

Medtronic

Find your way to sinus relief



**Balloon sinus surgery with the
NuVent™ EM sinus dilation system's
built-in image guidance technology
helps target relief.**

Do you suffer from sinus disease?

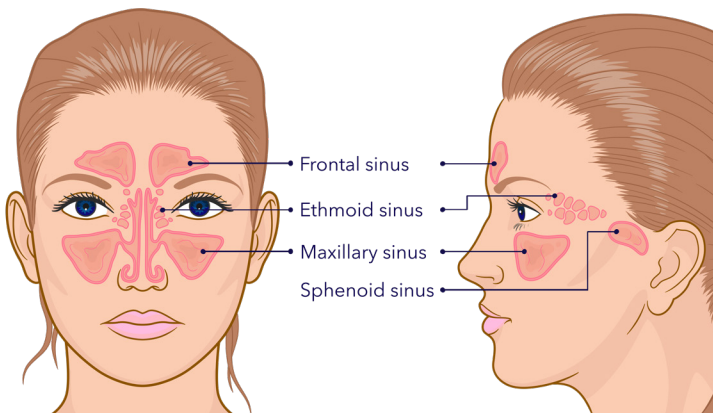
Sinusitis – Inflammation or swelling of the tissue lining of the nasal passages and sinuses.

If you have recurring sinus pain and pressure, you're not alone.

Inflammation can prevent your sinuses from draining properly. Mucous and fluid build-up in the sinuses can lead to sinus infections, which means more inflammation and pain.

Sinusitis that doesn't respond to medical therapy and lasts 12 weeks or more is called chronic rhinosinusitis (CRS).¹

Diagram of sinus anatomy





CRS symptoms and treatments

Symptoms may include²

- Nasal congestion
- Discolored nasal drainage
- Decreased smell or taste
- Facial pressure, discomfort, or fullness
- Headache
- Fatigue
- Upper tooth pain and bad breath

Available treatments

- Medications and/or saline rinses
- Balloon dilation in the office or OR
- Functional endoscopic sinus surgery (FESS)

Medications: Your doctor may prescribe medications to treat your CRS. Antibiotics and steroids are most commonly used.

Balloon dilation: Your doctor may suggest balloon dilation surgery to help open your sinus passages and relieve your symptoms.

FESS: If your disease is more extensive, your doctor may recommend FESS.

What is the NuVent™ system?

NuVent™ EM sinus dilation system is used in a minimally invasive surgical procedure to open blocked sinus pathways. NuVent™ is unique because it has a built-in tracking element that “talks to” the Medtronic image guidance system (IGS) technology.

Your sinus anatomy is unique, especially if you have sinus disease. The IGS displays a visual map of your anatomy, much like a GPS in a car. Your doctor uses NuVent™ with the IGS to find the blocked sinuses and place the balloon.

Benefits of image-guided balloon sinus surgery

- Built-in image guidance helps your doctor find blocked sinus pathways
- When performed in the doctor’s office:³
 - Minimally invasive
 - Faster recovery time



Before your procedure

CT scan

You'll need to have a CT scan of your sinuses because the IGS software uses the scan to create a visual map of your sinus anatomy.

Anesthesia

NuVent™ may be used in the office or the OR. Your doctor will discuss your anesthesia options, which depend on the extent of disease and other factors.

Image guidance system

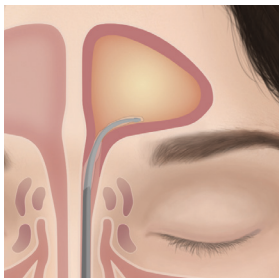
A small tracking device and a special instrument will be used to register and map your anatomy to your CT scans in the IGS.

Safety information

Balloon dilation has associated risks, including tissue trauma, bleeding, infection, and possible ophthalmic injury. Patients should always discuss their individual needs and the potential risks and benefits of any treatment or procedure with their doctor.

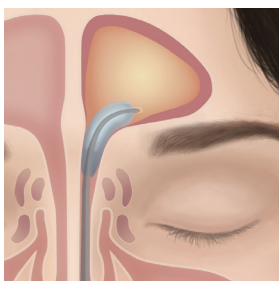


During your procedure



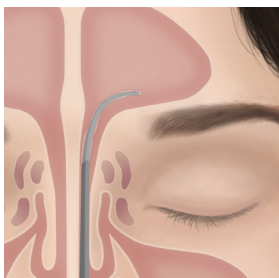
Placing NuVent™ balloon

Your surgeon inserts the NuVent™ balloon into the blocked sinus pathway, using the IGS to confirm precise placement.



Inflating NuVent™ balloon

After confirming placement, the balloon is inflated and held for 5 seconds.



Deflating NuVent™ balloon

After inflation, the balloon is then deflated. The process of inflating and deflating is repeated as necessary.

After your procedure

Your doctor may prescribe additional medications and irrigations to use following your procedure. Be sure to discuss any concerns with your doctor.



Suffering from sinus pain?

Ask your doctor if balloon sinus surgery with NuVent™ balloons may be right for you.

References

1. Rosenfeld RM, Andes D, Bhattacharyya N, et al. Clinical practice guideline: Adult sinusitis. *Otolaryngol Head Neck Surg.* 2007;137:S1-S31.
2. American Rhinologic Society. Adult Sinusitis: <https://sinushealth.com/conditions/adult-sinusitis>. Accessed March 1, 2022.
3. Bikhazi N, et al. Standalone balloon dilation versus sinus surgery for chronic rhinosinusitis: a prospective, multicenter, randomized, controlled trial with 1-year follow-up. *American Journal of Rhinology & Allergy.* 2014; 28(4):323-9.

Products may not be suitable for everyone. Product suitability should be discussed with a Healthcare Professional. For a full indications of use, contraindications, precautions, warnings, and potential adverse events, please refer to the Instructions for Use.

For further information, please call Medtronic at 800.268.5346 or consult Medtronic's website at www.medtronic.ca.

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