A Typical Case of Child Abuse: A Case Report

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Abstract
Child abuse is common but still unnoticed, undiagnosed, neglected childhood problem in Nepal. Child abuse has diverse clinical manifestation ranging from minor injury to severe head trauma to simulating severe medical problem. The true incidence of intentional head injury in children remains uncertain in Nepal. We are reporting a case of child abuse with blunt head trauma with intracranial hemorrhage presenting as a loss of consciousness simulating as a diabetic ketoacidosis (DKA)

Key words: Children, child abuse, DKA

Introduction
Child abuse is very common pediatric problem worldwide and its incidence is increasing in Nepal and requires a high index of clinical suspicion to make diagnosis. Head injury and its complications of intracranial hemorrhage is one of the main causes of death due to child abuse¹. As most of cases are often not suspected from history they are often missed in 30% of cases². Every year, about 4–16% of children are physically abused and one in ten is neglected or psychologically abused.³ Child abuse has iceberg phenomenon, with only tip presents to pedriatrician with most of cases hidden in society. The identification of suspected abuse is urgently required not only to treat the current condition, but also to protect the child from a subsequent, perhaps more serious, injury. An abused child may have as much as a 50 percent chance of incurring further abuse and a 10 percent chance of dying if abuse is not detected at the initial presentation⁴,⁵,⁶. A delay in seeking medical care; in 40 percent of cases of abuse, parents delay seeking care until the day after the child's injury occurs, and another 30 percent delay seeking care until one to four days after the injury⁷.

The Case
A six year girl was brought to pediatric emergency department of Kanti Children's Hospital with history of loss of consciousness for one and half hour. There was no history of fever, ear discharge, and abnormal movement of any part of the body, up rolling of eyes, frothing from mouth, incontinence of urine or stool. There was a history of accidental injury at the left side of the cheek due to banging against the door six days prior to this episode but without any history of loss of consciousness at that time. There were two similar history of loss of consciousness (LOC) six months back, at fifteen days interval. Each episode lasted for about 3-4 minutes and the child regained consciousness on her own without any medication. No medical help was taken at that time for LOC.

Past history suggested that there was a history of increased appetite without weight gain since three years of age. She also had a history of increased frequency of urination about 8-10 times during daytime and 6-7 times at night for the past one year. She had excessive bleeding after trivial skin injury but no history of gum bleeding or blood in urine and stool. There was easy bruising but the
reliability regarding bruises were contradictory amongst both the father and mother when asked separately (father said that they were present before and occurred during playing, while the mother stated that they were present after coming to the hospital only).

She was a product of a non-consanguineous marriage between a 28 year old father who is a taxi driver by profession in Kathmandu and a 22 year old housewife mother. She was born at home, full term, normal delivery, with an unknown birth weight. Antenatal, natal and post natal periods were uneventful; there was no excessive bleeding from the umbilical stump. She was living with her step mother as her own mother was out of the country since the last three years. There was no history suggestive of bleeding disorder in family. She has an eight month old younger brother who did not have problems similar to hers. She was immunized as per EPI Schedule and there was no history of developmental delay.

On physical examination she was ill looking with poor GCS (7/15) and stable vitals. CRT was <2sec, SPO2: 100% with O2 at 2 liters per minute via nasal prongs. There was neither kussmaul breathing nor any signs of dehydration. There was no pallor, lymphadenopathy, cyanosis, clubbing and edema. There were multiple bruises of different ages all over the body including injury marks on the labia majora with bruising. There was bowing of the left upper limb and right lower limb. Her weight for age was 50% of expected (Grade: IV-according to IAP classification). CNS examination revealed poor GCS (7/15), bilaterally unequal and non reacting pupils, both the planters were up going and there were no signs of meningeal irritation. Muscle tone was normal but the power was decreased (2/5), Deep Tendon Jerks in the upper limbs were normal but exaggerated in the lower limbs. Other systems were essentially normal.

Investigations showed that the blood glucose was 226 mg% and urine ketones were positive. But after 12 hours the blood sugar level was normal and ketones were also negative. Renal function tests and coagulation profile were both normal. Skeletal survey showed healing fractures of multiple bones. Neuroimaging could not be done. Based on the history which was unreliable, with the child having bruises all over the body including the genital region, multiple fractures, transiently high blood sugar and a normal coagulation profile, a diagnosis of child abuse was suspected.

Police were informed from the very beginning and legal procedures were started. In spite of close monitoring, ventilator care and extensive supportive care in the PICU, the child’s condition remained poor. She died on the eighth day of admission. Her body was sent for postmortem. Post mortem findings on external examination was similar to our findings. However on internal examination there was even a subdural hematoma at the occipital region which was suggestive of blunt injury to the head. Child abuse was confirmed and necessary actions taken against the parents.
Discussion

This case highlights the fact that child abuse has to be considered in the differential diagnosis of many childhood disease conditions like bleeding disorder, coagulopathy and head injury. Many a times we fail to recognize such conditions thus neglecting child abuse and failing our medical duties towards the health of children. Child maltreatment is defined as intentional harm or threat of harm to a child by a person who is acting as the role of caretaker. Child abuse can take many forms, such as physical abuse, sexual abuse, emotional abuse and child neglect. Defining a given behavior as abusive and harmful varies both and within cultures as well as overtime. Cupping, coining, spooning, moxibustion etc are culturally acceptable practices. Child abusers are isolated with low self esteem, unemployed, and poor, usually themselves victims of abuse in childhood. Ten percent of such perpetrators or sociopaths. Mentally handicapped children are at a higher risk for the same. The biggest myth is that the dangers come from strangers but in most of the cases the abuser is someone the parents or child knows and is often trusted by parents or family. Separating head injury from accidental cause from non accidental causes may be difficult. Children with noninflicted traumatic brain injury (TBI) were more likely to present to the emergency department as compared to children with inflicted TBI (44.8% vs. 8.3%)11. Ophthalmic examination of children with suspected abuse is important for diagnostic as well as diagnostic purposes. In purpoely inflicted injuries; retinal hemorrhages are likely to be multiple, bilateral, involving the pre-retinal and intra-retinal layers, cover the macula, and extend to the periphery of the retina. The finding of subdural hemorrhages on different sides or of apparently different densities or of generalized edema is strongly suggestive of purposely inflicted TBI13. Factors strongly related to poor outcome are young age, duration of unconsciousness, and low Glasgow coma scale. Clinicians need to be aware of the possibility of child abuse in any case of traumatic head injury without history of antecedce.

Eventhough UN Convention articles 49, on the rights of the child came in to force on September 2, 1990, the violations of rights of children has been increasing. 1.5 million girls and 7.5 million boys worldwide were abused sexually in 2002 (UN secretary General Report). Among School going children of Kathmandhu, more than 40 percent children have reported being abused sexually (CWIN-SCNN study 2003).

Every child has a right to health and life free from violence and abuse. Whilst we recognize a child as an individual possessing rights, it is imperative to have laws and procedures that operate in the best interest of the child and that they protect every child from violation of their rights; thereby helping them to become healthy and responsible adults.

Everyday as practising pediatrician we come across cases of child abuse or neglect in various forms but we often fail to recognize some forms of abuses. Even if we do suspect or diagnose it, there seems to be little that we can do to deal with it. It is important that there be empathy and coordination between various agencies that deal with child welfare. Paediatricians are the first to be in contact with a child in need of protection, so they need to recognise child abuse or neglect and they need to incorporate their knowledge and the skills to address this in their day to day practise.

References


