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Research Article

PREVALENCE OF TOBACCO ASSOCIATED LESIONS IN DENTAL OPD AT A TERTIARY CARE **CENTRE**

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Clinically the cases were diagnosed and patients with Leukoplakia, OSMF or SCC were recorded.

ABSTRACT

Aim: The aim of this study is to know the prevalence of tobacco associated lesions in Dental OPD at Indira Gandhi Institute of Medical Sciences, Patna

Material and Method: All patients reporting to the Dental OPD who gave positive history of tobacco consumption were included in the study. Clinically the cases were diagnosed and patients with Leukoplakia, OSMF or SCC were recorded.

Result: It was observed that maximum number of patients were found to be that of OSMF

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INTRODUCTION

The oral cancer constitutes about 3% of all malignancies in the US, and approximately 25,000-30,000 patients of oral cancer are diagnosed every year.[1] Also, oral cancer is the most common malignancy in Southeast Asia, accounting for about 30-40% of all malignancies in India.[2]

In India, oral cancer is one of the leading cancer today. Its incidence is 12.6 per 1,00,000 population.[3,4] The premalignant lesion is a disease or syndrome if left untreated have significantly increased risk to develop cancer. The early detection of cancer is of significant importance as there is marked improvement of survival rates when the oral lesion is identified at an early stage.[5] However, different oral lesions have varying malignancy potential and not all oral lesions are premalignant in nature, hence it is essential to assess the spectrum of oral lesions and to identify the potential premalignant lesions[6]

Aim and Objectives

- 1. To know the prevalence of Squamous Cell Carcinoma in Dental OPD
- To know the prevalence of Oral Sub Mucous Fibrosis in Dental OPD
- To know the prevalence of Leukoplakia in Dental

MATERIAL AND METHOD

All patients reporting to the Department of Dentistry, Indira Gandhi Institute of Medical Sciences who gave positive history of tobacco consumption and were clinically diagnosed with having any malignant or premalignant lesion which was habit associated were included in the study. All the subjects were then divided into three categories of Squamous Cell Carcinoma, Leukoplakia and OSMF. The three groups were then divided on the basis of gender and age. The collected data was sent was statistical analysis.

RESULTS

A total of 116 subjects were recorded in our study. Our result showed that maximum number of patients were diagnosed with OSMF with 48 Male and 6 females on basis of clinical diagnosis. 31 male and 4 female patients were clinically doagnosed as Leukoplakia cases and 33 male and 3 female patients were clinically diagnosed as Squamous cell carcinoma.

Squamous Cell Carcinoma

		Frequency	Percent
	No	80	69.0
Valid	Yes	36	31.0
	Total	116	100.0

Osmf

		Frequency	Percent
	No	62	53.4
Valid	Yes	54	46.6
	Total	116	100.0

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Leukoplkia

		Frequency	Percent
	No	81	69.8
Valid	Yes	35	30.2
	Total	116	100.0

Squamous_Cell_Carcinoma * Gender Crosstabulation

		Ger	Gender		
		Male	Female	Male	
Squamous_Cell_Carcinoma	Count	33	3	36	
Ye	s % within Gender	31.4%	27.3%	31.0%	
	Count	105	11	116	
Total	% within Gender	100.0%	100.0%	100.0%	

Squamous_Cell_Carcinoma * Age_Group Crosstabulation

			Age_Group						Total	
Squamous_Cell_Carcinoma			20-29	30-39	40-49	50-59	60-69	70⇒>	20-29	
	Yes	Count % within Age Group	4.3%	17.1%	34.8%	61.5%	42.9%	87.5%	31.0%	
Total		Count	23	35	23	13	14	8	116	
		% within Age_Group	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

OSMF * Gender Crosstabulation

	_	Ger	ıder	Total
		Male Female		Male
OSMF Yes	Count % within Gender	48 45.7%	6 54.5%	54 46.6%
Total	Count	105	11	116
Total	% within Gender	100.0%	100.0%	100.0%

OSMF * Age_Group Crosstabulation

		Age_Group						Total
		20-29	30-39	40-49	50-59	60-69	70=>	20-29
OSMF	Count	19	25	9	1	0	0	54
Yes	% within Age Group	82.6%	71.4%	39.1%	7.7%	.0%	.0%	46.6%
	Count	23	35	23	13	14	8	116
Total	% within Age_Group	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

LEUKOPLKIA * Gender Crosstabulation

		•	Gender		Total	
			Male	Female	Male	
Leukoplkia		Count	31	4	35	
	Yes	% within Gender	29.5%	36.4%	30.2%	
		Count	105	11	116	
Total		% within Gender	100.0%	100.0%	100.0%	

LEUKOPLKIA * Age_Group Crosstabulation

			Age_Group					Total
		20-29	30-39	40-49	50-59	60-69	70=>	20-29
Leukoplkia	Count	5	9	7	5	8	1	35
Yes		21.7%	25.7%	,	38.5%	-	12.5%	30.2%
	Count	23	35	23	13	14	8	116
Total	% within Age_Group	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

DISCUSSION

In our study,30.2% of the subjects were diagnosed with leukoplakiawhich was similar to the study conducted by Faiz SM et al [6] Ambedkar et al. and Mishra et al. in which 45.5%, 37.8 % and 41.6% patients were respectively diagnosed with Leukoplakia[7,8]. 46.6% were diagnosed with OSMF which was similar to the study conducted by Faiz SM et al. in which 32.5% of the subjects were diagnosed with OSMF. A number of studies have reported it to be dominant premalignant type reporting in 30.4% to 88.1% of premalignant lesions[9-11]. When we talk about SCC 31% of the patients were diagnosed positively. In all the 3 lesions we can also observe that there was male predominance which was similar to the study conducted by Faiz. SM et al in which the male:female ratio was 1.7:1.

CONCLUSION

Thus, we can conclude that OSMF was the most predominant lesion followed by SCC and Leukoplakia. We need to educate patients about the habit of tobacco consumption and also conduct screening tests on a more wider scale so that the conversion of premalignant lesions into SCC can be prevented. This however was a short term study and more such studies need to be conducted.

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