

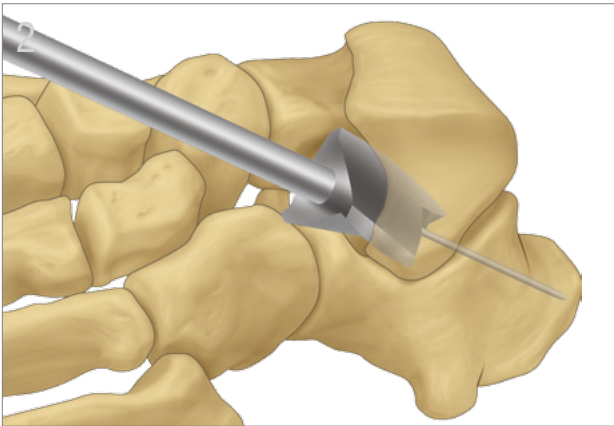
# Subtalar Fusion Cup™

Surgical Technique | *TriMed Subtalar Fusion Cup System™*



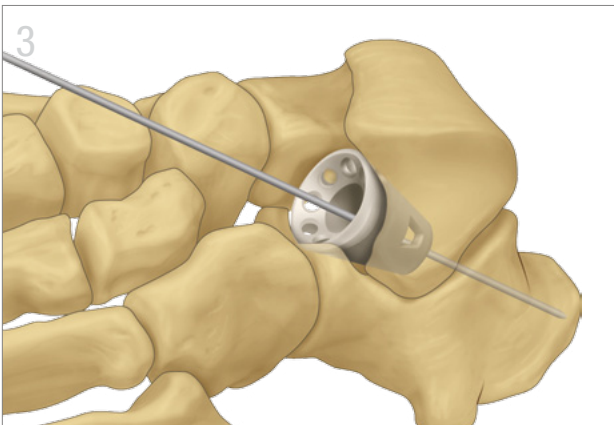
### Exposure and Joint Reduction

- Make incision from the lateral gutter of the ankle towards base of the third metatarsal.
- Continue dissection between the extensor digitorum brevis muscle and extensor digitorum longus tendons down to the sinus tarsi. Be cautious of branches of the superficial peroneal nerve and sural nerve.
- Prepare the subtalar joint for arthrodesis in usual fashion.



### Joint Reduction and Reaming

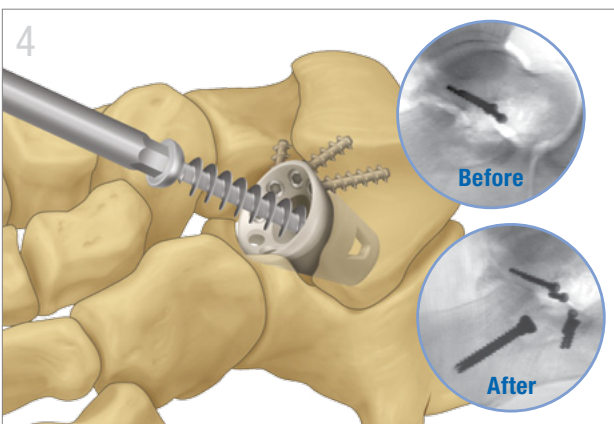
- With subtalar joint held in reduced position, direct 2.0mm guide wire into calcaneus at the anterior border of the posterior facet. Check placement of guide wire (see tips).
- Ream over guide wire with cannulated reamer to desired depth.
- Save harvested bone for subsequent grafting. Distract and prepare remaining subtalar joint.



### Cup Insertion

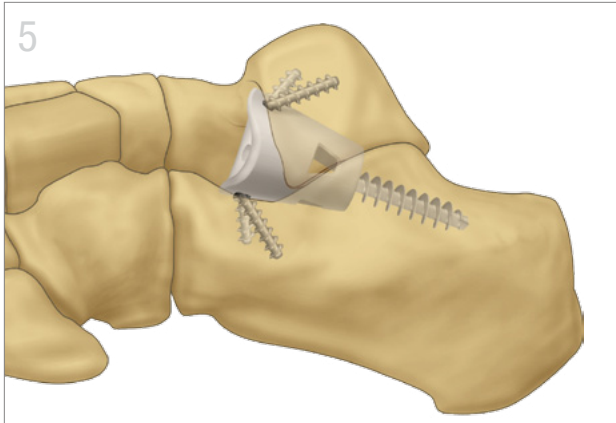
- Place some bone graft between talus and calcaneus.
- Slide Subtalar Fusion Cup over guide wire to desired depth. Align tapered edge toward lateral side of foot.

