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Analysis of satisfaction level regarding fixed partial denture: A clinical study

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Abstract

Background: Fixed partial denture is commonly used in missing few teeth. For patient's satisfaction esthetics, performance, and function has to be restored. This study was conducted to analyze patient satisfaction with fixed partial denture.

Materials & Methods: This study was conducted on 1050 patients. All patients were asked to answer 20 close- ended questions that assess the patient's perceptions of clinical outcome regarding esthetics, masticatory efficiency, speech, the comfort of the FPD and the importance of oral hygiene measure and the ease and practice of cleaning.

Results: Out of 1050 patients, males were 550 and females were 500. The difference was non-significant ($P > 0.05$). 65% had FPD since 0-4 years, 20% had 4-7% and 10% had > 10 years and 5% had 7-10 years. 80.5% were satisfied with treatment while 19.5% were unsatisfied. The difference was significant ($P < 0.05$). 85% were satisfied while 15% were unsatisfied. The difference was significant ($P < 0.05$). 60% were satisfied with their esthetics while 40% were unsatisfied. The difference was significant ($P < 0.05$).

Conclusion: Patient satisfaction depends on esthetics and function. Patients were more satisfied with FPD.

Keywords: Esthetics, fixed partial denture, Satisfaction

Introduction

Dentists insert either removable denture or fixed partial denture in replacing missing teeth. In recent years, implants have become the treatment of choice. Fixed partial dentures (FPDs) have been the treatment of choice for the replacement of missing teeth for some years. However for the satisfaction of patients, FPD should fulfill all requirements^[1] The success of any treatment depends upon factors such as function, esthetics, masticatory ability etc. Strength of FPD also matters. It should be in occlusion and there should not be any high point of occlusal interference.

Factors which affects patients satisfaction includes, dental diseases as well as edentulism. They may be expected by others to be socially less competent and have less intellectual achievement. For patient's satisfaction esthetics, performance, and function has to be restored which gets affected by dental problems. Few studied shows the factors affecting patient satisfaction in terms of FPD^[2]

Studies have shown that patient have high expectation just before starting of treatment. It is well explained that after getting partial prosthesis in the form of FPD, the function is restored partly but patient expects that they should have dentition equivalent to the natural teeth^[3] Reports on satisfaction with implant- supported prostheses among edentulous patients have been both strongly positive and more equivocal. Studies of satisfaction among partial denture patients have largely focused on those treated with removable partial dentures, although there are some reports on patient groups treated by a variety of prosthodontic means^[4]. This study was conducted to analyze patient satisfaction with fixed partial denture.

Materials & Methods

This study was conducted in the department of Prosthodontics. It included 1050 patients of both genders. All were informed regarding the study and written consent was obtained. Ethical clearance was taken from institutional ethical committee.

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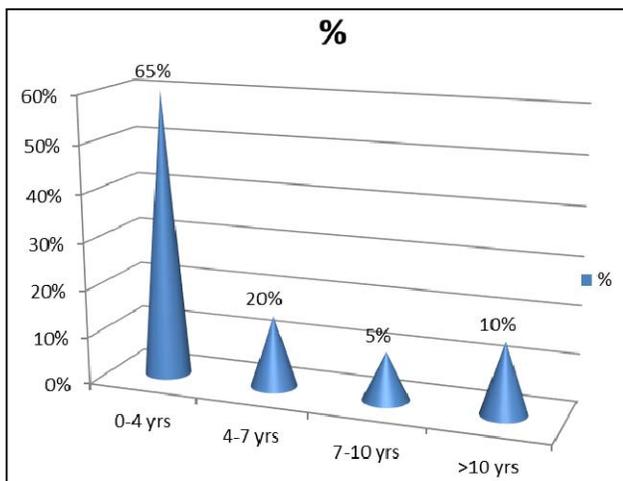
General information such as name, age, gender etc was recorded. All were provided with a questionnaire consisted of 20 close-ended questions that assess the patient’s perceptions of clinical outcome regarding esthetics, masticatory efficiency, speech, the comfort of the FPD. All were instructed to answer accordingly. Results thus obtained were subjected to statistical analysis. P value < 0.05 was considered significant.

Results

Table I: Distribution of patients

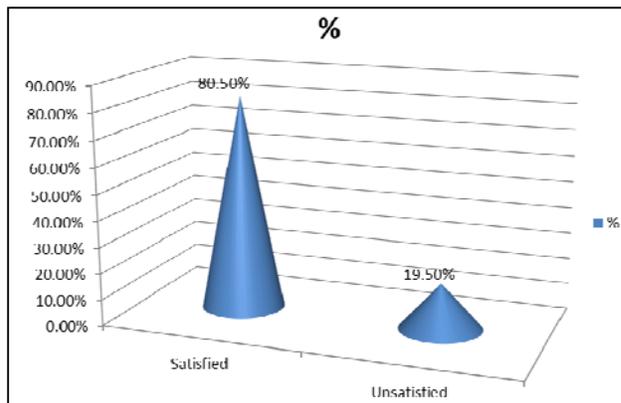
Total - 1050		
Male	Female	P value
550	500	1

Table I shows that out of 1050 patients, males were 550 and females were 500. The difference was non-significant (P= 1).



