



## ASSESSMENT OF PATIENT CONTENTMENT FOR ESTHETICS, COMFORT, MASTICATION & RETENTION FOR REMOVABLE PARTIAL DENTURE: RETROSPECTIVE STUDY

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**ABSTRACT** **BACKGROUND:** Teeth loss becomes increasingly common in elderly population and the effective demand for prosthetic care increases, as the patients want to restore the oral health function, esthetics and mastication. However the main drawback of acrylic resin are lack of adaptability and stability, poor esthetics, post insertion problems, unsatisfactory transverse and impact strength<sup>1,2,3</sup>

**AIM:** The aim and objective of the study was to evaluate the patient's satisfaction regarding esthetics, comfort, retention and function

**MATERIAL AND METHODS:** The present study was conducted in the department of prosthodontics. For the present study 100 patients were assessed and the patients were explained in detail about the questionnaire and were asked to fill the questionnaire when they reported to the department. The acceptance of denture was marked as excellent, good, regular and bad

**RESULTS:** After evaluating the questionnaire it was found most of the patients were giving excellent results regarding function esthetics, mastication and retention, while few of the patients were giving bad reviews.

**CONCLUSION:** It was found that treatment of majority of patients with good mental attitude was found excellent and only few cases were not happy with the prosthesis

**KEYWORDS :** Acrylic denture, Retention, Esthetics, Comfort, Mastication

### INTRODUCTION:

Teeth loss becomes increasingly common in elderly population and the effective demand for prosthetic care increases, as the patients want to restore the oral health function, esthetics and mastication. There are multiple treatment option available to rehabilitate the oral cavity with missing teeth like removable partial denture, cast partial denture, fixed dental prosthesis, implants, over denture, implant supported over denture.<sup>3,4,5</sup>

The treatment option depends upon the remaining teeth present, condition of oral cavity and also economical condition of the patient. Though every treatment has its own pros and cons but the goal of the prosthodontist is to maximize the benefits of the treatment option. Partially edentulous patients who wear acrylic partial denture have the advantage of economic prosthesis, color stability, However the main drawback of acrylic resin are lack of adaptability and stability, poor esthetics, post insertion problems, unsatisfactory transverse and impact strength

### MATERIAL AND METHODS

In the present study 100 patients were contacted who agreed to fill up the questionnaire. The study was explained to the patients in detail so that they could fill up the questionnaire accordingly. The age group undertaken for the study was from 20-60 years. Both male and female patient were included in the study. Patients with fixed dental prosthesis in one of the arches were excluded from the study. On the day of follow up, the patient was asked to fill up the questionnaire. The patient was asked to mark the acceptance of the removable partial denture as excellent, good, regular and bad. The acceptance of the removable partial denture was marked on the basis of comfort, esthetics, and function. After filling the questionnaire, the patients submitted them to the operator<sup>6</sup> The data was compiled and statistical analysis was done using SPSS software. Student "T" test and Chi Square Test was done for checking the significance of the data. The statistical significance was predefined at  $P < 0.05$

### RESULT:

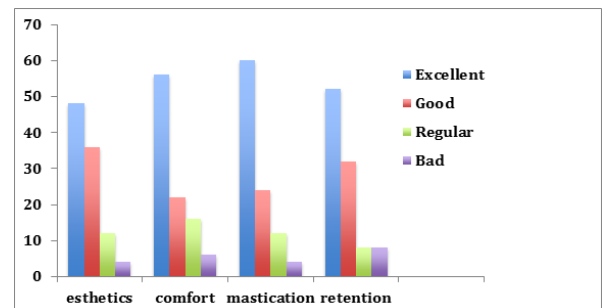
The data obtained was evaluated for comfort, esthetics, mastication, and retention. In the present study comfort, esthetics, mastication, retention was marked excellent by about 56, 48, and 60, 52 patients respectively

In the present study comfort, esthetics, mastication, retention was marked bad by about 6, 4, 4, 8 patients respectively. The result analyzed was found statistically significant  $P < 0.05$

**Table 1: Assessment of Esthetics, Comfort, Mastication and Retention**

Prognosis	Esthetics	Comfort	Mastication	Retention	P- Value
Excellent	48	56	60	52	0.001
Good	36	22	24	32	
Regular	12	16	12	8	
Bad	4	6	4	8	
Total	100	100	100	100	

**Table -2: Showing assessment of Esthetics, Comfort, Mastication and Retention in tabulated form**



### DISCUSSION

In the present study we evaluated the prognosis of the removable partial denture after 5 years and we found that majority of the patient reported excellent experience with the denture. The patients were highly satisfied with the esthetics, comfort, mastication, and retention of removable partial denture. The results obtained were analyzed and the data was compiled using SPSS software chi square test and paired t test was done to find the significance of the results. The data analyzed was found to be statically significant.

Shalaks et al<sup>7</sup> examined the patient satisfaction with partial denture for esthetics, comfort, retention and other features. In that study 63 patients were examined and following data was collected denture design, Kennedys classification, denture support and success of removable prosthesis. The data showed 73 % first time partial denture wearer were satisfied, 100 % were happy with denture support

Knezovic zlataric D et al<sup>8</sup> examined patient satisfaction in economically weak patients, his study was concerned in parameters regarding cleaning and wearing of removable partial denture. More

than 200 patients participated in his study and it was found that and grading of removable prosthesis satisfaction was done from level one to level 5. The results showed most of the patients were happy with the prosthesis

Bihan H et al<sup>9</sup> evaluated the type of removable prosthetic denture and investigated its influence on the patient. 99 patients were examined out of which 44 males and 55 females. The patients were asked to fill the questionnaire regarding the complications faced by the problems by wearing removable partial denture. It was found that certain correction are to be done in the teeth, centric relation or relining of the denture. Considering his study it was found that loss of vertical, ulceration, discomfort all lead to patient discomfort

Zlataric DK et al<sup>10</sup> examined patient satisfaction in economically weak patients, his study was concerned in parameters regarding cleaning and wearing of removable partial denture, patient speech, aesthetics, comfort. A total of 165 patients participated in his study and a questionnaire devised for the purpose was divided in three main parts

First part was concerning age, gender, sex, race, educational status, socio- economic status, period of tooth loss etc. in the second part the patients graded denture on the basis of experience from scale of 1 to 5.

In the third part Kennedy's classification, denture design, material and support were evaluated. Data of all the parameters was analyzed. Majority of patients were found happy with the prosthesis and only few patients were not satisfied with the prosthesis.

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