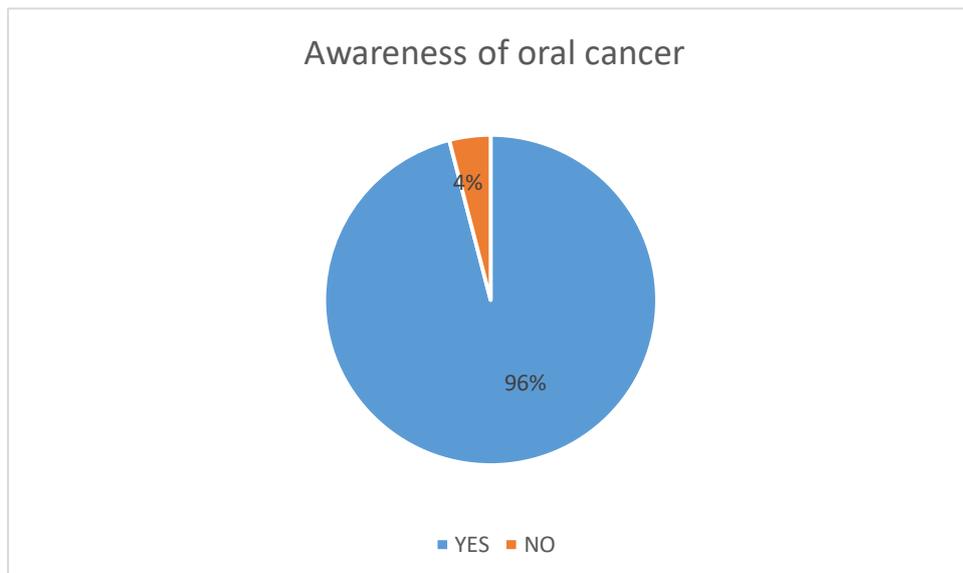


Fig 2: Risk factors of oral cancer

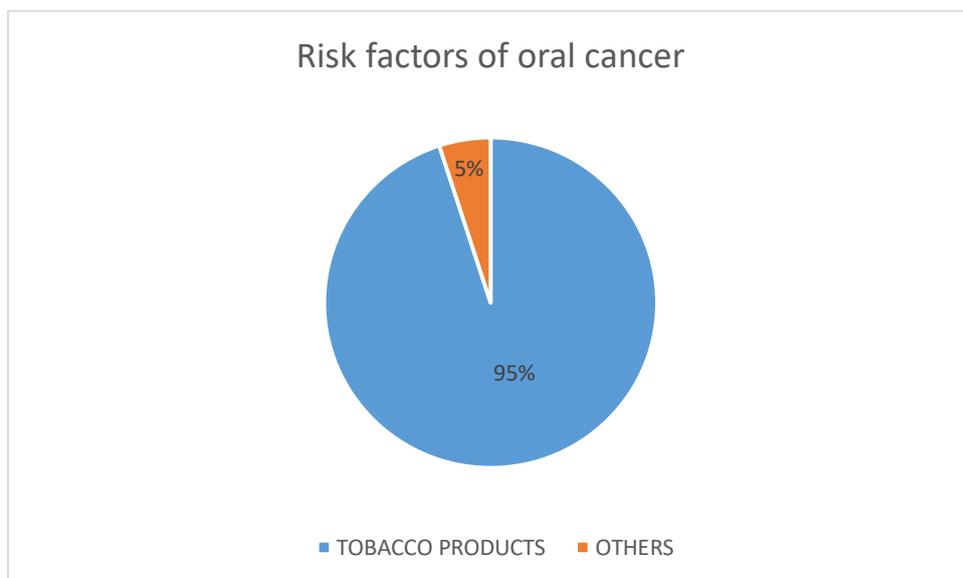


Fig 3: Awareness of clinical manifestation of oral cancer

