

CLINICAL SOLUTIONS OVERVIEW

Synthetic Solutions for
Complex Repair & Reconstruction



Atreon's electrospun synthetic platform is built on highly porous scaffolds designed around the healing microenvironment, with distinct scaffold designs and resorption profiles tailored for complex wounds, tendon repair and soft-tissue reconstruction.

TENDON-BONE INTERFACE



Robust scaffold designed to wick and retain native biology at the tendon-bone interface, supporting the healing microenvironment.

THICKNESS: 0.85MM | RESORPTION: ~3-4 MONTHS

TENDON REPAIR & RECONSTRUCTION



Flexible, low-profile scaffold designed to wick biology and incorporated as a wrap, onlay or interpositional matrix to fit constrained anatomies.

THICKNESS: 0.45MM | RESORPTION: ~2-3 MONTHS

FULL-PARTIAL THICKNESS WOUNDS



Conformable matrix designed to support the wound-healing microenvironment and tissue remodeling in complex wounds.

THICKNESS: 0.20MM | RESORPTION: ~10-14 DAYS

ENGINEERED FOR THE HEALING MICROENVIRONMENT

100% Synthetic • Electrospun Matrix • Fully Bioresorbable

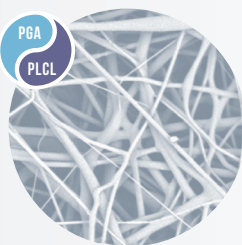
SYNTHETIC POLYMER BLEND

PGA + PLCL
Proven, biocompatible polymers



ELECTROSPUN SCAFFOLD

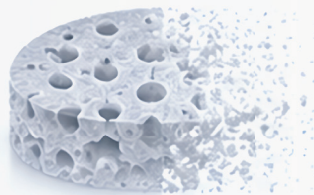
Highly porous, interconnected fiber architecture



~85% POROUS

BIPHASIC RESORPTION

PGA resorbs first, opening scaffold porosity. PLCL resorbs over time, maintaining the temporary framework.



PGA resorbs first → **PLCL** resorbs over time

BIOACTIVE DEGRADANTS

Hydrolysis of PGA + PLCL produces naturally metabolized acids that help shape the local healing environment.

- **GLYCOLIC ACID**
Modulates Inflammation & promotes fibroblasts
- **LACTIC ACID**
Associated with angiogenic signaling
- **CAPROIC ACID**
Addresses microbial contaminants

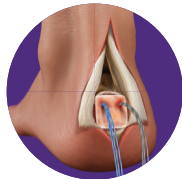
PHOENIX & THE WOUND HEALING MICROENVIRONMENT

- Reduces pH levels to pro-healing state
- Promotes cellular infiltration & remodeling
- Supports formation of healthy granulation tissue
- Fenestrated for exudate management / NPWT compatibility
- Provides a barrier against biofilm formation
- No contraindications, including infection

VERSATILITY ACROSS SPECIALITIES

REAL-WORLD APPLICATION SPOTLIGHTS

Supporting complex soft-tissue care from wound management through tendon repair and reconstruction.



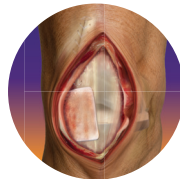
FOOT & ANKLE TENDON RECONSTRUCTION

Optimizing the environment for tendon-to-bone healing and remodeling



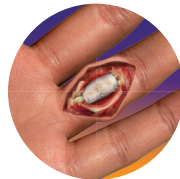
GLUTEUS MEDIUS RECONSTRUCTION

Provides biologic support for complex hip tendon repairs and reconstructions



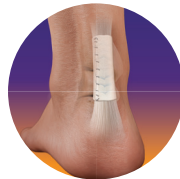
CAPSULAR CLOSURE

Supports the biologic healing environment in cases of poor tissue quality



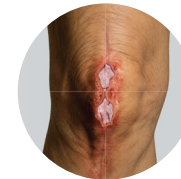
EXTENSOR MECHANISM

Conformable scaffold for wrapping a tendon repair in constrained anatomy



ACHILLES TENDON REPAIR

Retains and concentrates native biologic factors to optimize soft tissue healing



WOUND DEHISCENCE

Provides a barrier membrane to protect against microorganisms



LOWER EXTREMITY WOUND

Fenestrations accommodate wound exudate and compatibility with NPWT

OTHER COMMON-USE APPLICATIONS

TRAUMA & LIMB SALVAGE

ROTIIUM & ROTIIUM LO PRO

- Acute tendon repair
- Extensor mechanism repair
- Tendon reconstruction after trauma
- Revision tendon repair

PHOENIX

- Traumatic soft-tissue wounds
- Surgical wound dehiscence
- Limb salvage / amputation-site wounds
- Complex wounds with exposed structures
- Wounds managed alongside NPWT

FOOT & ANKLE

ROTIIUM & ROTIIUM LO PRO

- Achilles — midsubstance / insertional
- Peroneal tendon repair
- Posterior tibial tendon repair
- Tendon reconstruction / revision

PHOENIX

- Diabetic foot wounds
- Postoperative dehiscence
- Traumatic foot & ankle wounds
- Complex surgical wounds
- Wound-bed preparation

ORTHOPEDICS & RECONSTRUCTION

ROTIIUM & ROTIIUM LO PRO

- Capsular closure
- Quadriceps / patellar tendon
- Extensor mechanism
- Hand / wrist flexor & extensor tendon

PHOENIX

- Revision arthroplasty wounds
- Complex postoperative wounds
- Trauma reconstruction
- Necrotizing soft-tissue defects
- Grafting



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AOI-00203 Rev A
September 2026

