

## Autotransplantation: Case report

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### I. Introduction

Autotransplantation involves the transfer of a tooth from its alveolus to another site in the same person. It is a reliable treatment modality and has a good prognosis when suitable donor teeth are available. The two most common transplantations are of impacted canines, when orthodontics is not feasible, and of impacted third molars to substitute for first or second molars. Various techniques of autotransplantation have been reported. Careful manipulation of the root and socket, stabilization of the implanted tooth and postoperative care are important for the success of the operation. Following cases present autotransplantation of a third molar is for replacement of a lost first or second molar.

### II. Case Presentation

<Case 1>

1. Age / Sex: 63 / M
2. Chief Complaint: Discomfort during mastication
3. Past Dental History: #46 RCT, post and crown  
#47 RCT, crown
4. Present Illness: #46 per(-), mob(-), bite( $\pm$ ), PD: 6mm  
#47 per(-), mob(-), bite(+), PD: 8mm
5. Impression: #47 Vertical root fracture
6. Tx Plan: Autotransplantation of #48 to #47

<Case 2>

1. Age / Sex: 32 / M
2. Chief Complaint: Decayed tooth
3. Past Dental History: #36 Prior RCT
4. Present Illness: #36 Crown fracture due to severe caries
5. Impression: #36 Crown fracture
6. Tx Plan: Autotransplantation of #38 to #36

### III. Conclusion

Autotransplantation of teeth may be considered as a viable treatment option to conventional prosthetic and implant rehabilitation for both therapeutic and economic reasons. It is relatively simple procedure with high success rates. Although its long-term prognosis is not predictable, autotransplantation appears to be a sound treatment option for replacement of a lost or hopeless tooth, usually providing satisfactory clinical, aesthetic and functional outcomes. In addition, autotransplanted teeth can preserve the amount and quality of alveolar bone, thus permitting later insertion of a metallic implant, if this should be necessary. Careful surgical and endodontic procedures, together with careful case selection may lead to satisfactory aesthetic and functional outcomes.