Redefining biological healing

Where others aim to improve, we redefine.



REGENETEN Bioinductive Implant
Tissue growth 1-3



HEALICOIL
REGENESORBO
Suture Anchor

Tendon thickening⁵



HEALICOIL[†]
KNOTLESS
Suture Anchor
Open architecture^{4,5}



REGENESORB Material Bone replacement⁶⁻⁸

SmithNephew

ADVANCED HEALING SOLUTIONS

Biological Portfolio



Powered by evidence





HEALICOIL
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Suture Anchor
Tendon thickening⁵



HEALICOIL⁶
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Open architecture^{4, 5}



REGENESORB Material

Bone replacement 6-8



Changing the course of rotator cuff progression

The REGENETEN Bioinductive Implant supports the body's natural healing response to promote new tendon-like tissue growth and change the course of tear progression.^{1, 2, 9-11} Derived from highly purified bovine Achilles tendon, it creates an environment that is conducive to healing.^{1, 2, 9, 27}







What it is and how it works

- Proprietary, highly porous implant design facilitates the formation of new tendon-like tissue.
- New tissue reduces the peak strain at the site of the tear.^{12*}
- Histology at 6 months show dense regularly orientated tendon-like tissue at the site of implantation 9.13*

* On human biopsy (n=1) and in-vivo sampling

** based on finite element analysis



4

REGENETEN is...restorative, not reparative. If you believe in biology, this is a big step.

Felix H. "Buddy" Savoie III, MD Chairman of Orthopaedic Surgery Chief of Sports Medicine Tulane University School of Medicine New Orleans, LA **D**

♣ Open-architecture, now open to even greater possibilities

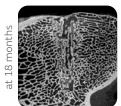
The unique open-architecture design of HEALICOIL anchors reduces the amount of implanted material in the shoulder compared to traditional, solid-core anchors.²⁸

- May facilitate greater increase in rotator cuff thickness vs competitor5
- May provide a biologic healing advantage^{4,5}

Faster, more complete bone infill than Arthrex's Biocomposite material.

HEALICOIL® REGENESORB®

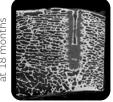






Arthrex Biocomposite Corkscrew® FT





Comparisons of bone infill, measured via µCT, at 6 and 18 months in a pre-clinical study.8



The real advantage of the [HEALICOIL] open architecture is that the stem cells from the bone marrow can reach the bone-tendon interface to promote healing where it is most needed.

Jan Vonhoegen, MD Specialist for Orthopaedics and Trauma Surgery

Least amount of suture displacement during cyclic loading vs competitors¹⁴

69%

less suture displacement than Arthrex BioComposite SwiveLock® 5.5mm Self-Punching (SP) after cyclic loading for 500 cycles* 94%

less suture displacement than Healix Advance™ 5.5mm SP Biocomposite Anchor after cyclic loading for 500 cycles**

Proven internal locking mechanism¹⁵

By descending a plug in the distal implant, the suture is securely locked in place providing an additional point of fixation.***



Most open architecture design vs competitors 16****

- Three times more open than Arthrex BioComposite SwiveLock®4.75mm SP
- Four times more open than Arthrex BioComposite SwiveLock® 5.5mm SP
- May facilitate healing by allowing access of bone marrow and associated stem cells to the repair site^{4,5}
- Shown to facilitate better bone ingrowth than solid anchors^{4,17}



^{*} As demonstrated in benchtop testing; p = 0.002

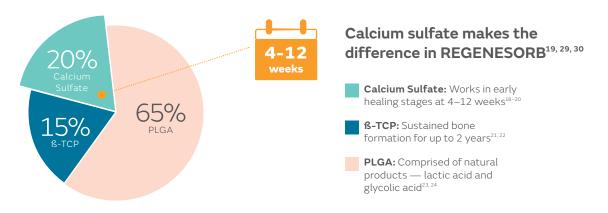
^{**} As demonstrated in benchtop testing; p < 0.001; All Healix Advance 5.5 mm SP Biocomposite Anchors failed to complete the cyclic loading due to suture slipping within the anchor construct under the maximum cyclic load of 45 N

^{***} As demonstrated in benchtop testing

^{****} Compared to Arthrex, BioComposite SwiveLock 4.75mm SP, 5.5mm SP and Healix Advance 5.5mm SP Biocomposite Anchor

No other biocomposite can do this, a unique formulation of proven materials

Effective absorption and bone replacement in 24 months.⁶⁻⁸* REGENESORB material is designed to provide a jump start in bone healing and formation.



Absorption and bone replacement The timeline of implant

REGENESORB material is designed to remain mechanically stable for a minimum of six months** before being absorbed and replaced by bone within 24 months.^{6-8, 25, 26*}



* Demonstrated clinically and in vivo



The difference for me with REGENESORB is its base is PLGA, which has different resorption characteristics and tends to resorb. On MRI follow-ups of patients, we noticed the material is actually changing to bone, and much earlier too — usually in less than two years — it's a major advantage.

