# Advanced healing solutions

Redefining healing potential for rotator cuff repair

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## Smith-Nephew



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# Powered by evidence.

HEALICOIL<sup>®</sup> REGENESORB<sup>®</sup> Suture Anchor

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**REGENETEN°** Bioinductive Implant **REGENESORB** Material

- Osteoblasts forming new bone<sup>1</sup>
- More mature bone in the form of organized collagen sheets (lamellar bone)<sup>1</sup>

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REGENESORB fragment being absorbed and replaced by bone<sup>1</sup>



# REGENETEN° Bioinductive Implant

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#### Changing the course of rotator cuff disease

The REGENETEN Bioinductive Implant stimulates the body's natural healing response to support new tendon growth and disrupt disease progression.<sup>3, 4</sup> Derived from highly purified bovine Achilles tendon, it creates an environment that is conducive to healing.<sup>3,4</sup>







#### Biologically improve healing

- Proprietary, highly porous implant design facilitates the formation of new tendonlike tissue.<sup>3,4</sup>
- New tissue reduces the peak strain at the site of the tear.<sup>5</sup>
- Gradually absorbs within 6 months and leaves a layer of new tendon-like tissue to biologically augment the existing tendon.<sup>6</sup>



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#### "[REGENETEN is the] first regenerative pathway to stimulate angiogenesis and be 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

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## HEALICOIL<sup>\$</sup> Suture Anchor

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#### 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.

- Proven to improve tendon healing following rotator cuff repair
- Significant increase in rotator cuff thickness at six weeks compared to solid core anchors
- May provide a biologic healing advantage<sup>7</sup>

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



Arthrex Biocomposite Corkscrew<sup>®</sup> FT



Comparisons of bone infill, measured via  $\mu$ CT, at 6 and 18 months.<sup>2</sup>

"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



ADVANCED HEALING SOLUTIONS



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# **REGENESORB<sup>\(\)</sup>** Material

#### No other biocomposite can do this. A unique formulation of proven materials.

Full absorption and bone replacement in 24 months.\*<sup>8</sup> **REGENESORB material is designed to provide a jump start in bone healing and formation.** 



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#### Absorbtion and bone replacement The timeline of implant

Smith & Nephew REGENESORB material is designed to remain mechanically stable for a minimum of six months before being absorbed and replaced by bone within 24 months.<sup>18</sup>



\*In vivo animal testing has demonstrated that the composite material is bioabsorbable and is replaced by bone. Results of in vivo simulation have not been shown to quantitavely predict clinical performance. Data based on micro CT. \*\*Compared to competitive biocomposite materials, based on unpublished data.



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"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

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Replaced by bone\*



#### References

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Costantino PD, Friedman CD. Synthetic bone graft substitutes. Otolaryngol Clin North Am. 1994;27:1037–1074.
Walsh WR, Morberg P, Yu Y, Response of a Calcium Sulfate Bone Graft Substitute in a Confined Cancellous Defect. Clin. Orthop.Rel. Res. 2003 Jan;(406):228-36.

### Ordering information

REGENETEN° Implants		
Reference #	Description	
4565	Medium Bioinductive Implant with Arthroscopic Delivery (1)	
4566	Large Bioinductive Implant with Arthroscopic Delivery (1)	
REGENETEN	I Anchors	
4403	Bone Anchors (3) with Advanced Delivery System	
2504-1	Tendon Anchors (8)	
REGENETEN	Accessory Devices	
4173-1	Tendon Marker (2)	
4402	Tendon Stabilizing Guide (1)	
2503-S	Bone Anchor (1)	
ULTRATAPE	Suture Passing Instrumentation	
72204385	ARTHRO-PIERCE° ULTRATAPE, 35° up	
HEALICOIL F	REGENESORB <sup>®</sup> Suture Anchors Pre-loaded	
72203705	HEALICOIL REGENESORB 4.75mm Suture Anchor with one ULTRATAPE Suture (Blue) and one #2 ULTRABRAID Suture	
72203697	HEALICOIL REGENESORB 4.75mm Suture Anchor with one ULTRATAPE Suture (Cobraid Blue) and one #2 ULTRABRAID Suture	
72203708	HEALICOIL REGENESORB 5.5mm Suture Anchor with one ULTRATAPE Suture (Blue) and one #2 ULTRABRAID Suture	
72203801	HEALICOIL REGENESORB 5.5mm Suture Anchor with one ULTRATAPE (Cobraid Blue) and one #2 ULTRABRAID Suture	
72203704	HEALICOIL REGENESORB 4.75mm Suture Anchor with two #2 ULTRABRAID <sup>°</sup> sutures (Blue, Cobraid Blue)	
72203706	HEALICOIL REGENESORB 5.5mm Suture Anchor with two #2 ULTRABRAID sutures (Blue, Cobraid Blue)	
72203707	HEALICOIL REGENESORB 5.5mm Suture Anchor with three #2 ULTRABRAID sutures (Blue, Cobraid Blue, Cobraid Black)	

HEALICOIL REGENESORB Accessory Devices		
Reference #	Description	
72203709	HEALICOIL REGENESORB 4.75mm Threaded Dilator, reusable	
72203710	HEALICOIL REGENESORB 5.5mm Threaded Dilator, reusable	
72203951	HEALICOIL REGENESORB 4.75mm Threaded Dilator, disposable	
72203952	HEALICOIL REGENESORB 5.5mm Threaded Dilator, disposable	
HEALICOIL	° PK Suture Anchor Pre-loaded with	
ULTRATAP	E and ULTRABRAID	
72203981	HEALICOIL PK 4.5mm Suture Anchor with one ULTRATAPE Suture (BLUE)	
72203982	HEALICOIL PK 4.5mm Suture Anchor with one ULTRATAPE Suture (Cobraid Blue)	
72203983	HEALICOIL PK 5.5mm Suture Anchor with one ULTRATAPE Suture (Blue) and one #2 ULTRABRAID° Suture	
72203984	HEALICOIL PK 5.5mm Suture Anchor with one ULTRATAPE Suture (Cobraid Blue) and one #2 ULTRABRAID <sup>¢</sup> Suture	
72203378	HEALICOIL PK 4.5mm Suture Anchor with two #2 ULTRABRAID Sutures (Blue, Cobraid Blue)	
72203379	HEALICOIL PK 5.5mm Suture Anchor with two #2 ULTRABRAID Sutures (Blue, Cobraid Blue)	
72203380	HEALICOIL PK 5.5mm Suture Anchor with three #2 ULTRABRAID Sutures (Blue, Cobraid Blue, Cobraid Black)	
HEALICOIL	PK Accessory Devices	
72202621	3.8mm Tapered Awl, disposable	
72201915	3.8mm Tapered Awl, reusable	
72202633	4.5mm HEALICOIL/TWINFIX° ULTRA Threaded Dilator, reusable	
72203634	5.5mm HEALICOIL/TWINFIX ULTRA Threaded Dilator, reusable	

#### Learn more at **smith-nephew.com**

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