

Hungry Lymphoma: Pathological Femur Fracture Primary Lymphoma Of The Bone

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INTRODUCTION:

Pathological fracture is bone failure secondary to local or systemic physiological changes that alters bone both in cellular and mechanical level.

Metastatic bone lesion is far more common than primary bone lesion, prevalent sites include the spine, femur, and pelvis. (1)

REPORT:

Anamnesis of a 63years old male, retired lorry driver. Premorbidly ambulates independently, has underlying diabetes and hypertension. Alleged fall from standing position to the ground, fell onto right side of the body with twisting of the affected limb. Post fall complaining of distal thigh pain and unable to weight bear over the limb. Local examination revealed deformity over distal thigh. Systemic examinations were unremarkable. Otherwise, he had no constitutional symptoms.

Radiograph showed patient sustained distal 3rd femur fracture. Evidence of 'Blastic-sclerotic' pattern and primitive destruction can be noted around the fracture zone, suggestive of pathological fracture (Figure 1). Patient underwent open reduction and distal femur plating.

Intraoperative findings: Abnormal whitish cluster like growth at Sub-Tensor Fascia Lata around the fracture zone (Figure 2).

Histopathology report revealed *High grade Non-Hodgkin B-cell Lymphoma*.

Systemic screening of patient was done using Computed Tomography, showed no evidence of distant lesions.

Peripheral blood films and Bone Marrow Aspiration showed no evidence of lymphoma. Initial screenings and investigations revealed highly likely *Primary non-Hodgkin's lymphoma of bone (PLB)*.

Currently patient is undergoing further treatment and monitoring under Hematology.

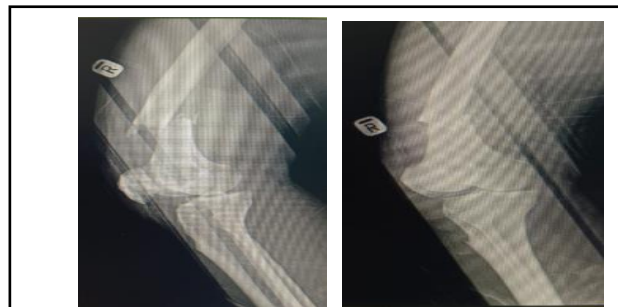


Figure 1: Right femur radiographs



Figure 2: Intraoperative Image; Sub-Tensor Fascia Lata plane

CONCLUSION:

PLB is a rare extranodal presentation of non-Hodgkin's lymphoma.(2)Early detection of skeletal metastasis is critical for accurate staging and optimal treatment.

Management of bone metastases requires a multidisciplinary approach.(3)

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