CASE REPORT

Cast removable partial denture improving appearance and masticatory function - A case report.


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ABSTRACT

Dentists are disappointed after delivery of cast removable partial dentures because their patient refuses or is unable to wear the denture and the treatment is therefore deemed unsuccessful. When so many patients do not comply with treatment, it is instructive to reflect on why and how the treatment is performed. Appropriate, comprehensive treatment planning should precede and eliciting the patient's chief complaint, as well as his or her expectations of treatment before treatment planning. The case presentation provides for the practitioner to discuss the patient's expectations and to outline both favourable and unfavourable short and long term outcomes. By providing this information, the practitioner ensures that the patient is fully informed before giving consent and that he or she understands the associated benefits and risks.

Introduction

Removable partial denture is utilized to improve the aesthetic and masticatory function. It fulfils the necessary requirement of patient. Masticatory performance and bite force as the objective measurement in evaluating masticatory function. Denture patient were reported handicapped and have less masticatory performance. The demand for replacement of missing teeth is strongly related to the position of the missing teeth. Replacement of missing posterior teeth and cosmetic dental treatment in general, depends on the perception of the patient. Even in countries with highly developed dental care systems, open spaces in the premolar and molar regions are well accepted by people of all ages. However where anterior teeth are missing, the importance of restoring the spaces is self evident and reinforced by the large impact on satisfaction with esthetics where there are any unrestored spaces. Even when the patient considers the prosthesis unsatisfactory, he or she is more likely to wear the device if it replaces missing anterior teeth.
The prospect of a good esthetic result frequently motivates the patient to wear a new denture and esthetics can be more important than function for many individuals.  

A desire to enhance chewing ability is the second most frequent reason given for seeking dental treatment. Masticatory efficiency of the dentition can be determined by an objective and repeatable laboratory test that measures the amount of grinding for a predetermined number of strokes. Masticatory ability is the subjective assessment of chewing capacity, as determined by questionnaire or interview. The act of mastication is one of the most important physiological determinants governing food intake. If people feel they can chew efficiently, then their food intake is not restricted by texture or hardness. An intact masticatory apparatus can exert a positive effect on nutrition by permitting a wide selection of food items, whereas compromised dentition can have a detrimental effect by promoting adverse shifts in food ingestion patterns.

**Case Report**

A male patient aged 56 years reported to the department of Prosthodontics, Bangabandhu shekh mujib medical university, Dhaka, for the treatment of his missing teeth for four month. The patient was mixed diet consumer and demanded a restoration which improves the appearance and masticatory efficiency. On clinical examination and analysis of the mounted diagnostic models, the patient exhibit with missing both central incisors, lateral incisors, canines, right first premolars, right first and second molars and left second molar. The intra oral picture and mounted diagnosed casts showed maximum space between the edentulous space and the opposing remaining natural teeth. Diagnostic models were analyzed and were surveyed.

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**Fig 1. Pre treatment photograph.**

**Fig 2. Alignment of the metallic removable partial denture.**

**Fig 3. Intra Oral view of Insertion of the prostheses.**
resins are better than the non metallic acrylic denture. Krall and others were investigate to state that the presence of removable partial denture is an important for nutritional intake and the replacement of missing teeth could help people maintain a healthy diet. Other investigators have reported that partial tooth loss results in altered food acceptability, just as edentulism is associated with poor diet and compromised nutrition and tooth loss may cause dietary change. Moynihan and others suggested that the probable reason for failure of prosthetic rehabilitation to improve diet is that chewing ability is only one component of food choice. In the absence of dietary intervention, patients may be unaware of the need to change their diet, and those requiring dental prostheses should therefore receive dietary advice that accounts for all the factors influencing individual food choice.

Conclusion
The restoration of the partially edentulous exhibits a challenging decision making in planning the treatment without compromising the patient's needs. The technique followed in the treatment of this patient is a simple but yet effective treatment plan for providing an optimum treatment for an individual.

References