Originating Council
Council on Clinical Affairs

Review Council
Council on Clinical Affairs

Adopted
2001

Revised

Purpose
The American Academy of Pediatric Dentistry (AAPD) intends these guidelines to define, describe appearances, and set forth objectives for general management of acute traumatic dental injuries rather than recommend specific treatment procedures that have been presented in considerably more detail in textbooks and the dental/medical literature.

Methods
This guideline is an update of the previous document revised in 2007. It is based on a review of the current dental and medical literature related to dental trauma. An electronic search was conducted using the following parameters: Terms: “teeth”, “trauma”, “permanent teeth”, and “primary teeth”; Field: all fields; Limits: within the last 10 years; humans; English. There were 5269 articles that matched these criteria. Papers for review were chosen from this list and from references within select articles. In addition, a review of the journal Dental Traumatology was conducted for the years 2000-2009. When data did not appear sufficient or were inconclusive, recommendations were based upon expert and/or consensus opinion including those from the 2008 AAPD “Symposium on Trauma: A Comprehensive Update on Permanent Tooth Trauma in Children” (Chicago, Ill). The recommendations are congruent with the 2007 guidelines developed by the International Association of Dental Traumatology.1-3

Background
Facial trauma that results in fractured, displaced, or lost teeth can have significant negative functional, aesthetic, and psychological effects on children.4,5 Dentists and physicians should collaborate to educate the public about prevention and treatment of traumatic injuries to the oral and maxillofacial region.

The greatest incidence of trauma to the primary teeth occurs at 2 to 3 years of age, when motor coordination is developing.6 The most common injuries to permanent teeth occur secondary to falls, followed by traffic accidents, violence, and sports.7-10 All sporting activities have an associated risk of orofacial injuries due to falls, collisions, and contact with hard surfaces.11 The AAPD encourages the use of protective gear, including mouthguards, which help distribute forces of impact, thereby reducing the risk of severe injury.12,13

Dental injuries could have improved outcomes if the public were aware of first-aid measures and the need to seek immediate treatment.14-17 Because optimal treatment results follow immediate assessment and care,18 dentists have an ethical obligation to ensure that reasonable arrangements for emergency dental care are available.19 The history, circumstances of the injury, pattern of trauma, and behavior of the child and/or caregiver are important in distinguishing nonabusive injuries from abuse.20

Practitioners have the responsibility to recognize, differentiate, and either appropriately manage or refer children with acute oral traumatic injuries, as dictated by the complexity of the injury and the individual clinician’s training, knowledge, and experience. Compromised airway, neurological manifestations such as altered orientation, hemorrhage, nausea/vomiting, or suspected loss of consciousness requires further evaluation by a physician.

To efficiently determine the extent of injury and correctly diagnose injuries to the teeth, periodontium, and associated structures, a systematic approach to the traumatized child is essential.21,22 Assessment includes a thorough medical and dental history, clinical and radiographic examination, and additional tests such as palpation, percussion, sensitivity, and mobility evaluation. Intraoral radiography is useful for the evaluation of dentoalveolar trauma. If the area of concern extends beyond the dentoalveolar complex, extraoral imaging may be indicated. Treatment planning takes into consideration the patient’s health status and developmental status, as well as extent of injuries. Advanced behavior guidance techniques or an appropriate referral may be necessary to ensure that proper diagnosis and care are given.
All relevant diagnostic information, treatment, and recommended follow-up care are documented in the patient's record. Appendix I is a sample document for recording assessment of acute traumatic injuries. This sample form, developed by the AAPD, is provided as a practice tool for pediatric dentists and other dentists treating children. It was developed by pediatric dentistry experts and offered to facilitate excellence in practice. This form, however, does not establish or evidence a standard of care. If such services are required, competent legal or other professional counsel should be sought. Well-designed follow-up procedures are essential to diagnose complications.

After a primary tooth has been injured, the treatment strategy is dictated by the concern for the safety of the permanent dentition. If determined that the displaced primary tooth has encroached upon the developing permanent tooth germ, removal is indicated. In the primary dentition, the maxillary anterior region is at low risk for space loss unless the avulsion occurs prior to canine eruption or the dentition is crowded. Fixed or removable appliances, while not always necessary, can be fabricated to satisfy parental concerns for esthetics or to return a loss of oral or phonetic function.

