



# Awareness about Mouth Cancer in Biotechnology Students



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## Abstract

Uncontrolled division of cells causes cancer. Mouth cancer is caused by many factors and the major causes of mouth cancer are Tobacco use, heavy alcohol use and infection by HPV (Human Papillomavirus). Another factor of mouth cancer is UV-light which can cause lip cancer. Some factors are genetic factors. If genetic instability occurs in Keratinocytes then cancer is developed. The main reason of mouth cancer is Tobacco, cigarettes. Questioners about awareness of mouth cancer were solved by biotechnology students. Total 38 students performed to solve this questioner. The responses of these questions were analyzed. Total 32 females and 6 males solved the questioner. And by studying the questioner it was concluded that 73.68% students agreed that mouth cancer is a viral disease and 34.21% agreed that mouth cancer is genetic disease, 68.4% students agreed that mouth cancer transfer from parents to offspring's and 31.5% students agreed that this disease is curable. So few students were fully aware few were not aware about mouth cancer. And the objective of this study is to aware biotechnology students about mouth cancer in Bahauddin Zakariya University Multan.

**Keywords:** Mouth cancer; Tobacco; Papiloma virus; Awareness; Treatment; Cavity

## Introduction

Cluster of abnormal cells form cancer. Mouth cancer occurs due to continuous loss of skin, mucous membrane or oral mucosa. Mouth cancer includes cancer of larynx, throat, lips, nose and salivary glands. Causes of mouth cancer are Tobacco use, heavy alcohol use and infection by HPV (Human Papillomavirus) [1]. Cancer is a preventable disease. Its occurrence in peoples over 50 years is most common [2]. If genetic instability occurs in Keratinocytes then cancer is developed. Mostly Tongue, floor of mouth cavity and lower lips are affected, and then surgery, chemotherapy and radiotherapy

are used for treatment of mouth cancer [3]. The basic purpose of this study was to determine the awareness of biotechnology students about mouth cancer.

## Methods

A questioner is prepared and solved from different students of biotechnology and views of different students were collected, and inclusion criteria was students of postgraduate and exclusion criteria was students was not of BS level (Table 1).

**Table 1:** Questionnaire to evaluate awareness about etiology of

Mouth cancer	Yes	No
Mouth cancer is a		
Viral disease		
Bacterial disease		

Fungal disease		
Genetic disease		
Metabolic disease		
<b>Ever suffered from Mouth cancer</b>		
You		
Your family		
Your relative		
Your neighbor		
Your friend		
<b>Mouth cancer is transmitted by</b>		
Contacts or blood transfusion		
From parents to offspring		
<b>Mouth cancer may be treated by</b>		
Medicines		
Surgery		
Do not worry, it is easily curable		

## Results and Discussion

Awareness about etiology of mouth cancer in biotechnology students showed that in Table 1 33.3% of the male students agreed that mouth cancer is a viral disease and 66.6% male students agreed that mouth cancer is not a viral disease and 81.25% female students agreed that mouth cancer is a viral disease and 18.75% of female students disagreed that mouth cancer is a viral disease totally out

of 38 students 73.68% of the students agreed that mouth cancer is a viral disease and 26.31% students agreed that mouth cancer is not a viral disease. And according to questioner 33.3% male and 43.75% of female agreed that mouth cancer is a bacterial disease and 66.6% male and 56.25% female students agreed with that mouth cancer is not a bacterial disease. And 33.3% male and 37.5% female students agreed that mouth cancer is a fungal disease, and 66.6% male and 59.37% female students agreed with that mouth cancer is not a fungal disease. And 16.6% male and 37.5% female students agreed that mouth cancer is a genetic disease and 83.3% male and 62.5% female students agreed with that mouth cancer is not a genetic disease and 33.3% male and 28.1% female students agreed with that mouth cancer is a metabolic disease and 66.6% male and 62.5% female students agreed that mouth cancer is not a metabolic disease.

