An important aspect is the need of recall regimens and proper patient instruction in oral health to avoid abutment failure.

CASE DETAILS

A 56 male patient presents to the prosthodontics department because "he's looking for an integral treatment, especially concern about the looks of his maxillary removable partial denture".

The final treatment was a maxillary root retained overdenture with locator attachments, teeth 6, 12, 13, 15 and a mesial rest in 2. The sequence of treatment after periodontal and endodontic treatment was post space preparation, pattern resin and casting. Cast locator female attachments were cemented and the final contouring was performed. The White Block-Out Spacer was placed over the head of each cemented female and the Locator Black Processing Cap male into each cemented female, leaving the White Block-Out Spacer beneath, a bedding was prepared in the denture to accommodate the Cap Male, must be no contact between denture and the stainless steel cap and the final reline was made.

By implementing this protocol, an optimal definitive result could be achieved, together with immediate patient satisfaction. However, cooperation among several disciplines and careful patient selection were required.

INTRODUCTION

Preserving natural roots for overdenture treatment is basically to improve support, retention and stability of the prosthesis. This is a treatment option for patients with low income who can’t afford implant supported prosthesis and also should be considered a preferred alternative to complete dentures, especially in patients with insufficient alveolar bone support.

Prosthodontics, endodontics and periodontics make possible to preserve roots of affected teeth by caries and periodontal disease.

The concept of root retained overdentures with castable overdenture attachments is based on the reduction of the coronal surface of the tooth to the gingival level and the incorporation of radicular stud overdenture attachments to improve retention of the prosthesis.

An important aspect is the need of recall regimens and proper patient instruction in oral health to avoid abutment failure.

INTERDISCIPLINARY APPROACH

An interdisciplinary approach is necessary to evaluate, diagnose, and resolve oral problems using a combination of periodontic, endodontic and prosthodontic treatment.

When patient treatment requires a comprehensive approach, communication among the disciplines is critical in achieving aesthetic and function.

INDICATIONS

- When patient presents with 4 or less retainable teeth.
- Stability and retention of conventional dentures will be a problem.
- As a practical measure in preventive dentistry.
- Lost of teeth in one arch while the other is dentulous or partially dentulous.
- Patients with unfavorable tongue positions and muscle attachments.

CONCLUSIONS

The incorporation of attachments to the overdenture provides support, stability and mechanical retentive properties by improving crown-root ratio and attenuating ridge resorption. At least 5 mm of bone is necessary to support the root of an abutment tooth that will be used for overdenture.

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REFERENCES