

## Gradual Redemption: Osteoclasia And Ortho-SUV Frame For A Neglected Distal Femur Fracture- A Local Experience

<sup>1</sup>Roshyn SK,<sup>2</sup>Afiq MD,<sup>3</sup> Ashraf Hakim Ab Halim,

<sup>1</sup>Orthopedics and Traumatology Hospital Sultan Abdul Aziz Shah, UPM, Serdang,MYS

### INTRODUCTION:

Managing neglected distal femur fractures in elderly patients is challenging due to malunion, LLD, disability, and limited surgical options, requiring careful planning. The ortho-SUV frame external fixator provides precise deformity correction and limb length restoration while minimizing soft tissue disruption [1].

### REPORT:

A 70-year-old female with hypertension sustained a right distal femur fracture six months ago and opted for traditional treatment. Four months post-trauma, her pain subsided, but she remained non-ambulant, seeking medical attention. Clinically, she had a varus deformity, a prominent bony protrusion, and a 6 cm LLD. Knee ROM was 15°-90°, and distal pulses were intact. Radiographs showed a malunited fracture with extensive callus and sclerotic vessels. The patient consented to surgery and underwent osteoclasia and Ortho-SUV fixation for gradual correction. Intraoperatively, abundant callus was observed without infection. Osteoclasia restored mobility, though the posterolateral fragment remained partly intact. After six weeks, alignment and limb length were restored. At the last follow-up, X-ray showed consolidation. Modular transformation of the fixator was performed to facilitate weight-bearing. She is undergoing physiotherapy for strengthening and ambulation while remaining under follow-up.



Figure 1

Figure 2

Figure 3

### FIGURE 1-Preop AP right femur

### FIGURE 2 &3- Post-op AP/Lateral right femur – Osteoclasia and SUV



Figure 4

Figure 5

### FIGURE 4- 2-month post-op AP right femur

### FIGURE 5- 2 months post-op Lateral right knee

### DISCUSSION:

Gradual correction with the Ortho-SUV frame is preferred over acute osteotomy, as it minimizes soft tissue disruption and neurovascular compromise [2]. This technique allows controlled lengthening, restoring alignment safely [1]. Compared to locking plates, the Ortho-SUV frame enables precise multiplanar correction and superior stability [2]. Despite pin site infections and knee stiffness, physiotherapy improves outcomes [2].

### CONCLUSION

Ortho-SUV corrects femoral malunion precisely, minimizing soft tissue trauma and preventing disability.

### REFERENCES:

- 1."Low WK et al. Ortho-SUV for femur malunion.J Comm Med Pub Health Rep. 2022;3(03).
2. Javier JS et al. Ortho-SUV for limb deformity. Phil J Orthop.2021;55(3)