## Study Protocol

### Assessment of Knowledge, Attitude and Practice of rural population of Wardha district

### regarding oral cancer- A study protocol

#### **ABSTRACT**

**Background:** Oral cancer is one of the easily diagnosed cancer as compared to the cancers of other parts of the body as the mouth iseasily accessible for self or clinical examination. But it is frequently diagnosed in advanced stage as the population lack theknowledge about the causes and signs & symptoms of oral cancer. Though many studies are there describing this issue, scanty literature is available relevant to knowledge, attitude and practice regarding oral cancer especially in rural areas which needs attention.

Aim: To assess knowledge, attitude and practice of rural population of Wardha district regarding Oral cancer

**Methodology:** This questionnaire based prospective study will include 1000 subjects who will be able to read and understand the questionnaire. Self-administered questionnaire prepared in local language (Marathi / Hindi) of the rural population of Wardha district will be administered. Questionnaire will be comprised of two parts. First part request demographic information and the second section contain 18 questions regarding knowledge, attitude and practice regarding Oral cancer. All the questionnaire responses will be recorded in tabular format and subjected to statistical analysis.

**Expected Results:** In rural India, there are majority of the people, still having minimal knowledge regarding oral cancer and its causes marking a high percentage when compared to the urban. Thus, this study will be an attempt to evaluate the awareness and access the knowledge of the rural public regarding oral cancer.

**Conclusion:** The knowledge about the risk factors, sign and symptoms of oral cancer amongst the rural population can be useful for the prevention and early diagnosis of oral cancer, and thus reducing the oral cancer burden of the society.

Key words: attitude, knowledge, oral cancer, practice, rural

#### INTRODUCTION

Oral cancer is one of the most fatal health problems faced bymankind today. There is a variation in the incidence of oral cancer in different regions of the world and has one of the highest incidences in Indiaconstituting around 12% of all cancers in men and 8% of all cancers among women<sup>1</sup>. The possible reasons for high frequency oforal cancer in India could be cultural, ethnic, geographic factors and the popularity of addictive habits amongst Indians.<sup>2</sup> Moreover, in India, the extremely popular use of the smokeless tobacco product called gutkha, renders its population and especially the youth to a greater risk of developing oral precancer and cancer in younger population.<sup>1</sup>

Despite recent advances in the detection and treatment of oral cancer, visual accessibility of the oral mucosa and the scientific knowledge on cancer risk factors, oral cancer

carries a lowsurvival rate (50%)Earlier diagnosis can greatly increase the patient's chances of survival as themouth is very accessible for a clinical or selfexamination.<sup>3</sup>

Oral cancer is one of the easily diagnosed diseases as compared to the other cancers developing in the body as the mouth iseasily accessible for self or clinical examination but it is frequently diagnosed inadvanced stages. One of the reasons for this may be the lack of information about the causes and knowledge of signs and symptoms of oral canceramong the population. Moreover, most of the oral cancers are preventable if people knowwhich risk factors they must control or eliminate. In rural India, there are majority of the people, still having minimal knowledge regarding oral cancer and its causes marking a high percentage when compared to the urban. Thus, this study will be an attempt to evaluate the awareness and access the knowledge of the rural public regarding oral cancer with the help of a question naire and to educate them.

There are many surveys undertaken in the private andgovernment dental and medical colleges to evaluate thepatient's knowledge on specific problems but veryminimalsurveys have been taken place in the rural areas whichneeds attention.<sup>3,4</sup>

The present study will be undertaken with following aims and objectives.

#### **AIM**

To assessknowledge, attitude and practice of rural population of Wardha district regarding Oral cancer

#### **OBJECTIVES**

- 1. To assess awareness of oralcancer in rural population
- 2. To assess the knowledge about early signs and symptoms of oral cancer
- 3. To evaluate knowledge about risk factors of oral cancer in rural population

#### MATERIALS AND METHODS

The study will be conducted after obtaining approval from Institutional Ethics Committee of Datta Meghe Institute of Medical Sciences University, Sawangi (M), Wardha.

**Type of study:** Prospective

Study design: Questionnaire-based

**Study population and Sample size:** One thousand subjects visiting to the outdoor patient department (OPD) of Oral Medicine & Radiology for seeking dental treatment and ready participate in the study.

#### **Inclusion criteria**:

- Patients reporting to dental hospital for routine dental check up, above the age of 18 years and willing to participate in the study voluntarily.
- Participant should have at least primary education and should be able to read and understand the questionnaire.

#### **Exclusioncriteria**:

• Individuals who are diagnosed with oral cancer at any point of their lifetime.

