

### THE ORTHADAPT™ BIOIMPLANT PROVIDES EXCELLENT SCAFFOLD FOR POSTERIOR TIBIAL TENDON REPAIR



**Harvey Lefkowitz, DPM, DABPS, FACFAS**  
Botsford General Hospital  
Farmington Hills, Michigan

#### Abstract

*A 59 year old female with a posterior tibial tendon tear underwent surgery. An OrthADAPT Bioimplant graft was wrapped around the tendon to provide a strong scaffold during the repair healing process.*

#### Introduction

The OrthADAPT Bioimplant from Pegasus Biologics, Inc., is derived from equine pericardium, and is fully cross-linked and terminally sterile. Clinical results demonstrate that this biologic material is biologically quiet, does not produce any clinically significant inflammatory response, and provides a strong scaffold for rapid, controlled remodeling and integration of tissue at the implant site.

#### Patient History

A 59 year old female had a longstanding history of hammer toe pain of the second and fifth digits, and pain due to significant hyperkeratosis at the interphalangeal joint of the left hallux, as well as ankle and arch pain along the posterior tibial tendon of the left foot. A diagnostic MRI revealed a longitudinal tear of the posterior tibial tendon of the left foot. Conservative orthopedic supportive treatment provided minimal relief. Surgical intervention to repair the torn posterior tibial tendon was scheduled.

The patient was taken to the operating room placed in a supine position, and put under general anesthesia. A thigh tourniquet was applied to the left lower extremity.

The leg was prepped and draped in the usual sterile manner. The lower left extremity was exsanguinated and the tourniquet inflated to 325 mmHg. After surgical correction of the hammer toe and joint ossicles, attention was turned to the torn posterior tibial tendon. An 8 cm Kocher incision was made following the course of the P.T. tendon. The tendon was isolated, as well as a loose bone fragment at the navicular tuberosity. The bone fragment was excised and a P.T. tenodesis was secured to the navicular utilizing a



MRI of Left Ankle

Mitek G2 anchor with #2 Ethibond suture. Further examination of the P.T. tendon revealed flattening and slight degeneration and longitudinal tear just proximal to the navicular insertion point. A #3 Ethibond continuous lock suture was used to



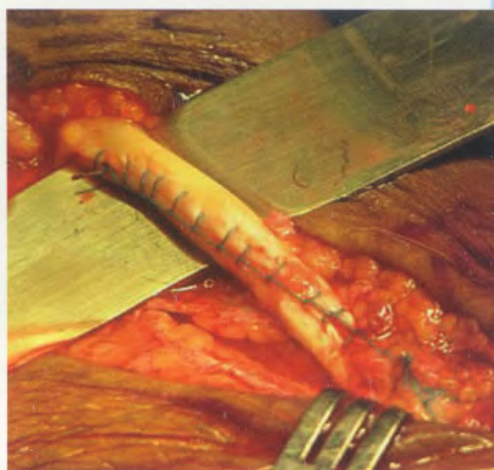
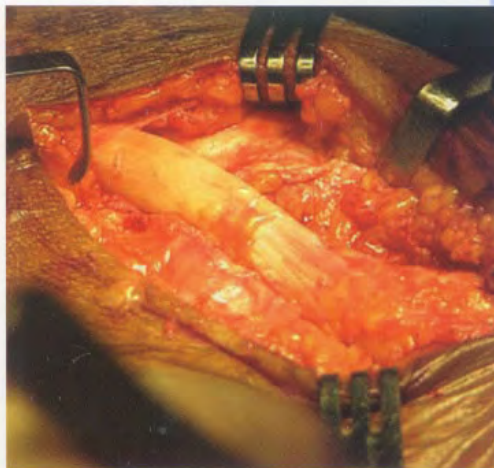
tubularize the tendon along the longitudinal tear. To scaffold the tendon, a 4 cm x 5 cm OrthADAPT Bioimplant was wrapped circumferentially around the tendon repair and the seam sutured with a vest over pants technique using #3 Ethibond in a running interlocking manner. The Bioimplant flap was sutured over the continuous lock suture with simple sutures of 3-0 Ethibond in a vest over pants technique to bury the knots. The OrthADAPT™ Bioimplant was then rotated 90° to position the smooth side of the graft superiorly. The OrthADAPT was kept moist with saline drip intermittently throughout the procedure. The retinaculum was re-approximated with 3-0 Vicryl in a simple interrupted suture technique and the wound flushed copiously with sterile saline prior to closure. The subcutaneous tissue was closed with 4-0 Vicryl and the skin sutured with 4-0 Nylon horizontal mattress stitch. Post-operatively, the patient was placed in a Below Knee cast and instructed to remain non weight bearing until instructed otherwise.

## Results

- Excellent scaffolding of the repaired tendon was achieved
- No operative or early post-operative complications were experienced

## Discussion

The OrthADAPT Bioimplant provides excellent tendon scaffolding as the repaired Posterior Tibial tendon heals.



**PEGASUS**  
BIOLOGICS

[www.pegasusbio.com](http://www.pegasusbio.com)

**Pegasus Biologics, Inc.**  
6 Jenner, Suite 150, Irvine, CA 92618  
Phone: 800.650.1816

Refer to the Pegasus Biologics, Inc. instructions for use for the proper use, precautions, warnings, approved indications and labeling of the OrthADAPT Bioimplant.

Federal law restricts this product to sale by or on the order of a physician.  
OrthADAPT is a registered trademark of Pegasus Biologics, Inc.  
©2006 Pegasus Biologics, Inc. All rights reserved.  
SAM0021A (6/06)