

## Utilization of a Next Generation Decellularized Dermal Allograft to Augment the Repair of a Re-Ruptured Achilles Tendon

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### Surgical Summary

#### Clinical Presentation:

- 66-year-old female with left sided heel pain for over 1 year. Attempted conservative treatment options: boot, physical therapy, and nonsteroidal antiinflammatory drugs (NSAIDs).
- MRI at that time showed Haglund's with moderate to severe hypertrophic tendinopathy and interstitial tearing.
- Subsequent need for surgical intervention: Achilles tendon debridement and repair with GraftJacket<sup>®</sup> for augmentation and Haglund's resection. Discharged to home, non-weightbearing for 4 weeks, followed by physical therapy and weight bearing in a boot.
- Continued to complain of pain and swelling; Failed physical therapy, and further non-operative management (NSAIDS, rest, immobilization).
- Repeat MRI showed severe hypertrophic tendinopathy with 4 cm ill-defined tear with full thickness component filled with inflammatory tissue, no gap.

#### Intraoperative Findings:

- Previous achilles tendon debridement site was noted. Ruptured achilles tendon (Figure 1 and 2), with significant inflammation; presence of residual Graftjacket<sup>®</sup>.



Figure 1



Figure 2

#### Surgeon Perspective:

*"DermaPure<sup>®</sup> brings both biologic and mechanical advantages. Its easy handling, biomechanical properties, and proven increase in pro-angiogenic factors, make it ideal for tendon healing."<sup>1</sup>*

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### Surgical Procedure:

- Surgical incision through previous lateral approach at the base of the achilles, revision calcaneal exostectomy and decompression.
- Debridement of achilles tendon, removed residual Graftjacket®, extensive resection followed by side to side repair of the achilles tendon.
- DermaPure® decellularized dermal allograft placed circumferentially, with the basement membrane outermost, to augment the side to side repair (Figure 3 and 4).



Figure 3



Figure 4

### Post-Operative Note:

- Discharged to home non-weight bearing for 4 weeks, to be followed by physical therapy and weightbearing in a boot.
- Patient is being followed routinely to assess clinical outcomes.

#### DermaPure® Implantation:

- 4 cm x 6 cm
- Basement membrane outer-most

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1. Greaves NS, Lqbal SA, Morris J, et al. Acute cutaneous wounds treated with human decellularised dermis show enhanced angiogenesis during healing. PLoS One. 2015;10(1):e0113209. Published 2015 Jan 20. doi:10.1371/journal.pone.0113209

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