

# **Dental Research and Management**

Research Article ISSN: 2572-6978

# Oral Cancer Awareness among Auxiliary Personnel of Dental College in Bhopal City, India

Binu Santha<sup>1\*</sup>, Vrinda S<sup>2</sup>, Manish Jain<sup>3</sup>, Vidhatri Tiwari<sup>4</sup>

#### Abstract

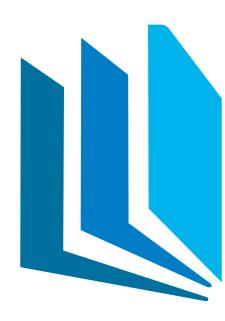
Background: Oral cancer prevalence is high globally. Dental auxiliary staff who work aside the dentist is the first to come in contact with service seeker. Hence awareness regarding oral cancer in consequences is an essential modality in these personnel's. Methodology: This study was conducted to evaluate the awareness among dental auxiliary staff about oral cancer of two dental colleges of Bhopal city. Sampling frame included the dental auxiliary staff from the two dental colleges. A structured questionnaire was used for collection of data. The collected data were coded, and a statistical analysis was carried out by using Statistical Package of Social Science (SPSS 20). Result: In this study, it was observed 52% females were aware of examining patients mouth during admission. 50% Females advice to examined tissues of cheek, tongue and palate while assessing oral cancer. 52.1% females opinion of risk factor for oral cancer would be tobacco chewing, tobacco smoking, having alcohol and spicy food. Conclusion: The study conducted among dental auxiliary staff to assess the awareness regarding oral cancer which will help in early diagnosis of disease and prevent any further complication.

**Keywords:** Oral cancer; Dental auxiliaries; Risk factors; Oral cavity; Dental colleges; Knowledge

# Introduction

Oral cancer or mouth cancer a type of head &neck cancer is a cancerous tissue growth located in the oral cavity. It may arise as a primary lesion originating in any of the tissue in the mouth, by metastasis from a distant site of origin or by extension from a neighboring anatomic structure, such as the nasal cavity. There are several types of oral cancer, but around 90% are squamous cell carcinoma, originating in the tissue that line the mouth & lips, oral or mouth cancer most commonly involves the tongue. It may also occur on the floor of the mouth, cheek lining, gingiva, lips or palate. The signs and symptoms of oral cancer normally occurring on the tongue, lip or other mouth areas include usually small swellings, most often pale colored, may be dark or discolored. Early sign may be a white patch (leukoplakia) or a red patch (erythroplakia) on the soft tissue of the mouth .Usually painless initially. May develop a burning sensation or pain when the tumor is advanced .Behind the wisdom tooth & even behind the ear. Additionally symptoms that may be associated with this disease include tongue problems .Swallowing difficulty, mouth sores pain and paraesthsia are late symptoms.

Risk factor that predispose a person to oral cancer have been identified in epidemiological studies India being member of international cancer genome consortium is leading efforts to map oral cancer complete genome .It is important to note that around 75% of oral cancer are linked to modifiable behavior such as tobacco use and excessive alcohol consumption Other factors include poor oral hygiene, irritation caused by ill-fitting dentures and other rough surface on the teeth, poor nutrition, some chronic infections caused by bacteria or viruses . If oral cancer is diagnosed in its earliest stages treatment is generally very effective. In India where such practices are common, oral cancer represents up to 40% of all cancers, compared to just 4% in the UK [1]. India continues to reports the highest prevalence of cancer globally with 75,000 to 80,000 new cases of such cancer reported every year. In India, tobacco alone responsible for 1.5 lakhs cancer, 4.2 million heart disease, 3.7million lung disease. The country is the oral cancer capital of the world because of rampant habit of chewing. The health ministry owns statics shows that over 65% of cancer in



#### Affiliation:

<sup>1</sup>Public Health Dentistry, Rotorua, New Zealand

<sup>2</sup>Professor, Head of the Department, Department of Public Health Dentistry, People's Dental Academy, People's University, Bhopal, MP, India