When studying the awareness of these students in relation to them about mouth cancer, in their family, relatives and in their friends then table 2 showed that 0% male and 0% female suffered from disease and 100% male and female both not suffered from that moth cancer and both male and female showed that their family never suffered from that disease and showed that their relatives never suffered from that disease and 16.67% male and 3.12% students showed that their neighbors suffered from that mouth cancer and 83.3% male and 96.8% female students showed

that their neighbors not suffered from mouth cancer, and all male and female students showed that their friends never suffered from that mouth cancer.

When knowing about the knowledge of biotechnology students about awareness of mouth cancer in table 3 0% male and 25% female students agreed that mouth cancer can be transmitted by blood transfusion and 100% male and 75% female students agreed that mouth cancer can be transmitted by blood transfusion and 16.67% male and 34.4% female students agreed that mouth cancer transfer from parents to offspring's and 83.3% male and 65.6% female students agreed with that mouth cancer cannot transfer from parents to offspring's.

The awareness of biotechnology students about treatment of mouth cancer showed that in table 4 83.3% male and 93.7% female students agreed that mouth cancer can be treated by medicines and 16.67% male and 6.25% female students agreed that mouth cancer cannot be treated by medicines and 83.3% male and 84.3% female students agreed with that mouth cancer can be treated by surgery and 16.67% male and 15.6% female students agreed with that mouth cancer cannot be treated by mouth cancer and 50% male and 28.1% female students agreed with that mouth cancer can be cured easily and 50% male and 72.8% female students agreed with that mouth cancer cannot be easily cured (Table 2-5).

**Table 2:** Awareness about etiology of Mouth cancer: Views of Postgraduate Biology Students.

Questions	Male		Female		Total	
	Yes	No	Yes	No	Yes	No
Viral disease	33.30%	66.60%	81.25%	18.75%	73.68%	26.31%
Bacterial disease	33.30%	66.60%	43.75%	56.25%	42.10%	57.80%
Fungal disease	33.30%	66.60%	37.50%	59.37%	36.80%	63.15%
Genetic disease	16.60%	83.30%	37.50%	62.50%	34.21%	65.70%
Metabolic disease	33.30%	66.60%	28.10%	62.50%	34.21%	63.10%

**Table 3:** Awareness about etiology of Mouth cancer: Views of Postgraduate Biology Students.

Questions	Male		Female		Total	
	Yes	No	Yes	No	Yes	No
<b>Ever suffered from Mouth cancer</b>						
You	0%	100%	0%	100%	0%	100%
Your family	0%	100%	0%	100%	0%	100%
Your relative	0%	100%	0%	100%	0%	100%
Your neighbor	16.67%	83.30%	3.12%	96.80%	5.26%	94.70%
Your friend	0%	100%	0%	100%	0%	100%

**Table 4:** Awareness about etiology of Mouth cancer: Views of Postgraduate Biology Students

Questions	Male		Female		Total	
	Yes	No	Yes	No	Yes	No
<b>Mouth cancer is transmitted by</b>						
Contacts or blood transfusion	0%	100%	25%	75%	21%	78.90%
From parents to offspring	16.67%	83.30%	34.30%	65.60%	31.50%	68.40%

**Table 5:** Awareness about etiology of Mouth cancer: Views of Postgraduate Biology Students.

Questions	Male		Female		Total	
	Yes	No	Yes	No	Yes	No
<b>Mouth cancer may be treated by</b>						
Medicines	83.30%	16.67%	93.70%	6.25%	92%	7.89%
Surgery	83.30%	16.67%	84.30%	15.60%	84.20%	15.70%
Do not worry, it is easily curable	50%	50%	28.10%	72.80%	31.50%	68.40%

Same type of work about awareness of mouth cancer was conducted in different countries like Saudi Arabia, Oman in Dentists [4].

### Conclusion

It is concluded from this study that biotechnology students about awareness of mouth cancer that few students were aware few were not aware about mouth cancer.

### References

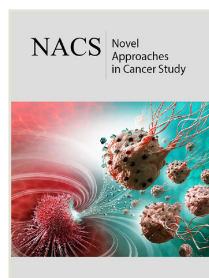
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