

## Vector Traction as Temporarily Management in Iliac Wing Fracture with Sacroiliac Joint Involvement

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### INTRODUCTION:

Fracture of iliac wing corresponds to less than 3% of all pelvic ring injuries [1]. Since it is an extra-articular fracture and does not compromise the stability of the pelvic ring and it has historically been managed non-surgically [2]. However, if the fracture extending through the sacroiliac joint, it is very challenging to treat and usually in displaced and unstable fracture will further require reduction and internal fixation.

### REPORT:

18 years old gentleman, presented with Motor Vehicle Accident (MVA) in which patient was a motorbike rider. Post trauma sustained closed lateral compression (LC) type fracture right iliac wing extending to sacroiliac joint complicated with foot drop.

CT pelvic noted displaced right iliac wing comminuted fracture extending to the right sacroiliac joint measuring 4.3mm. Distal fragment of the right iliac bone is displaced anteromedially.

Patient subsequently put on pin insertion over proximal right femur connected on 5kg vector traction and 8kg longitudinal traction.

Check x-ray pelvic done post vector traction application. No further significant reduction noted. Thus weight had increase to 6kg vector traction (10% of body weight) and 10 kg longitudinal traction. Subsequently, was able to noted some minor improvement in term of fracture displacement. Patient was also claimed that pain was much reducing after traction was applied.

Subsequently, case discussed with advance trauma team for further definitive internal fixation later.



**Figure 1:** Initial fracture displacement



**Figure 2:** Final reduction with vector traction

### CONCLUSION:

As conclusion, we believe that vector traction can act as big role in term of pain management in managing iliac wing fracture and some minor role in fracture reduction to avoid further displacement while waiting definitive internal reduction done.

### REFERENCES:

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2. Gänsslen, A., Lindahl, J., Grechenig, S., & Füchtmeier, B. (Eds.). (2021). Pelvic ring fractures. Springer.