

FUSION THE CHOICE OF TREATMENT IN A RIGHT MIDFOOT OSTEOARTHRITIS SECONDARY TO CHRONIC LISFRANC WITH TALOCALCANONAVICULAR SUBLUXATION

Nashraf SS

Orthopaedic Department, Hospital Universiti Sains Malaysia, Kota Bharu, Kelantan

INTRODUCTION:

Lisfranc fracture-dislocations are fractures involving the tarso-metatarsal joint and are rare making them susceptible to be missed, leading to chronic pain, functional loss due to arthritis further causing instability, deformity and chronic soft tissue injury of the foot and ankle.

REPORT:

This is a case of a 14 year old boy who was involved in a motor vehicle accident. He initially treated conservatively with a soft tissue injury and later found to have a Lisfranc injury and was treated with open reduction and pinning of the Lisfranc injury. 1 year post injury patient was able to ambulate actively but had constant pain on weight bearing over the affected Right foot. He was then referred to a Specialist Centre and was diagnosed to have a Right midfoot Osteoarthritis secondary to Chronic Lisfranc injury with Talocalcaneonavicular Subluxation. Choice to fuse the 1st, 2nd and 3rd Tarso-metatarsal joint with a Talonavicular Fusion with Bone graft insertion was made to treat the Chronic Osteoarthritis developed from the Chronic Lisfranc injury.

DISCUSSIONS:

Wear-and-tear disease being the primary cause of Osteoarthritis, the subluxation of the Talocalcaneonavicular accompanied by the Lisfranc injury sustained has led to the cartilage in the joint wearing down with repeated stress and use over time. As the cartilage deteriorates and gets thinner, the bones lose their protective covering and eventually may rub together, causing pain and inflammation of the joints. A prompt clinical assessment and treatment is essential in obtaining optimal results.

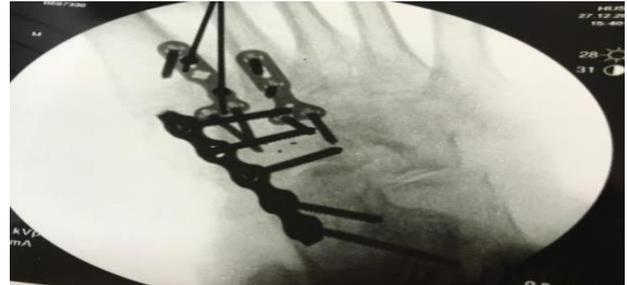


Figure 1: Anterior-posterior view post Fusion

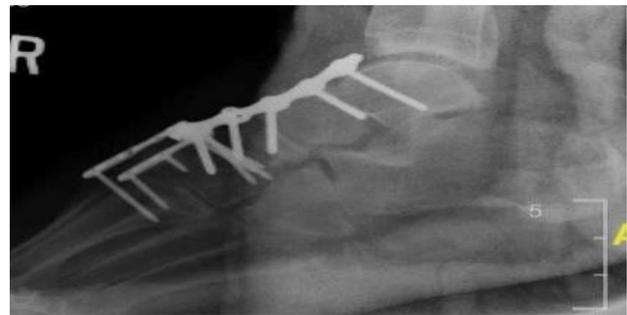


Figure 2: Lateral view post Fusion.

CONCLUSION:

Arthrodesis of the affected joints has been proven to reduce pain and offer a better functional outcome for patients. Midfoot arthrodesis with good results and a low incidence of nonunion.

REFERENCES:

1. Aronow MS. Treatment of the missed Lisfranc injury. *Foot and ankle clinics*. 2006 Mar 1;11(1):127-42.
2. Nemecek, S. A. et al. (2011) 'Outcomes following Midfoot Arthrodesis for Primary Arthritis', *Foot & Ankle International*, 32(4), pp. 355–361. doi: 10.3113/FAI.2011.0355.