

## The Orthodontic Management of Multiple Tooth Agenesis with Macroglossia in Adult Patient: Case Report

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**Abstract :** Orthodontists find challenges in treating patients who have cases of macroglossia and multiple tooth agenesis because difficulties in determining the causes, formulating a diagnosis and the potential for relapse after treatment. Definition of macroglossia is a tongue enlargement due to muscle hypertrophy, tumor or an endocrine disturbance. Macroglossia may cause many problems such as anterior proclination of upper and lower incisors, development of general diastema and anterior and/ or posterior open bite. Treatment for such patients with multiple tooth agenesis and macroglossia can be complex and must consider orthodontic and/or surgical interventions. This article discusses an orthodontic non surgical approach to a patient with a general diastema in both maxilla and mandible associated with multiple tooth agenesis and macroglossia. Fixed orthodontic therapy with straightwire appliance was used for space closure in anterior region of maxilla and mandible, also to create a space suitable for future prosthetic restoration. After 12 months treatment, stable and functional occlusal relationships was achieved, although still have edentulous area in both maxilla and mandible. At the end of the orthodontic treatment was obtained with correct overbite and overjet values. After removal of the brackets, a maxillary and mandibular removable retainer combine with artificial tooth were placed for retention.

**Keywords :** general diastema, macroglossia, space closure, tooth agenesis

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