Aesthetic Enhancement In Complete Denture Patient By Using Detachable Cheek **Plumper- A Case Report**

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Abstract

Fabrication of complete denture for completely edentulous patient for more than half decade can fulfill the requirement of chewing and speech but it may be difficult task to enhance aesthetics in the same due to sunken cheeks. There are several types of surgical procedures available to correct this type of disfigurement. This article will portray innovative, cost-effective and simple alternative treatment method to enhance facial aesthetics using detachable cheek plumper.

Key Words: Complete Denture Esthetics, Cheek Plumper, Push Button.

Introduction

sthetics plays an important role in ✓individual personality whether male or female. Cheeks due to their prominent visibility are an important factor in determining facial esthetics. Teeth, facial musculature plays an important role in cheek appearance, after removal of all teeth, the facial musculature is deprived of support due to tissue thinning, ageing, loss of muscle elasticity and cheeks appear hollow or slumped (1). Hence it adds years to persons age and have a psychological effect on patient.

The objective of complete denture prosthesis is not only to replace missing teeth but also restore the facial aesthetics.

The improvement of facial esthetics can be done by cheek plumper in slumped facial musculature patients as proper denture extensions and flanges may not rectify the patient problem. Cheek plumper has been used for the purpose of improving esthetics and psychological effect in patient. Use of plumper

prosthesis in maxillofacial prosthodontics is also well documented (2-4).

Detachable cheek plumper is attached in the area of premolar and molar region and can be detached easily from the complete denture. This can be achieved by magnets or customized attachments (5)

The purpose of this article is to explain a simple and innovative technique of fabricating detachable cheek plumper by use of press button attachments.

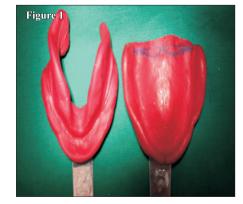
Case Report

A 60 year old male patient reported to the department of Prosthodontics in Bharati Vidyapeeth dental college, Navi Mumbai with a complaint of missing teeth since 5 years and slumped cheeks. Intra oral examination reveals both upper and lower edentulous arches. On extra oral examination hollow cheeks were observed and the patient was aware of that situation. During motivational session patient was asked for cheek plumper retained complete denture to enhance facial esthetics. Treatment plan was made keeping

patient demand in mind. It was decided to give patient upper and lower complete denture with detachable cheek plumper attached to maxillary denture.

Fabrication Procedure

Maxillary and mandibular impressions were made using impression compound (Y Dents, MDM corporation Delhi). (Fig 1).Custom trays were made using auto





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polymerizing acrylic resin. Border moulding was done using low fusing impression compound and wash impressions were made with medium body addition silicon impression material (Aquasil Dentsply). (Fig 2). Face bow



transfer and jaw relation were done on semi adjustable articulator (Hanau wide view). Articulation was done followed by teeth arrangement. For try-in appointment waxed denture was inserted in patient mouth and checked for occlusion, esthetics and speech. After that wax cheek plumper were made and attached to the maxillary denture in molar area and adjusted accordingly to give fuller look. (Fig 3). Before acrylization, patient consent



was taken and wax plumper was separated from denture and acrylization of cheek plumper and denture was made in conventional manner. Finished and polished dentures were tried in the mouth.

One part of press button attachment was attached on buccal surface of maxillary denture and other part of the attachment was attached on cheek plumper with self curing acrylic resin. (Fig 4)



Patient was instructed regarding the attachment of the plumper and maintaining cleanliness and hygiene of the prosthesis. Recall appointments were made at 1 day, 1 month and 6 month. (Fig 5-7)



Discussion

In this case report detachable plumper prosthesis was used to reduce cost of the final prosthesis as magnets are costly, exhibit poor corrosion resistance. Detachable cheek plumper enables the patient to remove plumper easily as conventional plumper cannot be detached from the complete denture. Press button attachment allows ease in placement of the plumper prosthesis, small & light weight provides snug fit. (6-7)





Conclusion

This article has described a simple costeffective and non invasive treatment alternative to improve facial esthetics in patient with hollow cheeks. This prosthesis provides excellent esthetics and stability during various functional movements and improves psychological well being of the natient.

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