



POST INSERTION COMPLAINTS ASSOCIATED WITH NEW COMPLETE DENTURE WEARERS: A CROSS SECTIONAL STUDY

Prosthodontics

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ABSTRACT

Post insertion problem is a reality to be faced and tackled. Patient satisfaction is critical determinant in the success or failure of complete denture therapy. Therefore a study was aimed at eliciting information regarding the frequency of post insertion problems on 175 patients referred to Department of prosthodontics and crown and bridge wearing complete dentures.

Results : The results of the study showed that the percentage of patient's complaint from adaptation problems on wearing complete denture was higher than discomfort problems.

KEYWORDS

Post Insertion Problems, Complete Dentures

INTRODUCTION:

Rehabilitation of the edentulous patient is most challenging for the Prosthodontist¹. Complete-denture therapy involves a complex interplay between the biologic and technical limitations. The successful solution of difficult diagnostic problems depends on powers of observation, artistic skill, and scientific preparation². The majority of complete denture patients are apparently well satisfied, but a small percentage of patients persistently seek adjustments. Technical faults aside, the patients psychological well-being is postulated as a source of denture problems. Boucher³ has advised recall appointments immediately 24 hour post insertion and periodic check-up phase. Sharry⁴ has advised four recall appointments after 10 days, 3 weeks, 6 weeks and 3 months consequently from denture placement. Therefore the study was aimed to collect data about various post insertion problems of complete dentures so that it will improve awareness of dental clinicians about common post insertion complaints and help them in their management.

MATERIALS AND METHODS:

This cross sectional study was done on its 175 patients wearing complete denture who came to the Department of Prosthodontics with post insertion complaints from January 2018 to December 2019. These patients were presenting for the first visit within the first month after the insertion of complete denture.

The assessment of all post-insertion complaints was done. The questionnaire included information on complains like :

- 1) Adaptation (Pain during insertion and removal of denture, TMJ pain, speech problems, Looseness of denture).
- 2) Discomfort (Gagging, Ulceration, Burning sensation, Excessive salivation)

RESULTS:

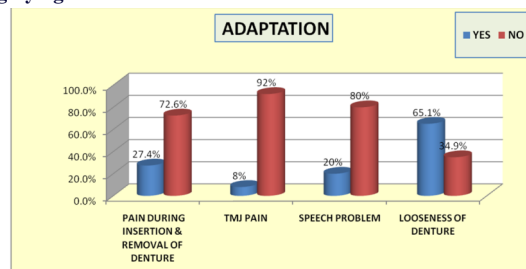
The statistical analysis was carried out. For analysis (chi square test) was used. For the ease of interpretation of the results obtained, the related complaints were pooled up and their mean percentage is calculated as follows (Table 1 and Graph 1 and Table 2 and Graph 2)

Table 1: Adaptation While Wearing Artificial Complete Removable Dentures

	YES n (%)	NO n (%)	Chi square test	p value, Significance
OBSERVE PAIN DURING INSERTION & REMOVAL OF DENTURE	48 (27.4%)	127 (72.6%)	Chi = 35.66	p < 0.001**

TMJ PAIN	14 (8%)	161 (92%)	Chi = 123.4	p < 0.001**
SPEECH PROBLEM	35 (20%)	140 (80%)	Chi = 63.0	p < 0.001**
LOOSENESS OF DENTURE	114 (65.1%)	61 (34.9%)	Chi = 47.0	p = 0.006*

p > 0.05 – not significant *p < 0.05 – significant **p < 0.001 – highly significant

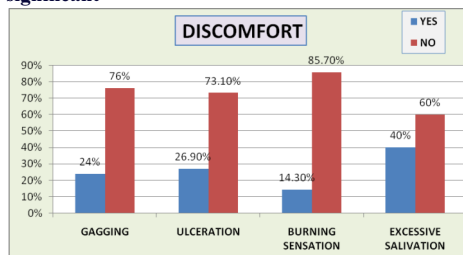


Graph 1: Showing the post insertion complaints related to adaptation and their mean percentage.

Table 2: Discomfort While Wearing Artificial Complete Removable Dentures

	YES n (%)	NO n (%)	Chi square test	p value, Significance
GAGGING	42 (24%)	133 (76%)	Chi = 47.32	p < 0.001**
ULCERATION	47 (26.9%)	128 (73.1%)	Chi = 37.49	p < 0.001**
BURNING SENSATION	25 (14.3%)	150 (85.7%)	Chi = 89.28	p < 0.001**
EXCESSIVE SALIVATION	70 (40%)	105 (60%)	Chi = 7.00	p = 0.008*

p > 0.05 – not significant *p < 0.05 – significant **p < 0.001 – highly significant



Graph 2: Showing the post insertion complaints related to discomfort and their mean percentage.

- The study showed that the looseness or reduced retention was the most common post insertion complaint showing a mean percentage of 65.1%.
- Excess salivation and pain were the predominating post insertion problem found especially in new denture patients.

DISCUSSION:

A major challenge in dental practice continues to be the successful management of the complete denture patient who experiences ongoing difficulty with his or her dentures².

Jeganathan et al⁵ in 1993 reviewed the common faults in complete dentures and concluded that the satisfaction with the complete denture therapy is dependent on communication between the dentist and the patient, sound diagnostic and practical skills of the operator, and continuous aftercare. 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 tissues⁶. 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 dentures⁷. Excessive salivation is temporary and frequent reassurance by dentist is the solution to this complaint. Inflammatory conditions and aphthous ulcers are treated with appropriate medication, relieving points of impingement of the dentures and oral hygiene instructions⁸.

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