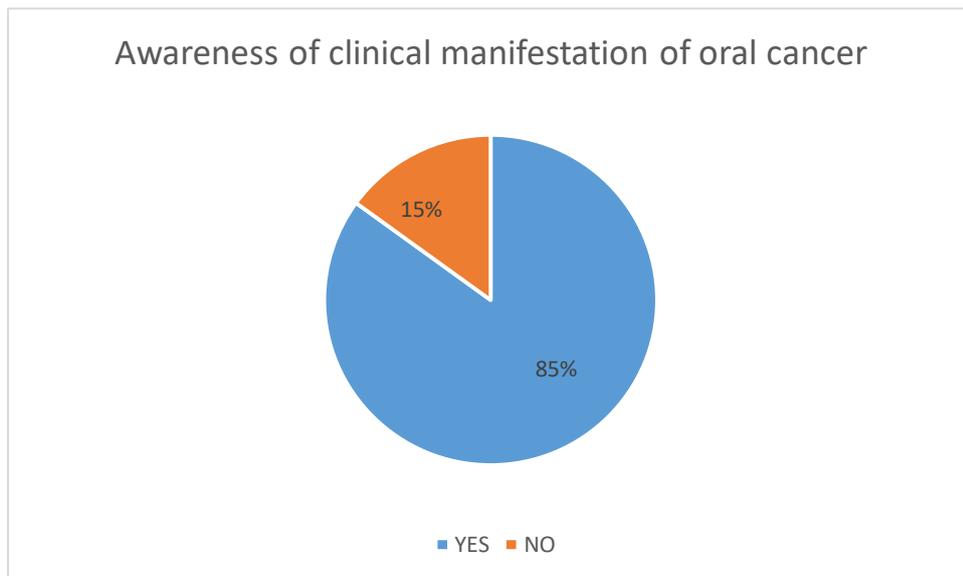


Fig 4: Awareness of diagnosis of oral cancer

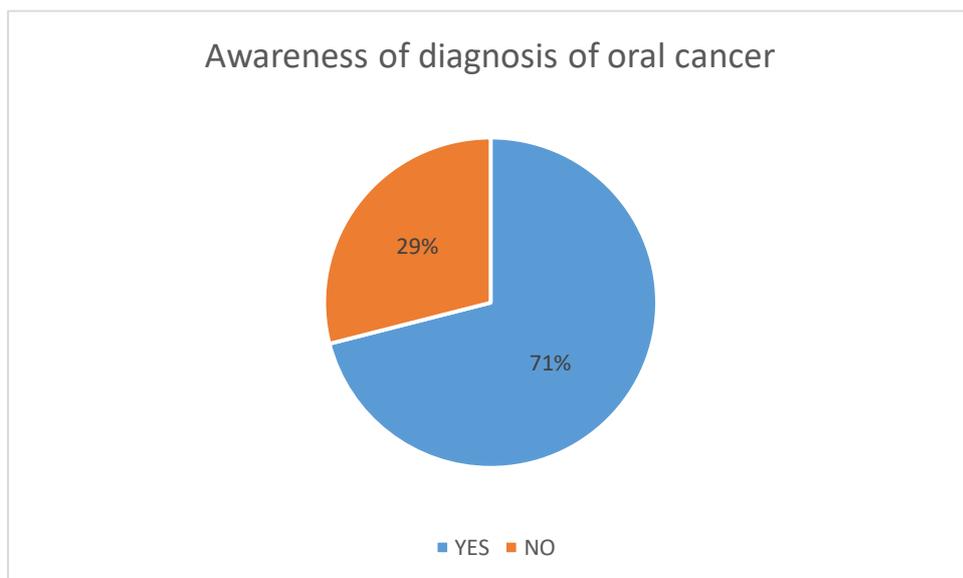
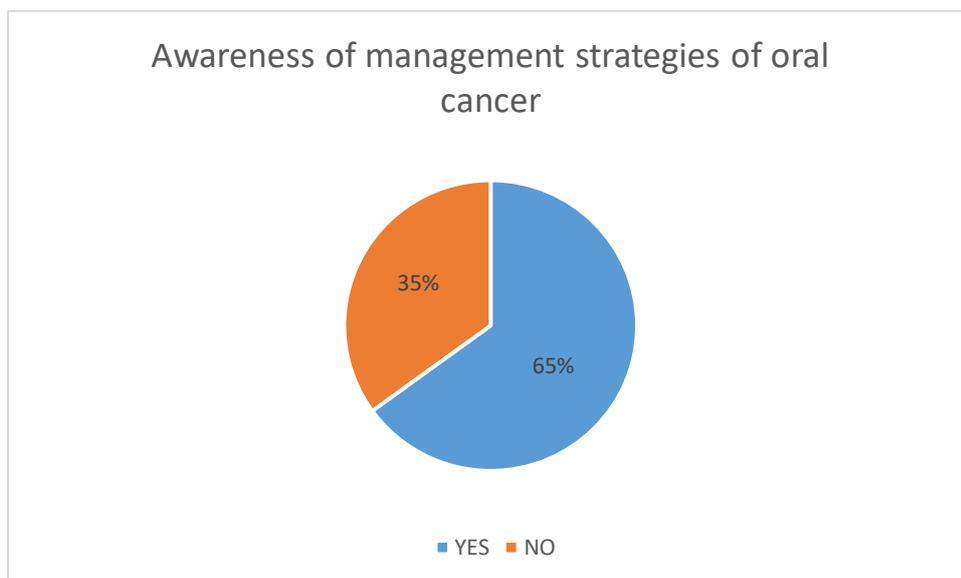