Note: Placing K-wire through peripheral screw hole may help maintain cup position prior to final fixation.



### Screw Placement

- Prepare holes on rim of cup using 2.0mm (yellow) drill. Insert 3.0mm noncannulated screws of appropriate length into talus (superior rim of cup).
- Drill over guide wire with 3.7mm cannulated drill. Measure depth to determine appropriate length of central screw. Remove guide wire.
- Insert 6.5mm non-cannulated self-drilling screw into bottom screw hole of cup and tighten to compress talus to calcaneus.



### Final Fixation

- Place 3.0mm screws along the inferior rim of cup into calcaneus.
- Place remaining harvested bone graft around implant between talus and calcaneus.

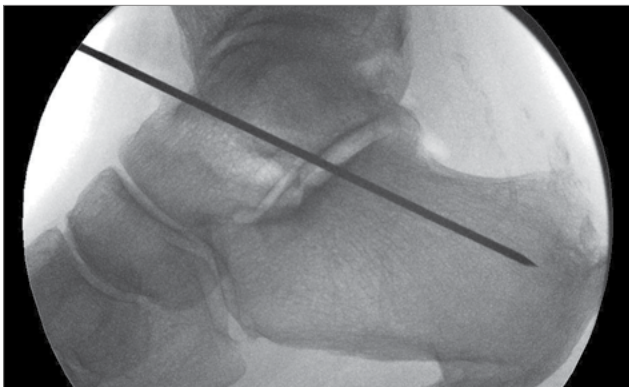
### TIPS

#### Initial Guide Wire Placement

After exposure and initial joint preparation, place guide wire. Check on C-arm/Fluoroscanner.

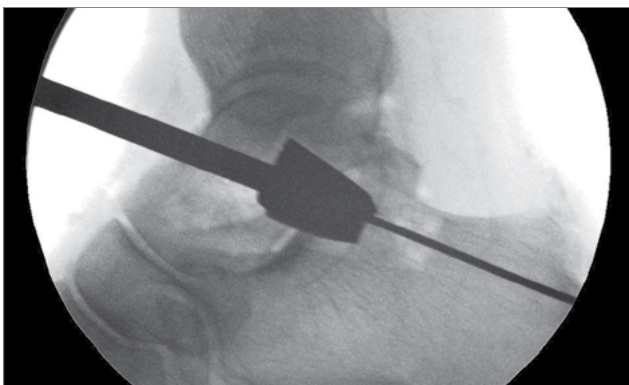
- Lateral view: Guide wire should be parallel to calcaneal pitch.
- Axial view: Guide wire should bisect calcaneal tuberosity.

Note: If reamer stops abruptly, check guide wire again on C-arm. It might have bent on initial insertion. Replace before continuing.



#### Subtalar Cup Placement

- Leave Subtalar Fusion Cup Reamer in place to check for positioning prior to cup placement.



Implant made from surgical grade PEEK-OPTIMA®. Screws made from medical grade stainless steel

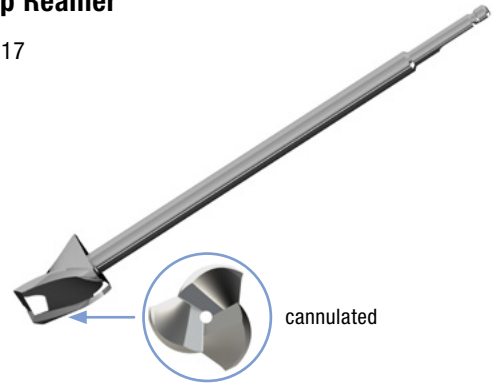
### Cup

STF-CUP-S



### STF-Cup Reamer

RMRSFC-17



### 3.0 Locking Screw

NC30xx  
10mm to 18mm



### 6.5 Compression Screw

CAB6.5-xx  
26mm to 30mm



## XRAYS



Pre-Op



Post-Op

Surgical technique by Tim Badwey, MD