When an injury to a primary tooth occurs, informing parents about possible pulpal complications, appearance of a vestibular sinus tract, or color change of the crown associated with a sinus tract can help assure timely intervention, minimizing complications for the developing succedaneous teeth. Also, it is important to caution parents that the primary tooth's displacement may result in any of several permanent tooth complications, including enamel hypoplasia, hypocalcification, crown/root dilacerations, or disruptions in eruption patterns or sequence. The risk of trauma-induced developmental disturbances in the permanent successors is greater in children whose enamel calcification is incomplete.

The treatment strategy after injury to a permanent tooth is dictated by the concern for vitality of the periodontal ligament and pulp. Subsequent to the initial management of the dental injury, continued periodic monitoring is indicated to determine clinical and radiographic evidence of successful intervention (ie, asymptomatic, positive sensitivity to pulp testing, root continues to develop in immature teeth, no mobility, no periapical pathology). Initiation of endodontic treatment is indicated in cases of spontaneous pain, abnormal response to pulp sensitivity tests, lack of continued root formation or apexogenesis, or breakdown of periradicular supportive tissue. To restore a fractured tooth's normal esthetics and function, reattachment of the crown fragment is an alternative that should be considered. To stabilize a tooth following traumatic injury, a splint may be necessary. Flexible splinting assists in healing. Characteristics of the ideal splint include:

1. easily fabricated in the mouth without additional trauma;
2. passive unless orthodontic forces are intended;
3. allows physiologic mobility;
4. nonirritating to soft tissues;
5. does not interfere with occlusion;
6. allows endodontic access and vitality testing;
7. easily cleansed;
8. easily removed.

Instructions to patients having a splint placed include to:
1. consume a soft diet;
2. avoid biting on splinted teeth;
3. maintain meticulous oral hygiene;
4. use chlorhexidine/antibiotics if prescribed;
5. call immediately if splint breaks/loosens.

Recommendations

Infraction

Definition: incomplete fracture (crack) of the enamel without loss of tooth structure.

Diagnosis: normal gross anatomic and radiographic appearance; craze lines apparent, especially with transillumination.

Treatment objectives: to maintain structural integrity and pulp vitality.

General prognosis: Complications are unusual.

Crown fracture–uncomplicated

Definition: an enamel fracture or an enamel-dentin fracture that does not involve the pulp.

Diagnosis: clinical and/or radiographic findings reveal a loss of tooth structure confined to the enamel or to both the enamel and dentin.

Treatment objectives: to maintain pulp vitality and restore normal esthetics and function. Injured lips, tongue, and gingiva should be examined for tooth fragments. When looking for fragments in soft tissue lacerations, radiographs are recommended. For small fractures, rough margins and edges can be smoothed. For larger fractures, the lost tooth structure can be restored.

General prognosis: The prognosis of uncomplicated crown fractures depends primarily upon the concomitant injury to the periodontal ligament and secondarily upon the extent of dentin exposed. Optimal treatment results follow timely assessment and care.

Crown fracture–complicated

Definition: an enamel-dentin fracture with pulp exposure.

Diagnosis: clinical and radiographic findings reveal a loss of tooth structure with pulp exposure.

Treatment objectives: to maintain pulp vitality and restore normal esthetics and function. Injured lips, tongue, and gingiva should be examined for tooth fragments. When looking for fragments in soft tissue lacerations, radiographs are recommended.
• Primary teeth: Decisions often are based on life expectancy of the traumatized primary tooth and vitality of the pulpal tissue. Pulpal treatment alternatives are pulpotomy, pulpectomy, and extraction.3,6,23,26,30
• Permanent teeth: Pulpal treatment alternatives are direct pulp capping, partial pulpotomy, full-pulpotomy, and pulpectomy (start of root canal therapy).1,21,42,45 There is increasing evidence to suggest that utilizing conservative vital pulp therapies for mature teeth with closed apices is as appropriate a management technique as when used for immature teeth with open apices.35

General prognosis: The prognosis of crown fractures appears to depend primarily upon a concomitant injury to the periodontal ligament.21 The age of the pulp exposure, extent of dentin exposed, and stage of root development at the time of injury secondarily affect the tooth’s prognosis.21

Optimal treatment results follow timely assessment and care.

Crown/root fracture
Definition: an enamel, dentin, and cementum fracture with or without pulp exposure.