Fig 5: Awareness of management strategies of oral cancer



Discussion

Oral cancer is one among the most lethal medical issues looked by humankind and is the 6th most basic reason for cancer related demises (Johnson et al., 2011). Potentially malignant disorders (PMDs) are oral lesions and conditions related with a higher danger of threatening change. Early recognition, treatment and recognizable proof of patients in danger remains the most significant methodology for lessening the danger of dangerous change related with PMDs.

This examination explored the mindfulness and information on undergrad dental understudies in regards to clinical signs, chance components and treatability of oral cancer. The awareness among dental students in this study (92%) was found higher than clinical undergraduates in UK (28%). Greater part of the respondents could distinguish the clinical signs and indications of oral cancer. A comparable finding was accounted for in Pakistani undergrad clinical and dental understudies. Our investigation demonstrated that 95% recognized smoking as the most well-known hazard factor for oral cancer which is predictable with different examinations from various nations. (Pindborg et al., 2012)

Open and essential human services laborers ought to be engaged with instruction and awareness program on oral cancer and they ought to be urged to take an interest in wellbeing training by giving data on oral cancer and preventive strategies to residents across the nation. The job of broad communications, especially media ought to be worried as it was found to assume a key job in giving wellbeing instruction and conviction changes. More youth could be drawn nearer through long range informal communication destinations. Since this investigation is constrained by its small sample size, concentrates with bigger and delegate tests are prescribed to affirm the discoveries of the current examination which will assist with growing the information base for dental and other social insurance suppliers and leaders to make prudent decisions. (Alhazzazi, 2017)

The dental educational program for understudies ought to have more accentuation on analytic and prognostic variables of oral cancer just as strong consideration. Morbidity and mortality are probably going to be decreased if future dental specialists realize how to forestall and distinguish oral cancer. An extensive oral cancer assessment and hazard appraisal are measures that may prompt early discovery and anticipation of oral cancer the same number of specialists concur that the key isn't really recognizing oral cancer however distinguishing tissue that isn't ordinary and making proper move. (Diajil, 2013; Ogden & Mahboobi, 2011)

Early distinguishing proof of oral cancerous injuries diminishes rates of morbidity and mortality, expands the personal satisfaction and brings down treatment costs. Instruction of future dental specialists begins from dental school and ongoing updates should be strengthened among understudies alongside cutting edge preparing in discovery and palliative consideration of cancer

Conclusion

Greater part of the responders in this investigation had satisfactory information about clinical indications of oral cancer in oral cavity. Efforts ought to be made to develop inspirational disposition towards avoidance of this cancer. There is a necessity to present instructions on counteraction, early referral and demonstrative techniques for oral cancer .

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Conflict of Interest:

The authors declare that they have no conflict of interest.

