

## ORIGINAL ARTICLE

### Determination of satisfaction in patients about fixed partial denture- 5 years retrospective study

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#### ABSTRACT:

**Background:** The present study evaluated patient satisfaction regarding fixed partial denture. **Materials & Methods:** 460 patients who received FPD in the last 5 years were questioned regarding esthetics, masticatory efficiency, speech, the comfort of the FPD. All were instructed to reply their response. **Results:** Out of 460 patients, males were 210 and females were 250. Male had 82% esthetic and 86% function satisfaction whereas female had 80% esthetic and 81% function satisfaction. The difference was non-significant ( $p > 0.05$ ). **Conclusion:** Authors found that most of the patients were satisfied regarding esthetics and function of fixed partial denture.

**Key words:** fixed partial denture, Satisfaction, Esthetics.

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**This article may be cited as:** MK Saritha, R Eazhil, K Deepak, R Sreedharan. Determination of satisfaction in patients about fixed partial denture- 5 years retrospective study. J Adv Med Dent Scie Res 2015;3(2):204-206.

#### INTRODUCTION

Fixed partial dentures (FPDs) have been the treatment of choice for the replacement of missing teeth for some years.<sup>1</sup> However for the satisfaction of patients, FPD should fulfill all requirements.<sup>2</sup> 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 problem. Few studied shows the factors affecting patient satisfaction in terms of FPD.<sup>3</sup> Patients with the dental disease suffer from an altered self-image. They may be expected by others to be socially less competent and have less intellectual achievement. Dento-facial problems have known effects on patient's satisfaction with their dentition as they affect esthetics, performance, and function.<sup>4</sup>

Regarding prosthodontics, the literature is almost full with studies of patient satisfaction among complete denture wearers, although with little consensus on the factors influence it. 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. In these studies, even though

patient satisfaction with treatment received was reported as high, it was lower than had been expected before the start of treatment.<sup>5</sup> The present study evaluated patient satisfaction regarding fixed partial denture.

#### MATERIALS & METHODS

The present study was conducted in the department of Prosthodontics. It comprised of 460 patients who received FPD in the last 5 years of both genders. Ethical clearance was taken from institutional ethical committee. All were informed regarding the study and written consent was obtained.

Demographic data such as name, age, gender etc was recorded. A questionnaire consisted of 20 close-ended questions regarding esthetics, masticatory efficiency, speech, the comfort of the FPD. All were instructed to reply their response. Results thus obtained were subjected to statistical analysis. P value  $< 0.05$  was considered significant.

#### DISCUSSION

Fixed partial dentures (FPDs) have been the treatment of choice for the replacement of missing teeth for some years. The dental literature has some 7000 articles on the topic of FPDs.<sup>6</sup> However, only a few number of them deal with patients' perceptions of clinical outcomes and level of satisfaction with FPD treatment.<sup>7</sup> Edentulism and dental disease have been shown to affect patients adversely. Patients with the dental

disease suffer from an altered self-image.<sup>8</sup> They may be expected by others to be socially less competent and have less intellectual achievement. Dento-facial

problems have known effects on patient's satisfaction with their dentition as they affect esthetics, performance, and function.<sup>9</sup>

