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FOOT & ANKLE

ATFL Augmentation
Surgical technique

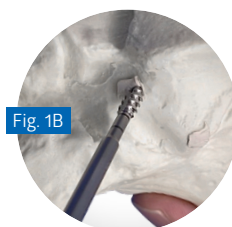
SYNTHETIC LIGAMENT AUGMENTATION



ATFL Augmentation

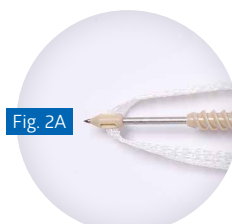
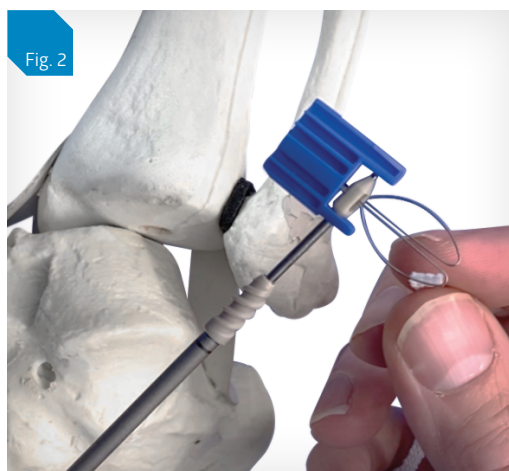
Step 1 | Talus Bone Tunnel Preparation

Utilizing the Ø3.6mm drill and the “Twist-In” side of the suture anchor drill guide, drill at a 45° angle into the body of the talus until the shoulder stop (Fig. 1A). If cannulated technique is desired for positioning and placement of the talar anchor, the Ø2.0mm guidepin and Ø3.6mm cannulated drill from the Ø5.5mm Cannulated Screw System may be used. Take care to avoid drilling into the articular cartilage of the talus. Tap until the proximal laser line is flush with the cortex (Fig. 1B). The AO/QC Ø4.5mm tap may be used carefully on power or by hand depending on surgeon preference.



Step 2 | Load Woven Ligament Implant

Load approximately 1 inch of the ligament implant through one of the preloaded whip wire loops (Fig. 2). Using counterpressure, pull the whip wire through the anchor eyelet until the Ligament Implant is passed. Pull the Ligament Implant fully through the eyelet until the length is evenly distributed on both sides of the anchor (Fig. 2A). Wrap the Ligament Implant tails around anchor cleats on the anchor handle (Fig. 2B).



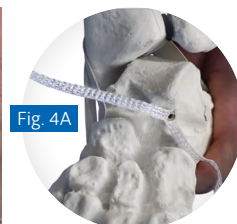
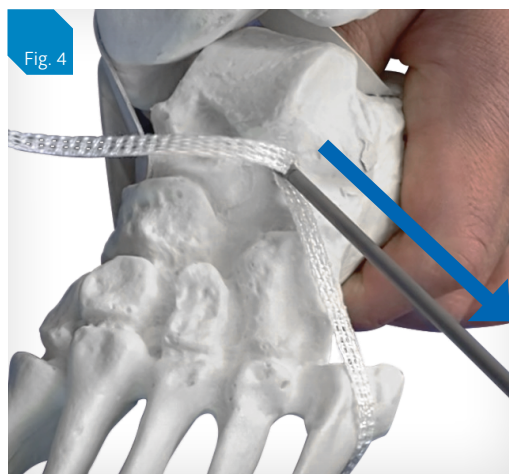
Step 3 | Anchor Insertion

Insert the anchor eyelet into the prepared hole under the same drill angulation. Insert the eyelet until the threaded anchor body contacts the bone. A mallet may be used for initial advancement (Fig. 3A). Unlock the anchor by rotating the inserter knob clockwise until a tactile click is felt (Fig. 3B). Advance the anchor by rotating the handle clockwise while holding the distal collar of the inserter (cone-shaped part of the handle with cleats) to avoid twisting the Ligament Implant.



Step 3 | Anchor Insertion (cont.)

Rotate the handle clockwise to advance the anchor into the bone. Continue advancing until the laser line on the shaft is flush with the cortex. Uncleat the Ligament Implant and release the anchor by pulling the handle straight backwards (Fig. 4).



Step 4 | Fibula Bone Tunnel Preparation

Prior to preparing the fibula bone tunnel, confirm the anchor trajectory and resulting drill length visually and/or fluoroscopically (Fig. 5A). Note: The total anchor length is 20mm (including the eyelet).

Drill and tap the fibula utilizing the same technique and instrumentation as the talus from Step 1.

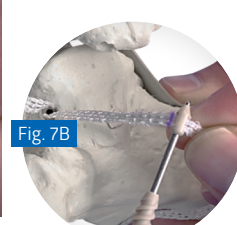
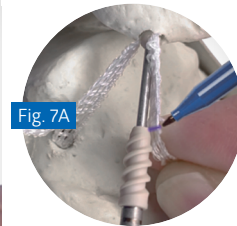
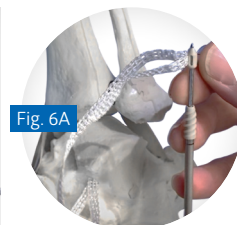


Step 5 | Set Tensioning

Load roughly 1 inch of the Ligament Implant through the eyelet of the anchor in the same manner as the previous anchor (Fig. 6).

Note: It is recommended to pass only one Ligament Implant tail through one of the eyelet slits. Optionally, the remaining tail from the fibula anchor may be used to bring down to the calcaneus if CFL augmentation is desired.

With the foot in a neutral inversion/eversion position and slight plantarflexion (10 - 15°), insert the anchor eyelet into the fibular bone tunnel (Fig. 7). Set the desired final tension by removing all slack from the implant tail and make a mark where the tail first meets the distal tip of the anchor body (Fig. 7A). Remove the eyelet from the bone tunnel and reposition the eyelet over the marked portion of the Ligament Implant (Fig. 7B).



Step 6 | Anchor Insertion

Advance the anchor eyelet until the anchor body is touching the bone (Fig. 8). A mallet may be used to aid with initial insertion (Fig. 8A). Twist the handle knob clockwise until a tactile click is felt (Fig. 8B), then advance the anchor into the bone until the laser mark on the shaft is flush with the bone. Pull the handle straight backwards to disengage the inserter and deploy the anchor. Trim the remaining Ligament Implant tails from the talus and fibula (Fig. 9).



Ordering Information

Woven Ligament Implant and DEXLOCK® Knotless Anchors

Item No.	Description	Qty.
MWEB5050	Woven Ligament Implant	1
MRPK4520	DEXLOCK® Knotless Anchor, Ø4.5mm x 20mm	2
MRN11036	Ø3.6mm Anchor Drill	1
MRN31045	Ø4.5mm Anchor Tap	1
MRN41000	Suture Anchor Drill Guide	1
MSN90001	AO/QC Handle	1

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