

Case Report

Cusil like Denture - Case Report

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Received: 26/11/2013

Revised: 04/01/2014

Accepted: 21/01/2014

ABSTRACT

Cusil denture is the simplified approach in preservation of teeth there by preserving alveolar ridge. It promotes positive mental attitude among the patients by avoiding extractions. It is a newer type of transitional denture. Cusil denture has elastomeric gasket which clasps the neck of natural tooth. This case report describes alternative method of making cusil like denture using soft liners.

Keywords: Cusil denture, Transitional denture, soft liners.

INTRODUCTION

De van stated “the perpetual preservation of that which remains, and not the meticulous replacement of that which has been lost.”

Cu-Sil is the simplest, gentlest removable partial available. It is an acrylic, tissue bearing appliance featuring a soft elastomeric gasket which clasps the neck of each natural tooth, sealing out food and fluids, and cushioning and splinting each natural tooth from the hard acrylic denture base.^[1]

The treatment options for patients having very few teeth remaining includes overdentures or transitional dentures or immediate dentures following complete extractions.^[2] Overdentures cannot serve a solution for all such cases because of contraindications, need for prerequisite treatment, poor positioning of remaining teeth, requirement of more patient visits and

economic reasons.^[3,4,6] Most of the patients defer getting all their teeth extracted as it has a mutilating effect on their psychology. Thus transitional dentures serve as treatment option for many of such patients. A relatively newer type of transitional dentures is Cu-Sil dentures.

CASE REPORT

A 50 year old man reported to the department of prosthodontics, Tamilnadu Government Dental College and Hospital for replacement of missing teeth.

Patient presented with 15 and all other teeth is missing in maxillary arch. 15 is periodontally sound. 31, 33, 41,42 are missing in mandibular arch. Over denture is planned and patient is advised for RCT, he is not willing to do RCT, he wants to keep his tooth as such. So finally planned to docusil denture

Procedure

1. Upper and lower impression is made with irreversible hydrocolloid impression (Alginate-dentsply)



(fig-1)



(fig-2)

2. The study cast is obtained.



(fig-3)

3. The special tray is constructed using autopolymerising resin. Border molding is done with DPI green stick compound then impression is made with light body and left in the mouth over that pick up impression is made using alginate.



Fig-4



Fig. 5

4. Secondary cast is made. Jaw relation, tryin, denture processing is done in conventional manner.



(fig-6)

5. Denture is finished and polished. In the 15 region space is created of 4-5mm around the tooth in which acrylic based soft liners (GC TEMPORARY SOFT LINER) is placed. Denture was inserted in patient's mouth and held in position. After setting of the material denture was removed, trimmed the excess.



(fig-7)



(fig-8)

6. Post insertion instructions were same as for any removable prosthesis. As there are chances of fungal growth on the soft liner material, special care has to be taken regarding maintenance of excellent oral and denture hygiene. Use of denture cleansers with antimicrobial agents can be recommended.



(fig-9)

DISCUSSION

Cu-Sil dentures are designed to preserve the remaining natural teeth and thus the alveolar bone. They have effect on retention and stability of dentures. In addition to this it gives the patient psychologic satisfaction of retaining the natural teeth as they were. Vertical dimension and proprioception is maintained by retained natural teeth. Attachment devices are avoided entirely.

This treatment modality does not require any tooth preparation and extra patient visit. It does not require any special armamentarium and material as . If a tooth is lost in future, existing denture can be modified to occupy its place.^[5]

They serve as a solution for single standing or isolated teeth present in dental arch. They are not indicated for patients with large number of teeth evenly distributed across the dental arch.

These dentures are associated with some disadvantages. The functional duration of soft liner used is short for 3years. It needs frequent corrections. Entire gingival margin of remaining teeth is covered leading to plaque accumulation.

Indication ^[1]

1. Periodontallyinvolved teeth
2. Need for gentle partial
3. Need for transitional denture
4. Mobile, doubtful teeth
5. Eliminate extractions
6. Single or isolated teeth

Contraindication ^[1]

1. Too many teeth
2. Presence of anterior teeth

3. In patients with open smile
4. Severe undercuts

CONCLUSION

Cu-Sil like dentures serve as a alternative treatment for patients with very few remaining teeth. They rest on the soft tissues while provide a snug fit over existing, healthy tooth structures. An elastic gasket seals itself around the cervical part of each tooth, thereby providing a stable and healthy fit. It promotes healthy stimulation to maintain alveolar bone. Retention is improved, attachment devices are avoided, vertical dimension and proprioceptionare maintained.

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How to cite this article: Vinayagavel, Sabarigrinathan, Gunasekar et. al. Cusil like denture - case report. Int J Health Sci Res. 2014;4(2):195-197.