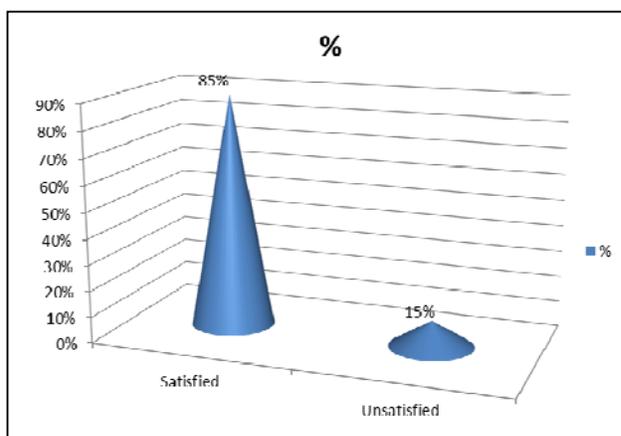
Graph I: Period of wearing FPD

Graph I shows that 65% had FPD since 0-4 years, 20% had 4-7 years and 10% had > 10 years and 5% had 7-10 years. The difference was significant (P< 0.05).



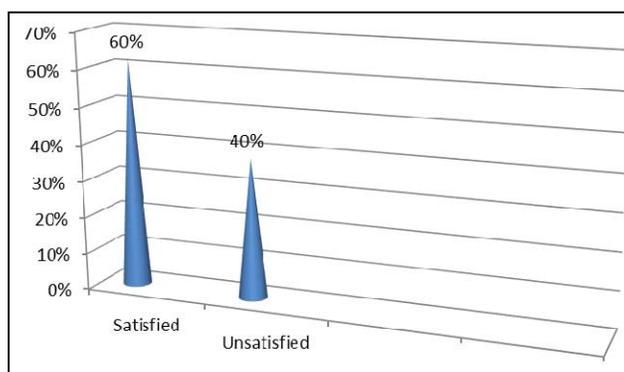
Graph II: Satisfaction of patients

Graph II shows that 80.5% were satisfied with treatment while 19.5% were unsatisfied. The difference was significant (P< 0.05).



Graph III: Satisfaction in terms of functioning

Graph III shows that 85% were satisfied while 15% were unsatisfied. The difference was significant (P< 0.05).



Graph IV: Satisfaction in terms of esthetics

Graph IV shows that 60% were satisfied with their esthetics while 40% were unsatisfied. The difference was significant (P< 0.05).

Discussion

Patient concerns are mainly related to function, comfort, and esthetics, especially for implant fixed prosthesis. Patients seek dental treatment with aim of rehabilitation and improvement of oral health and functions. At the same time, dental

treatment also aims for the complete patient satisfaction. Patients with FPD look for function, esthetics, longevity of the prosthesis [5] This study was conducted to evaluate patient satisfaction with fixed partial denture.

In this study we included 1050 patients received FPD in the year. In this study, males were 550 and females were 500. We found that 65% had FPD since 0-4 years, 20% had 4-7% and 10% had > 10 years and 5% had 7-10 years. This is in agreement with Napankangas R *et al* [6]

In this study we assessed the satisfaction level of patients regarding performance of FPD. We found that 80.5% were satisfied with treatment while 19.5% were unsatisfied. Similar results were seen in study by Oates AJ *et al* [7] We also assessed satisfaction in terms of functioning, 85% were satisfied while 15% were unsatisfied.

Evaluations of treatment outcomes by clinicians do not necessarily correspond to the patients' own judgment which included both function and psychosocial adaptation. Patient concerns are mainly related to function, comfort, and esthetics, especially for implant fixed prosthesis. Factors such as design of FPD, material used in FPD and antagonist teeth also affects the outcome of treatment and patients satisfaction [8] Tan *et al* [9]. retrospectively analyzed the satisfaction level of the patients who went oral rehabilitation by FPDs. They framed a questionnaire consisting of 15 questions based on the patients' subjective perception in relation to the FPD treatment. They assessed the patient's satisfaction levels in relation to aesthetics, mastication, speech and comfort levels. They observed that a very high levels of patient satisfaction in relation to the functional aspects of FPDs.

Fixed partial denture (FPD) is the term used for denoting the partial dentures that is cemented to the natural teeth or root thereby furnishing and providing primary prosthesis support. Healthy occlusion with longevity of several years can be achieved by FPD which transforms unhealthy poor functioning dentition into a comfortable one. Prosthesis failure in the patients rehabilitated with dental treatment can affect the periodontal health of the abutment teeth [10].

Conclusion

Patient satisfaction depends on esthetics and function. Patients were more satisfied with FPD. The ability of FPD to fulfill all functions determines the success rate.

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