Diagnosis: Clinical findings usually reveal a mobile coronal fragment attached to the gingiva with or without a pulp exposure. Radiographic findings may reveal a radiolucent oblique line that comprises crown and root in a vertical direction in primary teeth and in a direction usually perpendicular to the central radiographic beam in permanent teeth. While radiographic demonstration often is difficult, root fractures can only be diagnosed radiographically.1,3,6,21,30

Treatment objectives: to maintain pulp vitality and restore normal esthetics and function.11
• Primary teeth: When the primary tooth cannot or should not be restored, the entire tooth should be removed unless retrieval of apical fragments may result in damage to the succedaneous tooth.3,6
• Permanent teeth: The emergency treatment objective is to stabilize the coronal fragment. Definitive treatment alternatives are: to remove the coronal fragment followed by a supragingival restoration or necessary gingivectomy; osteotomy; or surgical or orthodontic extrusion to prepare for restoration. If the pulp is exposed, pulpal treatment alternatives are pulp capping, pulpotomy, and root canal treatment.1,21,42

General prognosis: Although the treatment of crown-root fractures can be complex and laborious, most fractured permanent teeth can be saved.21 Fractures extending significantly below the gingival margin may not be restorable.

Root fracture
Definition: a dentin and cementum fracture involving the pulp.

Diagnosis: Clinical findings reveal a mobile coronal fragment attached to the gingiva that may be displaced. Radiographic findings may reveal 1 or more radiolucent lines that separate the tooth fragments in horizontal fractures. Multiple radiographic exposures at different angulations may be required for diagnosis. A root fracture in a primary tooth may be obscured by a succedaneous tooth.1,6,21

Treatment objectives:
• Primary teeth: Treatment alternatives include extraction of coronal fragment without insisting on removing apical fragment or observation.3,6,23 It is not recommended to reposition and stabilize the coronal fragment.3
• Permanent teeth: Reposition and stabilize the coronal fragment.1,21 in its anatomically correct position as soon as possible to optimize healing of the periodontal ligament and neurovascular supply while maintaining esthetic and functional integrity.24

General prognosis: Pulp necrosis in root-fractured teeth is attributed to displacement of the coronal fragment and mature root development.21,47 In permanent teeth, the location of the root fracture has not been shown to affect pulp survival after injury.21,47 Therefore, preservation of teeth with root fractures occurring in the tooth’s cervical third should be attempted.21,47 Young age, immature root formation, positive pulp sensitivity at time of injury, and approximating the dislocation within 1 mm have been found to be advantageous to both pulpal healing and hard tissue repair of the fracture.39,47,48

Concussion
Definition: injury to the tooth-supporting structures without abnormal loosening or displacement of the tooth.

Diagnosis: Because the periodontal ligament absorbs the injury and is inflamed, clinical findings reveal a tooth tender to pressure and percussion without mobility, displacement, or sulcular bleeding. Radiographic abnormalities are not expected.1,3,6,21,23,32

Treatment objectives: to optimize healing of the periodontal ligament and maintain pulp vitality.1,3,6,21,23,24,32,49

General prognosis: For primary teeth, unless associated infection exists, no pulpal therapy is indicated.6 Although there is a minimal risk for pulp necrosis, mature permanent teeth with closed apices may undergo pulpal necrosis due to associated injuries to the blood vessels at the apex and, therefore, must be followed carefully.21

Subluxation
Definition: injury to tooth-supporting structures with abnormal loosening but without tooth displacement.

Diagnosis: Because the periodontal ligament attempts to absorb the injury, clinical findings reveal a mobile tooth without displacement that may or may not have sulcular bleeding. Radiographic abnormalities are not expected.1,3,6,21
Treatment objectives: to optimize healing of the periodontal ligament and neurovascular supply.1,3,6,21,23,24,26-28,30,32,49

- Primary teeth: The tooth should be followed for pathology.
- Permanent teeth: Stabilize the tooth and relieve any occlusal interferences. For comfort, a flexible splint can be used. Splint for no more than 2 weeks.

General Prognosis: Prognosis is usually favorable.23,32 The primary tooth should return to normal within 2 weeks.6

Mature permanent teeth with closed apices may undergo pulpal necrosis due to associated injuries to the blood vessels at the apex and, therefore, must be followed carefully.21

Lateral luxation

Definition: displacement of the tooth in a direction other than axially. The periodontal ligament is torn and contusion or fracture of the supporting alveolar bone occurs.23,32,50

Diagnosis: Clinical findings reveal that a tooth is displaced laterally with the crown usually in a palatal or lingual direction and may be locked firmly into this new position. The tooth usually is not mobile or tender to touch. Radiographic findings reveal an increase in periodontal ligament space and displacement of apex toward or though the labial bone plate.1,3,6,21,50

