

## **How to manage tooth trauma in young orthodontic patients?**

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Tooth trauma mostly affects the upper maxillary incisors in children under 11. This is of serious concern when planning orthodontic tooth movements because of the increased risk of pulp necrosis and root resorption in these teeth. The clinical guidelines for traumatized incisors in orthodontic patients will be presented.

Different types of tooth trauma will be discussed focusing on the orthodontic management for the most severe conditions. Severe tooth trauma in the deciduous dentition may lead to developmental disturbances of the upper permanent central incisors, such as root dilaceration. In the early permanent dentition trauma leads to incisor avulsion, often combined with alveolar bone loss and this is a main concern for children and their parents.

Possible solutions include resin-bonded bridges, mesialisation of lateral incisors and premolar transplantation with their pros and cons will be discussed and comprehensively illustrated.