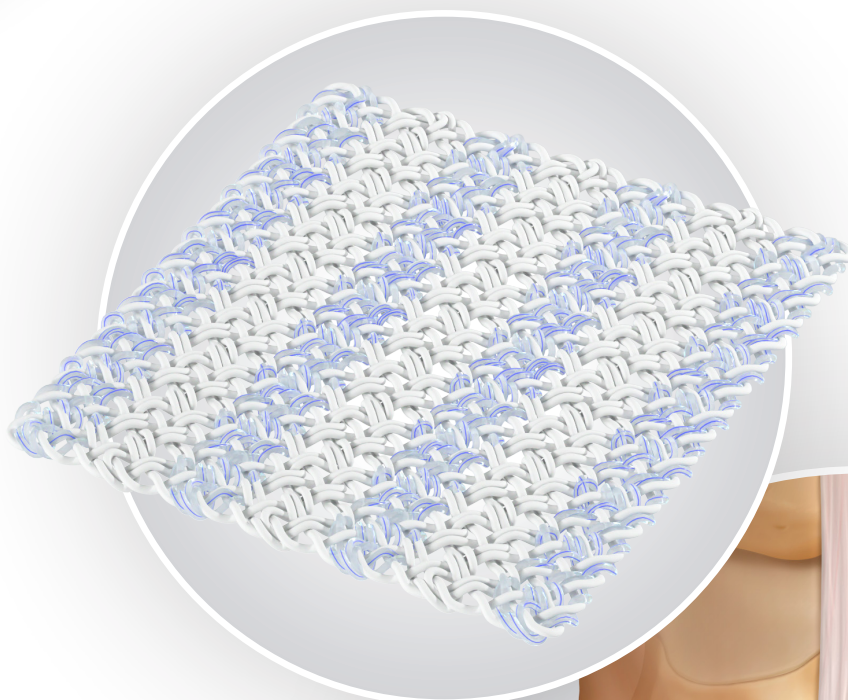


Integrity™ Implant

Achilles Tendon Repair
Surgical Technique Guide



Achilles Tendon Repair *Integrity Implant*

SURGICAL TECHNIQUE GUIDE

STEP 1

Place the patient in a prone position. Make a longitudinal incision centrally or slightly postero-medially over the posterior ankle beginning at the heel/posterior tuberosity of the calcaneus and extend the incision 5-7cm proximal. Dissect down to the paratenon of the Achilles tendon and incise it centrally along the length of the Achilles tendon. Elevate the paratenon medially and laterally to expose the Achilles tendon down to its attachment on the heel. Sometimes the skin incision will have to be lengthened distally 1-2cm. Carefully retract the paratenon and skin flaps using skin rakes or retractors.

STEP 2

Make a central longitudinal incision along the length of the exposed Achilles tendon. Resect the retrocalcaneal bursa. Carefully elevate the central aspect of the Achilles tendon at its attachment of the calcaneus medially and laterally with a scalpel or bovie. Leave the medial and lateral attachments of the Achilles tendon intact.

STEP 3

At this point, the Haglund's deformity and any calcaneal spurs will be evident. Remove these with a rongeur or a sagittal saw. Make the resection perpendicular to the longitudinal axis of the deformity. Medially protect the neurovascular bundle and laterally protect the dorsal cutaneous branch of the sural nerve. Chamfer the bone edges so that they are smooth. Next, palpate the Achilles tendon. Any calcifications or tendinopathic tissue can be debrided as well. Take a lateral x-ray to ensure resection is adequate and no bony prominences are remaining.

Once satisfied with bony and soft tissue debridement, the Achilles reconstruction can begin. Carry out your standard technique for repairing the Haglund's deformity using preferred suture anchors.

STEP 4

Drill (and tap if desired) two proximal drill holes 15mm from the distal Achilles attachment for suture anchor placement. Place the suture anchors in the prepared medial and lateral holes (**Figure 1**).



FIGURE 1

STEP 5

Pass the two medial sutures through the Achilles tendon medially and repeat the step laterally (Figure 2).

STEP 6

Drill (and tap if desired) the distal row at the distal Achilles attachment on the calcaneus, medially and laterally (Figure 2).

STEP 7

With the foot held in 15 degrees of plantarflexion, pass one medial suture and one lateral suture through the knotless suture anchor eyelet and place it into the distal medial drill hole turning clockwise. Repeat this step for the lateral distal drill hole.

Leave the retention suture for the eyelet intact. Do not pull out. It will be used for potential suturing of the Integrity implant.

