

A Rare Case Report on Limb Salvaging Surgery for Large Extraarticular Soft Tissue Sarcoma of Lower Limb Without Bone Involvement by Performing Resection and Femur Endoprosthesis

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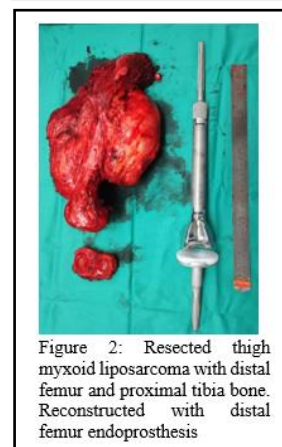
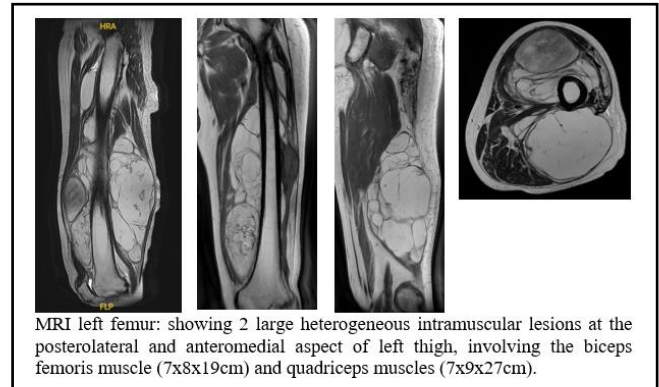
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INTRODUCTION:

Soft tissue sarcoma (STS) is a heterogeneous group of malignant tumors that arises from mesenchymal tissues. Surgical resection is the primary treatment modality for localized STS. Limb-salvaging surgeries are preferred to amputations whenever possible to maintain functionality and improve the patient's quality of life. Endoprosthesis surgeries are typically reserved for cases involving bone invasion. Here, we present a rare case where limb-salvaging surgery involving both tumor resection and femur endoprosthesis placement was successfully performed for a patient with a large myxoid liposarcoma in the left thigh without bone involvement.

REPORT:

A 73-year-old gentleman with underlying left thigh myxoid liposarcoma previously underwent wide local excision 6 years ago, presented with recurrent left thigh swelling. Biopsy HPE results is myxoid liposarcoma. Magnetic resonance imaging (MRI) revealed 2 large heterogeneous intramuscular lesions at the posterolateral and anteromedial aspect of left thigh, involving the biceps femoris muscle (7x8x19cm) and quadriceps muscles (7x9x27cm) (Figure 1). Importantly, no bone and hip/knee joint involvement was detected based on imaging and clinical assessments. The patient underwent a limb-salvaging surgery, a wide resection of the tumor while preserving surrounding neurovascular structures. Following tumor resection and distal femur+ proximal tibia bone cut, a distal femur endoprosthesis was implanted to provide structural stability to the limb. (Figure 2) The patient's postoperative course was uneventful. He slowly regained walking frame ambulation under functional rehabilitation program.



CONCLUSION:

This case report highlights a unique scenario where limb-salvaging surgery involving tumor resection and femur endoprosthesis for a patient with a large thigh myxoid liposarcoma without bone involvement. This approach underscores the importance of tailoring treatment strategies to individual patient, while emphasizing the potential for functional preservation in challenging soft tissue sarcoma cases.

REFERENCES:

1. Kakimoto T, Matsumine A, Asanuma K, Matsubara T. The clinical outcomes of total femur prosthesis in patients with musculoskeletal tumors. SICOT J. 2019;5:23