References:

1. Aaronson, N. K., Beckmann, J., & EORTC Study Group on Quality of Life. (1987). *Quality of life of cancer patients*. Raven Pr.
2. Alhazzazi, T. (2017). Assessment of Head and Neck Cancer Knowledge and Awareness Levels among Undergraduate Dental Students at King Abdulaziz University Faculty of Dentistry. In *Journal of Dental Health, Oral Disorders & Therapy* (Vol. 8, Issue 4). <https://doi.org/10.15406/jdhodt.2017.08.00294>
3. Castellsagué, X., Quintana, M. J., Martínez, M. C., Nieto, A., Sánchez, M. J., Juan, A., Monner, A., Carrera, M., Agudo, A., Quer, M., Muñoz, N., Herrero, R., Franceschi, S., & Xavier Bosch, F. (2004). The role of type of tobacco and type of alcoholic beverage in oral carcinogenesis. In *International Journal of Cancer* (Vol. 108, Issue 5, pp. 741–749). <https://doi.org/10.1002/ijc.11627>
4. Diajil, A. R. (2013). Awareness and Knowledge of Oral Cancer among Final Year Undergraduate Dental Students in Baghdad - Iraq. In *Journal of Baghdad College of Dentistry* (Vol. 25, Issue 3, pp. 69–79). <https://doi.org/10.12816/0015000>
5. Johnson, N. W., Jayasekara, P., & A A Hemantha. (2011). Squamous cell carcinoma and precursor lesions of the oral cavity: epidemiology and aetiology. In *Periodontology 2000* (Vol. 57, Issue 1, pp. 19–37). <https://doi.org/10.1111/j.1600-0757.2011.00401.x>
6. McGurk, M. (1992). Oral cancer: Detection of patients and lesions at risk. (Volume II of risk markers in oral disease). In *British Journal of Oral and Maxillofacial Surgery* (Vol. 30, Issue 3, p. 206). [https://doi.org/10.1016/0266-4356\(92\)90175-i](https://doi.org/10.1016/0266-4356(92)90175-i)
7. Napier, S. S., & Speight, P. M. (2007). Natural history of potentially malignant oral lesions and conditions: an overview of the literature. In *Journal of Oral Pathology & Medicine* (Vol. 37, Issue 1, pp. 1–10). <https://doi.org/10.1111/j.1600-0714.2007.00579.x>
8. Ogden, G. R., & Mahboobi, N. (2011). Oral Cancer Awareness Among Undergraduate Dental Students in Iran. In *Journal of Cancer Education* (Vol. 26, Issue 2, pp. 380–385). <https://doi.org/10.1007/s13187-010-0170-2>
9. Pindborg, J. J., Reichart, P. A., Smith, C. J., & van der Waal, I. (2012). *Histological Typing of Cancer and Precancer of the Oral Mucosa: In Collaboration with L.H.Sobin and Pathologists in 9 Countries*. Springer Science & Business Media.

10. Schnetler, J. F. (1992). Oral cancer diagnosis and delays in referral. *The British Journal of Oral & Maxillofacial Surgery*, 30(4), 210–213.
11. Simpkins, S., & Kanatas, A. (2016). Delays in cancer diagnosis in the UK. In *British Journal of Oral and Maxillofacial Surgery* (Vol. 54, Issue 6, pp. 712–713). <https://doi.org/10.1016/j.bjoms.2015.08.273>
12. Speight, P. M., Farthing, P. M., & Bouquot, J. E. (1996). The pathology of oral cancer and precancer. In *Current Diagnostic Pathology* (Vol. 3, Issue 3, pp. 165–176). [https://doi.org/10.1016/s0968-6053\(05\)80014-6](https://doi.org/10.1016/s0968-6053(05)80014-6)
13. [Turnberg, L. \(1993\). Research and development in internal medicine in the United Kingdom. Interview by Stuart Donnan. In *Journal of Epidemiology & Community Health* \(Vol. 47, Issue 4, pp. 253–254\). <https://doi.org/10.1136/jech.47.4.253>](#)