A 60-year-old male patient presented to our clinic with pain, loss of range of motion in right hip and difficulty in walking. The pain started about 3 months previously and increased over time. Hip pain spreading to the trochanteric region of the right hip. The characteristic of the pain was mechanical. He did not feel pain while sleeping. Prolonged sitting or standing caused the hip to lock. Previously, he had received analgesic medications but there had been no significant improvement. There was no history of trauma. Physical examination revealed an antalgic gait and the motion of the right hip joint was limited and painful in all directions, whereas lumbar and left hip joint motions were unrestricted and painless. There were no neurological deficits of the lower extremities. Radiography of the pelvis indicated a narrowing joint space, and there were erosions on acetabular side of the joint and multiple soft tissue calcifications outside the joint capsule of the right knee. Magnetic resonance imaging of the right hip revealed findings consistent with synovial chondromatosis, which filled the joint space completely which was hypointense and acetabular protrusion progressing secondarily to synovial chondromatosis (Figure 1). Serological and biochemical markers and ultrasound of the inguinal region were normal. The patient was diagnosed with protrusio acetabuli in hip joint caused by synovial chondromatosis. Arthroscopic debridement were performed with symptomatic right hip.

The aim of presenting this case was to demonstrate that hip joint synovial chondromatosis which are not directly involved in etiological factors can cause secondary protrusio acetabuli. Protrusio acetabuli is identified with an acetabular line projecting ilioischial line for 3 mm in males and 6 mm in females on antero-posterior radiographs of the pelvis. The gradual deepening of the acetabular cavity is caused by primary idiopathic and secondary neoplastic, infectious, metabolic, inflammatory, traumatic, and genetic disorders (1). This is the first case seen in the literature, despite various studies conducted about the etiology, no common factor was found. The joint replacement surgery is usually necessary in cases of severe pain or substantial joint restriction owing to secondary hip arthritis (2).

Keywords: Protrusio acetabuli, synovial chondromatosis, etiology, hip

Anahtar Kelimeler: Protrüzyo asetabuli, sinoviyal kondromatozis, etiyoloji, kalça

Figure 1. Magnetic resonance imaging of the right hip revealed findings consistent with synovial chondromatosis, which filled the joint space completely which was hypointense and acetabular protrusion progressing secondarily to synovial chondromatosis.
Ethics

Informed Consent: A consent form was completed by all participants.
Peer-review: Internally peer-reviewed.

Authorship Contributions


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