ADVANTAGES OF DORSAL TO PLANTAR SCREW ORIENTATION FOR SUBTALAR JOINT ARTHRODESIS: A CADAVERIC STUDY

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Disclosure

Advantages Of Dorsal To Plantar Screw Orientation For Subtalar Joint Arthrodesis: A Cadaveric Study

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Our disclosures are in the Final AOFAS Program Book. This research was supported with a grant from DJO Global.
Indications

• Post Traumatic Arthritis
• PTTD
• Talocalcaneal coalition
• Acute calcaneal fracture
Purpose

Evaluate the accuracy of the dorsal to plantar screw approach
Materials & Methods

SCARS (San Diego Cadaver Anatomy Research Symposium)

- 10 specimens
- Dorsal to plantar screw orientation
Radiographic Examination

- Midline
- 1+ deviation
- 2+ deviation
- Cortex

Medial deviation: 40%
Lateral Deviation: 60%
Results

![Subtalar Screw Deviation Graph]

- Number of Patients
- Medial Deviation: Medial Cortex 2+ 1+ 1
- Medial Deviation: 1 1 2
- Lateral Deviation: 1+ 2+ Lateral Cortex 3 2
Advantages

• Large variation of screw placement
• Greater degree of error with dorsal to plantar screw orientation
• Greater pull out strength
References

THANK YOU