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Home (../../index.php)

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1. MMA finalist



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- > Malaysian Citation Centre (http://mycc.my/)

2. BBSPA Finalist

3. Arthroplasty

4. Foot & Ankle

- PF01A Open Trimalleolar Fracture Of The Ankle: A Case Report (PF01A-Open-Trimalleolar-Fracture.pdf)
- PF01C Ankle Tubercular Septic Arthritis Overlooked? A Case Report (PF01C-Ankle-Tubercular-Septic.pdf)
- PF01D Chopart Joint Injury With Anterior Process Calcaneal Fracture: A Case Report (PF01D-Chopart-Joint-Injury.pdf)
- PF02A External Fixator: The Answer To Complex Diabetic Foot Ulcer (PF02A-External-Fixator.pdf)
- PF02B A Case Report Of An Isolated Navicular Dorso-Medial Fracture Dislocation (PF02B-Case-Isolated-Navicular.pdf)
- PF02C Talar Body Fracture In Sagittal Plane With Successful Surgical Treatment (PF02C-Talar-Body-Fracture.pdf)
- PF02D Tarsal Tunnel Syndrome, Are We Still Aware? (PF02D-Tarsal-Tunnel-Syndrome.pdf)
- PF03A Distal Tibiofibular Joint Screw Fixation When Long Intramedullary Nail Insertion Is Inevitable: A Case Report (PF03A-Distal-Tibiofibular-Joint-Screw.pdf)
- PF03C Outcome In Surgical Treatment Of Comminuted Navicular Fracture (PF03C-Outcome-Surgical-Treatment.pdf)
- PF03D Primary Subtalar Fusion For Advance Type Of Post Traumatic Talus Fracture Using External Fixator
 Case Series (PF03D-Primary-Subtalar-Fusion.pdf)
- PF04A Land On Your Own Feet: Case Report Bilateral Calcaneal Fracture With Talocalcaneum Dislocation In Children (PF04A-Land-Your-Feet.pdf)
- PF04B Hindfoot Arthrodesis Nails: An Overview (PF04B-Hindfoot-Arthrodesis-Nails.pdf)
- PF04C A Multi-Centred Study Of Incidence Of Avascular Necrosis In Relation To Timing Of Surgery Following Traumatic Neck Of Talus Fracture (PF04C-Multi-Centred-Study-Incidence.pdf)
- PF04D Tibial Pilon Fracture In A Skeletally Immature Patient: Mini Open With Intrafocal Pinning And Reduction Technique; A Case Report (PF04D-Tibial-Pilon-Fracture.pdf)
- PF05A Ankylosis Of Ankle And Subtalar Joint In Chronic Osteomyelitis Of Distal Fibula. A Case Report (PF05A-Ankylosis-Ankle-Subtalar.pdf)
- PF05B Wrecked Calcaneum: ORIF With Primary Subtalar Fusion; A Case Report (PF05B-Wrecked-Calcaneum.pdf)

5. Hand 6. LLRS 7. Oncology 8. Ortho Research 9. Paediatrics

10. Spine
11. Sports
12. Trauma
13. Invited speaker abstract
14. Oral Presenters

Note: Click on the linked heading text to expand or collapse accordion panels.

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MOJ Menu

- > About MOJ (/about-moj.php)
- > About ASEAN Edition of MOJ (/about-ASEAN-edition-moj.php)
- > Editorial Board (/editorial.php)
- > Editorial Process (/editorial-process.php)
- > Panel of Reviewers (/panel-reviewers.php)
- > Links (/links.php)

Quick Links

> Manuscript Submission

- (http://www.editorialmanager.com/moj/default.aspx)
- > Reviewers Submission

(http://www.editorialmanager.com/moj/default.aspx)

- > Instructions for Authors (/instructions-for-authors.php)
- > Past Issues (/past-issues.php)
- > Instructions for Advertisers (/instructions-for-advertisers.php)
- > Search MOJ (/search.php)

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Wrecked Calcaneum: ORIF With Primary Subtalar Fusion; A Case Report

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INTRODUCTION:

The calcaneum is the most frequently fractured tarsal bone and comprises 2% of all fractures. Approximately three quarters of these calcaneal fractures are intra-articular and treatment of these fractures is difficult. Treatment modalities range from conservative management to open reduction and internal fixation (ORIF) and subtalar fusion. ORIF of intra-articular calcaneal fractures leads to good and excellent results in 60-80% of the patients. But 2-17% of patients require secondary subtalar fusions because of the development of a painful subtalar arthritis. This has a direct correlation with the degree of subtalar comminution.

CASE REPORT

We are reporting a case of a 46-year-old man who was involved in an alleged motor vehicle accident. He sustained open comminuted fracture of right calcaneum with subtalar subluxation and underwent urgent wound debridement with cross ankle external fixation. Two weeks later, open reduction, internal fixation with calcaneal locking plate and primary subtalar fusion with cannulated screws were done. Patient was discharged home after an uncomplicated post operative stay in the ward of 5 days

DISCUSSION:

The treatment of comminuted intra-articular calcaneal fractures is still very much debated. Although several authors have reported good results in these fractures that were managed operatively, prognosis remain poor for some cases especially those with severe comminution. In his case series, Sanders reported secondary fusions in 7 of 30 (23%) Sanders Type III fractures and in 8 of 11 (73%) Type IV fractures. However, the results of secondary subtalar fusion after an intraarticular calcaneal fracture are not always satisfying. Themann et al. found only 10/17 (59%) good and excellent results using the AOFAS Score. The 7 patients (41%) with fair and poor results had an impaired ROM of the ankle joint with a secondary painful arthritis in

the adjacent joints. Hence, a primary fusion after open reduction and internal fixation of the calcaneum at the same setting is recommended in selected cases.



▲ Intra-operative images

CONCLUSION:

Primary subtalar fusion with ORIF of the calcaneum is certainly an option in treatment of severely comminuted intra-articular calcaneal fractures.

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