<sup>3</sup>Reader and Head, Department of Public Health Dentistry, SMBT Institute of dental Sciences and research Centre, Nasik India

<sup>4</sup>Reader, Department of Public Health Dentistry, Manasarovar Dental College, Bhopal, MP, India

# \*Corresponding author:

Binu Santha, Public Health Dentistry, Rotorua, New Zealand, Tel: +64 22 0366326 E-mail: binusantha@gmail.com

**Citation:** Santha B, Vrinda S, Jain M, Tiwari V (2017) Oral Cancer Awareness among Auxiliary Personnel of Dental College in Bhopal City, India. Dent Res Mang. 2: 46-51

Received: Sep 22, 2017 Accepted: Oct 16, 2017 Published: Oct 23, 2017

Copyright: © 2017 Santha B, et al. This is an open-access article distributed under the terms of the Creative Commons Attribution License, which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited.



India can be attributed to tobacco use another set of data suggest of annual 5.6 million deaths in India. As many as 2,500 people die every day due to tobacco related disease in India [2].

A dental auxiliary is a person who is given responsibility by a dentist so that he or she can help the dentist render dental care, but who is not himself or herself qualified with a dental degree. The duties undertaken by dental ancillaries range from simple tasks such as sorting instrument to relatively complex procedures which form part of the treatment of patients. So it is necessary to aware dental auxiliary staff about oral cancer and its consequences [3]. Hence the study was conducted to assess the awareness of oral cancer among auxiliaries employed in dental institutes.

# Aim

To assess awareness of oral cancer among dental auxiliaries staff.

# Methodology

This study was conducted to evaluate the awareness among dental auxiliary staff about oral cancer of Bhopal city.

Source of Data were the two dental college of Bhopal city. Sampling frame included the dental auxiliary staff from the two dental colleges and sample design was convenience sampling.

Ethical clearance was taken from the People's Dental Academy, Bhopal. Permissions for conducting this study was taken from the respective department of each college.

# Inclusion criteria

- 1. Subject including dental auxiliary staff of two dental colleges.
- 2. Subjects present on the day of the survey were nurses, hygienist, and technicians.

# Exclusion criteria:

1. Subjects absent on the day of survey

2. Subjects who were not interested in survey.

A structured questionnaire was used for collection of data which will include the following variables:

- (a) Examining a patient mouth on admission
- (b) Tissue examining for assessing oral health
- (c) Changes within mouth associated with oral cancer
- (d) Awareness among risk factor
- (e) Diagnosis of oral cancer from clinical appearance
- (f) Advice given to suspected patient
- (g) Oral health knowledge and attitudes,
- (h) Training regarding oral health care

The questionnaires were completed by the subjects themselves. The questionnaire was originally formulated in English.

The collected data were coded, and a statistical analysis was carried out by using Microsoft Excel 2003 and Statistical Package of Social Science (SPSS 20). Description and analysis of the data was carried out by frequency distributions (Table 1).

# Result

The frequency distribution of importance of examining patients mouth on admission In this females had a better awareness regarding importance of examining patients mouth during admission (52.1%) females were aware compared to males (39.6%). Among the Females, (50%) advised the examination of tissues of cheek, tongue and palate while assessing oral cancer and (33.3%) males had same opinion. 31.2% females had opinion that changes in the oral cavity like non healing ulcer, white patches and mobility of tooth has association with oral cancer and 21.9% males responded the same way..

On evaluating the opinion regarding risk factor for oral cancer 52.1% females suggested that it could be due to tobacco chewing,

Gender	Awareness regarding Importar	nce of examining patient	s's mouth during admission	Chi-Square Degree of Freedom X <sup>2</sup> =0.499 Df=1	P Value
Gender	Yes n(%)	No n(%)	Total N(%)	Degree of Freedom	
Male	19 [39.6%]	1 [2.1%]	20 [41.7%]	V2-0 400 Df-1	D=0.400
Female	25 [52.1%]	3 [6.2%]	28 [58.3%]	X-=0.499 DI=1	P=0.480

Table 1(A): Frequency distribution of the importance of examining patient's mouth on admission according to gender among the study subjects.

