RESEARCH ARTICLE

ESTHETIC REHABILITATION OF ANTERIOR TEETH : CASE REPORT

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INTRODUCTION

In our modern competitive society, a pleasing appearance often means the difference between success and failure in both our personal and professional lives. A charming smile can open doors and knock down barriers that stand between you and a fuller, richer life. An attractive or pleasing smile clearly enhances the acceptance of the individual in the society where he belongs and the character of the smile influences to the great extent the attractiveness and the personality of the individual.

Esthetics (GPT 9): The branch of philosophy dealing with beauty. In dentistry, the theory and philosophy that deal with beauty and the beautiful, especially with respect to the appearance of a dental restorations, as achieved through its form and or color. Those subjective and objective elements and principles underlying the beauty and attractiveness of an object, design or principle.

CASE REPORT

A 21 year old male patient reported to the department, and complaines of malpositioned teeth even after he has undergone orthodontic treatment and wishes to improve the esthetic of his anterior teeth with prosthetic rehabilitation.

There was no finding in his medical history and dental history revealed extraction irt 12, RCT irt 11,21,22,31,41,42, undergone orthodontic treatment. On oral examination we found missing irt 12, generalised spacing in upper anterior teeth, open bite, labially placed 21, palatally placed 11. radiographic findings were ankylosed tooth irt. 11, root resorption irt.22, RCT irt 11,21,22,31,41,42.

Treatment plan: In the first treatment visit, diagnostic impressions, face bow record, centric bite were made for esthetic evaluation, photograph were used to facilitate communication with the patient and laboratory technician. Mock preparation & diagnostic wax up was done irt 11,12,13,21,22,23. In the second visit : crown preparation done irt 11,13,21,22,23,31,32,33 and interim restorations were carried out using tooth molding material by indirect technique and aimed to restore esthetic. For final impressions retraction cord were placed and a double-mix impression technique, with addition silicone was used to reproduce the teeth and surrounding soft tissue. Working casts were obtained for the laboratory procedures. CAD CAM designing was carried out for final prosthesis. Marginal adaption, occlusal and interproximal contacts were accessed to establish biologic and esthetic parameters for final prosthesis, resin cement was used for cementation. Oral fluids and any hemorrhage process were controlled. Afterward, the excess resin cement was removed.

DISCUSSION

Beauty is power; A smile is its sword

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Fig. 1. OPG

Fig. 2. Lateral View (Preoperative)

Fig. 3. Preoperative photograph

Fig. 4. Face Bow Transfer

Fig. 5. Preparation Photographs

Fig. 6. Final Impression

Fig. 7. Cad Cam Planning

Fig. 8. Cad-Cam Planning (Lateral View)
Scottish physiologist Charles bell (1774-1842) was quoted as remarking that the thought is to the word that the feeling is to the facial expression. He pointed out in 1806 that a smile could convey a thousand different meanings, yet it is the most easily recognized expression. Smile is dependant on the musculature and Basically the presence of the teeth. But every person is not blessed enough to have a beautiful smile. We as a Prosthodontist is probably the best person to identify the quality of smile. Digitalization has become an integral part and parcel of contemporary dentistry. Zirconia (ULTRA T) crowns showed promising result in restoring anterior teeth as they are Milled over CAD/CAM hence precise on fit and prefect with function in the mouth, Material of choice for anterior cases & Recommended for discoloured teeth. Zirconia frameworks for prosthetic rehabilitation, is preferred over ceramic, as ceramic fractures has been reported as a frequent complication. chipping and fractures of ceramic is thus a major problem both on metal ceramic and all-ceramic crowns. Adhesive resin cement has contributed to the rising importance of innovative restorative dentistry. They ond chemically and hence can be used even if no retentive preparation has been performed. Dual cure version (variolink esthetic DC) is suitable with ceramic and composite where complete polymerization with light cannot be ensured because of materials opacity or strong wall thickness. In such cases, complete polymerization is achieved by materials combination of light and self curing properties, resulting in a reliable adhesion of the restoration.

**Conclusion**

Advancement in the technique, has made the esthetic treatment more pleasing as the crowns showed promising result in restoring anterior teeth and are milled over CAD/CAM hence precise on fit and perfect with function in the mouth.

**REFERENCES**