

An unusual case of penetrating intracranial injury due to scissors

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SUMMARY

Craniocerebral penetrating non-missile injuries caused by metallic foreign bodies are uncommon events. Healthy 10 year-old boy applied to the hospital emergency service with his parents. Family members stated that the scissors have been stalled his head accidentally by his sister when they had played together. During physical examination the scissors located on left parietal region of the head was examined. There was no loss of consciousness and oriented with normal vital signs. Radiological investigation demonstrated a hyper dense foreign body (scissors) penetrating cranial cavity and ended before reaching posterior region of the left parietal lobe. To our knowledge, the presented was rare case of intracranial penetrating scissor, which was not removed until, injured, reached the hospital. Our goal was to discuss the rare case of penetrating non-missile foreign body cranial injury from medico legal aspect.

Keywords: penetrating injury – scissors – head injury – forensic science

Neobvyklý případ penetrujícího intrakraniálního poranění způsobeného nůžkami

SOUHRN

Nestřelná kraniocerebrální penetrující poranění způsobená kovovými cizími tělesy nejsou obvyklá. Na pohotovost byl rodiči přiveden jinak zdravý 10 letý chlapec. Rodiče tvrdili, že k poranění nůžkami došlo náhodně při hře se sestrou chlapce. Nůžky byly lokalizovány v pravé parietální krajině. Chlapec byl normálně orientován, při vědomí. Radiologické vyšetření prokázalo hyperdenzní cizí těleso (nůžky) penetrující do dutiny lební dosahující k zadní části levého parietálního laloku mozku. Diskutujeme tento vzácný případ kranialního poranění cizím tělesem ze soudně lékařského hlediska.

Klíčová slova: penetrující poranění – nůžky – poranění hlavy – forenzní medicína

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Craniocerebral penetrating non-missile injuries caused by metallic foreign bodies are uncommon among the civilian population (1-3). These injuries have been mostly due to industrial accidents in industrial fields or criminal activities (2,4,5). Although intracranial cavity enclosed by the cranium which is consisting of rough bony structure and this type of injuries are very rare, penetrating non-missile injuries caused by metallic foreign bodies can be seen like the other body cavities. Nails, knives, screwdrivers, sewing needles, scissors, bullets, vice clamp and shrapnel have been described related to penetrating brain injury (1,6,8-10). We present a case of craniocerebral trauma due to scissors that penetrated intracranial cavity without dural injury.

CASE REPORT

A previously healthy 10 year-old male applied to hospital emergency service with his parents. Family members stated that the scissors have been stalled his head accidentally by his sister when they had played together. During physical examination the scissors which located on the posterior of left parietal region of the head was observed. There was no loss of consciousness and oriented with normal vital signs. No other apparent injuries and neurological deficit symptoms were defined. A cranial lateral X-ray and cranial computed tomography (CT) demonstrated a hyper dense foreign body (scissors) penetrating cranial cavity and ended before reaching posterior region of the left parietal lobe (Image 1,2 and 3). He was admitted to the neurosurgery department after the initial physical, neurological and radiological examination and surgical exploration of the wound was performed under general anesthesia. After the skin incision, the scissors removed with the craniectomy material which was 2x1 cm in size. Dural or cerebral laceration underneath of the injury was not inspected. At the end of the operation, a plastic drain was placed under the skin and the incision closed with sutures. He was discharged from hospital on 8th day post-surgery. Subsequent physical and neurological examinations, performed at the neurosurgery polyclinic and Bursa Branch of the

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