Treatment objectives:

- Primary teeth: to allow passive or spontaneous repositioning if there is no occlusal interference.3 When there is occlusal interference, the tooth can be gently repositioned or slightly reduced if the interference is minor.3 When the injury is severe or the tooth is near exfoliation, extraction is the treatment of choice.3,6,24,26-28,30
- Permanent teeth: to reposition as soon as possible and then to stabilize the tooth in its anatomically correct position to optimize healing of the periodontal ligament and neurovascular supply while maintaining esthetic and functional integrity. Re-positioning of the tooth is done with digital pressure and little force. A displaced tooth may need to be extruded to free itself from the apical lock in the cortical bone plate. Splinting an additional 2 to 4 weeks may be needed with breakdown of marginal bone.1,21,24,49,50

General Prognosis: Primary teeth requiring repositioning have an increased risk of developing pulpal necrosis compared to teeth that are left to spontaneously reposition.6 In mature permanent teeth with closed apices, pulp necrosis and pulp canal obliteration are common healing complications while progressive root resorption is less likely to occur.50

Intrusion

Definition: apical displacement of tooth into the alveolar bone. The tooth is driven into the socket, compressing the periodontal ligament and commonly causes a crushing fracture of the alveolar socket.23,32,51

Diagnosis: Clinical findings reveal that the tooth appears to be shortened or, in severe cases, it may appear missing. The tooth’s apex usually is displaced labially toward or through the labial bone plate in primary teeth and driven into the alveolar process in permanent teeth. The tooth is not mobile or tender to touch. Radiographic findings reveal that the tooth appears displaced apically and the periodontal ligament space is not continuous. Determination of the relationship of an intruded primary tooth with the follicle of the succedaneous tooth is mandatory. If the apex is displaced labially, the apical tip can be seen radiographically with the tooth appearing shorter than its contra-lateral. If the apex is displaced palatally towards the permanent tooth germ, the apical tip cannot be seen radiographically and the tooth appears elongated. An extraoral lateral radiograph also can be used to detect displacement of the apex toward or though the labial bone plate. An intruded young permanent tooth may mimic an erupting tooth.1,3,6,21,51

Treatment objectives:

- Primary teeth: to allow spontaneous reeruption except when displaced into the developing successor. Extraction is indicated when the apex is displaced toward the permanent tooth germ.1,24,26-28,50
- Permanent teeth: to reposition passively (allowing re-eruption to its preinjury position), actively (repositioning with traction), or surgically and then to stabilize the tooth with a splint for up to 4 weeks in its anatomically correct position to optimize healing of the periodontal ligament and neurovascular supply while maintaining esthetic and functional integrity. For immature teeth with more eruptive potential (root ½ to 3/5 formed), the objective is to allow for spontaneous eruption. In mature teeth, the goal is to reposition the tooth with orthodontic or surgical extrusion and initiate endodontic treatment within the first 3 weeks of the traumatic incidence.1,21,24,49,51

General Prognosis: In primary teeth, 90% of intruded teeth will reerupt spontaneously (either partially or completely) in 2 to 6 months.23,52 Even in cases of complete intrusion and displacement of primary teeth through the labial bone plate, a retrospective study showed the reeruption and survival of most teeth for more than 36 months.53 Ankylosis may occur, however, if the periodontal ligament of the affected tooth was severely damaged, thereby delaying or altering the eruption of the permanent successor.6 In mature permanent teeth with closed apices, there is considerable risk for pulp necrosis, pulp canal obliteration, and progressive root resorption.51 Immature permanent teeth that are allowed to reposition spontaneously demonstrate the lowest risk for healing complications.74,55 Extent of intrusion (7 mm or greater) and adjacent intruded teeth have a negative influence on healing.54
Extrusion
Definition: partial displacement of the tooth axially from the socket; partial avulsion. The periodontal ligament usually is torn.23,32,56
Diagnosis: Clinical findings reveal that the tooth appears elongated and is mobile. Radiographic findings reveal an increased periodontal ligament space apically.1,3,6,21,56
Treatment objectives:
- Primary teeth: to allow tooth to reposition spontaneously or reposition and allow for healing for minor extrusion (<3 mm) in an immature developing tooth. Indications for an extraction include severe extrusion or mobility, the tooth is nearing exfoliation, the child’s inability to cope with the emergency situation, or the tooth is fully formed.6,23,24,26-28,30,37
- Permanent teeth: to reposition as soon as possible and then to stabilize the tooth in its anatomically correct position to optimize healing of the periodontal ligament and neurovascular supply while maintaining esthetic and functional integrity. Repositioning may be accomplished with slow and steady apical pressure to gradually displace coagulum formed between root apex and floor of the socket. Splint for up to 2 weeks.1,21,24,49,56
General prognosis: There is a lack of clinical studies evaluating repositioning of extruded primary teeth.6 In permanent mature teeth with closed apices, there is considerable risk for pulp necrosis and pulp canal obliteration.56 These teeth must be followed carefully.1,21

