

Ortho-SUV in Open Femoral Fracture with Morel-Lavallee Lesion

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Introduction:

Ortho-SUV is an advanced extension of the traditional ring fixator and provides advantages of having three-dimensional control of bone segments. In this case, we describe a case of using Ortho-SUV in managing open femoral fracture with compounding Morel-Lavallee lesion over the thigh.

Report:

A 25 years old obese lady was involved in a road-traffic accident and sustained a left femoral open fracture with a large degloving wound over the lateral thigh. She underwent wound debridement of the non-viable soft tissue over the thigh and was put on skeletal traction. Post debridement, there was a skin defect of 20x30cm over the lateral thigh. Radiography post traction revealed overlapping of bone end of approximately 4 cm at the fracture site. She underwent a split skin graft to cover the soft tissue defect overlying the fracture site, followed by Ortho-SUV fixation over the right femur to correct the overlapping bone end. Computer-assisted programme was used to calculate the exact correction to be done with the hexapod. The external fixation device was kept for 6 months for bone union after achieving the desired alignment. During the 14 months post trauma follow up, evaluation revealed functional outcome of grade excellent according to ASAMI criteria.

Figure 1: Radiographs showing Ortho-SUV fixation

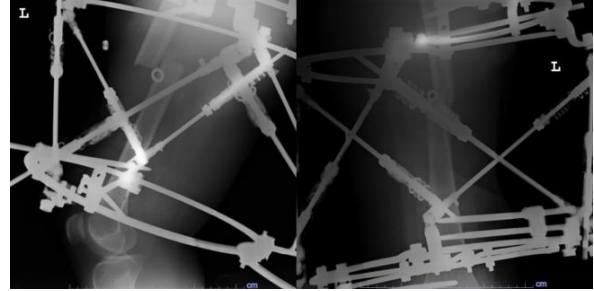


Figure 2: Radiographs during 14 months post trauma follow-up.



Conclusion:

Ortho-SUV is a viable choice in managing open femoral fracture with large soft tissue defects. Intramedullary devices and plating are not suitable due to implant related infections. In such cases, Ortho-SUV provides the advantages of achieving circumferential stability for bone healing and correcting the overlapping bone segments at the same time, with the added benefits of utmost respect to the soft tissue recovery.

References:

Low WK, Tasarib R, Ab Halim AH, Ahmad AR (2022) Single Step Correction Technique For Complex Femur Malunion Using Computer Assisted Ortho-SUV Frame: A Report On The Clinical And Radiological Outcome. J Comm Med and Pub Health Rep 3(03)