Craniofacial and oral manifestation of child abuse: A dental surgeon’s guide

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Abstract
Children should be given the privilege to mature in a loving, supportive family environment that promotes the development of an individual to his/her full potential. The abuse and neglect of children is a problem that pervades all segments of society. Dentists/forensic odontologists are in a strategic position to recognize mistreated children. While the detection of dental care neglect is an obvious responsibility for dentists, other types of child abuse and neglect also may present themselves in the dental office. Once this information is known to the dentist, he/she can join physicians in protecting children from injury.

Key words: Child abuse, dentist, neglect, odontologist, oral manifestations

Introduction
Child abuse is a state of emotional, physical, economic, and sexual maltreatment meted out to a person below the age of 18 and is a globally prevalent phenomenon.[1] More than strangers, care providers themselves and ideal figures of children are involved in child abuse.[2,3] Dentists trained in a mandated child abuse curriculum can provide valuable information and assistance to physicians about oral and dental aspects of child abuse and neglect.[4,5]

Types of Child Abuse and Neglect
Child abuse can be classified as physical, emotional, sexual abuses, failure to thrive, intentional drugging or poisoning, and Munchausen syndrome of proxy. The neglect can be health care, dental, safety, physical, or educational.[8]

Orofacial Injuries in Physical Abuse
Craniofacial trauma with resultant physical injury occurs in more than half of the reported cases of child abuse. It appears likely, then, that dentists frequently treat children who may be victims of physical child abuse. Identification of orofacial injuries per se should present little difficulty to the astute dental clinician. However, ascertainment of suspected child abuse from orofacial injuries can be extremely problematic.[7] Careful intraoral examination and perioral examination are necessary in all cases of suspected abuse. Some authorities believe that the oral cavity may be a central focus for physical abuse because of its significance in communication and nutrition.[9]

The injuries most commonly are inflicted with blunt trauma with an instrument, eating utensils, hands or fingers, or by scalding liquids or caustic substances [Figure 1].[9,10]
Age-appropriate nonabusive injuries to the mouth are common and must be distinguished from abuse on the basis of history, the circumstances of the injury and pattern of trauma [Figure 2], and the behavior of the child, caregiver, or both. Discolored teeth, indicating pulpal necrosis, may result from previous trauma.

**Injuries to the Craniofacial Complex**

Physical injuries to the craniofacial complex in child abuse include facial, head, and intraoral injuries in decreasing frequency of occurrence. Facial injuries include, in order of decreasing frequency, contusions and ecchymoses (bruises), abrasions and lacerations, and miscellaneous injuries in decreasing frequency. Intraoral injuries include contusions and ecchymoses, abrasions and lacerations, and trauma to the dentition in decreasing frequency. Physically abused children are often young children. A dentist is most likely to detect inflicted injuries of the face and mouth (e.g., slap marks, pinched ears, or bite marks). Since physical punishment is commonplace in our society, physicians and dentists need guidelines as to when corporal punishment is excessive and therefore representative of physical abuse.

**Role of Dentist in Preventing Child Abuse**

Dental practitioners have four ‘R’s of responsibility—recognize, record, report, and refer—to protect our patients and their families from the cycle of violence, all too prevalent in the society today. When a child has oral injuries or dental neglect is suspected, the child will benefit from the physician’s consultation with a pediatric dentist or a dentist with formal training in forensic odontology. The pedodontist sees many young children for comprehensive care and preventive dentistry programs. Pediatric dentists and oral and maxillofacial surgeons, whose advanced education programs include a mandated child abuse curriculum, can provide valuable information and assistance to physicians about oral and dental aspects of child abuse and neglect. Physician members of multidisciplinary child abuse and neglect teams should identify such dentists in their communities to serve as consultants for these teams. In addition, physicians with experience or expertise in child abuse and neglect should make themselves available to dentists and to dental organizations as consultants and educators. Such efforts will strengthen our ability to prevent and detect child abuse and neglect and enhance our ability to care for and protect children.

**Conclusion**

Dentists with an interest in child abuse and some training in forensic dentistry should express their interest to various state agencies, such as state welfare departments and hospital trauma teams, in serving as dental consultants. It is extremely important for all appropriate agencies and for
central registries at central, state, and local levels to have dental consultants for evaluation of oral lesions in cases of suspected abuse and for training of personnel.\(^9\)

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