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Bilateral femoral neck fractures after an epileptic attack: A case report



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ABSTRACT

INTRODUCTION: Bilateral femoral neck fractures can occur due to high- or low-energy trauma, in the presence of various predisposing factors, such as osteoporosis, renal osteodystrophy, hypocalcemic seizures, primary or metastatic tumors, electroconvulsive therapy, epileptic seizures, and hormonal disorders. PRESENTATION OF CASE: This report presents a case of bilateral femoral neck fractures that occurred during an epileptic attack in a 24-year-old male with mental retardation. His complaints had started after a grand mal epileptic attack 10 days earlier. Bilateral displaced femoral neck fractures (Garden type 4) were seen in lateral radiographs of both hips. The patient was operated on urgently, with closed reduction, three stainless steel cannulated screws, and internal fixation applied to both hips. At postoperative week 12, solid joining was achieved and active walking with complete loading was started.

DISCUSSION: Bilateral femoral neck fractures can occur following a grand mal epilepsy attack in young patients. The use of antiepileptic drugs can also lead to the development of pathological fractures by reducing bone mineral density.

CONCLUSION: Femoral neck fractures should be suspected in patients with epilepsy who present with severe pain in both hips and an inability to walk. Stainless steel implants can be used for treatment. The viability of the femoral head should be evaluated by scintigraphy. Bone mineral density should be monitored in patients who use anti-epileptic drugs, and internal fixation is preferred in the treatment of femoral neck fractures.

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1. Introduction

Femoral neck fractures often occur in elderly osteoporotic patients due to low-energy trauma, and rarely in younger people due to high-energy trauma. Although simultaneous bilateral fractures are relatively uncommon, they have been reported in connection with metabolic diseases (renal osteodystrophy, osteoporosis), after electroconvulsive therapy, and due to stress fractures [1–9]. Bilateral femoral neck fracture is extremely rare subsequent to an epileptic attack. However, the muscle contraction that occurs during electroconvulsive therapy and grand mal epileptic seizures can cause fractures. In this case report, bilateral femoral neck fractures that developed during convulsions in a patient with epilepsy with sequelae of meningitis are presented.

2. Presentation of case

A 24-year-old male was admitted to the emergency orthopedic clinic due to severe pain in both hips and an inability to walk. His complaints had started after a grand mal epileptic attack experienced 10 days earlier. No trauma was established in his history. In the physical examination, it was established that both hips were in an external rotation posture and that movement was painful. Bilateral displaced femoral neck fractures (Garden type 4) were seen (Fig. 1) in both hip lateral radiographs (pelvis anteroposterior view).

The patient had suffered from meningitis at the age of 6 months, the sequelae of which had resulted in mental retardation, and epileptic attacks. The patient had been taking hidantin (phenytoin sodium) 100 mg twice per day for 8 years.

The patient was operated on urgently. A closed reduction and three 6.5 mm-diameter stainless steel cannulated screws, and internal fixation was applied to both hips (Fig. 2). His hip joint capsule was not perforated for decompression.

Osteopenia was found in the measurements of bone mineral density made in the lumbar region (T score -1.9). In-bed mobilization was started on post-operative day 1. Partial loading was not allowed because the patient was mentally retarded.

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Fig. 1. Preoperative anteroposterior radiographs of both hips.



Fig. 2. Early postoperative anteroposterior radiographs of both hips.

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