

## Osteosarcoma of the whole femur- a case report

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### INTRODUCTION:

Osteosarcoma, a rare but highly malignant bone tumor which usually affects children and adolescents. Osteosarcoma commonly occurs at sites of rapid bone turnover, such as the distal femur, proximal tibia, and proximal humerus. However, in rare cases, it may affect the whole long bone.

### REPORT:

Patient is a 26yo Malay female, previously NKMI. Presented with left thigh swelling and pain in June 2022, followed a fall while jogging. Radiologically, On Xray, Sunburst appearance noted, with pathological fracture of distal 3rd femur. MRI showed lytic lesion occupying metaphysis of left distal femur, with intramedullary component, extending along the whole femur. She had undergone wide excision of Left femur, with Total femur endoprosthesis insertion after complements of 6 cycles of chemotherapy. Resected tumor sent for HPE, Microscopically, dysmorphic tumor cells visualized under high power. Proximal femur noted malignant osteoid formation. Diaphysis noted tumor infiltration. Radiologically and histopathologically conclude that, it's a continuous lesion along the whole femur.

### CONCLUSION:

Despite affecting mainly site of rapid bone turnover, careful and detail examination and investigations must be done to ensure that the more proximal or distal lesions will not be missed out.



### REFERENCES:

1. Wittig JC, Bickels J, Priebat D, et al. Osteosarcoma: a multidisciplinary approach to diagnosis and treatment. *Am Fam Physician*. 2002;65(6):1123–1132