



A Study of Post Insertion Problems in Removable Partial Dentures in Kashmiri Population - A Survey Based Research

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Abstract

The aim of this study is to collect data of various post insertion problems in removable partial dentures which were examined in the department of prosthodontics in government dental college srinagar. Around 200 patients were included in the study . The various problems that could be found in removable partial dentures include pain, discomfort, inflammatory conditions, problems in speech, loose dentures, occlusal problems, difficulty in deglutition, residual ridge resorption and altered taste perception.

Keywords:- post insertion problems, loss of retention and occlusal problems, dentures.

INTRODUCTION

Removable dental prosthesis are component of prosthodontics, which denotes the branch of dentistry pertaining to restoration and maintenance of oral functions, comfort, appearance and health of the patient by replacement of missing teeth and craniofacial tissues with artificial substitute.^[1]

Fabrication of removable partial dentures is dependent on technical, biological, and psychological interplay between the clinician and the patient.^[2] Paramount to the patient is

factors as esthetics, comfort, and masticatory ability. The overall success of any denture therapy is dependent on patient's comfort and acceptance of the dentures.^[2]

The removable partial denture service cannot be complete unless patients are cared for after placement of dentures in the patient's mouth. In many cases the most essential time in the patient's perception of success and failure of denture is the adjustment or the adaptation period. During this adaptation time the patient may present with post insertion complaints of various types. Every denture wearing patient



should be in a recall program, just as any other dental patient.^[3] Boucher has advised recall appointments immediately 24 hour post insertion and periodic check-up phase.^[4] Sharry has advised four recall appointments after 10 days, 3 weeks, 6 weeks and 3 months consequently from denture placement.^[5] Post insertion problems of denture therapy are one of the challenging issues in modern day practice and lack of addressal of these problems can lead to removable dental prosthesis failure. The most common post insertion problems include pain ,discomfort,speech disturbances, denture stomatitis, difficulty in mastication, etc.^[6]

The aim of this study is to collect data about various post insertion problems of removable partial dentures.

MATERIAL AND METHODS

Around 200 patients were examined in Government Dental College, Srinagar in Department of Prosthodontics in both undergraduate and post graduate clinics. The patients were examined every month for 6 months after removable partial denture insertion.

RESULTS

Most common problems that were examined were denture stomatitis and epulis fissuratum which were because of over extension and rough borders of the denture. Around 23% patients encountered the problem of denture stomatitis. Around 16% patients had problems in speech and phonetics which was mostly due to inaccurate measurements of vertical height.

Around 43% patients had problems with loss of retention that was because of poor ridge contour particularly in mandibular ridges.

Around 15% patients had development of aphthous ulcers and inflammation around the lingual border.

The other problems include difficulty in mastication. TMJ problems were reported in 3% patients.

That was due to inaccurate recording of vertical jaw relation or due to faulty occlusion.

DISCUSSION

Post insertion problems are one of the most common complications of removable partial dentures. Evaluation of etiology of the problem is essential for the success of removable partial dentures. The various problems in removable partial dentures include pain, discomfort, inflammatory conditions, problems in speech, loss of retention, difficulty in deglutition, residual ridge resorption and occlusal problems.

Retention as related to artificial dentures is the resistance offered to a force directed at right angles to the seating surface of the denture which lifts the denture from the supporting surface of the tissues.^[7] Loss of retention of the dentures leads to impairment in patient's chewing efficiency. This complication is the main reason of need for replacement of their dentures.^[8] Pain may be a result of overextended borders,tissue entrapment,or an impinging clasp. Faulty occlusion may lead to discomfort and also Temporo mandibular joint disorders. Inflammatory conditions and aphthous ulcers should be treated with suitable



medication, providing relief at points of impingement of the dentures and oral hygiene instructions.

CONCLUSIONS

An in depth knowledge of the various factors is essential for fabricating removable partial

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dentures before the post insertion check up. A patient should always be put on a recall program and complete addressal of the post insertion problems is essential for the success of removable dental prosthesis .

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