Avulsion
Definition: complete displacement of tooth out of socket. The periodontal ligament is severed and fracture of the alveolus may occur.23,32
Diagnosis: Clinical and radiographic findings reveal that the tooth is not present in the socket or the tooth already has been replanted. Radiographic assessment will verify that the tooth is not intruded when the tooth was not found.1,3,6,21,23,32
Treatment objectives:
- Primary teeth: to prevent further injury to the developing successor. Avulsed primary teeth should not be replanted because of the potential for subsequent damage to developing permanent tooth germ.3,6,21,23,24,27
- Permanent teeth: to replant as soon as possible and then to stabilize the replanted tooth in its anatomically correct location to optimize healing of the periodontal ligament and neurovascular supply while maintaining esthetic and functional integrity except when replanting is contraindicated by:
  1. the child’s stage of dental development (risk for ankylosis where considerable alveolar growth has to take place);
  2. compromising medical condition; or
  3. compromised integrity of the avulsed tooth or supporting tissues.
Flexible splinting for 2 weeks is indicated.2 Tetanus prophylaxis and antibiotic coverage should be considered.2,21,24,58,59 Treatment strategies are directed at avoiding inflammation that may occur as a result of the tooth’s atachment damage and/or pulpal infection.60,61
General prognosis: Prognosis in the permanent dentition is primarily dependent upon formation of root development and extraoral dry time.2,21 The tooth has the best prognosis if replanted immediately.24,61 If the tooth cannot be replanted within 5 minutes, it should be stored in a medium that will help maintain vitality of the periodontal ligament fibers.29,62 The best (ie, physiologic) transportation media for avulsed teeth include (in order of preference) ViaspanTM, Hank’s Balanced Salt Solution (tissue culture medium), and cold milk.58,59,63-65 Next best would be a non-physiologic medium such as saliva (buccal vestibule), physiologic saline, or water.58,59,63-65 Although water is detrimental to cell viability due to its low osmolality and long term storage (ie, more than 20 minutes) in water has an adverse effect on periodontal ligament healing, it is a better choice than dry storage.24 Limited tooth storage in a cell-compatible medium prior to replantation has produced similar healing results as compared with immediately-replanted teeth.66 The risk of ankylosis increases significantly with an extraoral dry time of 20 minutes.29,62,67,68 An extraoral dry time of 60 minutes is considered the point where survival of the root periodontal cells is unlikely.61 In permanent avulsed teeth, there is considerable risk for pulp necrosis, root resorption, and ankylosis.63,65,70
Additional considerations: Recent evidence suggests that success of replantation is dependent upon many factors, some of which the clinician can manipulate in a manner that favors more successful outcomes. Decision Trees for acute management of avulsed permanent incisors have been developed with up-to-date information in an easy to use flowchart format.60,71
Revascularization: An immature (ie, open apex) tooth has the potential to establish revascularization when there is a minimum of a 1.0 mm apical opening.72 Complete pulpal revascularization has been shown to occur at a rate of 18% among immature teeth.73 It appears that antibiotic treatment reduces contamination of the root surface and/or pulp space, thereby creating a biological environment that aids revascularization.74 On the other hand, a mature tooth (ie, closed apex or apical opening <1 mm) has little or no chance of revascularization. Researchers have demonstrated that immature teeth soaked in doxycycline solution have a greater rate of pulp revascularization.74,75
Periodontal ligament (PDL) management – transitional therapy: When a tooth has been out of the oral cavity and in a dry environment for greater than 60 minutes, the PDL has no chance of survival. If such a tooth is replanted, it is
likely to undergo osseous replacement resorption and, over time, the tooth will become ankylosed and ultimately will be lost. Because pediatric dentists need to consider the growth and development of the child patient, the goal for a tooth that has been avulsed for greater than 60 minutes with dry storage is to delay the osseous replacement and, hence, ankylosis process as long as possible. To slow down this process, the remaining PDL should be removed because otherwise it becomes a stimulus for inflammation that accelerates infection-related resorption. The remaining PDL can be removed by several methods: gentle scaling and root planning, soft pumice prophylaxis, gauze, or soaking the tooth in 3% citric acid for 3 minutes. This should be followed by a sodium fluoride treatment for 20 minutes. The rationale for this fluoride soak is based upon evidence that this procedure will delay, but not prevent, ankylosis; fluoroapatite is more resistant to ankylosis than hydroxyapatite. When teeth are soaked in fluoride before replantation, it has been shown to reduce significantly the risk of resorption after a follow-up of 5 years. Despite these recommendations, teeth that have been out of the oral cavity for greater than 60 minutes with dry storage have a poor prognosis and will not survive long term. Possible contraindications to tooth replantation: There are possible contraindications to tooth replantation. Examples are immunocompromised health, severe congenital cardiac anomalies, severe uncontrolled seizure disorder, severe mental disability, severe uncontrolled diabetes, and lack of alveolar integrity.

