



**Novapak™ nasal sinus packing and stent**

# Beyond Structural Stability

The Novapak™ nasal sinus packing and stent is an easy-to-use, sterile sponge for use after sinus surgery. Made of natural chitosan and cellulose, it can help protect your patients and support the natural healing process.



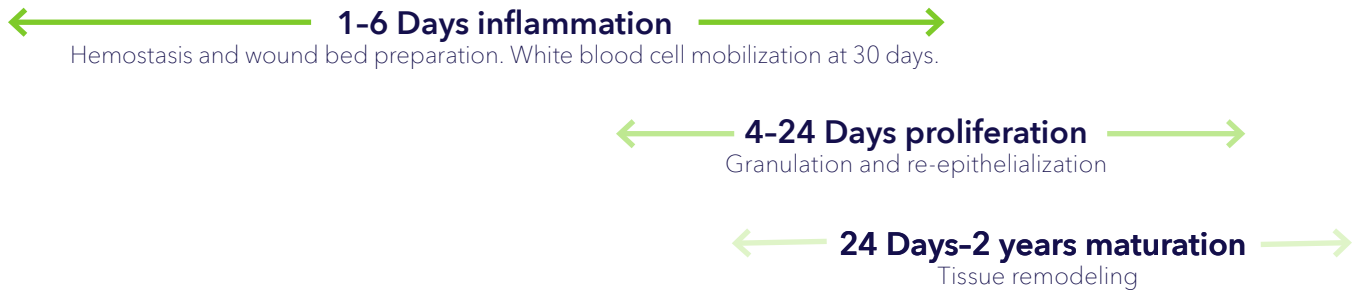


## Supporting the healing process

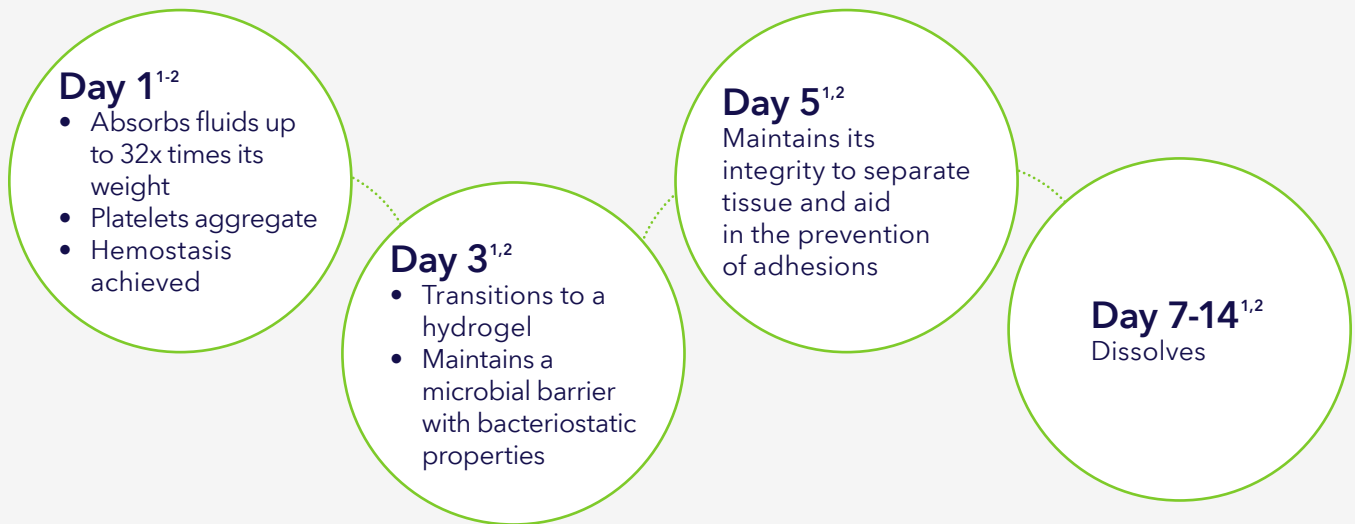
Novapak™ nasal sinus packing and stent delivers antibacterial effectiveness and structural support to reduce adhesions and aids in natural healing.<sup>1,2</sup>



# The science behind wound healing



## How Novapak™ nasal sinus packing and stent supports the healing process<sup>1-4</sup>





## Inspired by nature

The therapeutic properties of Novapak™ nasal sinus packing and stent can be traced to its natural materials. The chitosan it's made of is derived from chitin found in crustaceans and insects – and is well known for its hemostatic properties.<sup>2-4</sup>