Candar		Tissues exami	ned during oral cancer		Chi-square degree of freedom Pvalue			
Gender	Cheek n(%)	n(%) Tongue n(%) All of the above n(%) Total N(%)		Cni-square degree of freedom	Pvalue			
Male	3 (6.2%)	1 (2.1%)	16 (33.3%)	20 (41.7%)	X <sup>2</sup> =0.823 Df=2	P=0.663		
Female	2 (4.2%)	2 (4.2%)	24 (50%)	28 (58.3%)				

Table 1(B): Frequency distribution of examining the tissues involved in oral cancer according to gender among study subject.

		Change asso	ociate with oral can	cer			
Gender	Non healing ulcer n (%)	White patches n(%)	All of the above n(%)	Others n(%)	Total N(%)	Chi –square value	P value
Male	4 (8.3%)	4 (8.3%)	11 (22.9%)	1 (2.1%)	20 (41.7%)	X <sup>2</sup> =1.123 Df=3	P value=0.772
Female	8 (16.7%)	3 (6.2%)	15 (31.2%)	2 (4.2%)	28 (58.3%)	X=1.123 DI=3	

Table 1(C): Frequency distribution of changes within mouth associate with oral cancer according to gender among study subjects.



	Awaren	ess regarding risk fa	actora for oral canc	er	Chi -square	
Gender	Tobacco chewing n(%)	Spicy food n(%)	All n(%)	Total N(%)	Degree of freedom	P value
Male	4 (8.3%)	0 (0.0%)	16 (33.3%)	20 (41.7%)	X <sup>2</sup> =2.375 Df=2	P value=0.305
Female	2 (4.2%)	1 (2.1%)	25 (52.1%)	28 (58.3%)	X-=2.375 DI=2	P value=0.305

Table 1(D): Frequency distribution of risk factors for oral cancer according to gender among study subjects.

Gender	Advice to patient re	garding risk factors	Chi-square	P value
	Yes n(%)	Total N(%)	Degree of freedom	P value
Male	20 (41.7%)	20 (41.7%)	V2=0.407.Df=2	D=0.017
Female	28 (58.3%)	28 (58.3%)	X <sup>2</sup> =0.487 Df=2	P=0.817

Table 1(E): Frequency distribution regarding the advice to patient about risk factor for oral cancer according to gender among study subjects.

Candar	Awar		Chi -square	P value			
Gender	Very confident n(%)	Confident n(%)	Confident n(%) Unsure n(%) Very unsure n(%) Total N(%) Degree of freedom				
Male	1 (2.1%)	8 (16.7%)	10 (20.8%)	1 (2.1%)	20 (41.7%)	X <sup>2</sup> =0.547 Df=3	P=0.908
Female	1 (2.1%)	11 (22.9%)	13 (27.1%)	3 (6.2%)	28 (58.3%)	X=0.547 DI=3	P=0.906

Table 1(F): Frequency distribution regarding the diagnosing oral cancer from clinical appearance according to gender among study subjects.

	Awarene	ss regarding patient's refer	ral for oral cance	r	Chi –square	
Gender	Plastic surgery n(%)	Oral &maxillofacial n(%) Other n(%) Total N(%) Degree of freedom		P value		
Male	1 (2.1%)	19 (39.6%)	0 (0.0%)	20 (41.7%)	X <sup>2</sup> =2.106 df=2	P=0.349
Female	3 (6.2%)	23 (47.9%)	2 (4.2%)	28 (58.3%)	X=2.100 ul=2	P=0.349

Table 1(G): Frequency distribution regarding patient referral for oral cancer according to gender among study subjects.

Gender	Awareness re	egarding knowledge fo	r oral cancer	Chi -square	Divolue	
	Yes n(%)	No n(%)	Total N(%)	Degree of freedom	P value	
Male	11 (22.9%)	9 (18.8%)	20 (41.7%)	X <sup>2</sup> =1.160 Df=1	P=0.281	
Female	11 (22.9%)	17 (35.4%)	28 (58.3%)	X=1.100 DI=1	P=0.201	

Table 1(H): Frequency distribution of knowledge regarding for oral cancer according to gender among study subjects.

