Intracranial Sewing Needles in an Adult Patient

Erişkin Bir Hastada İntrakranial Dikiş İğneleri

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ABSTRACT

A 37-year-old patient is reported with intracranial sewing needles, which were located in the right frontal lobe. Both clinical and radiological findings suggested that these needles must have been introduced in infancy before the closure of anterior fontanelle during an unsuccessful homicide. Usually intracranial foreign objects are placed due to penetrating trauma or surgical procedures. Child abuse has been known for centuries. Many types of physical traumas have been reported, especially in Western countries. In Iran, insertion of sewing needles into the brain aiming to kill the infant have been seen in a lot of cases. This situation takes part in a lot of Persian stories. We reported a 37-year-old man who had 2 intracranial sewing needles with unknown etiology.

KEYWORDS: Intracranial sewing needles, Infanticide, Anterior fontanelle

ÖZ


ANAHTAR SÖZÜKLER: Intrakranial dikiş iğneleri, Infantisid, Ön fontanel

INTRODUCTION

Intracranial foreign bodies are rare situations and usually secondary to traumatic brain injuries and surgical procedures. Sewing needles are perhaps the most unusual foreign bodies that may be found in the brain and may be a homicidal attempt in infancy or early childhood before the closure of fontanelles (8). We reported a 37-year-old man who had 2 intracranial sewing needles with unknown etiology.

CASE REPORT

A 37-year-old male patient admitted our hospital emergency service because of head trauma after an accident. The patient’s physical and neurological examination was completely normal. Cranioographies were obtained and two sewing needles directed downwards were detected (Figure 1). On the cranial CT evaluation two sewing needles near the midline were observed (Figure 2). One of the needles extended nearby the anterior horn of the lateral ventricle. Neither the patient nor his family had an idea about the insertion of the needles. Both localizations and positions of needles suggested that sewing needles were inserted through the anterior fontanelle during infancy for infanticide. No surgical procedure was applied for this patient because he had no clinical symptoms.

DISCUSSION

Usually intracranial foreign bodies come into existence by the way of cranium, orbita or ear penetrating traumas. With metallic objects other objects like shrapnel, wood pieces or bone pieces are detected as foreign bodies (2,3,4,6,7,8). Surgical clips and forgotten cotton may cause granulomas in the surgical field (1). After surgical and medical procedures it was reported emboli arising from catheters, sutures and atheroma plaques may reach the brain (1). Amniotic fluid, trophoblast, air and fat emboli have also been reported (3). In our case clinical and radiological findings suggested that the two sewing needles were inserted intentionally into the brain through the anterior fontanelle in the infancy period. Fortunately these needles did not damage any branches of the anterior cerebral artery and did not cause any infection. Notermes et al reported a similar case of homicide attempt...
during infancy (5). It is much lower probability that these needles were inserted by an older child during a game. Usually intracranial sewing needles are detected accidentally after a minor head trauma (1,3,5,6). If needles are noticed after a short time period they must be taken out because of the infection risk. No surgical procedures are recommended in the adolescence period if there is no neurological deficit or epileptic attacks (1,3,5,6).

REFERENCES


Figure 1: Craniography showing two sewing needles that are directed downwards.

Figure 2: CT scans showing two sewing needles near midline.