Natural chitosan has been shown to reduce adhesions.<sup>5,6</sup>

### **Clinical benefits of chitosan**

- Rapid hemostasis with fewer adhesions<sup>3-8</sup>
- Hemostasis in the setting of coagulopathy, independent of the availability of clotting factors and/or functional platelets<sup>7</sup>



# Proven antibacterial effectiveness<sup>1,2</sup>

The Novapak™ nasal sinus packing and stent is proven effective against the 18 bacterial strains shown in the table below.<sup>1</sup>

Bacterial strain	ATCC #
Pseudomonas aeruginosa	9027
Staphylococcus aureus	25923
Staphylococcus epidermidis	12228
Echerichia coli	8739
Citrobacter freundii	8090
Enterobacter aerogenes	13048
Klebsiella pneumonia	4352
Proteus mirabilis	4630
Serratia marcescens	13880
Haemophilus influenza	53782
Moraxella catarrhalis	8193
Staphylococcus aureus (MRSA)	33591
Staphylococcus saprophyticus	15305
Micrococcus luteus	49732
Streptococcus mutans	25175
Streptococcus pneumoniae	10015
Corynebacterium diphtheriae	296
Corynebacterium tuberculostrictum	35693



# Choosing the right nasal packing matters



Choosing the right postoperative nasal packing for you and your patients matters. The Novapak™ nasal sinus packing and stent is easy to use, accessible, and provides meaningful therapeutic benefits.<sup>1,2</sup>

## **Novapak™ nasal sinus packing and stent is designed to:** <sup>1,2</sup>

- Support vital tissue structures and stabilization at 48 hours
- Dissolve 7-14 days with daily irrigation and natural mucus flow
- Absorb up to 32 times its weight in draining and bleeding of debrided mucosal surfaces
- Act as a hemostatic aid by absorbing and aggregating blood
- Separate tissue and maintain moisture
- Aid in the prevention of adhesions



# Easy to use and accessible<sup>1,2</sup>

- Pliable, compressible, and easy to manipulate
- Springs back when hydrated
- Offered in standard and firm configurations for optimal support, stability, and density
- No temperature requirements for storage or shipping

## Going beyond with the Novapak™ packing and stent

	Therapeutic benefits <sup>1,2</sup>
Material	Natural (chitosan/polymer)
Antibacterial effectiveness	Provides a level of antibacterial effectiveness against 18 microbes
Absorption capacity	Absorbs Up to 32 times its weight
Shipping and storage environment	Room temperature shipping and storage

# Ordering information

Product #	Description	Quantity
CS3600-10	Novapak™ standard nasal sinus packing and stent	10
CS3900-10	Novapak™ firm nasal sinus packing and stent	10

To learn more about how the Novapak™ packing and stent can help your patients, contact your Medtronic representative.

**References**

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4. Valentine R, Athanasiadis T, Moratti S, Hanton L, Robinson S, Wormald PJ. The efficacy of a novel chitosan gel on hemostasis and wound healing after endoscopic sinus surgery. *Am J Rhinol Allergy*. 2010;24(1):70-75.
5. Costain, D.J., Kennedy, R., Ciona, C.J., McAlister, V.C., & Lee, T.D. (1997). Costain DJ, Kennedy R, Ciona C, McAlister VC, Lee TD. Prevention of postsurgical adhesions with N,O-carboxymethyl chitosan: examination of the most efficacious preparation and the effect of N,O-carboxymethyl chitosan on postsurgical healing. *Surgery*. 1997;121(3):314-319. *Surgery*, 121 3, 314-9.
6. Li L, Wang N, Jin X, et al. Biodegradable and injectable in situ cross-linking chitosan-hyaluronic acid-based hydrogels for postoperative adhesion prevention. *Biomaterials*. 2014;35:3903-3917.
7. Kourelis K and Shikani AH. Effectiveness of chitosan-based packing in 35 patients with recalcitrant epistaxis in the context of coagulopathy. *Clin Otolaryngol*. 2012;37(4):309-313.
8. Shikani AH, Chahine KA, Alqudah MA. Endoscopically guided chitosan nasal packing for intractable epistaxis. *Am J Rhinol Allergy*. 2011;25(1):61-63.

Rx only. Refer to product instruction manual/package insert for instructions, warnings, precautions, and contraindications.

**For more information, please call us at 800.874.5797  
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