

Moisture matters.

Naturally derived, exclusive CMC technology
designed to create a moist environment.



The Power of Nature

CMC Technology – Available exclusively in RAPID RHINO[◇] ENT Products.

Only Smith & Nephew offers the RAPID RHINO portfolio with an exclusive formulation of CarboxyMethyl Cellulose (CMC), a plant-derived material. When mixed with water, it forms a cushioning hydrocolloid gel that naturally drains from the body after several days.

Natural CMC technology offers multiple patient care advantages, giving healthcare professionals the utmost confidence.

- Designed to support healing by maintaining a moist physical environment. ^{1,2,3}
- Helps minimize bleeding and edema during surgery – designed to minimize intra- and post-op oozing
- Fills space and acts as a moist physical barrier between mucosal surfaces to prevent painful adhesions after surgery or trauma
- Is not associated with hypersensitivity in patients

All strong reasons to make RAPID RHINO products with CMC technology your first choice.

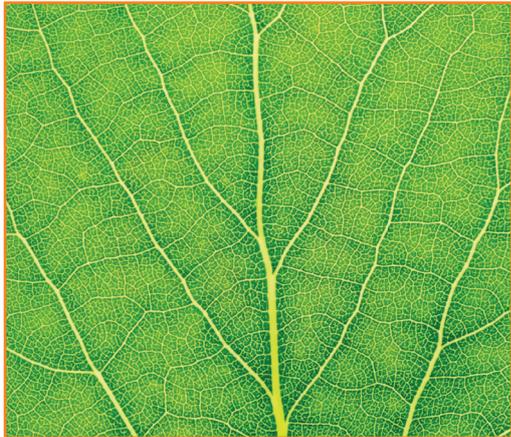
The RAPID RHINO[◊] comprehensive ENT biomaterial portfolio offers a complete line of convenient solutions to meet the widest range of patient care needs.

Options for Each of Your Patients

- | | |
|-----------------------------------|--|
| Multiple formats | <ul style="list-style-type: none">• Allows for splint, foam, knit, and fabric options to meet a wide range of patient needs• Used in both dissolvable dressings and removable devices to address individual patient needs, based on the type of procedure |
| Wide range of sizes | <ul style="list-style-type: none">• Fits both large and small patient anatomies |
| Different stiffness levels | <ul style="list-style-type: none">• All designed for different patient needs |

Easy for Everyone on Your Team

- | | |
|------------------------|--|
| Easy to apply | <ul style="list-style-type: none">• Works quickly, enabling healthcare providers to move on to care for other patients |
| Easy to remove | <ul style="list-style-type: none">• Easily debrided using gentle suction if any material remains <i>in situ</i> (for post-op)• Less adherence to tissue and improved patient comfort at removal (for epistaxis)⁴ |
| Easy to prepare | <ul style="list-style-type: none">• Straightforward preparation• Requires no training before use• Does not require special storage conditions |



CMC – Part of our daily lives.

CMC is a widely used, multipurpose additive found in many products that consumers come into contact with on a daily basis, from food to cosmetics and lotions. It is also reassuring to know that as a food additive, CMC has a GRAS (generally recognized as safe) rating by the FDA.⁵

RAPID RHINO[◇] Post-Op Nasal Dressings

Protects tissues and dissolves away. Naturally.

RAPID RHINO post-op nasal dressings featuring exclusive CMC technology provide excellent fluid absorption and are designed to dissolve completely within the desired timeframe – easily and naturally. The addition of CMC technology eliminates the need for post-op packing/painful removal, for added patient comfort.



The complete portfolio to meet your surgical needs



RAPID RHINO° NASASTENT° DRESSING

Easily trimmed, structural design with built-in resiliency for ease of placement that quickly springs back to conform to the nasal cavity.

