

## RARE OCCURANCE OF TIBIA PLATEU FRACTURE IN A THIRD TRIMESTER PREGNANT LADY WITH UNDIAGNOSED OSTEOGENESIS IMPERFECTA

Syed Nashraf Shah<sup>1,2</sup>, Abdul Nawfar Sadagatullah<sup>1</sup>

<sup>1</sup>University Sains Malaysia, <sup>2</sup>University Malaysia Sabah

**Introduction:** An hereditary disease, Osteogenesis imperfecta (OI) occurs due to basic pathological defective maturation of collagen resulting from a decrease in the amount of normal Type I collagen. It is more common in women. Milder autosomal dominant forms are (Types I and IV) where else more severe autosomal recessive forms are (Types II and III).

**Discussion:** This is a case of a undiagnosed Osteogenesis Imperfecta in a 29 year old with Lady in her third Trimester of first pregnancy at 36 weeks with a Type 2 Tibial Plateu Fracture Shatzker 2. She sustained the injury from a twisting mechanism of turn while in standing position. She denies any trivial fall or trauma preceding the pain and injury at her lower right knee. she gave a history of multiple bone fractures ,at a younger age, recent mallet deformity of her left index finger together with a strong family history to suggest the disease. She was noted to have features of being short statured, bluish sclerae and a hyperlaxity with Beighton score of 7/9.

**Conclusion:** Given her long standing condition of the disease being undiagnosed, and her capability to adapt with her multiple long bones fractures with her daily life style, a decision of fixation versus conservative approach would be an interesting argument. In view of her condition of being at her third trimester during the recent trauma incident, fixation of her long bone may need to be delayed till delivery or post delivery period. The argument of delaying surgery may end up with a malunion condition of her lower limb with complications of limb length discrepancy, articular step off leading to earlier onset of osteoarthritis and chronic pain of the knee joint Pro's and cons were explained to both patient and husband, the final decision weighing towards delaying surgery was taken with consideration.