

Chopart Joint Injury With Anterior Process Calcaneal Fracture: A Case Report

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INTRODUCTION:

Chopart joint injuries are uncommon midfoot injuries that frequently missed leading to poor functional outcome and long term morbidity. This injury is usually a result of high energy trauma and concomitant fractures occur in approximately 75 to 90 percent of patients. We report a case of Chopart joint injury with anterior process calcaneal fracture.

CASE REPORT:

A 16 year-old gentleman with no comorbid alleged motor vehicle accident (motorbike skidded) and sustained left Chopart joint injury involving subluxation of naviculo-cunneiform joint and calcaneocuboid joint, associated with anterior process calcaneal fracture. Open reduction, K-wiring of naviculo-cunneiform and calcaneocuboid joint, mini plating of calcaneum were performed. After operation, patient was immobilized on a below knee backslab and advised on non-weight bearing ambulation.

DISCUSSION:

Chopart joint injury involving only subluxation or dislocation can be managed sufficiently with closed reduction and percutaneous fixation with screws or K-wires. However in our case, open reduction was performed instead in view of patient also has associated anterior process calcaneal fracture in which mini plating was done to achieve articular congruency as fracture has subtalar joint extension. Besides, we faced difficulty in reducing the calcaneocuboid joint in which the cuboid bone was impacted and trapped within the fractured anterior process of calcaneum. The patient did not experience major post-op complications such as compartment syndrome or neurovascular injury.



Fig. 1 X-ray showed naviculo-cunneiform and calcaneocuboid subluxation with anterior process calcaneal fracture



Fig. 2 Post-op foot X-ray showed naviculo-cunneiform and calcaneocuboid joint reduced



Fig. 3 Post-op lateral ankle X-ray showed acceptable fixation with mini-plating and K-wires in-situ

CONCLUSION:

As Chopart joint plays a crucial role in the balance and stability of the foot biomechanics, accurate diagnosis and early surgery are important in managing a Chopart joint injury. Any misdiagnosis or mismanagement will yield poor functional outcome and long term morbidity.

REFERENCES:

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