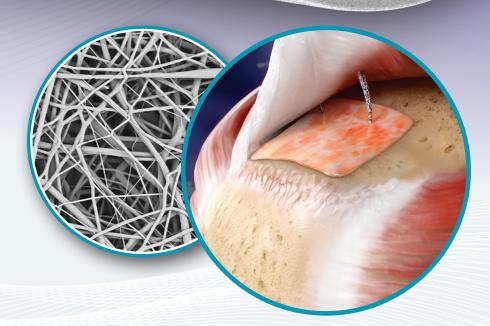
ADVANCING THE JOURNEY OF **TENDON-TO-BONE** HEALING



Corthopedics WHERE INNOVATION MEETS HEALING™

ROTIUM®

A bioresorbable wick placed at the tendon-bone interface designed to address the biologic environment for better support of the healing cascade, remodeling of healthy tissue and improvement in long-term outcomes after rotator cuff repair.

Harness Autologous Biology Improve Tendon Healing Remodel a Healthy Enthesis

THE BIOLOGIC CHALLENGE

Scar tissue formation without a healthy enthesis may increase the chance of biologic failure and lead to inferior healing or inconsistent functional outcomes.



A BREAKTHROUGH HEALING SOLUTION



Interpositional Wick

Mimics extracellular matrix (ECM) & holds active biology at the repair site Kickstarts a pro-healing environment



Smart Economics & Simplified Technique

Priced for use on every repair Easily incorporated into current RTC surgeries without disposables



Synthetic & Bioresorbable

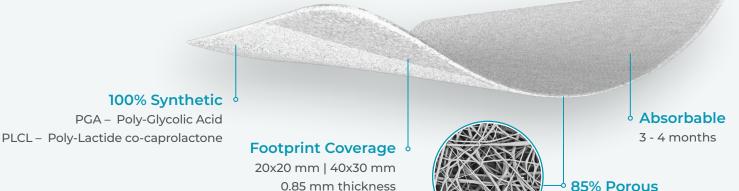
Biphasic absorption encourages cellular integration & proliferation Degradants known to facilitate healthy tissue remodeling



Reproducible Clinical Success

Promotes the natural healing process Delivers consistent long-term results & restoration of function

DESIGNED AS A SCAFFOLD



Microfiber matrix

THE POWER OF HEALTHY INTERFACE

> IMPROVED OUTCOMES

Retrospective Study (OJSM)⁴

- 33 Patients
- Small Large Tear Sizes
- 91% Success Rate

Prospective Study (JOEI)²

- · 30 Patients Randomized
- Small Large Tear Sizes
- 93% Success Rate



7% **RETEAR RATE WITH ROTIUM®**

» IMPROVED HEALING

Sheep CSU Study (JSES)³

- Development of Sharpey's like fibers at the tendon-bone interface (vs. the control group)
- Remodeled enthesis with characteristics similar in thickness & organization to native tendon



HEALING WITH SCAR TISSUE VS. HEALTHY **BONE-TENDON INTEGRATION**

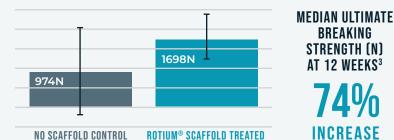
NO SCAFFOLD CONTROL

REPAIR WITH ROTIUM®

> IMPROVED STRENGTH AND CONSISTENCY

Safe and Effective

- Increased strength with reproducible repair outcomes
- · Synthetic polymers have demonstrated excellent biocompatibility & no reported adverse effects



BREAKING STRENGTH (N) AT 12 WEEKS³

CONFIDENCE IN SYNTHETICS

ROTIUM aims to solve the ROOT CAUSE of tendon failures and is designed for widespread case use for all tear sizes by addressing the weak link in tendon-bone healing. Degradative polymer contributions:

Glycolic Acid 6,7,9

- Anti-Inflammatory properties
- Increases fibroblast proliferation & production of collagen & HA

Lactic Acid 5,8,10

- Stimulates VEGF & collagen gene expression
- Modulates inflammation & accelerates cellular migration
- Promotes ECM deposition & reparative angiogenesis

Caproic Acid⁷

- Anti-microbial properties
- Anti-inflammatory properties

VERSATILE & SIMPLIFIED TECHNIQUE



C ROTIUM enables the regeneration of the bone-to-tendon interface (Sharpey's fibers) which PRP, stem cells and dermal allografts have never been able to do. **99** *Anthony A. Romeo, MD*

C ROTIUM stimulates and enhances native biological activity at the repair site, is quick & easy to apply, and significantly improves the biological integrity of my repairs. **9 Brian L. Badman, MD**

CONTACT YOUR ATREON REPRESENTATIVE

Ask for the detailed ROTIUM Surgical Technique Guide. A manuscript of this surgical procedure can also be found in the Techniques in Arthroscopy Techniques Journal¹

PART NUMBER	DESCRIPTION	QTY	UNIT OF MEASURE
FG-0007	ROTIUM $^{ extsf{B}}$ Bioresorbable Wick Implant - 2cm x 2cm	1	Each
FG-0043	ROTIUM [®] Bioresorbable Wick Implant - 4cm x 3cm	1	Each

INDICATIONS

The ROTIUM® Bioresorbable Wick is intended to be used in conjunction with suture anchors for the reattachment of tendon to bone in rotator cuff repairs. Please refer to the instructions for use for a complete list of indications, contraindications, warning and precautions.

WARNING

Please also refer to the package insert(s) or other labeling associated with the devices identified in this brochure for additional information.

CAUTION Rx Only







Right Regeneration



Legal Manufacturer: Nanofiber Solutions Distributed by: Atreon Orthopedics 5164 Blazer Pkwy. Dublin, OH 43017 USA 614-429-1471 | www.atreonortho.com

- ¹ Beleckas, C. M., Bishai, S.K., & Badman, B. L. (2021). Rotator Cuff Repair Augmented with Interpositional Nanofiber Scaffold. Arthroscopy Techniques. https://doi.org/10.1016/j. eats.2022.08.061
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- ⁶ Green, B.A., R.J. Yu, and E.J. Van Scott, Clinical and cosmeceutical uses of hydroxyacids. Clin Dermatol, 2009. 27(5): p. 495-501.
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- $\$ All claims supported by data on file $\$ § References available upon request

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