Original Article

Histological Types and Common

Oral Cancer

Sites of Oral Cancer in Patients Presenting at Liaquat University Hospital Jamshoro/Hyderabad Sindh

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ABSTRACT

Objective: To determine the frequency of histological types and comman sites of oral cancer in patients presenting at Liaquat University Hospital Jamshoro/Hyderabad Sindh.

Study Design: Descriptive Study.

Place and Duration of Study: This study was conducted on patients presenting at Oral and Maxillofacial Surgery Department, Liaquat university hospital Jamshoro/ Hyderabad Sindh over a period of one year from January 2010 to December 2010.

Materials and Methods: Patients of all age group and gender with biopsy proven oral cancer along with its Histopathological types were included in the study. Patients reported irradiated,metastatic,benign and inflammatory lesions were excluded from the study.

Results: Total number of patients was 100. There were 53 Males and 47 Febrales. Age range was 3 years to 85 years. means age was 44.2 years. Most comman site was cheeck mucosa. Histopathological analysis showed 75% patients having well diffrentiated squamous cell carcinoma, 13% patients having moderately diffrenciated squamous cell carcinoma, 2% patients having poorly diffrenciated analysis carcinoma, 7% patients having basel cell carcinoma. 1% Patients having Melanoma, 1% patients having Melanoma and 1% patients having Rhabdomyosarcoma.

Conclusion: This study gives a detailed account of the histopathological types of oral cancer along with their frequency and site. oral cancer occurred at a younger are with male prepondrance.

Key Words: Oral Cancer, Comman Site, Histological Type.

INTRODUCTION

Various pathalogical conditions affecting seal cavity ranged from benign inflamatory lessons to malignant lesions. Benign lesions can be neoptastic or non neoplastic. Non neoplastic lesions are usually inflammatory or represent reaction to some kind of irritation. Neoplasm represent a process characterized by progressive growth¹.

Malignant lesions of oral cavity has been recognized as a huge threat to public health because of its high morbidity and mortality ²⁻⁵. These lesions has high prevalence in various parts of world as well as in Pakistan ⁶⁻⁹.

More then 90% of oral malignancies are squamous cell carcinoma or one of its variants ¹⁰. Early detection of pre-malignant and malignant oral lesions are important regarding prognosis ¹¹⁻¹⁵. Epidemiological evidence shows a correlation between use of smokeless tobacco and these lesions ¹⁶⁻¹⁸.

Clinically benign oral lesions can occasionally resemble malignancies¹⁹. When clinical features are not diagnostic or the persistent lesions for long time and suspected malignant only then the biopsy is done²⁰.

Oral Carcinogenesis is a highly complex multifocal process that takes place when squamous epithelium is affected by several genetic alterations. Now a days the use of several molecular biology techniques to diagnose oral precancerous lesions and cancers may markedly improve the detection of alterations that are invisible under the Microscope. This would Identify Patients at a high risk of developing oral cancer ²¹

MATERIALS AND METHODS

This study was carried out on 100 patients at oral and Maxillofacial surgery department in collaboration with pathology department (Diagnostic research lab) Liaquat University hospital Jamshoro /Hyderabad Sindh from January 2010 to December 2010. All histopathologically proven oral cancers included in the study. Those reported irradiated,metastatic ,benign and inflammatory lesions were excluded from the study. Tumor Sites included were as follow cheeck, buccal mucosa, tongue, gums and alveolus, palate, floor of mouth, lips and angle of mouth. Frequency and proportions were calculated for age, Sex, Site and histological type of oral cancer.

RESULTS

One hundred patients were confirmed as cases of oral cancer. The youngest patient was 3 years old male and oldest was 87 years old female. Mean age of oral cancer patients was 44.2 years. Maximum number of patients (32%) were in 31-40 years of age group while very few patients were above 70 years of age(4%) table-1. out of one hundred patients of oral cancer 53% were males and 47% were females. Most common site of oral cancer was cheek (31%) followed by buccal mucosa (29%). Detailed distribution of site of oral cancer is given in table-2

Most common histological type was well differentiated squamous cell carcinoma accounting for (75%) cases, followed by the moderately differentiated squamous cell carcinoma (13%) cases. Detailed distribution of histological types of oral cancer is given in table-3.

Table No.1: Age Distribution

Age in years	No. of cases	%age
1-10	1	1%
11-20	3	3%
21-30	10	10%
31-40	32	32%
41-50	27	27%
51-60	12	12%
61-70	11	11%
71-80	2	2%
81-90	2	2%
Total	100	100%

Table No.2: Distribution According To Site

Site	No. of cases	%age	
Buccal mucosa	29	€	
Cheek	31	31%	
Tongue	17	17%	
Palate	02	02%	
Gums &alveolus	06	06%	
Floor of mouth	0 2	02%	
Lips	10	10%	
Angle of mouth	03	03%	
Total	100	100%	

Table No.3: Histological types of oral cancer

Histological type	No.of	%age
	cases	
Squamous cell carcinoma	90	90%
a. well differentiated	75	75%
b. moderately differentiated	13	13%
c. poorly differentiated	02	02%
anaplastic carcinoma		
Basal cell carcinoma	07	07%
Melanoma	01	01%
Mucoepidermoid carcinoma	01	015
Rhabdomyosarcoma	01	01%
Total	100	100%

DISCUSSION

The most common age group affected by oral cancer as reported in the literature is 60-69 years ²² and 50-59 years²³. While in this study most of the cancer were present in a youngest age group of 31-40(32%) followed by 41-50 years of age group (27%). The season could be the use of tobacco, pan, & betal nuts which is very common in our population. This is also supported by the study of Isaac U ²⁴. The youngest patient reported in the literature is a six month old baby suffering from Kaposi sarcoma²³ while in our study youngest patient was 3years old having Rhabdomyosarcoma.

Oral cancer in our study was more common in males (53%). Other previous studies also indicate high ratio in males. ²⁴⁻²⁵

Tongue is the most common site involved by oral cancer in western world $^{26\text{-}28}$. In this study cheek is common site (31%) cases followed by buccal mucosa (29%) cases. This is also supported by other studies conducted in Pakistan 23,29,30 .

The difference may be due to environmental factor in different parts of the world and can be attributed to betal nuts, am keless tobacco chewing and peoples in this part of world put snuff (naswar) in their cheek is also common.

In the study most common histological types of oral cancer was well differentiated squamous cell carcinoma 75%) followed by moderately differentiated squamous cell carcinoma (13%). This is well supported by other Studies ^{22,24,31}. Haq M,E.U, et al reported that poorly differentiated squamous cell carcinoma is the most common histological type in his study ³². It is concluded from other previous studies that higher the grading of tumor and poorer its differentiation more are its chances of metastasis.

CONCLUSION

Oral cancer occor at a younger age with male preponderance. Most common site is cheek. Well differentiated oral squamous cell carcinoma is most common histological type of oral cancer in this part of world.

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