STEP 8

The central split in the Achilles tendon can be repaired with suture using a horizontal mattress stitch or a running Krackow stitch.

STEP 9

Ensure your Integrity implant is slightly smaller than the width of the tendon. Using an onlay technique, place the Integrity implant over the central split of the Achilles tendon. Suture in the proximal aspect of the Integrity implant to the proximal aspect of the Achilles tendon, medially and laterally. Ensure the suture is at least 2mm from the outer edge of the implant (Figure 3).

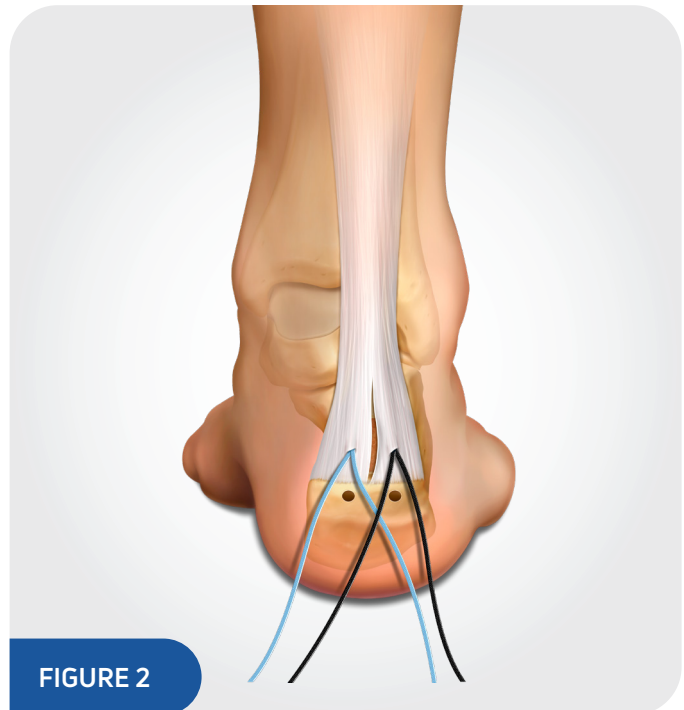


FIGURE 2



FIGURE 3

Achilles Tendon Repair Surgical Technique *Continued*

STEP 10

Distally, the Integrity implant can be sutured medially and laterally to the soft tissue of the Achilles tendon.

Alternatively, the retention suture from the knotless eyelet can be passed through the Integrity implant with a free needle. Do this medially and laterally. Each suture can be tied back to the remaining limb from its respective eyelet. This will achieve the most distal position of the Integrity implant and provide the most distal coverage (Figure 4).

STEP 11

Perform a Thompson test assuring the Achilles tendon is intact. Once satisfied with the repair/reconstruction, copiously irrigate the wound. Close the paratenon and the subcutaneous layer and skin layer. Splint the patient in resting plantarflexion.

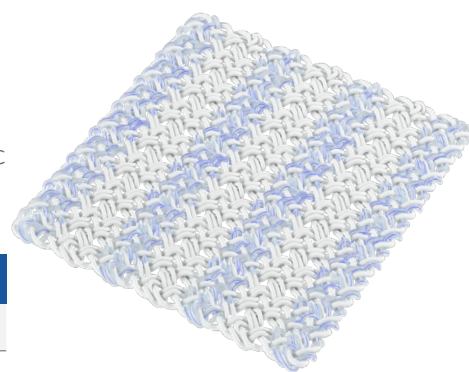


FIGURE 4

ORDERING INFORMATION

The Integrity Implant is a hyaluronic acid-based scaffold for tendon repair that provides reliable strength and regenerative biology.

The implant is constructed from Anika's Hyaff® material, a proven hyaluronic acid technology that supports tissue regeneration and resorbs over time, reinforced with non-absorbable PET (polyethylene terephthalate).



Integrity Implant System

Part #	Description
6000100	20x25mm Integrity Implant
6000101	25x30mm Integrity Implant
6000113	25x60mm Integrity Implant
6000114	40x60mm Integrity Implant

Anika Therapeutics, Inc.

32 Wiggins Ave., Bedford, MA 01730
1-888-721-1600 | customerservice@anika.com

www.anika.com | Anika. Restore Active Living.® | Stay Active.®

This document and information is intended for markets where regulatory approval has been granted. Anika, Tactoset, Stay Active, and Restore Active Living are trademarks and/or registered trademarks of Anika Therapeutics, Inc. and its affiliates in certain jurisdictions.
©2025 Anika Therapeutics, Inc. All rights reserved.
AML-900-687 REV 03