

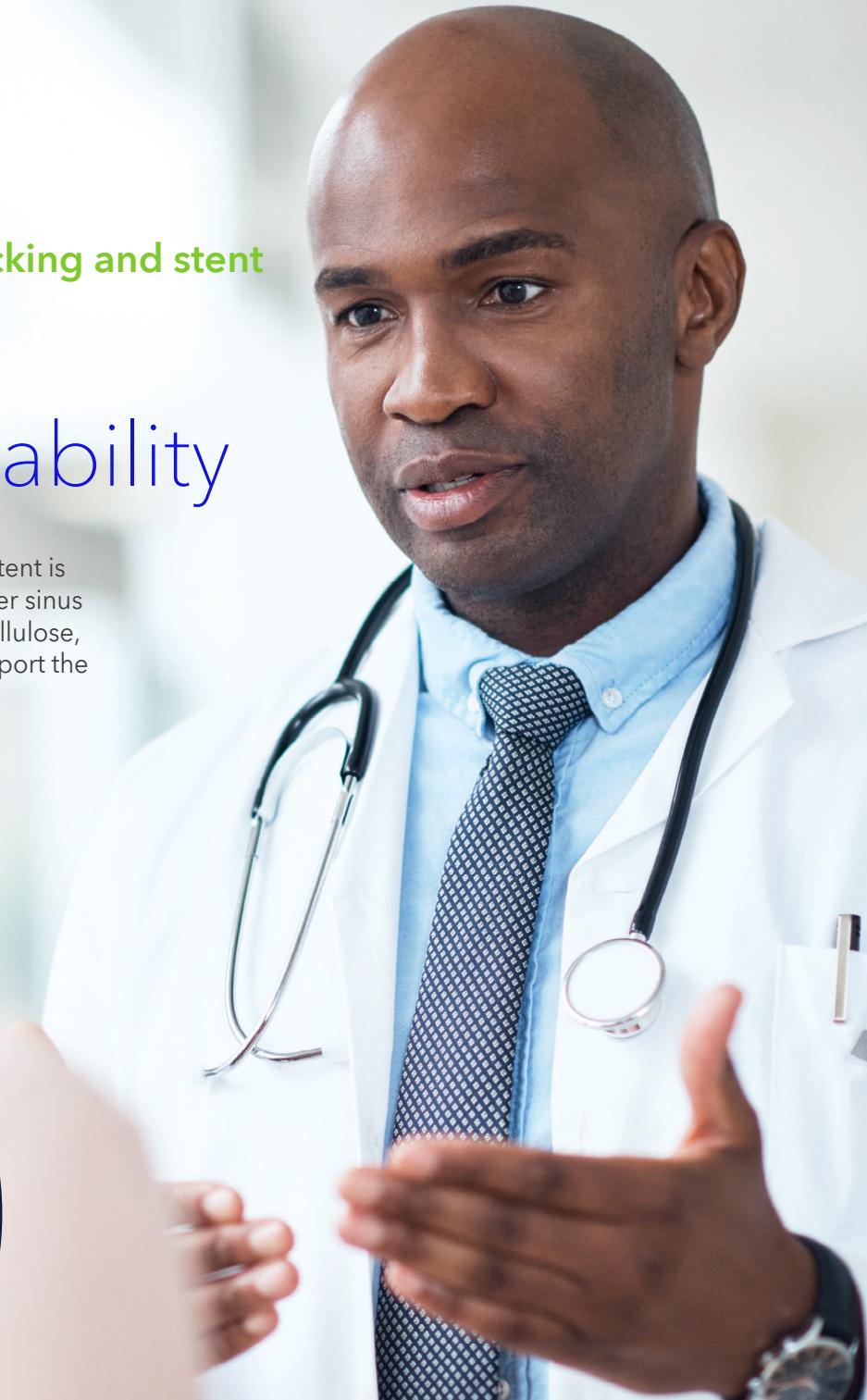


Medtronic

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.

