

A Case Report: Femoral Malunion With Valgus Deformity In Neglected Distal Femur Fracture Successfully Treated With Limb Reconstruction System (LRS)

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INTRODUCTION:

A malunion in a position of valgus, varus, recurvation, antecurvation, rotational and intraarticular deformities are indicated for corrective surgery. Malunion can classify into intraarticular, metaphyseal and diaphyseal Treatment of chronic deformity is challenge to surgeon.

CASE REPORT:

A 45 year old gentleman presented with right distal femur valgus deformity and chronic patella subluxation. He had history of alleged hit by steel over right knee in 30 years ago and was defaulted the treatment. The deformity corrected with closed wedge osteotomy by using limb reconstruction system (LRS) advance with micrometric swiveling clamp and lateral translation. Gradual correction of angular deformity and translation begun 1 week after the surgery at rate of 1° to 2° /day. During follow up noted the femur valgus deformity improved to 10° . Modular transformation done 1 month post completion of gradual deformity and patient was allowed for full weight bearing assisted by physiotherapy. Bony union was achieved in 3 months post operatively and serial radiograph showed good alignments and consolidating.



Pre-operative x-ray of right knee (AP and Lateral views)



Postoperative x-ray of right femur (AP and Lateral views)

LESSON LEARNT:

Surgical deformity correction needed when presence of disabling pain with severe functional disability. A chronic limb deformity need to planned carefully with good quality standard x-rays of the affected and the healthy limbs including both adjacent joints with proper evaluation of soft tissue and bone condition at the level of the deformity. Gradual correction was programmed to restore patient limb length.

CONCLUSION:

Gradual correction of valgus deformity of femur with limb reconstruction system (LRS) advance with micrometric swiveling clamp and lateral translation is safe and viable method.

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