

# Archives of Clinical and Experimental Orthopaedics

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**Mini Review**

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[Persistent Lumbar Pain and Fever: Osteomyelitis as Diagnosis Challenge](#)

**Objective:** This study aimed to evaluate the clinical characteristics and diagnostic challenges associated with osteomyelitis in patients presenting with persistent lumbar pain and fever.

**Methods:** We conducted a descriptive observational study, reviewing four cases of osteomyelitis diagnosed at our hospital's Emergency Department in 2022. Data on patient demographics, medical history, clinical presentation, diagnostic methods, and treatment outcomes were analyzed.

**Findings:** The cases included middle-aged to elderly men, with predisposing factors such as urological interventions and immunodeficiency. Imaging studies, particularly CT-scan and MRI, were instrumental in diagnosing lumbar spondylodiscitis. Biopsies revealed lymphoplasmacytic infiltrates and treatment responses were positive in all cases after eight months of follow-up. The study highlights the importance of considering osteomyelitis in the differential diagnosis of lumbar pain and fever, necessitating multidisciplinary collaboration for timely management.

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**Case Report**

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[Superior Gluteal Artery Pseudoaneurysm following a Periacetabular Osteotomy](#)

Periacetabular Osteotomy (PAO) is the gold standard for the treatment of hip dysplasia or acetabular retroversion. Due to the proximity of intra-pelvic arteries, there is a risk of iatrogenic vascular injuries, which can present with a delay and should be part of the differential diagnosis of significant pain following a PAO.

We present the case of a never-described vascular injury following a periacetabular osteotomy in a 25-year-old woman who presented with gluteal pain 3 weeks after surgery. A delayed diagnosis of a pseudoaneurysm of the superior gluteal artery was made and successfully treated by embolization. The lesion is most probably related to the tip of a screw or to the drilling process.

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