

A Retrospective Study on Assessment of Patient Satisfaction for Comfort, Mastication, Esthetics, & Retention for Removable Partial Denture

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ABSTRACT

Background: Now a day's Teeth loss becomes more and more common in elderly population and the successful demand for prosthetic care increases, as the patients want to reinstate the oral health function, esthetics and mastication. On the other hand the main downside of acrylic resin is lack of adaptability and stability, poor esthetics, post insertion problems, unsatisfactory transverse and impact strength.

Material and Methods: This study was conducted in the department of prosthodontics. For this study we enroll 100 patients the patients were explained about the questionnaire and were asked to fill the questionnaire when they reported to the department. The acceptance of denture was manifest as excellent, good, regular and bad.

Results: After evaluate the questionnaire we found most of the patients were giving excellent results regarding function esthetics, mastication and retention, while few were giving bad reviews.

Conclusion: We concluded that treatment of majority of patients with good mental attitude was found excellent and only few cases were not happy with the prosthesis.

Keywords: Esthetics, comfort, mastication, acrylic denture.

INTRODUCTION

Now a day's Teeth loss becomes more and more common in elderly population and the successful demand for prosthetic care increases, as the patients want to reinstate the oral health function, esthetics and mastication^{1, 2}. There are several 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^{3,4,5}. 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 this study 100 patients were contacted who agreed to fill up the questionnaire. The study was

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explained to the patients in detail so that they could fill up the questionnaire. The age group 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 operator⁶. 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 $P < 0.05$

RESULTS

The data obtained was assessed for comfort, esthetics, mastication, and retention. In this 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
EXCELLENT	48	56	60	52
GOOD	36	22	24	32
REGULAR	12	16	12	08
BAD	4	06	04	08
TOTAL	100	100	100	100

DISCUSSION

In this study we evaluated the prognosis of the removable partial denture after 5 years and we found that bulk of the patient reported excellent experience with the denture. The patients were highly pleased 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 al⁷ 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, Kennedy's 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 al⁸ 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 evaluated the type of removable prosthetic denture and investigated its influence on the patient⁹. 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, Zlataric DK et al examined patient satisfaction in economically weak patients, his study was concerned in parameters regarding cleaning and wearing of removable partial denture, patient speech, aesthetics, Comfort¹⁰. A total of 165 patients participated in his study and a 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.

CONCLUSION

We concluded that treatment of majority of patients with good mental attitude was found excellent and only few cases were not happy with the prosthesis.

CONFLICTS OF INTEREST

The authors declare they have no potential conflict of interests regarding this article.

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