

Traumatic Injury of Tooth in Conservative Dentistry & Endodontics



Dr. Shahnaz Sultana Beauty
Associate Professor
Department of Dentistry
Green Life Medical College

Traumatic Dental Injury (TDI) is a common dental concern in Conservative Dentistry and Endodontics

The most common TDI is included, Lateral Luxation
in primary teeth & enamel dentin fracture in
permanent teeth

Ref: European Journal of Dentistry
EUR J. Dent 2021, July
15(3): 557-562. Published online 2021

Children and adolescents experience mild to severe dental traumas from various causes

such as

- Unsafe playing on playground
- Accidents at schools
- Accident in car crashes

Ref: Treatment and Complications in
Children and Adolescents A Registered
based Study

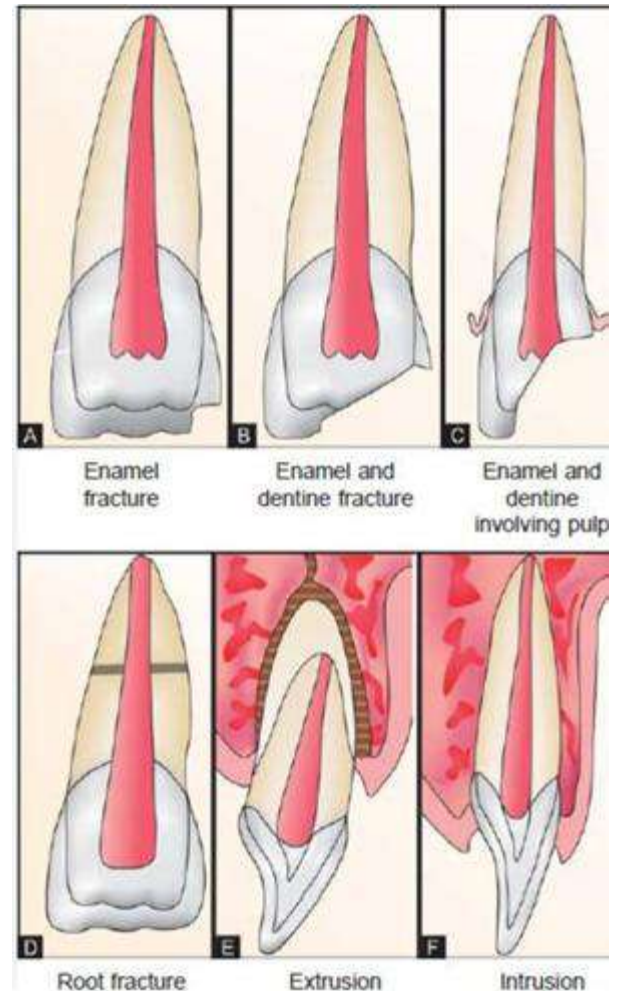
Most cases of dental injuries involve anterior teeth, specially the maxillary upper incisors & crown fractures with or without pulp exposure.

Ref: [Complicated Crown Fracture of Permanent Incisors -MDPI](#)

Dental injury without associated head and neck trauma can usually be evaluated and treated at a dental clinic. Such dental injuries include broken teeth, teeth knocked out of the mouth or teeth displaced by external forces. These dental injuries include swelling the gum and oral tissues

Who Classification

- 873.60: Enamel fracture
- 873.61: Crown fracture without pulp exposure
- 873.62: Crown fracture with pulp exposure
- 873.63: Root fracture
- 873.64: Crown/Root fracture
- 873.66: Tooth luxation
- 873.67: Intrusion & extrusion
- 873.68: Avulsion
- 873.69: Other injuries (Soft tissue)
- 802.20: Fracture of the alveolar process of the mandible
- 802.40: Fracture of the alveolar process of the maxilla
- 802.21: Fracture of the body of the mandible
- 802.41: Fracture of the body of the maxilla



Etiology of Traumatic Injuries

- Automobile injury
- Battered child
- Child abuse
- Drug abuse
- Epilepsy
- Fall from height
- Sports related injuries







A tooth fracture is one of the more common types of dental injury in boxers. It has an occurrence rate of 60% in those who do physical contact sports like MMA and boxing, according to the Department of Oral & Maxillofacial Surgery.



