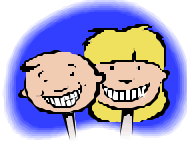


Management of Traumatic Injuries



Ellis' classification:

- Class I: Simple fracture of the crown involving little or no dentin
- Class II: Extensive fracture of the crown involving considerable dentin but not the pulp
- Class III: Extensive fracture of the crown with a pulpal exposure
- Class IV: A fracture in which the entire crown has been lost



Vitality tests after trauma



- Thermal test- most reliable, especially in primary incisors, failure to respond to heat is indicative of pulpal necrosis
- EPT- often unreliable
- Failure of a recently traumatized tooth to respond to the pulp test is common.
- Emergency tx should be completed and the tooth should be retested in 10-14 days.
- Darkening of the tooth is a good indication of loss of vitality of the pulp.

Types of Injuries



- Ankylosis
 - This is caused by injury to the periodontal membrane and subsequent inflammation
 - The ankylosed primary tooth in the anterior segment should be removed if there is evidence of it causing delayed or ectopic eruption of the permanent successor
 - It is often detected by a "step" with the ankylosed tooth below the plane of occlusion.

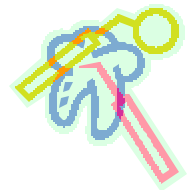
Luxation/Intrusion

- Displaced but not intruded primary teeth should be repositioned as soon as possible to prevent interference of occlusion
- They can be stabilized with wire and composite splint
- Intruded teeth are left to spontaneously re-erupt
- Severely loosened primary teeth should be removed



Dilaceration

- This occasionally occurs after intrusion or displacement injuries
- The developed portion of the tooth is twisted or bent on it self, and on this new position growth progresses
- The resulting tooth has the crown in a significantly different position from the root





- **Root Fractures**

- Root fractures at the apical half of the tooth are more likely to undergo repair often without treatment
- In order for repair to take place, the fragments must be maintained in apposition
- Healing should take place in 3-4 weeks



- **Avulsion**

- The best prognosis is for teeth replanted within a short period of time
- Teeth should not be cleaned, disinfected, rinsed, or scaled
- The pt or parent can be instructed to replant the tooth, or the tooth can be stored in milk or saliva
- Reimplanted teeth are treated endodontically later

