



FLEXBAND®

is a Dynamic Matrix™ for the restoration of tendons and ligaments. Designed to provide strength and elasticity¹ to a repair, these novel materials work with biology to pursue optimal outcomes by **restoring** natural motion, **resisting** failure due to necrosis, and **regenerating** native connective tissue^{2,3,4}.

Following completion of the Achilles tendon repair, two incisions are made proximal to the repair. Remove the 24cm FLEXBAND from the BLUE handled driver provided in the FLEXBAND Multi Kit, then pass the FLEXBAND through the tendon using a tendon passer. Confirmation that you are in the tendon can be made by pulling up on the FLEXBAND (Figure 1). The tendon passer is used again to deliver the limbs of the FLEXBAND down into the site of the Achilles repair (Figures 2&3).

Distal to the wound, two small incisions (one lateral and one medial) are made for fixation into the calcaneus. Guide-wire is placed (Figure 4) and drilled over (Figure 5) to prepare the calcaneus for anchor placement.



Figure 1



Figure 2



Figure 3



Figure 4

The tendon passer is used once again to pull the free limbs of the FLEXBAND down to the calcaneus, and through the incision (Figure 6). Once loaded into the FLEXBAND Anchors (Figure 7), the FLEXBAND can be appropriately tensioned and impacted into position on each side of the calcaneus (Figure 8).



Figure 5



Figure 6



Figure 7



Figure 8

References

1. Gisselbalt et al., *Biomacromolecules* 2002, 3, 951-958.
2. Lijjsten et al., *J. Biomater. Sci: Materials in Medicine* 13 (2002) 351-359.
3. Peterson et al., *Knee Surg Sports Traumatol Arthrosc* (2014) 22:2109-2120.
4. Peterson et al., *The Anterior Cruciate Ligament: Reconstruction and Basic Science*, 2nd ed., Elsevier 2018.





Following placement of the anchors, the excess FLEXBAND material can be removed (Figure 9). Through the original wound, the tensioned FLEXBAND can be seen (Figure 10). To further reinforce the the healing tendon, the two limbs of the tensioned FLEXBAND can be sewn directly onto the Achilles repair (Figure 11), completing the reinforcement. Following final closure, the procedure is complete and post-op protocols are begun.



Figure 9



Figure 10



Figure 11



WHAT TO ORDER?

P/N 71016

FLEXBAND™ MULTI
FROM ARTELON

Includes:

- 3.85x17mm FLEXBAND Anchor (x2)
- 0.5 x 24cm FLEXBAND Plus Dynamic Matrix (x1)
- Cannulated Drillbit (x1)
- 1.4mm Guide Wire (x2)
- 1.4mm Guide Wire with Nitinol Passing Loop (x1)

For more information regarding Artelon's products and their use in other indications, please visit:

WWW.ARTELON.COM

International Life Sciences, dba Artelon®
2150 Northwest Parkway SE, Suite G
Marietta, GA 30067
Ph. 800.610.3446

Email: customerservice@artelon.com

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