11:00



79%

Human behaviour



- Children exhibiting risk taking tendencies are more likely to suffer with dental trauma
- Children who are bullied also have a higher risk
- Those children with showing favourable social behaviour had a decreased risk



Inappropriate use of teeth

- Utilising front teeth as 'tools' such as to open bottles of beverages



৯০ দশকের মাঝে পেপসি খাওয়ার পর মুখায় এমন ছবি পাওয়া যেতো আর মুখা থেকে টাকা লিখা থাকলে সেটা নগত টাকা ক্যাশ ব্যাক করে দিতো মুখা দেখানোর পর.. কি সুন্দর দিন ছিলো আমাদের.....🍷

#শায়ান_আরিয়ান



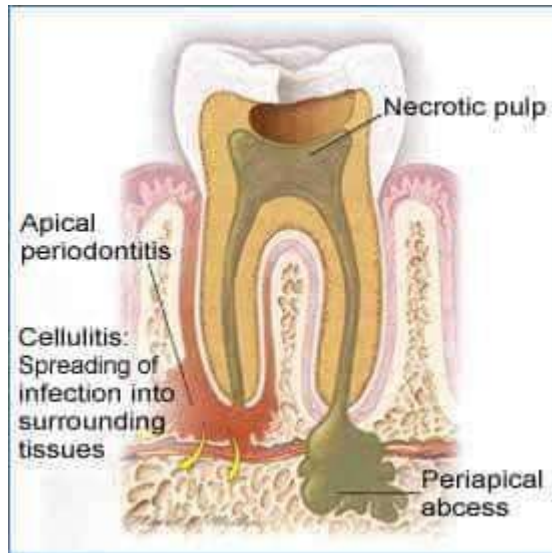


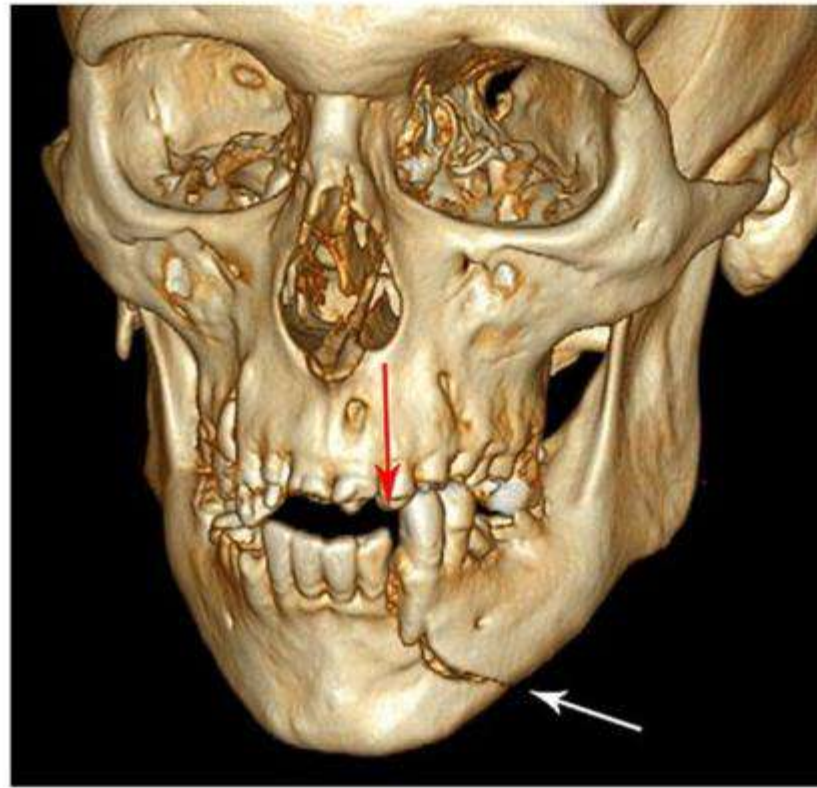
Lionel Messi even kept in the bloody tissue as he challenged for balls during the fiery clash Credit: Getty Images



