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Multidisciplinary approach for the aesthetic treatment of maxillary central incisor: A case report with 3-year follow-up

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Twelve (12) years old patient applied to our clinic with unilateral complete cleft lip and palate problem. The patient presented maxillary constriction with bilateral posterior cross-bite and left central incisor was in cross bite as well. It was planned to expand the upper arch by means of rapid maxillary expansion. Then fixed orthodontic treatment was planned to settle the occlusion. The treatment started with rapid maxillary expansion by using bonded hyrax appliance. After the expansion fixed appliances were placed both on mandibular teeth and the anterior teeth on maxilla. Following orthodontic treatment, the patient was referred to the department of prosthodontics for further applications. Cone beam computed tomography (CBCT) is used for implant site evaluation. According to the CBCT a sufficient horizontal and vertical bone volume exists. The Camlog screw-line implant (Camlog Biotechnologies, Basel, Switzerland) placement was performed with local anesthetic agents. After 4 months of healing by the use of temporary abutment for soft tissue remodeling, a screw retained provisional restoration was fabricated. All-ceramic crown was fabricated after 3 weeks. Two-piece Ti-ceramic abutment was used. Then, GRADIA gum shades (GC Corporation, Tokyo, Japan) was used at the cervical part of crown for reproduction of gingiva. After the prosthodontic treatment, the patient was recalled at the 6th month and 1st year. The patient was satisfied after 3 years of use. No complication was observed after the augmentation process and implant placement. As a conclusion, a multidisciplinary approach in esthetic zone shows successful clinical and radiographic results.

Biography

Mohammed Abdul Rahman Badwan graduated from Pharos University in Egypt in 2012. Now he is a Master's student in Prosthodontics Department of Marmara University, Dentistry Faculty, Istanbul, Turkey.

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