Current research: Antiresorptive-regenerative therapies may have potential for enhancing the prognosis of avulsed teeth. Treatment strategies are directed at avoiding or minimizing inflammation, increasing revascularization, and producing hard barriers in teeth with open apices.

New treatment strategies also are directed at specific clinical challenges that include decoronation as an approach to treat ankylosis in growing children and transplantation of premolars as an approach for replacing avulsed teeth. Dental practitioners should follow current literature and consider carefully evidence-based recommendations that may enhance periodontal healing and revascularization of avulsed permanent teeth.

Orthodontic movement of traumatized teeth
Teeth that have been traumatized must be evaluated carefully prior to beginning or continuing orthodontic movement. Even with more simple crown/root fractures without pulpal involvement, a 3 month wait is recommended before tooth movement should begin. Other minor trauma to the tooth and periodontium (eg, minor concussions, subluxations, and extrusions) also require a 3 month wait. When there has been moderate to severe trauma/damage to the periodontium, a minimum of 6 months wait is recommended. Teeth that have sustained root fractures cannot be moved for at least 1 year. Where there is radiographic evidence of healing, these teeth can be moved successfully. In teeth that require endodontics, movement can begin once healing is evident. Because teeth that have sustained severe periodontal injury have been found to undergo pulp necrosis when orthodontic movement was initiated even after a rest period, light intermittent forces are recommended along with avoidance of prolonged tipping forces and contact with the buccal or lingual cortical plates.

The use of a mouthguard during fixed appliance therapy is recommended. Studies have found the most effective is a modified custom mouthguard. The newer stock ortho-channel mouthguards may be more convenient, but there are no studies to date on their effectiveness.
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<th>ASSESSMENT OF ACUTE TRAUMATIC INJURIES</th>
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**Check if present and describe:**
- Non-dental Injuries
- Loss of consciousness
- Altered orientation/mental status
- Hemorrhage from nose/ears
- Headache/Nausea/Vomiting
- Neck Pain
- Spontaneous dental pain
- Pain on mastication
- Reaction to thermal changes
- Previous dental trauma
- Other complaints

**MANAGEMENT PRIOR TO EXAM**

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**Check if present and describe:**
- Facial fractures
- Lacerations
- Contusions
- Swelling
- Abrasions
- Hemorrhage/drainage
- Foreign bodies
- TMJ deviation/asymmetry

**OTHER FINDINGS/COMMENTS:**

**Check if injured and describe**
- Lips
- Frenae
- Buccal Mucosa
- Gingivae
- Palate
- Tongue
- Floor of mouth

**PHOTOGRAPHS OBTAINED: Y N**

**DIAGRAM OF INJURIES**

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<td>Canine classification</td>
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<td>Overbite (%)</td>
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This sample form, developed by the American Academy of Pediatric Dentistry, is provided as a practice tool for pediatric dentists and other dentists treating children. It was developed by experts in pediatric dentistry and is offered to facilitate excellence in practice. However, this form does not establish or evidence a standard of care. In issuing this form, the American Academy of Pediatric Dentistry is not engaged in rendering legal or other professional advice. If such services are required, competent legal or other professional counsel should be sought.
References


54. Andreasen JO, Bakland L, Andreasen FM. Traumatic intrusion of permanent teeth. Part 2. A clinical study of the effect of preinjury and injury factors, such as sex, age, stage of root development, tooth location, and extent of injury including number of intruded teeth on 140 intruded permanent teeth. Dental Traumatol 2006;22(2):90-8.


