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### Title: Four Years follow up of Traumatized Anterior Teeth after Delayed Management

#### Abstract:

**Background:** The dental fracture and reimplantation of the lateral incisor is one of the rare sequelae of anterior trauma. Replantation of avulsed teeth represents an invasive approach with high-risk steps that should be explained to the parents before initiating any treatment procedures where patient cooperation is required. Although replantation of avulsed permanent teeth is an accepted treatment approach, the long-term prognosis of the replanted teeth is still controversial.

**Objectives:** Describes the survival of the delayed replanted lateral incisor that was stored in unfavorable conditions after avulsion and describes long-term management of other traumatized **anterior teeth one fractured and the other luxated for the same patient.**

**Methods:** A 10-year-old child-mother called our clinic and said that one of the dentists referred her to us after 24 hours of trauma and a fall of one of her daughter's anterior teeth during playing with the bicycle. After the child attended our clinic and by:

Clinical examination found an empty socket in the site of the left upper lateral incisor, palatal luxation of the upper left central incisor, and enamel & dentin fracture of the upper right central incisor. After cleaning the tooth socket with normal saline, bench-type root canal treatment was done and the tooth was replanted in the socket after apicectomy, then the luxated tooth was repositioned in its position. Splint was removed after 14 days, a postoperative radiograph was taken then follow-up after three, six, and nine months then one, two, three, and four years.

**Results:** The reimplanted tooth survive for four years after treatment, but some signs of internal resorption start to appear on the x-ray at the fourth-year follow-up time.

**Conclusion:** at any condition regarding permanent teeth for children we should try reimplantation at least until the time they could make implant and permanent restoration.

**Keywords:** trauma, reimplantation, permanent teeth.

#### Biography

I am an assistant professor, of pediatric dentistry and I am one of the university staff since 1993. now I am working as a consultant dentist at Saada Hospital in Oman. I worked before as an assistant professor in the Kingdom of Saudi Arabia and as a consultant in Kuwait and KSA. I have also fellowship in orthodontics from the American Society of Orthodontics since 2012. I am interested in early management of the orthodontic problem and stem cell research for the upgrading of dental since also the new biological materials for pulp treatment in children in replacement of the chemical ones. I have much research in the field of pulp treatment and modification of formocresol pulpotomy which proved to have some hazards to the health of children.