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A study on post insertion problems of complete dentures

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Abstract

The aim of this study is to collect data about various post insertion problems of complete dentures. Around 250 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 4 months after complete denture insertion. The various problems in complete denture include inflammatory conditions, problems in speech, loss of retention and occlusal problems.

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

Introduction

Fabrication of complete dentures is dependent on technical, biological, and psychological interplay between the clinician and the patient ^[1]. Paramount to the patient is factors as esthetics, comfort, and masticatory ability. The overall success of complete denture therapy depends on patient's comfort and acceptance of the dentures ^[1].

The complete denture service cannot be adequate unless patients are cared for after the dentures are placed in the mouth. In many instances the most crucial time in the patient's perception of success and failure of denture is the adjustment period. Every denture wearing patient should be in a recall program, just as any other dental patient ^[2]. Boucher ^[3] has advised recall appointments immediately 24 hour post insertion and periodic check-up phase. Sharry ^[4] has advised four recall appointments after 10 days, 3 weeks, 6 weeks and 3months consequently from denture placement Post insertion problems of complete dentures are one of the challenging issues in modern day practice. The most common post insertion problems include difficulty in speech, denture stomatitis, difficulty in mastication, loss of speech etc ^[5]. The aim of this study is to collect data about various post insertion problems of complete dentures.

Materials and methods

Around 250 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 4 months after complete denture insertion.

Results

Most common problems which was examined were denture stomatitis and epulis fissuratum. This was because of over extension and rough borders of denture. Around 33% patients had problem of denture stomatitis.

Around 26% patients had problems in speech and phonetics. This was mostly due to increased or decreased vertical height.

Around 23% patients had problems with loss of retention. This was due to poor ridges contour particularly in mandibular ridges.

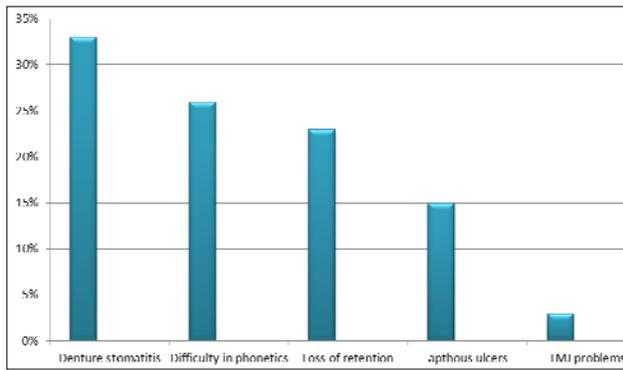
Around 15% patients had development of aphthous ulcers and inflammation around the lingual border.

The other problems include difficulty in mastication. TMJ problems reported in 3% patients. The TMJ problem was due to inaccurate recording of vertical jaw relation or due to existing

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Graph 1: graph showing percentage of reasons of denture problems.

Discussion

Post insertion problems are one of the most common complications of complete denture. It is better to evaluate the cause of problem for the success of complete denture. The various problems in complete denture include inflammatory conditions, problems in speech, loss of retention and occlusal problems.

Retention as related to artificial dentures is the resistance offered to a force directed at right angles to the seating surface which tends to lift the denture from the supporting surface of the tissues [6]. The loss of retention of the dentures may have impaired the patients' ability to chew. This complication is the main reason of need for replacement of their dentures [2].

Inflammatory conditions and aphthous ulcers are treated with appropriate medication, relieving points of impingement of the dentures and oral hygiene instructions.

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