

SCARCE AS HEN'S TEETH- PRIMARY BONY LYMPHOMA

Mohamad Faris Md Ariff¹, Hariharan Kumarasamy², Noreen Fazlina², Mohammad Anwar Hau Abdullah²

¹Hospital Universiti Sains Malaysia, ²Hospital Raja Perempuan Zainab II

Introduction: One of rare malignant bone tumours is primary bone lymphoma (PBL), represent by 2% of malignant bone tumours. Histologically, 80% of PBL are diffuse large B-cell lymphoma (DLBCL). Most PBL located in femur or pelvis (50%) followed by other long bones, rarely metacarpal or metatarsal bone. Diagnosis needs thorough clinical examination, imaging and confirmed with immunohistochemical investigation.

Discussion: 80 years old gentleman referred to orthopaedic for painless swelling at right hand for 6months without constitutional symptoms. Examination showed large soft tissue mass at 1st web space with dilated superficial veins. Plain radiograph showed destruction of 2nd MCB with increase in soft tissue shadow. MRI showed large heterogeneous lobulated lesion causing destruction of 2nd MCB and encasing the tendons. Incision biopsy done and histologically showed malignant cells infiltrating the muscle. Immunohistochemically it represent DLBCL of bone. Patient was treated with 8 cycles of R-CHOP which clinically improved the size of the swelling.

Conclusion: PBL is defined by World Health Organization classification of tumours of the soft tissue and bone in 2013. It is common in male age between 20-50 years, with higher morbidity rate in males. The common site of PBL is the femur, pelvis, humerus, skull and neck (1).Radiological features non-specific and have wide spectrum of findings. The lytic lesions are patchy and exhibit complete loss of the outline along with soft-tissue extension. Due to this condition, X Ray alone is insufficient and need MRI to demonstrate bone marrow and soft tissue involvement (2).Based on the clinical and radiological findings, osteosarcoma, chronic osteomyelitis and lymphoblastic lymphoma should be considered. It is crucial to make the diagnosis as the disease is chemo sensitive (3).