

OP-39

Edentulous Treatment with Non-Retentive Overdenture Maxilla and Magnets to Retain Mandibular Tooth Tissue Supported: A Case Report

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ABSTRACT

Introduction: Overdenture is a complete or partial denture supported by mucoperiosteum and a few teeth or roots that have been done endodontic treatment. Technic of using coping cast and magnetic connection is very simple and shaping the course of aesthetics and retention for both complete and removable partial overdentures. Their benefits include simplicity, low cost, self-adjustment, inherent stress breaking, automatic reseating after denture displacement, comparative freedom of lateral denture movement, and increased masticatory efficiency due to better stability and retention also reduced mucosal pressure. **Case report:** This case discussed overdenture treatment by using metal coping and magnet retention in a patient with partial edentulous upper and lower jaw. A 69-year-old male comes with a chief complain of missing teeth and a lot of damage teeth that cannot be used to eat. Preliminary treatment was tooth extraction on #26, #13, #11 and endodontic treatment on #21, #33, #34. On teeth #21 was used by a single coping cast non-retentive, #33 was used magnet retention and #34 was glass ionomer coping. **Discussion:** Treatment full overdenture using metal coping and magnet retention may be an alternative treatment in partial and fully edentulous maxilla and mandibula. Clinical experience has shown that non-retentive overdenture preserves alveolar bone and increased denture stabilization and magnetic retention in mandibula can be used effectively to improve retention, overcome lateral forces of abutment teeth and easy application. Magnets have a small size but have great attraction and were placed on the inside of the denture so that it does not interfere with aesthetics, especially on anterior teeth. **Conclusion:** Natural tooth roots, even if periodontally involved, can serve as useful aids in tooth support and retention, more affordable and in many cases superior to implanted dentures.

Keywords: overdenture, magnet, coping metal, edentulous