- Helps control bleeding via the tamponade effect, providing six times greater compressive strength than Nasopore® Firm^{6,*}
- Provides significantly higher tissue separation forces than Nasopore Firm,^{6,†} keeping intranasal soft tissue in the desired location^{6,†}
- Can absorb up to 16 times its weight⁶
- Stays in place without fragmenting until it naturally dissolves



RAPID RHINO SINU-FOAM° DRESSING

Dissolvable gel that can be easily injected throughout the nasal and sinus cavities.

- Contours to the surrounding cavity
- Helps protect delicate structures and sensitive tissues after surgery
- Stays in place until it naturally dissolves
- Allows for visibility during placement



RAPID RHINO SINU-KNIT° DRESSING

Unstructured knit dressing that allows for greater versatility and precise insertion into surgical sites.

- Can be easily cut and manipulated before inserting to provide a custom fit based on personal preference
- Easy to place and hydrate
- Stays in place until it naturally dissolves

[†]Over all nasal cavity gap sizes tested (from 7 to 10mm) in a simulated nasal cavity, even when Nasopore Firm nasal dressing was double-folded before insertion.

RAPID RHINO[◇] Epistaxis Products

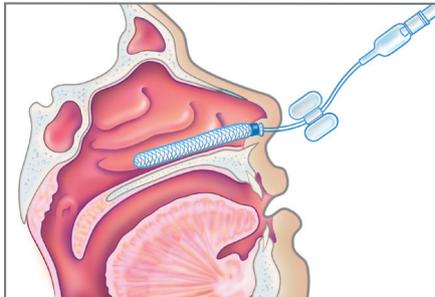
Gentle compression, easy removal. Naturally.

RAPID RHINO epistaxis products featuring exclusive CMC technology are available in a wide range of unilateral and bilateral options for greater versatility. The addition of CMC technology enables self-lubricating properties for greater patient comfort and unsurpassed ease of insertion and removal.⁴

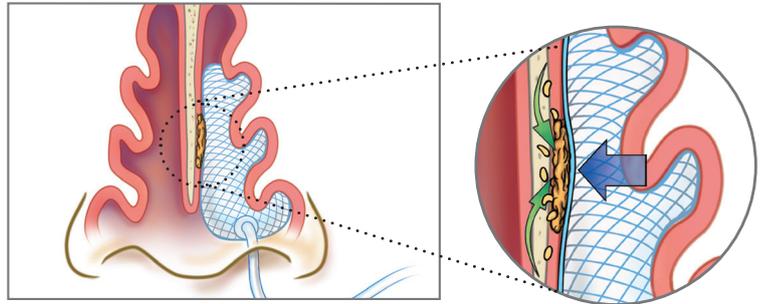


The right fit, no matter what size anatomy

- Ultra low profile design provides unsurpassed ease of insertion and quickly conforms to nasal anatomy⁴
- Provides gentle and even compression to areas of epistaxis
- Designed to prevent adherence to tissue or blood clots upon removal
- Unilateral and bilateral options with or without an airway



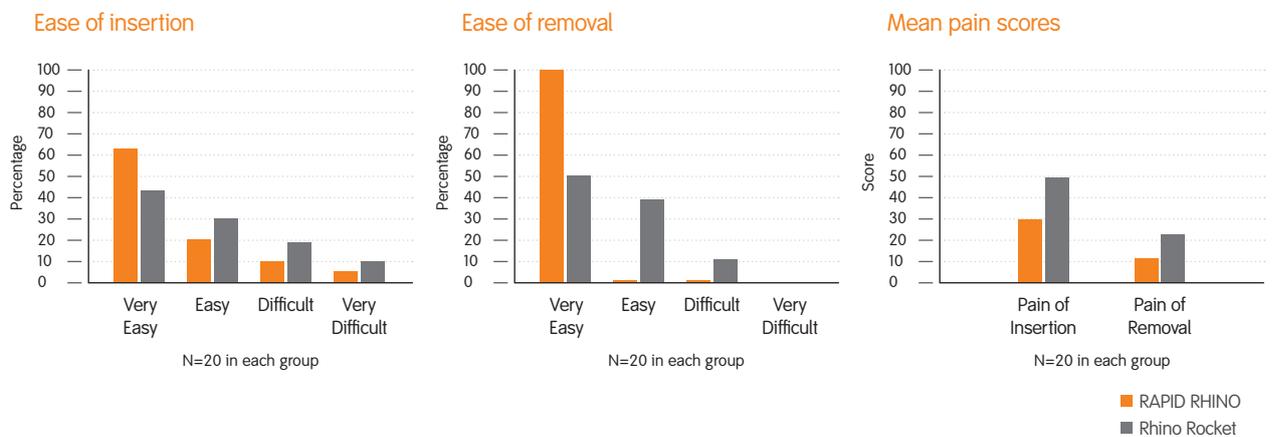
RAPID RHINO[®] Nasal Pac allows for easy insertion and removal while providing quick conformability to any nasal anatomy.



