

# SCREW FIXATION IN BILATERAL ANTERIOR COLUMN ACETABULUM FRACTURE AND SYMPHYSIS PUBIC PLATING IN YOUNG REPRODUCTIVE WOMEN. IS THERE STILL HOPE?

Mohd Afiq Muhamed Fuad<sup>1</sup>, Azlan M Sofian<sup>2</sup>

<sup>1</sup>Hospital Sungai buloh, <sup>2</sup>Hospital Universiti Sains Malaysia

**Introduction:** Bilateral acetabular wall fractures together with open pelvic injury are extremely rare. Only a few cases have been reported and the optimal treatment still remains unknown. Stabilization of the fracture still the main focus while consideration the outcome of pregnancy later especially in reproductive age women become the next level of debate. Bilateral anterior column acetabular fracture in open book pelvic injury can be treated with a spanning of recon plate throughout the anterior pelvic ring. But in this case, we choose the method of screw fixation to allow easier removal of pelvic plate later to allow the patient to undergo a trial of vaginal delivery. Vallier Heather reported a successful vaginal delivery despite transsymphyseal plating. Here we reported a case of a young girl who sustained bilateral anterior column of acetabulum fracture with pelvic ring injury with minimal internal fixation.

**Discussion:** 19 yo female who alleged motor vehicle accident. She was a pillion rider and hit by a car from the back. Post-trauma, she presented with complaints of abdominal pain, neck pain, and right leg pain. Xray and Computed Tomography Scan showed she sustained C2 hangman fracture with fracture of the right tibia and Open Book Pelvic Injury (APC II) with bilateral anterior column acetabulum fracture. Transsymphyseal plating was done using recon locking plate by Modified Stoppa approach. Then a guided wire inserted below the fixation and aimed towards the anterior column. The guided k wire placement then check with inlet and outlet view using image intensifier before drilling and fully threaded screw 4.3mm was inserted.

**Conclusion:** In consideration of stabilizing bilateral anterior column in open pelvic injury, screw fixation technique can be one of the alternative options can be used to provide patient in reproductive age for the trial of vagina delivery after removal of the transsymphyseal implant.