



## Case report

# Solitary ischial osteochondroma: an unusual cause of sciatic pain: case report<sup>☆,☆☆</sup>

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### ABSTRACT

The aim was to report on a rare case of osteochondroma of the left ischium, which evolved with compression of the sciatic nerve, thus causing sciatic pain in the homolateral lower limb. The patient was female and presented sciatic pain that was treated clinically for one year. However, the pain evolved with increasing intensity and worsened with hip movement. This was associated with diminished motor force and paresthesia of the homolateral lower limb. Radiological investigation of the region showed a bone lesion in the external portion of the left ischium, in the path of the sciatic nerve. Tomographic reconstruction showed cortical continuity with the bone of origin, i.e., a pattern characteristic of osteochondroma. En-bloc resection of the lesion was performed using the Kocher-Langerbeck route, and the anatomicopathological analysis proved that it was an osteochondroma. The patient's neurological symptoms improved and, after two months of follow-up, she remained asymptomatic and without any signs of recurrence. Since osteochondroma is the commonest benign bone tumor, it should be taken into consideration in the diagnostic investigation of compressive tumor lesions that could affect the sciatic nerve.

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### Osteocondroma solitário de ísqueo: uma causa não usual de cialgia: relato de caso

#### RESUMO

Relatar um caso raro de osteocondroma do ísqueo esquerdo, que evoluiu com compressão no nervo ciático e provocou cialgia no membro inferior homolateral. Paciente do sexo feminino apresentou cialgia e foi feito tratamento clínico por um ano. Porém a dor evoluiu, aumentou de intensidade e piorou com a movimentação do quadril, associada a diminuição da força motora e a parestesia do membro inferior homolateral. A investigação radiológica da região mostrou uma lesão óssea na porção externa do ísqueo esquerdo e no trajeto do

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nervo ciático. A reconstrução tomográfica evidenciou continuidade cortical com o osso de origem, padrão característico de osteocondroma. Fez-se a ressecção em bloco da lesão pela via de Kocher-Langerbeck e o estudo anatomopatológico provou ser um osteocondroma. Os sintomas neurológicos da paciente melhoraram e, após dois anos de acompanhamento, ela permanece assintomática e sem sinais de recorrência. Por ser o tumor ósseo benigno mais comum, o osteocondroma deve ser considerado na investigação diagnóstica de lesões tumorais compressivas, que podem acometer o nervo ciático.

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## Introduction

Osteochondromas (exostoses or endochondromatous exostoses) are common bone tumors. They account for 8.5% of bone tumors and 36% of benign bone tumors.<sup>1</sup> They can occur as solitary tumors or as multiple exostoses.

The predominant location for osteochondromas is the region proximal to the knee (distal femur and proximal tibia), followed by the humerus and proximal femur.<sup>2</sup> Osteochondromas are generally diagnosed during childhood and adolescence. The clinical manifestations depend on occurrences of fractures at the base of the exostosis and inflammation and compression in the structures surrounding the tumor mass. Pelvic locations are uncommon and account for 5.6% of the cases, while cases affecting the ischium are even less common and account for only 0.4% of the cases.<sup>3</sup> This location has complex anatomy, allows compression of the sciatic nerve and evolves with sciatic pain that is difficult to investigate clinically.

The objective of this study was to report on a case of ischial osteochondroma in which the unusual location allowed compression of the sciatic nerve and caused chronic sciatic pain.

## Case report

The patient was a 42-year-old female patient who presented sciatic pain in her left leg, from the hip to the foot, with paresthesia on the anterolateral face of the left leg and foot, without alteration of the patellar reflex (L4) or Achilles reflex (S1). She had a negative Lasègue test. The patient underwent radiography and computed tomography (CT) of the lumbar spine and the results obtained were normal. She was started on clinical treatment with anti-inflammatory drugs and opioids, but without improvement. Over a one-year period, the pain progressed and started to worsen with movement of the left hip, along with diminished motor strength (grade 4) on dorsiflexion of the foot (L4), extension of the hallux (L5) and plantar flexion (S1). Imaging examinations of this region were then requested.

Radiography of the left hip (AP view) showed slight and poorly defined alteration of the external portion of the ischium (Fig. 1). CT of the pelvis was then requested, on which tumor development with bony characteristics was observed in the left ischium. It measured approximately 4 cm, was pedunculate and well-delimited, lay on the path of the sciatic nerve and was compatible with an osteochondroma (Fig. 2).

En-bloc resection surgery was performed on the tumor development in the left ischium, by means of the posterior



**Fig. 1 – Preoperative radiograph on the left hip, in AP view, showing slight bone alteration in the ischium.**

Kocher-Langerbeck route, and the sciatic nerve was decompressed (Fig. 3). Anatomopathological examination of the surgical specimen confirmed the hypothesis of osteochondroma. After the surgery, the patient's neurological symptoms improved and she remains asymptomatic after two years of follow-up.

## Discussion

The initial approach in cases of lumbar sciatic pain is difficult because the differential diagnosis is extensive. There are different forms of vertebral involvement and clinical conditions without direct involvement that may mimic radiculalgia. The investigation therefore needs to integrate signs, symptoms, physical examinations, imaging examinations and laboratory tests, in order to guide logical management. The imaging investigation should be done carefully because the findings are often nonspecific and thus should be interpreted within a broader clinical context.

This patient arrived with complaints of sciatic pain and the radiological evaluation complemented with CT on the lumbar spine did not show alterations and ruled out the hypothesis of radicular compression. CT is the best method for viewing the bone architecture, but it is inferior to magnetic resonance imaging for evaluating soft tissues.<sup>4</sup> At that time, the clinical diagnosis was defined as mechanical lumbar sciatic pain. Anti-inflammatory drugs and opioids were prescribed and the case was followed up for one year. Over this period, the pain worsened, which was a warning sign that raised the

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