

# TenoWrap™

Collagen Tendon Wrap



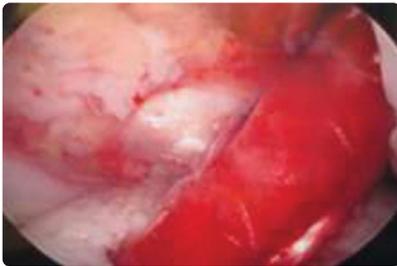
# TenoWrap™ Collagen Tendon Wrap

- › Resorbable, type 1 collagen matrix that provides a nonconstricting encasement for injured tendons
- › Proprietary processing techniques result in a cell-free matrix
- › Acts as an interface between the tendon and tendon sheath or the surrounding tissue
- › Provides a protected environment and gliding surface for tendon healing<sup>1</sup>
- › Patented self-curling design for easy placement under, around, or over the injured tendon



## Potential Applications

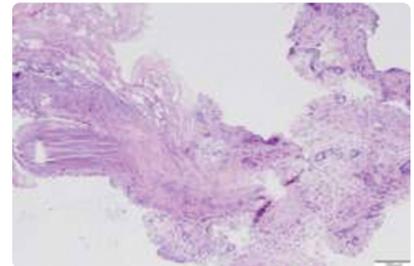
### Knee: Tendon Autograft Augmentation in ACL Reconstruction<sup>2</sup>



ACL hamstring autograft with TenoWrap collagen wrap.



Second look at 7 months post-op showing collagen incorporation. The graft is now vascularized like a native ACL.



Histology of biopsy at 6 months shows cell infiltration.

## TenoWrap™ Collagen Tendon Wrap Preparation

01. Rehydrate the TenoWrap collagen tendon wrap in sterile saline for at least 5 minutes
02. After hydration, the TenoWrap graft may be cut to an appropriate length as desired
03. Place the TenoWrap graft at or around the intended surgical site
04. Stay sutures can be used to secure the graft to the tendon or adjacent tissue



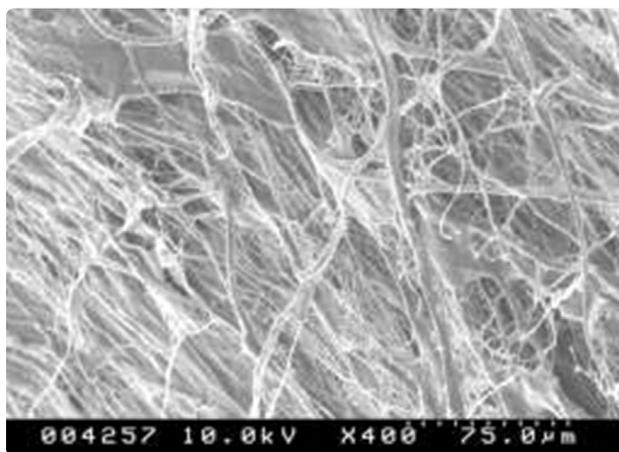
## Why Use a Tendon Wrap?

- › Protects the repaired tendon or soft tissue
- › Incorporates improved, optimal porosity to encourage tissue ingrowth

Tendon scarring often occurs as a result of tendon repair, which can cause other structures, such as joints, to lose normal range of motion. TenoWrap grafts provide a protected environment and gliding surface of the sheath for tendon healing.<sup>1</sup>

**Table 1:** A rabbit flexor tendon repair study conducted by Feng Zhang, MD, PhD, at the University of Mississippi Medical Center investigated range of motion and joint flexion of digits (degree, mean ± SD).<sup>1</sup>

Range of Motion	Control Group (n=6)	Collagen Group (n=7)	Normal Group (n=7)
PIP joint	6.5 ± 1.6	12 ± 2.5	11.1 ± 4.4
MP joint	11 ± 1.9	19.2 ± 5	23.5 ± 11.1



SEM picture of TenoWrap graft at 400× magnification

- › Resorbable, purified collagen fiber
- › High porosity for tissue ingrowth
- › Excellent fluid retention<sup>3</sup>

## Ordering Information

TenoWrap™ collagen tendon wrap is available in multiple sizes, which allows for a wide range of applications and repairs using a simple, quick surgical technique.

TenoWrap collagen tendon wrap, 16 mm × 5 cm	ABS-16050
TenoWrap collagen tendon wrap, 16 mm × 2.5 cm	ABS-16025

Products advertised in this brochure / surgical technique guide may not be available in all countries. For information on availability, please contact Arthrex Customer Service or your local Arthrex representative.

## References

1. Zhang F, Jacob S, Jenssen J, et al. Self-rollable type I collagen membrane for reducing adhesion in tendon surgery. Poster presented at: Society for Biomaterials Annual Meeting and Exposition; April 22-25, 2009; San Antonio, TX.
2. Berdis AS, Veale K, Fleissner PR Jr. Outcomes of anterior cruciate ligament reconstruction using biologic augmentation in patients 21 years of age and younger. *Arthroscopy*. 2019;35(11):3107-3113. doi:10.1016/j.arthro.2019.05.047
3. Millan SM, Thorn D, Ford E. A novel approach to augmenting allograft hamstring anterior cruciate ligament reconstructions utilizing a resorbable type I collagen matrix with platelet rich plasma. *Case Rep Orthop*. 2021;2021:5574676. doi:10.1155/2021/5574676

This description of technique is provided as an educational tool and clinical aid to assist properly licensed medical professionals in the usage of specific Arthrex products. As part of this professional usage, the medical professional must use their professional judgment in making any final determinations in product usage and technique. In doing so, the medical professional should rely on their own training and experience, and should conduct a thorough review of pertinent medical literature and the product's directions for use. Postoperative management is patient-specific and dependent on the treating professional's assessment. Individual results will vary and not all patients will experience the same postoperative activity level or outcomes.



Arthrex manufacturer, authorized representative, and importer information (Arthrex eIFUs)



US patent information