

C-23. Esthetic enhancement of maxillary anteriors with severely compromised soft and hard tissue : A case report

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Background

The treatment of root fracture and associated periodontal defects is a challenging task to clinicians. A multidisciplinary approach was performed to solve the esthetic problem. The obliquely fractured right maxillary central incisor presented the lack of periodontal tissue with a huge facial bone dehiscence. The pulp had been extirpated and the tooth had been restored with amalgam facially in a local clinic. The patient expected his tooth to be saved and improved esthetically.

Materials & Methods

The amalgam restoration was replaced with mineral trioxide aggregate (MTA) at the hygienic phase. After finishing a course of initial periodontal treatment and re-evaluation, a partial-thickness mucoperiosteal flap was reflected and the recipient bed was prepared. The fractured root surface was planed with Gracey periodontal curettes and the PER-IO-TOR[®]. Subepithelial connective tissue was grafted from right palate and placed on the defect. The flap was coronally positioned. After 3 months of healing, laminate veneer crowns were fabricated and placed on #11, 12.

Results & Conclusion

At 9 month recall, the esthetic results have been maintained successfully. No inflammatory response or mobility was seen, and clinical attachment level was gained. Even though the patient is satisfied with the results, the marginal tissue recession can be expected in the future. At present, another periodontal surgical procedure with guided tissue regeneration is planned to augment the underlying hard tissue and the patient is now on thorough SPT (supportive periodontal therapy).