

Reconstruction Of Acetabulum With Recycled Autograft Following Extraarticular Hip Resection In Patient With Proximal Femur Osteosarcoma

¹Taufiq, MS; ²Azril, MA;

¹Department of Orthopaedics, Traumatology and Rehabilitation, International Islamic University Malaysia, Kuantan, Malaysia

INTRODUCTION:

Proximal femur is a relatively uncommon site for osteosarcoma. Presence of intraarticular fracture can lead to invasion of the acetabulum, which makes the treatment challenging. We report a case of pathological fracture neck of femur secondary to proximal femur osteosarcoma, treated with extraarticular pelvic type 2 resection and reconstructed with recycled frozen autograft.

REPORT:

A 34 year-old gentleman complained of left hip pain following a trivial fall at home. On further history, patient has been having dull-aching pain over left hip for the past few months prior to the fall, which is worse at night. Clinically, the left lower limb is shortened and externally rotated. The left hip was tender but there were no palpable mass.

X-ray showed presence of displaced neck of femur fracture with lytic lesion seen over the neck and trochanteric region. MRI of the pelvis revealed presence of heterogenous lesion over the proximal left femur with presence of intra-articular hematoma. CT-Thorax showed no evidence of distant metastasis. Core biopsy of left proximal femur was performed and the result indicated chondroblastic osteosarcoma.

Patient was started on neoadjuvant chemotherapy, and subsequently planned for surgery.

Due to tumour infiltration to the hip joint, extraarticular hip resection is performed, with proximal femur reconstructed with endoprosthesis. Type 2 pelvic resection was performed, and the autograft was sterilized with cryotherapy using liquid nitrogen. Cemented acetabular cup was inserted, and the autograft was fixed to the pelvis using reconstruction plate and spring hook plate. Post operatively,

patient recovered well was able to ambulate with walking frame prior to discharge.

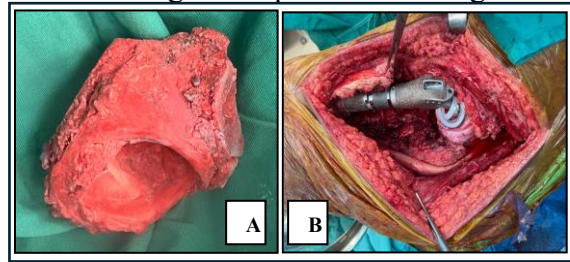


Figure 1: Resected acetabulum treated with cryotherapy (A) before reconstructed back using acetabular cup and reconstruction plate (B).



Figure 2: Post operative radiograph

CONCLUSION:

Recycled autograft is a promising option for acetabular reconstruction following extraarticular resection of osteosarcoma infiltrating hip joint.

REFERENCES:

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