FUNCTIONAL OUTCOME AFTER TRIPLE ARTHRODESIS IN NEGLECTED TALONAVICULAR JOINT DISLOCATION: A CASE REPORT

Fudhlana AA, Ab-Ghani SA, Nor S, Choo CY, Zakaria M Department Of Orthopaedics, Hospital Raja Perempuan Zainab II, Kota Bharu, Kelantan

INTRODUCTION:

Midtarsal injuries is a rare condition usually occurs due to direct force to medial or lateral to forefoot. Injury to this joints can lead to instability across the Chopart's joint. Different type of treatment has been describe to manage this injury with most of them reported good functional outcome.

CASE REPORT:

We presented a case of 41 year old male who sustained a chronic talonavicular joint dislocation which was missed initially and treated with triple arthrodesis. The case discuss surgical technique and problems encounters in managing this injury.



Figure 1: preoperative xray (A)



Figure 2: postoperative xray (B)

DISCUSSIONS:

Midtarsal injuries can impose multiple morbidity if left untreated. This injuries can be missed during initial examination. Multiple treatment plan has been proposed in managing chronic midtarsal injuries which includes reconstruction of longitudinal arches and shape of the foot to obtained anatomical reduction of the joints. ¹ This

can be attained by various technique such as double arthrodesis, and triple arthrodesis.^{2,3} Regardless surgical technique used, reconstruction may complicated with arthritis, nonunion, pseudoarthrosis and recurrent deformity.^{4,5}

Previous authors has describe multiple technique to reduce this complication. An author concluded additional compression screw across the talonavicular assist to correct deformity and at the same time improve functional outcome.⁵ While biomechanical study concluded additional screw crossing naviculo-calcaneal increase in bending rigidity and at the same time reduce angulation.³

CONCLUSION:

Surgical technique and implants usage is very much depend on surgeon preferences and their understanding in the area. Familiarities in a technique contribute to outcome of a surgery apart from patient's factor, implants usage and type of injuries sustained.

REFERENCES:

- 1. Richter M et al.Chopart Joint Fracture-Dislocation: Initial Open Reduction Provides. Ankle Foot Int-2004.
- 2. Brilhault J. et al.Single Medial Approach to Modified Double Arthrodesis in Rigid Flatfoot with Lateral Deficient Skin. Foot Ankle Int-2009.
- 3. Kiesau CD et al. Talonavicular Joint Fixation Using Augmenting Naviculocalcaneal Screw in Modified Double Hindfoot Arthrodesis. Foot Ankle Int-2011.
- 4. Jerome JTJ et al. Complex Talonavicular Fracture Dislocation: A case report. Foot Ankle Online J-2010.
- 5. Sangeorzan BJ et al. Triple arthrodesis using internal fixation in treatment of adult foot disorders. Clin Orthop Relat Res-1993.