P-ISSN: 2617-9806 E-ISSN: 2617-9814



Impact Factor: RJIF 5.2 www.nursingjournal.net

International Journal of Advance Research in Nursing

Volume 5; Issue 1; Jan-Jun 2022; Page No. 233-236

Received: 16-02-2022
Accepted: 05-04-2022
Peer Reviewed Journal

A study to find out the association between quality of life of oral cancer patients with selected demographic and clinical variables

Nirupama Roy¹ and Dr. Shabana Anjum²

¹Ph.D Nursing Scholar, Madhya Pradesh Medical Science University, Jabalpur Institute of Medical Sciences, Jabalpur, Madhya Pradesh, India

²Principal, Jabalpur Institute of Medical Sciences, Jabalpur, Madhya Pradesh, India

DOI: https://doi.org/10.33545/nursing.2022.v5.i1.D.255

Abstract

Oral cancer and its treatment have substantial effect on patients' quality of life. Less is kwon about the association between quality of life of oral cancer patients with clinical and demographic profiles.

Aim: Aim of the present study was to find out the association between quality of life of cancer patients with selected demographic and clinical variables.

Methodology: A descriptive survey design was adopted to collect the background information along with the quality of life from the 40 adult oral cancer patients attending the oncology units of a tertiary care hospital. A Hindi version of FACT-H&T (version 4) scale was used for assessing the quality of life.

Result: In this study, majority of subjects (32.5%) belong to age group (31-40) years and (51 – 60) years, out of them, (85%) were man. Most of the respondents (27%) found to chew tobacco for maximum period of (11-15) years. The most common site of oral cancer was carcinoma tongue15 (37.5%) and carcinoma buccal mucosa17 (42.5%). Majority 15(37.5%) of the subjects had a disease duration of (0-5 months). Surgery was performed only in 10 (25%) subjects and in rest 30 (75%) were treated conservatively. 4 (40%) Hemiglossectomy was the most commonly performed surgery in this study. Metastasis was seen in only 4 (10%) subjects. 14 (35%) of subjects received radiotherapy and 38 (95%) received chemotherapy as their treatment. The most used drugs were carboplatin 19 (50%), cisplatin 18 (47.4%), and paclitaxel 16 (42.1%). Chronic diseases were seen only in 4 (10%) of subjects. Majority 23(57.5%) of the subjects were in cancer Stage II. There was significant association between radiotherapy and FACT-H&N total score (χ 2 value =9.428, df=2) and rest of demographic and clinical variables were not found significant.

Conclusion: Majority of study population had habit of tobacco consumption and low literacy level. More research needs for public awareness on this context. The quality of life of oral cancer patient were badly affected and had an average score range.

Keywords: Quality of life, FACT-H&T scale, surgery, radiotherapy, chemotherapy, cancer stage, metastasis

Introduction

Cancer is the main health issue in the community across the world. Globally, cancer is one of the most common causes for morbidity and mortality. The results from GLOBOCAN (2012) showed that 14.1 million new patients were diagnosed with cancer and 8.2 million deaths were due to cancer. This is projected to rise by at least 70% by 2030 [1]. The cancer patients experience a variety of symptoms. Inadequate management of symptoms might hamper the performance of the daily activities of an individual. The treatment of symptoms will help relieve the suffering and

As per The Global Cancer Observatory, March 2021 ^[3], Indian cancer statistic shows: Number of new cases in 2020, both sexes, all ages Lip, oral cavity 135 929 (10.3%), Number of new cases in 2020, males, all ages Lip, oral cavity 104 661 (16.2%).

improve the quality of life (QOL) [2].

In recent years the quality of life of patients is very important in monitoring the treatment and therapeutic procedure success. It has become a significant factor in

assessing the therapeutic procedure accomplishment and for the first time the patient alone can access the success of the respective therapy [4].

Methodology

Non-experimental descriptive survey approach was used to fulfil the purpose. The data were collected from 40 adult oral cancer patients attending the oncology units of medical college hospital during May 2022. Non probability purposive sampling technique used to collect relevant data. A structure interview done to collect on background information and quality of life. Functional Assessment of Cancer Therapy – Head & Neck {FACT- H&N (version 4)} [5] a standardized tool used to assess the quality of life of oral cancer patient.