**RESULTS**

**Table I Distribution of patients**

Total- 460		
Gender	Males	Females
Number	210	250

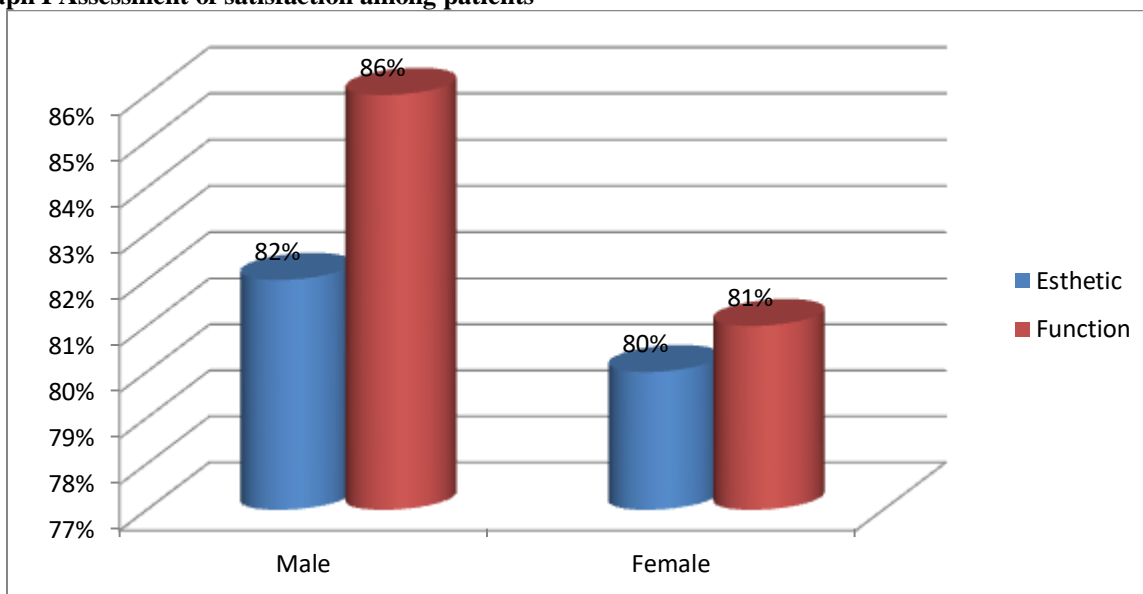
Table I shows that out of 460 patients, males were 210 and females were 250.

**Table II Assessment of satisfaction among patients**

Parameters	Esthetic	Function
Male	82%	86%
Female	80%	81%
P value	0.91	0.82

Table II, graph I shows that male had 82% esthetic and 86% function satisfaction whereas female had 80% esthetic and 81% function satisfaction. The difference was non- significant (p> 005).

**Graph I Assessment of satisfaction among patients**



The present study evaluated patient satisfaction regarding fixed partial denture.

In this study, there were 210 males and 250 females. Singh et al<sup>10</sup> conducted a study on 650 patients to 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. 52% had FPD since 0-4 years, 20% had 4-7% and 10% had > 10 years and 18% had 7-10 years. The difference was significant (P< 0.05). 74% were satisfied with treatment while 26 % were unsatisfied. The difference was significant (P<

0.05). 81% males and 87% females were satisfied regarding function of FPD. 78% males and 75% females were satisfied regarding esthetics of FPD. The difference was non- significant (P> 0.05). Author concluded that the ability of FPD to fulfill all functions determines the success rate. Patient satisfaction depends on esthetics and function

We found that male had 82% esthetic and 86% function satisfaction whereas female had 80% esthetic and 81% function satisfaction.

Balshi TJ, et al<sup>11</sup> observed that esthetic concern was the highest reason for not fulfilling the patient's expectation

by scoring 51.6%, followed by maintainability wise, comfort, masticatory and finally speech. Usually patients' complaints about the time taken by the dentist to construct their FPD, the study has showed that 76.6% of patients were satisfied. Too often, patients assume that the "permanent" crown or fixed prosthesis is just that permanent. They expected nothing more is required to maintain this condition. It is the responsibility of the dentists to inform their patients that further care is necessary to maintain the restoration and the remaining teeth.<sup>11</sup>

Hassan et al<sup>12</sup> found that one hundred and ninety-two questionnaires were filled by patients wearing fixed prosthesis; the questionnaire included the subjective perception of treatment with fixed prosthesis, patients' perception of clinical outcome, regarding esthetics, masticatory function, speech, and together patient's attitude toward oral hygiene measures. Results showed that 84% of the patients were satisfied with their fixed prosthesis, while only 46.4% of patients were satisfied with the chewing ability.

The shortcoming of the study is small sample size.

## CONCLUSION

Authors found that most of the patients were satisfied regarding esthetics and function of fixed partial denture.

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