

## Radiological Workup of a Calcified Lipoma of the Gluteal Region: A Rare Radiological Entity

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We present the radiological workup of a patient who presented with an increase in volume of the right buttock, without neurological signs, suggesting a soft tissue tumor. The frontal pelvic radiograph showed a lobulated "cauliflower-like" calcified image, located in contact with the upper end of the right femur. CT confirmed a mass with a mature ossified matrix, reaching the upper end of the right femur without bone destruction. A CT-guided needle biopsy was performed, yielding mature adipose tissue without atypia (benign

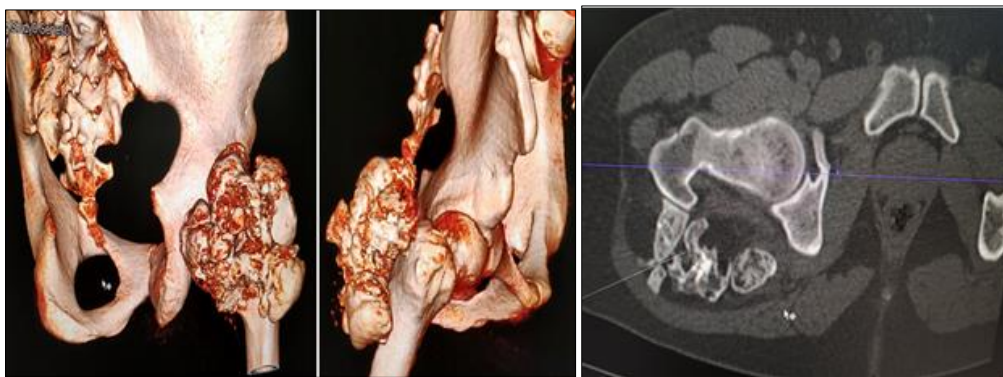
lipoma). MRI showed a calcified soft tissue mass in the right gluteal region, posterior periarticular, without signs of local aggressiveness (no edema, no suspicious contrast enhancement, no infiltration). The rarity of this entity lies in the association of a benign lipoma with true mature ossification (osteolipoma), exceptional in a deep gluteal location. Few cases are reported in the literature, making this complete radiological workup particularly instructive for the differential diagnosis with liposarcoma or myositis ossificans.



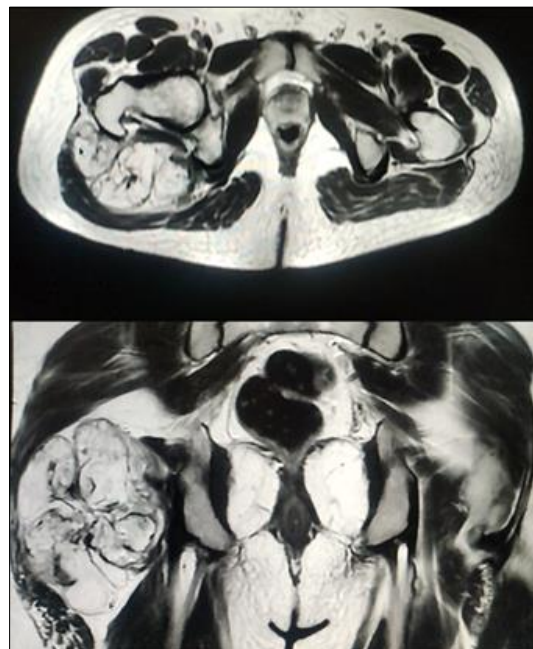
Figure 1: Clinical image showing the large mass in the right gluteal region



**Figure 2: Anteroposterior pelvic radiograph showing a cauliflower-shaped lobar mass adjacent to the proximal end of the right femur**



**Figure 3: Axial CT and 3D CT scan showing the large calcified mass located behind the proximal end of the right femur**



**Figure 4: Large calcified mass located in the right gluteal region between the gluteus maximus and quadratus femoris muscles, with lobulated contours and cauliflower-like extensions, exhibiting a mature ossified matrix. It measures 98 x 93 mm, reaches the posterior cortex of the greater trochanter without lysis of the latter or periosteal reaction, and displaces the surrounding soft tissues without signs of invasion. Medially, it comes into contact with the sciatic nerve in places without infiltrating it.**