Complications

Death of pulp tissue can lead to serious tooth infection and abscess



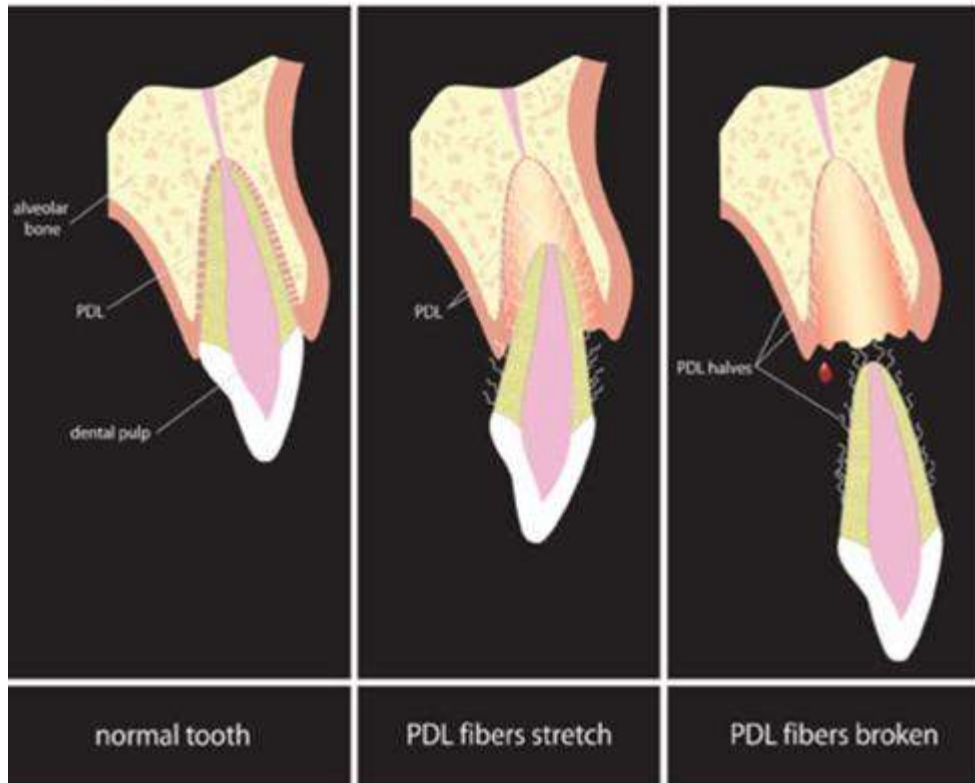


3D CT of mandible fracture.

