

TRAUMATIC CLOSED TOTAL DISLOCATION OF TALUS - A RARE CASE REPORT

¹Dinesh M, ¹Rajesh R, ¹Zulfadhil AR, ¹Helmi H, ¹Ng JS

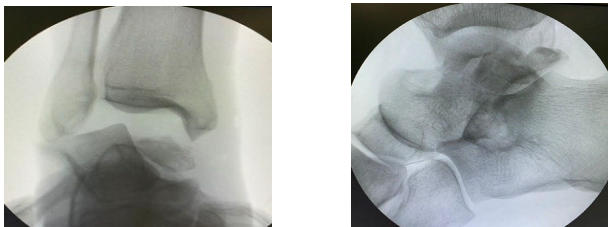
¹ Department of Orthopaedics, Hospital Sultan Abdul Halim, Sungai Petani, Kedah, Malaysia

INTRODUCTION:

Total talus dislocation is a rare type of injury that results from the complete dislocation of talus from all the adjacent joints. Total dislocation of talus occurs due to excessive supination or pronation of foot [1].

REPORT:

A 37-year-old gentleman alleged fell from the ladder and landed with right foot in inversion, sustained a closed complete dislocation of right talus. Closed manipulative reduction was attempted in the emergency department yet attempt failed. Thus, an emergency open reduction of the right talus was proceeded using anterolateral approach on the same day. Intraoperatively, all three joints (subtalar, talonavicular and talo-tibio joint) are noted to be dislocated with the posterior facet of talus fracture. Post reduction, talonavicular joint stabilized using 2 Kirschner wires and ankle spanning external fixation applied.



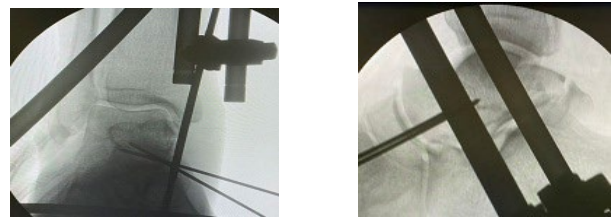
Picture 1 & 2: Pre-op image intensifier view



Picture 3 & 4: Intraoperative image, showing talus bone

DISCUSSION:

According to RomanPavic et. al., reposition of talus and transfixation of talocalcaneal joint shows neither evidence of avascular necrosis nor recurrence of dislocation [2]. However, Huang PJ et. al., suggested that reduction of talus is ideal to yield best outcome and both talectomy and talocalcaneal fusion should be the last options of treatment [3]. Infection, avascular necrosis and post-traumatic arthritis are the known complications of talus dislocation [4].



Picture 5 & 6: Post-op image intensifier view

CONCLUSION:

Urgent reduction (either open or closed methods) together with wound debridement in the case of open dislocation is the first line management.

REFERENCES:

1. Leitner et al. The Mechanism of Total Dislocation of the Talus, *The Journal Bone & Joint Surgery*. Jan 1955;37(1):89-95
2. Roman Pavic et al. Talocalcaneal Transfixation in Total Dislocation of the Talus and Subtalar Dislocations. *MILITARY MEDICINE*. Mar 2009;174:324-327
3. Huang PJ et al. Open total talar dislocation--report of two cases. *The Kaohsiung Journal of Medical Sciences*. Apr 2000;16(4):214-218
4. Ries M et al. Total dislocation of the talus. Case report with a 13-year follow up and review of the literature. *Orthopaedic Review*. Jan 1988;17(1):76-80