



Management of Lateral Luxation of an Immature Permanent Incisor: A Case Report

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Introduction

Dental trauma is the most common orofacial injury, affecting both permanent and deciduous teeth. Dental trauma is a worldwide concern that affects the quality of life by having functional, psychological, and social impacts. Central incisors make up 60% of the most affected teeth and it is a traumatizing experience for both the child and the parents, attributing that to their location, esthetic, emotional and psychological importance. Luxation injuries are the displacement of a tooth in any direction other than axial.

Case Presentation

A 7-year-old healthy boy presented with both parents to the emergency room at Prince Sultan Medical Military City (PSMMC) following orofacial trauma on April 2024 half an hour post trauma.

Extra-oral examination: the patient was sitting unsupported and showed no signs of facial injury.

Intra-oral examination: soft tissue laceration, avulsion of upper right primary lateral incisor, severe lateral luxation of the upper right permanent central incisor buccally, and grade III mobility of the upper left primary lateral incisor.

Managment

Following cleaning of the area and giving local anesthesia:

- Extraction of upper left primary lateral incisor due to its severe mobility
- Repositioning of the upper right permanent central incisor with digital pressure which wasn't fully erupted in previous photo
- Periapical radiograph taken showing immature root followed by splinting with orthodontic wire
- Paracetamol and Amoxicillin prescribed

Discussion and conclusion

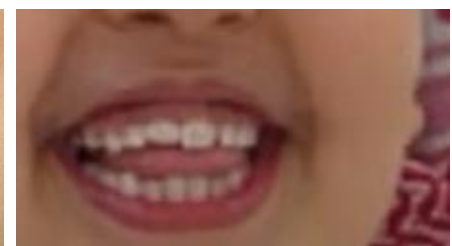
The emergency management of laterally luxated immature teeth is by repositioning the tooth digitally into its anatomical position, it should be done as soon as possible for better prognosis. Pulp canal obliteration is more prevalent in teeth with open apex while pulp necrosis is seen with closed apex. The most important factor in managing immature permanent teeth is maintaining regular follow up appointments. In order to allow continued root development and apex formation every effort should be made to preserve the pulp. And root canal treatment shouldn't be initiated based on a lack of response to pulp sensibility testing solely, but rather on confirmed evidence of pulp necrosis and infection in the root canal.



Intra-oral exam



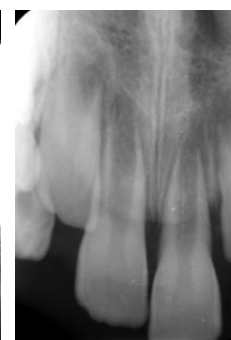
Repositioning and splinting



Previous photo (not fully erupted)



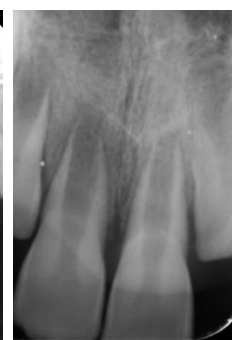
Day of trauma



2w FU



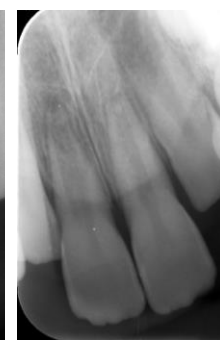
4w FU



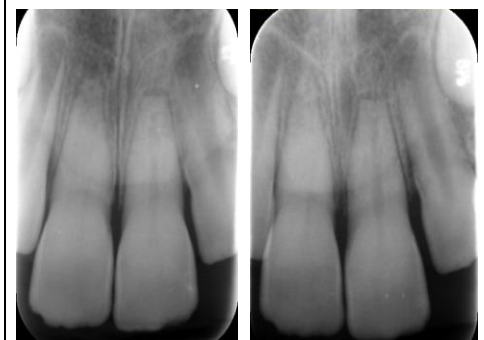
8w FU



12w FU



6m FU



1 Year FU



1 Year FU