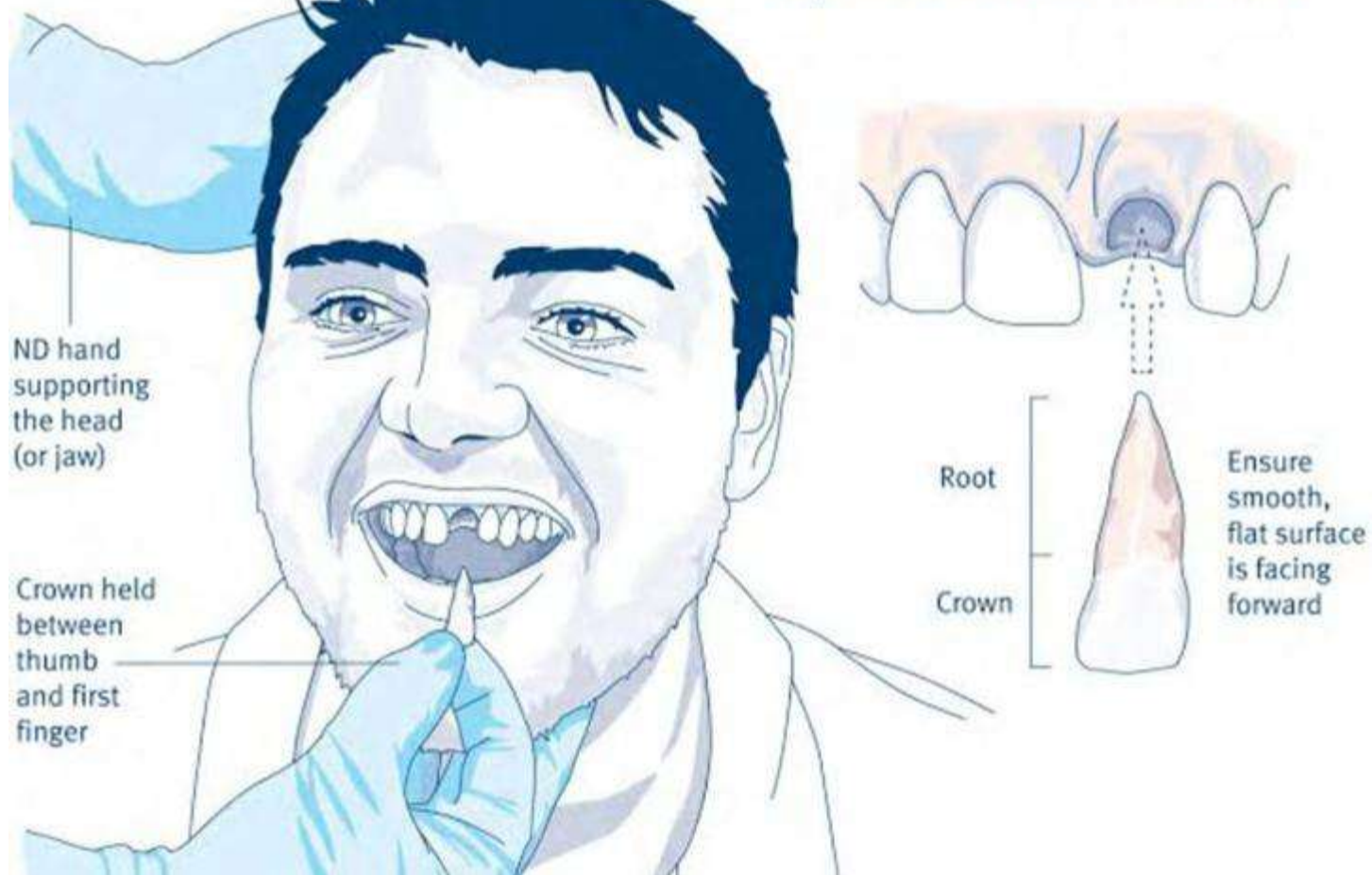


Dental avulsion

anatomy of tooth avulsion



Replantation of an avulsed tooth











Article

Dental Technique Improves Smile and Confidence: A Case Report of Post-Traumatic Discoloured Teeth- 30 Month Follow Up

Jul 2013 · Bangladesh Journal ... 2(1)

DOI: [10.3329/bjdre.v2i1.15576](https://doi.org/10.3329/bjdre.v2i1.15576)

Shahnaz Sultana Beauty · AA Moral · MS Alam



Initial Photograph



Preparation Of teeth for Full Veneer crown



Metal Trial



Photograph After treatment

Article

Full-text available

An Endodontic Enigma: A Case Report of External Inflammatory Root Resorption-2 years Follow up

Feb 2013 · City Dental College J... 10(1)

DOI: 10.3329/cdcj.v10i1.13833

 Shahnaz Sultana Beauty ·

Shahana Dastagir Sunny ·

 Mohammad Ali I Asgor Moral ·

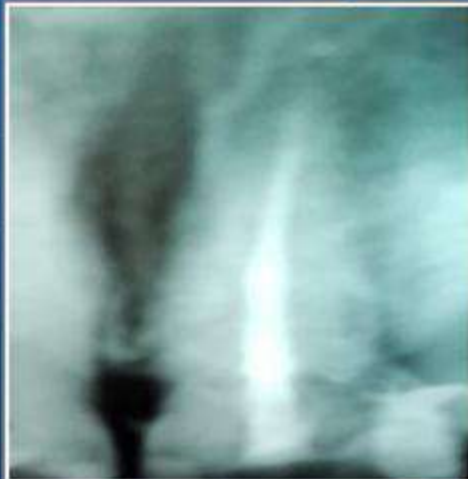
 Md Shamsul Alam





12 Year Follow up

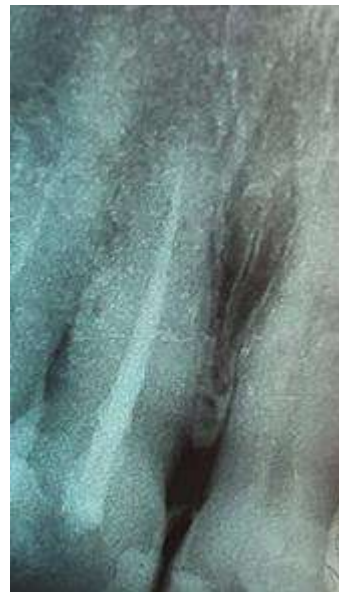
Pre Endodontic Flare up



A Case of 19-yr Follow-up



23 Year
Follow Up









10 year follow up



Pre Endodontic Flare up



Immediate after Obturation



4 year follow up

Prevention

Prevention is relatively difficult as it is nearly impossible to stop accidents from happening especially in children who are quite active. Regular use of gum shield during sports and other high risk activities such as (military training) is the most effective prevention for dental trauma.

Dental injuries could cost you a great expense, a lot of time due to their prolonged treatment time, and in some cases, might cause permanent damage to the person. Hence, it is essential that you invest in a mouthguard for your child, which promises to offer complete protection to their teeth, gums, and jaw.





Dental trauma is often more time consuming and costly compared with many other accidental injuries presenting to emergency clinics and hospitals. In certain groups, dental trauma is almost as high as one fifth of all bodily injuries

The Recommended Guidelines of the American Association of Endodontists for the Treatment of Traumatic Dental Injuries are intended to aid the practitioner in the management and treatment of dental injuries. Although it is impossible to guarantee permanent retention of a traumatized tooth, timely treatment of the tooth using recommended procedures can maximize the chances for success.

The guidelines are not fixed protocols. Variations in an individual patient's health, teeth, physical condition and personal preferences are important factors in an endodontist's treatment recommendation. Practitioners cannot guarantee treatment outcomes.



Thank You