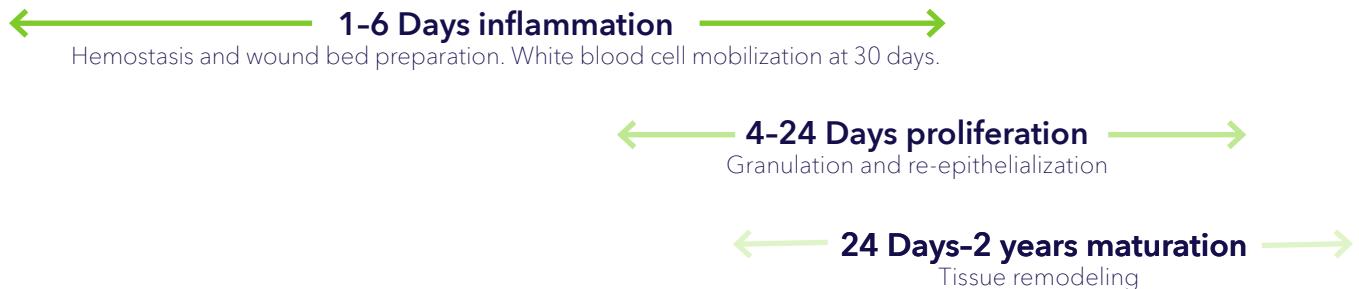




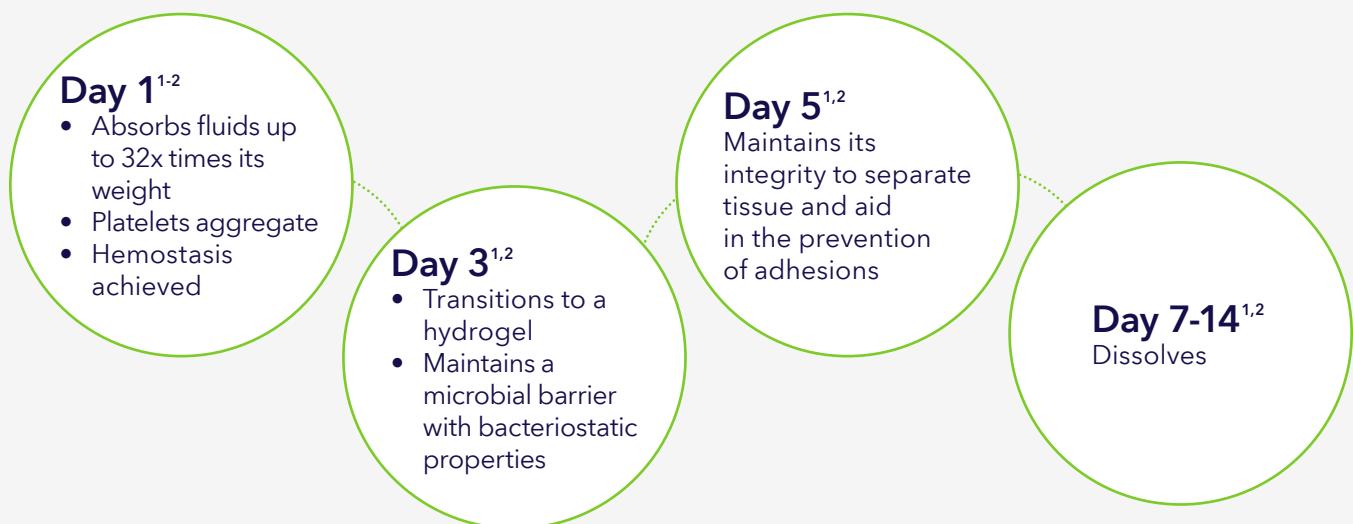
Supporting the healing process

Novapak™ nasal sinus packing and stent delivers antibacterial effectiveness and structural support to reduce adhesions and aids in natural healing.^{1,2}

The science behind wound healing



How Novapak™ nasal sinus packing and stent supports the healing process¹⁻⁴





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.²⁻⁴

Natural chitosan has been shown to reduce adhesions.^{5,6}

Clinical benefits of chitosan

- Rapid hemostasis with fewer adhesions³⁻⁸
- Hemostasis in the setting of coagulopathy, independent of the availability of clotting factors and/or functional platelets⁷

Proven antibacterial effectiveness^{1,2}

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

Bacterial strain	ATCC #
<i>Pseudomonas aeruginosa</i>	9027
<i>Staphylococcus aureus</i>	25923
<i>Staphylococcus epidermidis</i>	12228
<i>Escherichia coli</i>	8739
<i>Citrobacter freundii</i>	8090
<i>Enterobacter aerogenes</i>	13048
<i>Klebsiella pneumonia</i>	4352
<i>Proteus mirabilis</i>	4630
<i>Serratia marcescens</i>	13880
<i>Haemophilus influenza</i>	53782
<i>Moraxella catarrhalis</i>	8193
<i>Staphylococcus aureus (MRSA)</i>	33591
<i>Staphylococcus saprophyticus</i>	15305
<i>Micrococcus luteus</i>	49732
<i>Streptococcus mutans</i>	25175
<i>Streptococcus pneumoniae</i>	10015
<i>Corynebacterium diphtheriae</i>	296
<i>Corynebacterium tuberculostearicum</i>	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.^{1,2}

Novapak™ nasal sinus packing and stent is designed to: ^{1,2}

- 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^{1,2}

- 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 ^{1,2}	
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. Koureli 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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