Ian Lo, MD FRCS(C) Assistant Professor University of Calgary

Ordering information

REGENETEN° Implants		
Reference #	Description	
72205306	Medium Bioinductive Implant with Arthroscopic Delivery (1)	
72205307	Large Bioinductive Implant with Arthroscopic Delivery (1)	
REGENETEN	I Anchors	
Reference #	Description	
72205205	Bone Anchors (3) with Arthroscopic Delivery System	
72205201	Tendon Anchors (8)	
REGENETEN	Accessory Devices	
Reference #	Description	
72205202	Tendon Marker (2)	
72205206	Tendon Stabilizing Guide (1)	
72205199	Bone Anchor (1)	
	REGENESORB° Suture Anchors Pre-loaded FAPE and ULTRABRAID°	
Reference #	Description	
72203705	HEALICOIL REGENESORB Suture Anchor, 4.75mm, with one ULTRATAPE Suture, blue, and one #2 ULTRABRAID Suture, cobraid-black	
72203697	HEALICOIL REGENESORB Suture Anchor, 4.75mm, with one ULTRATAPE Suture, cobraid blue, and one #2 ULTRABRAID Suture, blue	
72203708	HEALICOIL REGENESORB Suture Anchor, 5.5mm, with one ULTRATAPE Suture, blue, and one #2 ULTRABRAID Suture, cobraid black	
72203801	HEALICOIL REGENESORB Suture Anchor, 5.5mm, with one ULTRATAPE, cobraid blue, and one #2 ULTRABRAID Suture, blue	
72203704	HEALICOIL REGENESORB Suture Anchor, 4.75mm, with two #2 ULTRABRAID ^o sutures, blue, cobraid blue	
72203706	HEALICOIL REGENESORB Suture Anchor, 5.5mm, with two #2 ULTRABRAID sutures, blue, cobraid blue	
72203707	HEALICOIL REGENESORB Suture Anchor, 5.5mm with three #2 ULTRABRAID sutures, blue, cobraid blue, cobraid black	

HEALICOIL REGENESORB Accessory Devices		
Reference #	Description	
72203709	HEALICOIL REGENESORB Threaded Dilator, 4.75mm, reusable	
72203710	HEALICOIL REGENESORB Threaded Dilator, 5.5mm, reusable	
72203951	HEALICOIL REGENESORB Threaded Dilator, 4.75mm, disposable	
72203952	HEALICOIL REGENESORB Threaded Dilator, 5.5mm, disposable	
	K Suture Anchor Pre-loaded with and ULTRABRAID	
Reference #	Description	
72203981	HEALICOIL PK Suture Anchor, 4.5mm, with one ULTRATAPE Suture, blue	
72203982	HEALICOIL PK Suture Anchor, 4.5mm, with one ULTRATAPE Suture, cobraid blue	
72203983	HEALICOIL PK Suture Anchor, 5.5mm, with one ULTRATAPE Suture, blue, and one #2 ULTRABRAID Suture, cobraid black	
72203984	HEALICOIL PK Suture Anchor, 5.5mm, with one ULTRATAPE Suture, cobraid blue, and one #2 ULTRABRAID Suture, blue	
72203378	HEALICOIL PK Suture Anchor, 4.5mm, with two #2 ULTRABRAID Sutures, blue, cobraid blue	
72203379	HEALICOIL PK Suture Anchor, 5.5mm, with two #2 ULTRABRAID Sutures, blue, cobraid blue	
72203380	HEALICOIL PK Suture Anchor, 5.5mm, with three #2 ULTRABRAID Sutures, blue, cobraid blue, cobraid black	
HEALICOIL P	K Accessory Devices	
Reference #	Description	
72202621	Tapered Awl, 3.8mm, disposable	
72201915	Tapered Awl, 3.8mm, reusable	
72202633	HEALICOIL/TWINFIX® ULTRA Threaded Dilator, 4.5mm, reusable	
72203634	HEALICOIL/TWINFIX ULTRA Threaded Dilator, 5.5mm, reusable	

Ordering information (cont.)

HEALICOIL Knotless Suture Anchors		
Reference #	Description	
72205135	HEALICOIL Knotless REGENESORB Suture Anchor, 5.5mm	
72205136	HEALICOIL Knotless REGENESORB Suture Anchor, 5.5mm, self-tapping	
72205137	HEALICOIL Knotless PK Suture Anchor, 5.0mm	
72205138	HEALICOIL Knotless PK Suture Anchor, 5.0mm, self-tapping	

HEALICOIL Knotless Suture Anchor Hole Prep		
Reference #	Description	
72201915	Tapered Awl, 3.8mm, reusable	
72202621	Tapered Awl, 3.8mm, disposable	
72205308	HEALICOIL Knotless Spade Drill, 4.75mm, reusable	
72203710	Threaded Dilator, 5.5mm, reusable	
72203952	Threaded Dilator, 5.5mm, disposable	
ULTRATAPE° Suture		
Reference #	Description	
72203896	ULTRATAPE Suture, blue, 6 per box	
72203897	ULTRATAPE Suture, cobraid blue, 6 per box	

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