Condor	Training	g received for oral hea	Ith care	Chi -square	Dyalua
Gender	Yes n(%)	No n(%)	Total N(%)	Degree of freedom	P value
Male	12 (25%)	8 (16.7%)	20 (41.7%)	X <sup>2</sup> =1.371 Df=1	D=0.242
Female	12 (25%)	16 (33.3%)	28 (58.3%)	X-=1.371 DI=1	P=0.242

Table 1 (I): Frequency distribution of any training received for oral health care according to gender among study subjects.

Gandar		Further training	for oral cancer		Chi -square	P value
Gender	None n(%)	Yes n(%)	No n(%)	Total N(%)	Degree of freedom	P value
Male	0 (0.0%)	17 (35.4%)	3 (6.2%)	20 (41.7%)	X <sup>2</sup> =2.374 Df=2	P=0.305
Female	3 (6.2%)	22 (45.8%)	3 (6.2%)	28 (58.3%)	X=2.374 DI=2	

Table 1(J): Frequency distribution of further training for oral cancer according to gender among Study subjects.

tobacco smoking, having alcohol and spicy food and 33.3% males had the same response. 58.3% of the females advised to the patient regarding risk factor for oral cancer and 41.7% of the males had the same advice. Among total female participants, 27.1% females were unsure of the diagnoses of oral cancer from clinical appearance while 20.8% males had same view. On evaluating the factors suspected for oral cancer, 47.9% female referred a patient to oral and maxillofacial department for prevention while 39.6% males had same opinion. 35.4% females felt that they had sufficient knowledge about prevention and detection of oral cancer and 22.9% males felt that they had no sufficient knowledge. 33.3% females received training regarding oral health care previously whereas 25% males had not received any training. 45.8% females liked to get further training regarding oral cancer and 35.4% males had same opinion. None of these values will found to be statistically significant.

The frequency distribution of importance of examining patient's mouth on admission was analyses. In this nurses (35.4%), technician (45.8%), hygienist (4.2%), chair side assistant (4.2%), camp coordinator (2.1%) were aware of examining patient's mouth during admission. Nurses (35.4%), technician (37.5%), hygienist (4.2%), and chair side assistant (4.2%), camp coordinator (2.1%) advised to examine tissues of cheek, tongue and palate while assessing oral cancer. On evaluating the association with oral cancer nurses (20.8%), technician (27.1%), hygienist (4.2%), camp coordinator (2.1%) showed that non healing ulcer, white patches, mobility of tooth changes takes place within mouth whereas chair side assistant (4.2%) showed that non healing ulcer is only change that takes place within mouth. In opinion of nurses (37.5%), technician (37.5%), hygienist (4.2%), chair side assistant (4.2%), camp coordinator (2.1%) risk factor for oral cancer were



tobacco chewing, tobacco smoking, having alcohol and spicy food. The Nurses (41.7%), technician (47.9%), hygienist (4.2%), chair side assistant (4.2%), camp coordinator (2.1%) advised to patients regarding risk factor for oral cancer. Nurses (18.8%), hygienist (4.2%), camp coordinator (2.1%), chair side assistant (2.1%) were unsure on diagnosed oral cancer from clinical appearance whereas technician (22.9%) were confident on diagnosed it. Nurses (33.3%), technician (43.8%), hygienist (4.2%), camp coordinator (2.1%), chair side assistant (4.2%) referred a patient to oral and maxillofacial department when there was a uncertainty about

Oral cancer. Nurses (27.1%), technician (18.82%), hygienist (4.2%), chair side assistant (4.2%) felt that they had not sufficient knowledge about prevention and detection of oral cancer and camp coordinator (2.1%) felt that they had sufficient knowledge. Nurses (20.8%), hygienist (2.1%), chair side assistant had not received any training regarding oral health care previously whereas technician (25%), camp coordinator (2.1%) had received training previously. The nurse (33.3%), technician (37.5%), hygienist (4.2%), and chair side assistant (4.2%), camp coordinator (2.1%) liked to get further training regarding oral cancer. None of these values will found to be statistically sufficient (Table 2).