RAPID RHINO with CarboxyMethyl Cellulose (CMC) is designed to provide gentle and even compression to areas of epistaxis, while preventing adherence to tissue or blood clots upon removal.

Choose RAPID RHINO for greater patient comfort⁴

RAPID RHINO Epistaxis Products Compared to Rhino Rocket[®] for Treating Epistaxis in the Emergency Department⁴



RAPID RHINO[◊] with CMC Technology Ordering Information

RAPID RHINO Post-op Nasal Dressings

Reference #	Description
RR 1000	NASASTENT [◊] dissolvable nasal dressing
RR 650	SINU-FOAM [◊] dissolvable nasal dressing
RR 600	SINU-KNIT [◊] dissolvable post-op dressing

RAPID RHINO Epistaxis Products

Reference #	Description
RR 450	4.5cm inflatable unilateral without airway
RR 530	5.5cm noninflatable RAPID PAC [◊] epistaxis product
RR 550	5.5cm inflatable unilateral without airway
RR 551	5.5cm inflatable unilateral with airway
RR 552	5.5cm inflatable bilateral without airway
RR 555	5.5cm bilateral epistaxis device with airway
RR 750	7.5cm inflatable unilateral without airway
RR 751	7.5cm inflatable unilateral with airway
RR 752	7.5cm inflatable bilateral without airway
RR 755	7.5cm inflatable bilateral with airway
RR 900	9cm inflatable dual balloon

RAPID RHINO Removable Dressings

Reference #	Description
RR 300	3cm REIMANN nasal dressing
RR 400	4cm REIMANN nasal dressing
RR 500	5.5cm GOODMAN nasal dressing
RR 800	8cm MANNHEIM nasal dressing

References

1. Junker, Johan P.E. et al. Clinical impact upon wound healing and inflammation in moist, wet, and dry environments. *Advances in Wound Care* 2.7 (2013): 348–356. Web. 14 July 2016.
2. Okushi, Tetsushi et al. Evaluation of symptoms and QOL with calcium alginate versus chitin-coated gauze for middle meatus packing after endoscopic sinus surgery. *Auris Nasus Larynx* (2012); 39:31–37.
3. Akiyama, Kosuke et al. Usefulness of nasal packing with silver containing carboxy methylated cellulose in endonasal sinus surgery. *Auris Nasus Larynx* (2014); 41: 264–268.
4. Singer AJ, Blanda M, Cronin K, LoGiudice-Khwaja M, Gulla J, Katz A. Comparison of nasal tampons for the treatment of epistaxis in the emergency room department: a randomized controlled trial. *Ann Emerg Med*. 2005; 45(2):134-139.
5. <http://www.accessdata.fda.gov/scripts/cdrh/cfdocs/cfcfr/CFRSearch.cfm?fr=182.1745>.
6. Betre, Helawe and Delli-Santi, George. Performance comparison of nasal dressings: dissolvable NASASTENT[◊] vs. fragmentable Nasopore Firm. Smith & Nephew August 2014.

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