Results and Discussions

Section I: Distribution of subjects according to demographic variables.

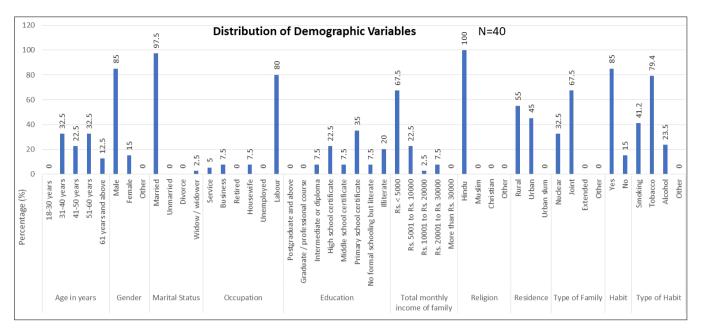


Fig 1: Distribution of Demographic N=40

The above bar diagram shows majority of the subjects (32.5%) were in the age group 31-40 years and 51-60 years. Male predominance was seen in oral cancers with 34 (85%). Majority of the subjects 39 (97.5%) were married. Maximum of respondents 32 (80%) were belong to labour group.

The above data showed the majority 14(35%) of the respondents were poorly educated with primary level. Majority 27 (67.5%) of the subjects had a total monthly family income of less than Rs. 5000.

All the patients belonged to Hindu religion (100%). 22 (55%) patients were from rural areas and 18 (45%) were

from urban areas. Slightly higher prevalence of patients from rural areas was seen in the present study. Most 27 (67.5%) of the subjects were from joint family.

Out of 34 subjects with habits, 27 (79.4%) using tobacco and 14 (41.2%) were smoking as their most common habits. Large part 14 (41.2%) of the subjects were continuing their habits for 11-15 years. Of these majority 15 (44.1%) subjects had stopped their habit since last 1-6 months.

Section II: Distribution of subjects according to clinical variables.

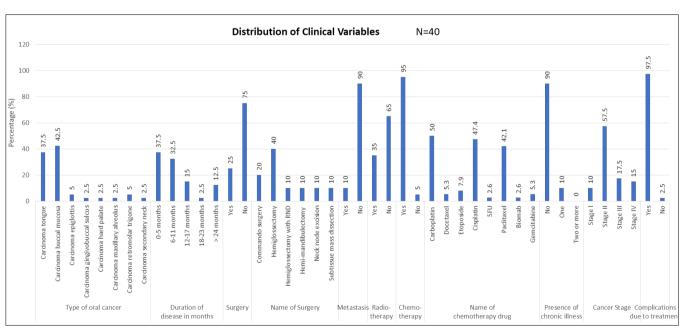


Fig 2: Distribution of Clinical Variables N=40

The above bar diagram shows the distribution of patients according to clinical profile.

The most common site of oral cancer was carcinoma tongue15 (37.5%) and carcinoma buccal mucosa17 (42.5%).

Majority 15(37.5%) of the subjects had a disease duration of (0-5 months).

Surgery was performed only in 10 (25%) subjects and in rest 30 (75%) were treated conservatively. 4 (40%)

Hemiglossectomy was the most commonly performed surgery in this study. Metastasis was seen in only 4 (10%) subjects. 14 (35%) of subjects received radiotherapy and 38 (95%) received chemotherapy as their treatment.

Of the 38 subjects who received chemotherapy, the most used drugs were carboplatin 19 (50%), cisplatin 18 (47.4%), and paclitaxel 16 (42.1%).

Chronic diseases were seen only in 4 (10%) of subjects. Majority 23(57.5%) of the subjects were in cancer Stage II. 39 (97.5%) subjects experienced complications due to

treatment and only 1 (2.5%) patient had no treatment related complications. Many of the patients suffered from multiple treatment related complications. Pain was seen as major complication cover 15 (38.5%) subjects.

Section III: Association of FACT- H&N total score with selected demographic and clinical variables. (FACT-H&N total score= PWB score + SWB Score + EWB Score + FWB Score + HNCS Score).