Occupation	Awareness regarding	Importance of exam during admission	ining patient's mouth	Chi-Square Degree of Freedom	P Value
	Yes n(%)	No n(%)	Total N(%)		
Nurse	17 (35.4%)	3 (6.2%)	20 (41.7%)		
Technician	22 (45.8%)	1 (2.1%)	23 (47.9%)	X <sup>2</sup> =2.096 Df=4	P=0.718
Hygienist	2 (4.2%)	0 (0.0%)	2 (4.2%)	X=2.090 DI=4	P=0.716
Chair side assistant	2 (4.2%)	0 (0.0%)	2 (4.2%)		
Camp coordinator	1 (2.1%)	0 (0.0%)	1 (2.1%)		

Table 2(A): Frequency distribution of the importance of examining patient's mouth on admission according to occupation among the study subjects.

		Tissues examin	ed during oral cancer		Chi-square degree	Dyalua
occupation	Cheek n(%)	Tongue n(%)	All of the above n(%)	Total N(%)	of freedom	P value
Nurse	1 (2.1%)	2 (4.2%)	17 (35.7%)	20 (41.7%)		P=0.914
Technician	4 (8.3%)	1 (2.1%)	18 (37.5%)	23 (47.9%)		
Hygienist	0 (0%)	0 (0%)	2 (4.2%)	2 (4.2%)	X <sup>2</sup> =3.298 Df=8	
Chair side assistant	0 (0%)	0 (0%)	2 (4.2%)	2 (4.2%)		
Camp coordinator	0 (0%)	0 (0%)	1 (2.1%)	1 (2.1%)		

Table 2(B): Frequency distribution of examining the tissues involved in oral cancer according to occupation among study subject.

Occupation	Change associate with oral cancer						
	Non healing ulcer n(%)	White patches n(%)	All of the above n(%)	Others n(%)	Total N(%)	degree of freedom	P value
Nurse	5 (10.4%)	3 (6.2%)	10 (20.8%)	2 (4.2%)	20 (41.7%)	X <sup>2</sup> =9.434 Df=12	P=0.665
Technician	5 (10.4%)	4 (8.3%)	13 (27.1%)	1 (2.1%)	23 (47.9%)		
Hygienist	0 (0%)	0 (0%)	2 (4.2%)	0 (0%)	2 (4.2%)		
Chair side assistant	2 (4.2%)	0 (0%)	0 (0%)	0 (0%)	2 (4.2%)	DI=12	
Camp coordinator	0 (0%)	0 (0%)	1 (2.1%)	0 (0%)	1 (2.1%)		

Table 2(C): Frequency distribution of changes within mouthassociate with oral cancer according to occupation among study subjects.

Occupation	Awareness	Chi-square degree	Dyalua			
	Tobacco chewing n(%)	Spicy food n(%)	All n(%)	Total N(%)	of freedom	P value
Nurse	1(2.1%)	1 (2.1%)	18 (37.5%)	20 (41.7%)		
Technician	5 (10.4%)	0 (0%)	18 (37.5%)	23 (47.9%)		P=0.778
Hygienist	0 (0%)	0 (0%)	2 (4.2%)	2 (4.2%)	X <sup>2</sup> =4.807 Df=8	
Chair side assistant	0 (0%)	0 (0%)	2 (4.2%)	2 (4.2%)		
Camp coordinator	0 (0%)	0 (0%)	1 (2.1%)	1(2.1%)		

Table 2(D): Frequency distribution of risk factors for oral cancer according to occupation among study subjects.

