Displaced Tillaux and Triplane fractures in children without medial joint space widening of the ankle

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Disclosure

- We have no potential conflicts with this presentation
Introduction

- Tillaux and Triplane fractures are physeal fractures in an older child.
- Supination external rotation injuries.
- Displaced fractures are usually associated with medial joint space widening.¹
Methods

- 29 displaced fractures were evaluated for medial joint space widening.
- Surgical reduction and fixation were offered to all and external rotation stress examination was performed prior to open reduction.
Results

5/29 fractures showed normal medial joint space. 2 of them had the fracture extend through the medial malleolus. 2 of the other 3 showed clear widening of the medial joint space with stress.
Extra-articular Triplane fracture
After reduction and screw fixation
Displace Tillaux fracture with normal medial joint space
External rotation stress radiograph
Joint space normalized after reduction and screw fixation
Discussion & Conclusion

- Displaced Tillaux and Triplane fractures are associated with Deltoid ligament insufficiency even without medial joint space widening initially.
- Reduction of the fracture restores joint congruency and stability.\(^2\)
References
