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Case report

OVERDENTURE COMBINED WITH IMMEDIATE DENTURE

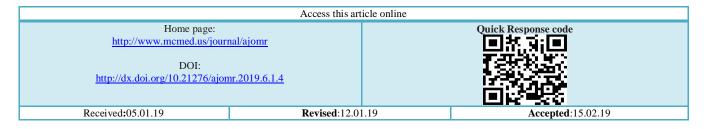
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ABSTRACT

This article describes the treatment done to a patient wherein three remaining three teeth, two canines and one premolar were retained to make an over denture. Immediate denture after removal of two upper central incisors were planned to help the patient overcome the stigma of complete edentulousness during the healing period.

Key words:- Primary copings, proprioception.



INTRODUCTION

A patient named menaka 68 years came to the department of prosthodontics, government dental college Chennai for replacement of missing teeth and unwilling to extract the lower teeth as it was periodontally sound. She was unwilling to remove the upper centrals which were mobile and protruded as it would take time to heal and go for fabrication of denture.

On examination the ridges were resorbed and lower canines and premolar were liable to be retained and the upper centrals were proclined and mobile.

Treatment plan was an immediate denture in the upper arch and an over denture in the lower arch.

PROCEDURE

1.Preliminary impression was made with irreversible hydrocolloid and the casts were poured.

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2.Upper secondary impression was made using a pick up technique as the special tray excluded the natural teeth.

3. Lower secondary impression was also made using the pick-up technique [1].

4. Tentative jaw relation was done to evaluate the existing inter arch space

5. Tooth preparation was done in the lower two canines and premolar teeth after endodontic therapy. Impression was taken with putty and light body impression material to fabricate wax pattern and primary copings.

6. Casting was done and it was dome shaped to prevent any under cuts. It was cemented to the teeth 9.

7. A full special tray with blocking of wax was done over the prepared tooth .Border moulding was done and wash impression was taken after removal of wax spacer with light body impression material and it was poured to obtain the final cast.

8. Record bases were fabricated and jaw relation done.

9. Wax try in was made ready and checked in patient's mouth. After knocking out the upper central incisors in

the upper cast ,try in was completed. The denture was processed using heat cure acrylic resin [2].

10. Surgical stent to guide bone removal during extraction was prepared. Patient was sent for extraction after 10 minutes the processed denture was inserted. Instructions were given to the patient not to remove the denture for 24 hrs.

11. Patient was reviewed after 24 hrs for adjustments in immediate denture and relieving sore spots if any. Patient was reviewed after 1 week and 1 month [3-8].

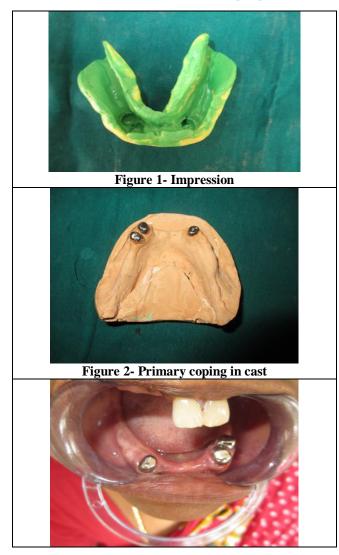




Figure 4 – Final dentures

DISCUSSION

Immediate dentures are indicated in upper arch as the patient is conscious about the immediate appearance after removal of teeth, but it is unavoidable as the teeth is compromised in relation to the positioning or periodontal condition. The advantages include reduction of resorption and avoiding the period of complete edentulousness. It also helps in selecting the colour, shade of teeth to be selected. The disadvantages include bulkiness, discomfort to the patient, difficulty in speaking and gag reflex [5].

Over denture in lower arch as the tooth was periodontally sound with favourable crown root ratio and it was favourable to improve the retention and stability. It also aids in maintenance of proprioception due to the periodontal ligament, reduces resorption rate ,easy to clean, reasonable cost ,reversible and causes less trauma to the supporting tissues. 5It is contraindicated when other methods promise superior results and the oral hygiene maintenance of the patient is poor [6].

CONCLUSION

Though the options are many a thorough insight is necessary to choose the treatment for the particular patient according to the clinical condition. The whole treatment is successful only when the patient understands the need and follows proper maintenance and oral hygiene instructions.

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