Occupation	Advice to patient r	egarding risk factors	Chi aguara dagraa of freedom	Divolue
Occupation	Yes n (%)	Total N (%)	Chi-square degree of freedom	P value
Nurse	20 (41.7%)	20 (41.7%)		
Technician	23 (47.9%)	23 (47.9%)		
Hygienist	2 (4.2%)	2 (4.2%)	X <sup>2</sup> =3.719 Df=8	P=0.558
Chair side assistant	2 (4.2%)	2 (4.2%)		
Camp coordinator	1 (2.1%)	1(2.1%)		

Table 2(E): Frequency distribution regarding the advice to patient about risk factor for oral cancer according to occupation among study subjects.



Occupation	Awareness regarding clinical appearance of oral cancer						
	Very confident n(%)	Confident n(%)	Unsure n(%)	Very unsure n(%)	Total N(%)	degree of freedom	Pvalue
Nurse	1 (2.1%)	8 16.7%)	9 (18.8%)	2 (4.2%)	20 (41.7%)		
Technician	1 (2.1%)	11 (22.9%)	10 (20.8%)	1 (2.1%)	23 (47.9%)	\\\\^2 \\ \\ \\\^2 \\\ \\ \\ \\\ \\\ \\\	
Hygienist	0 (0%)	0 (0%)	2 (4.2%)	0 (0%)	2 (4.2%)	X <sup>2</sup> =9.370 Df=12	P=0.671
Chair side assistant	0 (0%)	0 (0%)	1 (2.1%)	1 (2.1%)	2 (4.2%)	DI-12	
Camp coordinator	0 (0%)	0 (0%)	1 (2.1%)	0 (0%)	1 (2.1%)		

Table 2(F): Frequency distribution regarding the diagnosing oral cancer from clinical appearance according to occupation among study subjects.

Occupation	Awareness	Chi-square degree of	D			
	Plastic surgery n(%)	Oral &maxillofacial n(%)	Other n(%)	Total N(%)	freedom	Pvalue
Nurse	2 (4.2%)	16 (33.3%)	2(4.2%)	20 (41.7%)	X2=3 543	P=0.896
Technician	2 (4.2%)	21 (43.8%)	0 (0%)	23 (47.9%)_		
Hygienist	0 0%)	2 (4.2%)	0 (0%)	2 (4.2%)		
Chair side assistant	0 (0%)	2 (4.2%)	0 (0%)	2 (4.2%)		
Camp coordinator	0 (0%)	1 (2.1%)	0 (0%)	1 (2.1%)		

Table 2(G): Frequency distribution regarding patient referral for oral cancer according to occupation among study subjects.

Occupation	Awareness re	garding knowledge fo	Chi-square degree of	Dyalua	
	Yes n(%)	No n(%)	Total N(%)	freedom	Pvalue
Nurse	7 (14.6%)	13 (27.1%)	20 (41.7%)		P=0.107
Technician	14 (29.2%)	9 (18.8%)	23 (47.9%)	X <sup>2</sup> =7.606 Df=4	
Hygienist	0 (0%)	2 (4.2%)	2 (4.2%)		
Chair side assistant	0 (0%)	2 (4.2%)	2 (4.2%)		
Camp coordinator	1 (2.1%)	0 (0%)	1 (2.1%)		

Table 2(H): Frequency distribution of knowledge regarding for oral cancer according to occupation among study subjects.

0 4!	Training	g received for oral hea	Chi-square degree of	Pvalue		
Occupation	Yes n(%)	No n(%)	%) Total N(%) freedom			
Nurse	10 (20.8%)	10 (20.8%)	20 (41.7%)		P=0.551	
Technician	12 (25%)	11 (22.9%)	23 (47.9%)	X <sup>2</sup> =3.043 Df=4		
Hygienist	1 (2.1%)	1 (2.1%)	2 (4.2%)			
Chair side assistant	0 (0%)	2 (4.2%)	2 (4.2%)			
Camp coordinator	1 (2.1%)	0 (0%)	1 (2.1%)			

Table 2(I): Frequency distribution of any training received for oral health care according to occupation among study subjects.

