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**Published Papers Title : Assessment of the
relation between patient attitude and patient
satisfaction with Removable partial dentures”
(Original Research article)**

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Original Research Article

Assessment of the relation between patient attitude and patient satisfaction with Removable partial dentures” (Original Research article)

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Declaration

The Declaration of the authors for publication of Research Paper in Asian Journal of Modern and Ayurvedic Medical Science (ISSN 2279-0772) Dr. Rajul Vivek 1 Dr. Ankita Singh 2 the authors of the research paper entitled “Assessment of the relation between patient attitude and patient satisfaction with Removable partial dentures” (Original Research article) declare that, We take the responsibility of the content and material of our paper as We ourself have written it and also have read the manuscript of our paper carefully. Also, We hereby give our consent to publish our paper in ajmams, This research paper is our original work and no part of it or it's similar version is published or has been sent for publication anywhere else. We authorise the Editorial Board of the Journal to modify and edit the manuscript. We also give our consent to the publisher of ajmams to own the copyright of our research paper.

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Abstract

The study was done to evaluate the factors which influence the patients satisfaction with removable partial denture and was conducted at Department of Prosthodontics, Faculty of Dental sciences IMS, BHU from November 2011 to November 2012. Sixty six patients of both genders were included. Before providing partial dentures, patient's demographics were recorded along with oral hygiene. One week after the insertion of new dentures the patients were recalled to grade their dentures. They first graded their dentures in total and then they graded separately as denture retention, stability, aesthetics, speech, and pain, communication with people, mastication and comfort. More than 50% of the patients were comfortable with their dentures. In terms of retention, stability, speech, taste, chewing and communication 50 to 81 % patients showed their satisfaction. Satisfaction rate for appearance was recorded 10 % to 50%. While 75 % subjects remained painless. 68% of subjects did not feel denture as a foreign body.

Keywords – Removable Partial Denture, Retention, Satisfaction



Introduction

Loss of teeth is one of the common problems seen in dental clinics.¹ The main causes of the tooth loss may be either dental caries or periodontal disease.² Dental caries is considered the major cause of tooth loss in younger adult, while periodontal disease which cause tooth loss over age 40 years.³ The loss of teeth adversely effect in Oral Health Related Quality of Life by affecting the speech, mastication, esthetics, teeth shifting, bone loss and bite problems.⁴ Missing teeth are replaced by fixed partial denture (FPD), implant or removable partial denture (RPD) to restore function and aesthetics.^{5,6}

Fixed partial denture improve esthetics and function but it is very destructive for tooth structure and cause gingival inflammation due to sub gingival margin of the abutments teeth, which may lead to problem with the endodontic status of the abutment tooth.^{7,8} Implant restoration improve esthetics and function and offers advantages over conventional bridges, but implant failure have been reported.^{8,9} After implant failure, some patients opt for fixed partial denture or well constructed removable partial denture.^{10,11,12} Moreover the cost of the implant is also major factor for the patients not to accept implant as feasible mode of management. Removable partial denture is useful in large partially edentulous span case which offers function and esthetics, RPD considered retentive prosthesis due to presence of clasps which have the ability to resist denture dislodgement.^{13,14, 15} Because of the higher cost of the treatment and lack of insurance for various reasons, partial dentures continue to be widely used as a treatment of choice for the replacement of missing teeth.¹⁶

The majority of patients are satisfied with their removable partial

dentures (RPD).¹⁷ However, even if RPDs are constructed according to all accepted criteria, some patients will still be dissatisfied. Satisfaction with RPDs seems to have a multi causal character.¹⁸ In addition to the factors directly related to the functioning of dentures; patient-related factors influence the final result. Satisfaction with RPDs relates in some patients primarily to comfort and the ability to masticate,¹⁹ but esthetics and retention also seem to be important.²⁰ Besides the clinician's skill and the quality of dentures, the following factors related to the patient are very important to final satisfaction with RPDs: personality, attitude toward the dentures, prior RPD experience, and motivation for wearing a denture.^{21, 22}

The patient's expectations of the dentures are related to satisfaction, which makes later adjustment to the dentures easier, regardless of the oral conditions.²³ Patients attitude toward dentures is the most important factor for patient acceptance to dentures^{24, 25, 26} and improve later adjustment of new denture. It is generally noted that patients are more satisfied with their partial denture when their age is below 60 years.⁵ A study reported that patients' dissatisfaction with removable partial denture associated with biomechanical factors of RPDs including retention, stability and ability to chewing and speaking, as well as, some of main disadvantages of removable partial dentures (e.g. risk to local damage of the remaining teeth, plaque accumulation, etc.) have a great impact on the patient satisfaction with their prosthesis. Knowledge about patient satisfaction with the treatment outcomes of their RPDs would be helpful to both clinicians and patients as they decide on prosthodontic treatment. The purpose of present study was to evaluate the factors which influence the patients satisfaction with removable partial denture.



Materials and Method

This descriptive study was conducted in Out Patient Department of Prosthodontic at Faculty of Dental Sciences, IMS, BHU, Varanasi from October 2011 to October 2012. Eighty partially edentulous patients of both genders between the ages of 20-55 years that required removable partial denture were selected through non probability purposive sampling technique. The patients with temporomandibular dysfunction syndrome and poor oral health were not considered suitable. A written informed consent was taken from all participants. A questionnaire divided into two parts was devised for the purposes of the study, and it was completed by the patients. In the first part, patient was required to answer questions on gender, age, marital status, oral hygiene and the ordinal number of dentures. In the second part the patients were recalled after one week of insertion of dentures and asked to grade partial dentures, according to the level of their

satisfaction ranging from strong dissatisfaction to strong satisfaction.

