Limb Salvage Surgery for Distal Femur Osteosarcoma with Intra Articular Extension: A Case Report

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Introduction

Distal Femur Osteosarcoma is one of the most common primary malignant bone tumor in young adults.

It requires complex surgical management to balance oncologic control with functional outcomes

Case History

The patient presents with progressive swelling and pain in left distal thigh.

Clinical examination, radiological evaluation and histopathology confirms the osteosarcoma involving left distal femur with associated extraosseous soft tissue mass involving medial condyle with intra articular extension.

Imaging

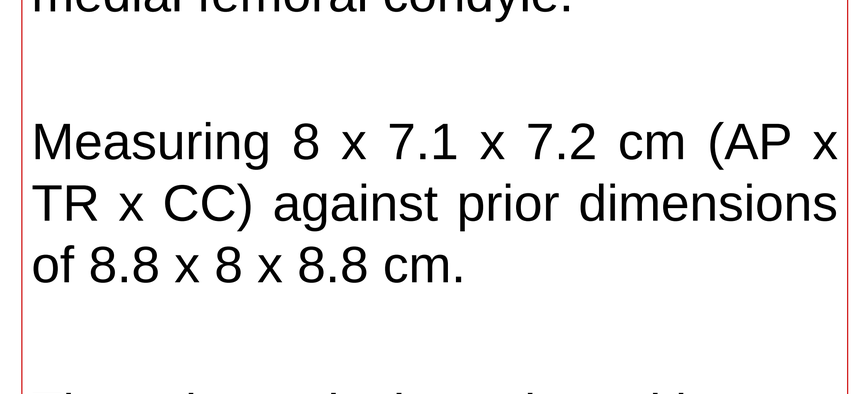
MRI Lower limb:

Left distal femoral epimetaphyseal lesion, predominantly involving the medial femoral condyle.

Measuring 8 x 7.1 x 7.2 cm (AP x TR x CC) against prior dimensions of 8.8 x 8 x 8.8 cm.

There is cortical erosion with extra osseous soft tissue component medially.

Intra articular involvement is seen



MDT Discussion

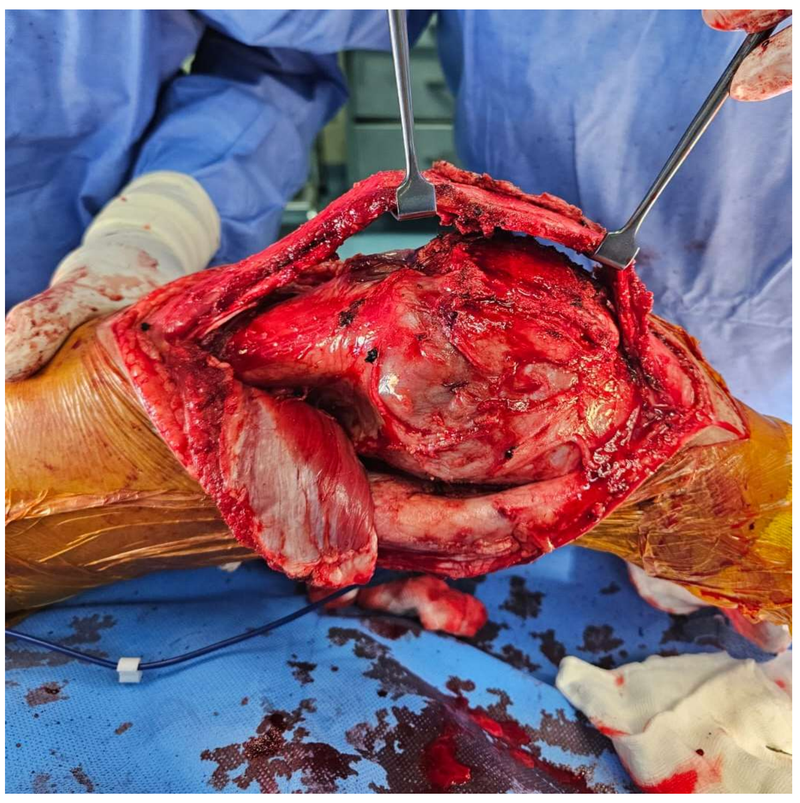
Final Agreement:

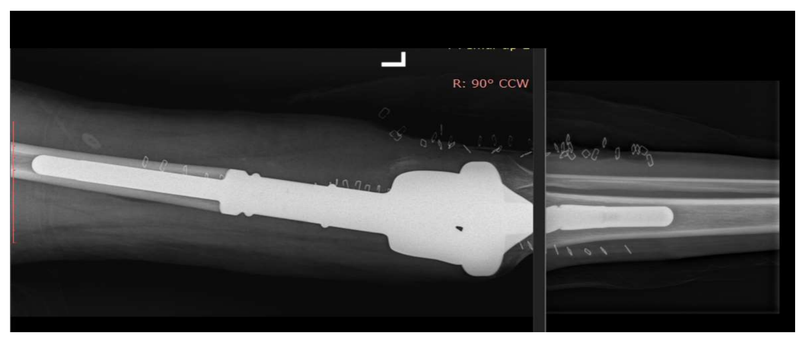
Neoadjuvant chemotherapy followed by surgical assessment (amputation vs Arthodesis)

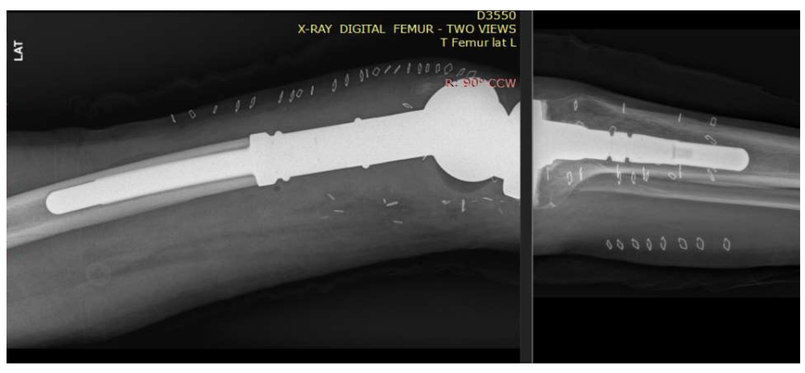
Treatment

The patient received 3 cycles of CIS/DOXO after which he underwent surgery i.e.

"Wide margin ***extraarticular*** excision of the distal femur and reconstruction with distal femoral prosthesis and split thickness skin"







Post operative coarse

The post operative coarse remained uneventful. Cleared resection margins confirmed on histopathology and the patient recovered well achieving partial weight bearing by 4 weeks and full weight bearing at 8 weeks.

CONCLUSION

In carefully selected patients extra articular resection combined with endoprosthetic reconstruction provides an effective limb salvage option for bony malignancies with joint involvememt. It offers both oncological efficacy and preservation of limb function

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