Occupation		Further training for oral cancer				Desales
	None n(%)	Yes n(%)	No n (%)	Total N(%)	freedom	Pvalue
Nurse	2 (4.2%)	16 (33.3%)	2 (4.2%)	20 (41.7%)	X²=2.306 Df=8	P=0.970
Technician	1 (2.1%)	18 (37.5%)	4 (8.3%)	23 (47.9%)		
Hygienist	0 (0%)	2 (4.2%)	0 (0%)	2 (4.2%)		
Chair side assistant	0 (0%)	2 (4.2%)	0 (0%)	2 (4.2%)		
Camp coordinator	0 (0%)	1 (2.1%)	0 (0%)	1 (2.1%)		

Table 2(J): Frequency distribution of further training for oral cancer according to occupation among Study subjects.

# Discussion

The present study was conducted among the dental auxiliaries associated with a dental college of Bhopal City, India.

In this study, it was observed that 52.1%females had awareness regarding importance of examining patients mouth on admission compared with 39.6% males. This was similar to study conducted by McCaan MF in their study in which 58% of respondents reported examining regularly for oral cancer [4].

50% females examining cheek, tongue, palate involved in oral cancer compared with 33.3% males. This was similar to study

conducted by LM Carter in their study 74% of females examining tongue [5].

52.1% females had awareness regarding risk factors for oral cancer compared with 33.3% males. This was similar to study conducted by Chukwu SO in their study 52% of respondents had awareness regarding risk factors for oral cancer [6].

31.2% females said non healing ulcer, white patches, mobility of tooth are changes associate with oral cancer as compared with 22.9%males. This was similar to study conducted by Chukwu SO in their study 78% of study subjects knew changes associated with oral cancer [6].

45.8% female's wants further training regarding oral cancer compared with 35.4% males. This was similar to study conducted by LM Carter in their study 74% requested for further training [7].

35.4% nurses had awareness regarding importance of examining patients mouth on admission . This was similar to study conducted by LM Carter in their study in which 49% performed this task regularly [5].

35.7% nurses examining cheek, tongue, palate involved in oral cancer. This was similar to study conducted by LM Carter in their study 74% of nurses examining tongue [5].

37.5% nurses had awareness regarding risk factors for oral cancer. This was similar to study conducted by S Turner in their study 25.7% of auxiliaries had awareness regarding risk factors for oral cancer [8].

20.8% nurses said non healing ulcer, white patches; mobility of tooth is changes associate with oral cancer. This was similar to study conducted by LM Carter their study 25% nurses identified oral cancer changes [5].

33.3% nurses want further training regarding oral cancer. This was similar to study conducted by LM Carter in their study 74% nurses requested for further training [5].

#### Conclusion

The study conducted among dental auxiliary staff to assess the

awareness regarding oral cancer which will help in early diagnosis of disease and prevent any further complication. The study revealed an appreciable awareness among auxiliary staff of dental college and they had very promising positive attitude towards continuing educational program regarding oral cancer.

#### Reference

- Neville BW, Damm DD, Allen CM, Bouquot JE. Oral and maxillofacial Pathology (2<sup>nd</sup> edtn). Philadelphia: WBSaunders, USA, Pp: 337-353.
- T, Altieri A, Chatenoud L ,Rodriguez T, et al. Risk factors for oral and pharyngeal cancer in young adults (2014) Oral Oncol 40: 207-213.
- S. Dental manpower and dental auxiliary personnel: Essentials
  of preventive and community dentistry (2003) Oral oncology
  3: 626-627.
- 4. LM, Harris AT, Kavi VP. Oral cancer awareness amongst hospital nursing staff: A pilot study (2009) BMC Oral Health 9: 1-8.
- LM, Ogden GR. Oral cancer awareness of general medical and general dental practitioners (2007) British Dental Journal 203: 1-5.
- McCann MF, Macpherson LM, Binnie VI, Stephen KW. A survey of scottish primary care dental practitioners' oral cancer-related practices and training requirements (2000) Community Dental Health 17: 24-30.
- Chukwu SO. Knowledge of risk factors for oral cancer among adult lowans (2013) lowa research online.
- Turner S, Tripathee S, Macgillivray S. The risk and benefits of direct access (2014) BDJ.