#### **Proposed Intervention:**

Self- administered questionnaire prepared in the local language (Marathi / Hindi) of the rural population of Wardha district will be given to randomly selected participants. A modified version of previously published questionnaires in the format of multiple choice questions will be used. <sup>3, 5</sup>Questionnaire will be comprised of two parts. First part request demographic information and the second section contain 18 questionsregarding awareness, knowledge, risk factors and patient's assumption of oral cancer. These 18 questions are subdividedinto general awareness questions, questions related to signs and symptoms and questions regarding knowledge about risk factors of oral cancer.

#### **Data Collection Procedure:**

All the questionnaire responses will be recorded in tabular format.

## QUESTIONNAIRE TO BE COMPLETED BY THE PARTICIPANT

### **Oral Medicine and Radiology**

## Survey on attitude, knowledge and practice of the rural population of

Wardha district regarding oral cancer		
Case no:	Date:	
Name of participant-		
Age: Gender: M F	10	
Address:		
Phone number:		
Education		
Occupation		Approx. income / year
Habit history:Type of habit - tol	pacco/smoking/alcohol/	snuff
Duration:	Frequency	
Please tick the correct responses (Yes/ No) to the following:		
Questions on knowledge, attit	ude and practice abou	t oral cancer
1) Have you heard about oral ca	ıncer?	
a) Yes b	o) No	
2) Do you think that the oral car	ncer spreads from perso	on to person through touching?
a) Yes	b) No	c) Don't Know

3) Do you think that the oral cancer spreads by sharing clothes & utensils of patient suffering			
from oral cancer?			
a) Yes b) No c) Don't Know			
4) Is the prevention of oral cancer possible?			
a) Yes b) No c) Don't Know			
5Do you think oral cancer is curable?			
a) Yes b) No c) Don't Know			
6) Has any of your family members died or suffering from oral cancer?			
a) Yes b) No			
7) Have you come across anyone suffering from oral cancer?			
a) Yes b) No			
8) ) If yes, what was your reaction when you saw him/her first?			
a) Got scared b) behaved normal c) Tried to avoid			
9) Being the general public, what should we do to help patients suffering from cancer?			
a)Get required treatment the prt them & get friendly			
Questions on the knowledge about signs -symptoms of oral cancer			
10)Oral cancer can occur as under.			
a) Growth b) Non healing ulcer			
c) White or red patch d) All of these			
11) Oral cancer may cause loosening and exfoliation of teeth.			
a)Yes b) No			
12) Oral cancer is usually painless.			
a)Yes b) No			
13) Oral cancer may cause neck swelling.			
a) Yes b) No			

# Questions about the knowledge about risk factors of oral cancer 14) What do you think is the cause of oral cancer? a) Adverse habits b) Hereditary d) Sexual spread e) Blood transfusion 15)Does the risk of oral cancer increase with age? a) Yes 16) Do you think this survey has created awareness in you regarding oral cancer? a) Yes 17) Do you regularly visit the dentist? a) Yes b) No 18) Do you think that, you should visit to a dentist as early as possible if you notice any abnormality in mouth? a) Yes b) No

#### Plan of analysis:

The collected data will be analyzed by using following tests:

- a. Chi-SquareTest
- b. Student-t Test

The final conclusion will be drawn to exploreattitude, knowledge and practice about oral cancer amongst the rural population of Wardha district.

#### DISCUSSION

Lack of public awareness has also been considered to be a potent barrier for early detection of cancer. The educational measures like a better awareness, knowledge about signs and associated risk factors of oral cancer amongst the rural population can be useful for the prevention and early diagnosis of oral cancer, and thus reducing the oral cancer burden on the society.

The results of the study by Shah SP, Praveen BN (2014) revealed uncertainty and ignorance of the rural population regarding the etiology of oral cancer. Thus, they have suggested conduction of public education programmes to make the people aware about the root cause of the disease.<sup>6</sup>

Similarly, Gopal KS, Duraiselvi P (2014) also noted a lack of public knowledge and need for more structured awareness programs. They have mentioned about the importance of regular oral examination among the people.<sup>7</sup>

Nimma VL et al (2016) reported non satisfaction regarding the awareness of south Indian population regarding oral cancer. <sup>8</sup> However, in their study 79.6% of people think that cancer is preventable.

Despite the fact that oral cancer consequences can be, prevented, treated, and controlled, there exists a significant gap in the Indian public's knowledge, attitudes, and behaviors. Efforts must be made to bridge this gap between research, development and public awareness.

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