

## **AUTOTRANSPLANTATION OF WISDOM TOOTH (1.8) TO FIRST MOLAR (1.6): A CASE REPORT WITH 6 MONTH FOLLOW-UP**

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Dental autotrasplantation is defined as the movement of one tooth from one position to another, within the same person. This could involve the transfer of impacted, embedded, or erupted teeth into extraction sites or into surgically prepared sockets.

To demonstrate autotransplantation is a predictable and sustainable technique with biological and economic advantages. It can be used as a possible alternative to fixed and removable prosthesis, especially in partially edentulous young patients.

A 24-years-old patient came to our attention for the treatment of residual roots of the maxillary first molar(1.6). Considering the presence of a healthy and unfunctional maxillary third molar, the young age of the patient and the fact that alternative treatments were unaffordable, it was suggested to the patient a treatment protocol which involved superior third molar (1.8) autotransplantation after extraction of carious tooth. The first molar was extracted as atraumatically as possible. The interseptal bone was subjected to alveoloplastic. Once the third molar was extracted, it was fitted in the prepared socket. It was stabilized by sutures and by a metallic splint. Thanks to the accumulated experience in this kind of surgical treatment and to a good use of literature, endodontic treatment wasn't considered necessary.

After only one week follow-up soft tissues showed significant improvements. At the 2-month follow-up the tooth showed surprisingly responsive and alive. At the 6-month follow up, wisdom tooth didn't show pathological features in agreement with radiological exam.

The success of this case can be attributed to the atraumatic surgical technique and to the experience gained in the previous autotransplantations. Dental autotransplantation can be considered not only an alternative to fixed or removable prosthesis, but also a treatment to improve prognosis of lost teeth. In fact, in the case of autotransplantation failure, implant placement may still be possible.