

Anterior hip dislocation associated with anterior inferior iliac spine and anterior superior iliac spine fracture following trivial trauma: A rare injury

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INTRODUCTION

Hip is stabilized by bony anatomy and arrangement of anatomical structure around it (capsule and labrum) and acetabulum socket also play important role in stability. The anterior hip dislocations are uncommon and further categorised into pubic or iliac type. Here reporting a case of anterior dislocation of the hip with anterior inferior iliac spine (AIIS) and anterior superior iliac spine (ASIS) following from trivial trauma.

REPORT:

A 70 year old lady presented to emergency department with a history of slip and fell in bathroom due to slippery floor. Her Glasgow coma scale (GCS) was full. Was complaining pain right hip and unable to ambulate. On examination right leg shorter and externally rotated. She was free of neurovascular impairment. Plain radiographs showed an anterior dislocation of right hip with fracture of acetabulum intraarticular fragment. Reduction attempted, check xrays shows hip joint not congruence and not reduced with intraarticular fragment seen. Further imaging study, computed tomography with three-dimensional reconstruction was obtained (figure 1). It shows right anterior inferior iliac spine (AIIS) and anterior superior iliac spine (ASIS) fracture extending to acetabular wall. Supracondylar pin traction was applied. She underwent surgery 3 days later. Done open reduction and removal of intraarticular fragment, screw fixation of right AIIS and ASIS (figure 2). Anterior approach was used in this case.

Figure 1: CT hip pre operation

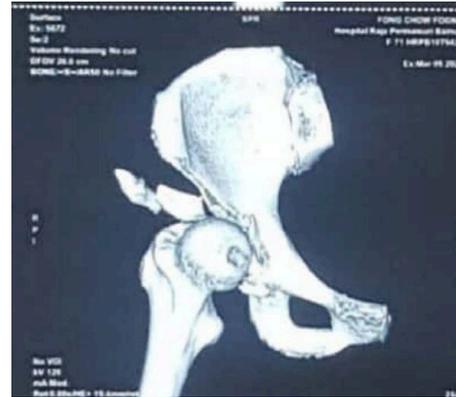


Figure 2: Xray post operation



CONCLUSION:

Here the mechanism of injury may be hyper extended hip. Initial treatment of hip reduction must be attempted to prevent further complication. CT imaging is helpful to determine fracture pattern.

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