Table 1: Association between demographic variables and Fact-H&N Total Score (Fact-H&N)

S. No.	Demographic Variable	Fact-H&N Total Score (Fact-H&N)			21 46	Table sales		
		Poor	Average	Good	χ2 value, df	Table value		
			_					
	18-30 years	0	0	0	4.803, df=6	12.59, NS		
1.	31-40 years	4	8	1				
1.	41-50 years	1	7	1				
	51-60 years	6	7	0				
	61 years and above	1	4	0				
	Gender							
2.	Male	10	22	2	0.382, df=2	5.99, NS		
۷.	Female	2	4	0				
	Other	0	0	0				
	Occupation							
	Service	1	1	0		12.59, NS		
	Business	1	2	0	2.991, df=6			
3.	Retired	0	0	0				
	Housewife	2	1	0				
	Unemployed	0	0	0				
	Labour	8	22	2				
	Total monthly income of the family							
	Rs. < 5000	9	16	2		12.59, NS		
4.	Rs. 5001 to Rs. 10000	2	7	0	2.108, df=6			
4.	Rs. 10001 to Rs. 20000	0	1	0				
	Rs. 20001 to Rs. 30000	1	2	0				
	More than Rs. 30000	0	0	0				
	Type of family							
	Nuclear	3	9	1	0.640, df=2	5.99, NS		
5.	Joint	9	17	1				
	Extended	0	0	0				
	Other	0	0	0				
	Habit							
6.	Yes	10	22	2	0.382, df=2	5.99, NS		
	No	2	4	0	0.302, u1-2			

Data presented in the above chi square table indicate there was no significant association between age, gender,

occupation, total monthly family income, type of family and habit with FACT-H&N total score.

Table 2: Association between clinical variables and Fact-H&N Total Score (Fact-H&N) (N=40)

S. No.	Clinical Profile	Fact-H&N Total Score (Fact-H&N)			v2 volue df	Table value		
		Poor	Average	Good	χ2 value, df	i able value		
1.	Metastasis							
	Yes	1	2	1				
	res				3.746, df=2	5.99, NS		
	No	11	24	1				
	Radiotherapy							
2.	Yes	7	5	2	9.428, df=2	5.99, Sig		
	No	5	21	0				
3.	Chemotherapy							
	Yes	11	25	2	0.459, df=2	5.99, NS		
	No	1	1	0				
4.	Surgery							
	Yes	2	7	1	1.162, df=2	5.99, NS		

	No	10	19	1				
	Presence of chronic diseases							
5.	No	10	25	1	5.242, df=2	5.99, NS		
	One	2	1	1				
	Two or more	0	0	0				
6.	Cancer stage							
	Stage I	0	4	0	4.672, df=6	12.59, NS		
	Stage II	8	14	1				
	Stage III	2	5	0				
	Stage IV	2	3	1				
	Complications due to treatment							
7.								
	Yes	12	25	2	0.552, df=2	5.99, NS		
	No	0	1	0				

Data presented in the above chi square table indicate there was significant association between radiotherapy and FACT-H&N total score and rest of clinical variables were not found significant.

Limitations

- Since it was a pilot project with a small sample of oral cancer patients, the association between quality of life and most of demographic and clinical variables were not found statistically significant.
- Only radiotherapy was significantly associated with the quality of life of oral cancer patients.

Conclusion

Oral cancer has unlimited impact in term of quality of life for the clients and their families. Timely appropriate treatment can reduce the suffering. The cancer management strategies to improve the quality of life must be emphasized. Majority of study population had habit of tobacco consumption and low literacy level. More research needs for public awareness on this context. The quality of life of oral cancer patient were badly affected and had an average score range. There was a strong association between radiotherapy with the quality of life of oral cancer patients.

References

- 1. Ferlay J, Soerjomataram I, Dikshit R, Eser S, Mathers C, Rebelo M. Cancer incidence and mortality worldwide: Sources, methods and major patterns in Globocan 2012. Int J Cancer. 2015;136:E359-86.
- 2. Paleri A, Kumar S, Thankam K. Manual for Palliative Care, 2005. [Google Scholar]
- 3. World Health Organization. International Agencies for Research on Cancer. The Global Cancer Observatory; 2021 Mar. Available from: https://gco.iarc.fr/today
- 4. Birim O, Bogers AJ, Kappetein AP. Cost effectiveness of coronary revascularisation. Euro Intervention. 2010;5(7):763-7.
- 5. https://www.facit.org/measures/FACT-HN.