The term patient satisfaction was used in this manuscript for the level of satisfaction of denture wearer to the prosthesis (partial denture) provided to them, in terms of retention, stability, aesthetics, speech, pain, communication (with people), mastication and comfort.

Result-

There are many factors dependent on the patient, as well as on the clinician, that could have an influence on patients' satisfaction with their RPDs. The great majority of the patients were very satisfied with the treatment outcome. Status of oral hygiene, general satisfaction, frequency of retention and stability is visible in Table 1, while Table 2 shows the effects on speech, chewing, taste, comfort and appearance. Frequency of pain, foreign body feeling, ease in communication and satisfaction about cosmetics is shown in Table 3.

TABLE 1: STATUS OF ORAL HYGIENE, GENERAL SATISFACTION, FREQUENCY OF RETENTION AND STABILITY (n = 80)

Condition	Frequency	Percentage
ORAL HYGIENE		
Good	72	80
Poor	08	10
GENERAL SATISFACTION		
Strongly Dissatisfied	08	10
Dissatisfied	05	6.2
Not sure	03	3.7
Satisfied	20	25
Strongly Satisfied	40	50
RETENTION		
Strongly Dissatisfied	03	3.7



Dissatisfied	06	7.5
Not sure	08	10
Satisfied	17	21.2
Strongly Satisfied	50	62.5
STABILITY		
Strongly Dissatisfied	04	5
Dissatisfied	03	3.7
Not sure	04	5
Satisfied	50	62.5
Strongly Satisfied	19	23.8

TABLE 2: EFFECT ON SPEECH, CHEWING, TASTE, COMFORT AND APPEARANCE (n = 80)

Condition	Frequency	Percentage
SPEECH		
Strongly Dissatisfied	02	2.5
Dissatisfied	05	6.2
Satisfied	08	10
Strongly Satisfied	65	81.3
CHEWING		
Strongly Dissatisfied	03	3.8
Dissatisfied	04	5
Not sure	01	1.2
Satisfied	06	7.5
Strongly Satisfied	60	75
COMFORT		
Strongly Dissatisfied	07	8.8
Dissatisfied	10	12.5
Not sure	3	3.8
Satisfied	20	25
Strongly Satisfied	40	50
APPEARANCE		
Dissatisfied	11	13.8
Not sure	14	17.5
Satisfied	15	18.8
Strongly Satisfied	40	50



TABLE 3: FREQUENCY OF PAIN, FOREIGN BODY, COMMUNICATION (n = 80)

Condition	Frequency	Percentage
PAIN		
Dissatisfied	05	6.2
Not sure	05	6.2
Satisfied	10	12.5
Strongly Satisfied	60	75
FOREIGN BODY		
Strongly Dissatisfied	02	2.5
Dissatisfied	03	3.8
Not sure	15	18.8
Satisfied	55	68.8
Strongly Satisfied	05	6.3
COMMUNICATION		
Strongly Dissatisfied	10	12.5
Dissatisfied	10	12.5
Not sure	04	5
Satisfied	54	67.5
Strongly Satisfied	2	2.5

Discussion

Different factors may influence patient satisfaction with their dentures. Apart from psychological factors, other factors include quality of the denture bearing area, quality of the oral mucosa, influence of the surrounding muscles on denture flanges, viscosity of saliva, patient's age and ability to get used to a denture, status of abutments, status of other teeth in the mouth, relation between horizontal and vertical dimension of occlusion, hygiene habits, diet, position of patient's teeth in the mouth etc. The influence of the patient's age, gender, oral hygiene status, marital status etc on the patient's satisfaction has been examined in several studies.^{5,26} Results of this study are in agreement with similar studies on the patient's satisfaction with removable partial denture.^{5,21} With regard to the general satisfaction and the Comfort of patients, thirty-three (55%) of patients were strongly satisfied, compared to Sharafat's result.²⁸ In terms of retention

and stability fifty (62.5) of patients of this study were strongly satisfied with the retention and stability of the present study when compared with sharafat's result 86.2%.²⁸ As for speech, eating with dentures: Sixty five (81.3%), Sixty (75.0%), were strongly satisfied with these items, while in sharafat's²⁸ result 80.6% of patients were satisfied during speech, 58.2% were satisfied in chewing. For appearance, forty (50.0%) of patients of the present study were strongly satisfied, while in another result²⁸ 65.5% were satisfied with appearance. About the satisfaction with the denture as a foreign body, fifty five (68.8%) of patients were satisfied and three (5.0%) strongly satisfied, while in another study²⁸ 71.5% felt denture as a part of themselves. Fifty four (67.5 %) of patients had no communication problem, compared to other study²⁸ 62.6% found it easy to communicate with others.

Conclusion



More than fifty percent patients were strongly satisfied with their dentures. There was no significant difference for the assessed variables (general satisfaction, aesthetics, mastication, comfort, retention etc.) between patients of different age and gender but there was significant difference between the oral hygiene of patients and their satisfaction with removable dentures. As regards quality of dentures (bio-mechanically and esthetically), highest percentage of patients were satisfied with the appearance, retention and stability. They showed positive attitude toward removable partial denture.

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