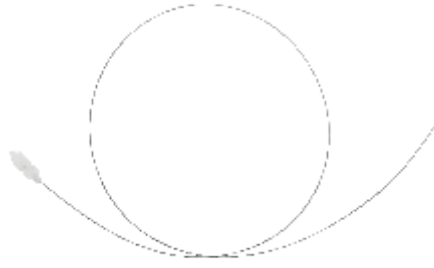


MESIRE™ Illuminus:

Light compatible light wire provides sinus cavity navigation and as an insertion aid for the balloon catheter. Illumination of the light wire allows precise placement.



- Distal-tip design enables responsive transmission of fine adjustment to seek visualized targets
- Compatible with light guide cable, connecting to a standard light source

Doctors are free to use any type of visualization tool in the procedures. The devices merely include features that are useful for more than one type of visualization using generic devices like endoscopes.



Ordering Information:

Balloon Catheter	Sr. No.	Product Code	Balloon Diameter	Balloon Length
	1	MSB50017	5 mm	17 mm
	2	MSB60017	6 mm	17 mm
	3	MSB70017	7 mm	17 mm

Guide Catheter	Sr. No.	Product Code	Angle of Guide Catheter
	1	MSG000	0°
	2	MSG030	30°
	3	MSG070	70°
	4	MSG090	90°
	5	MSG110	110°

Guide Wire	Sr. No.	Product Code	Diameter of Light Wire	Length of Light Wire
	1	MSI083	0.83 mm	100 cm

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Meril Sinus Relief

MESIRE™

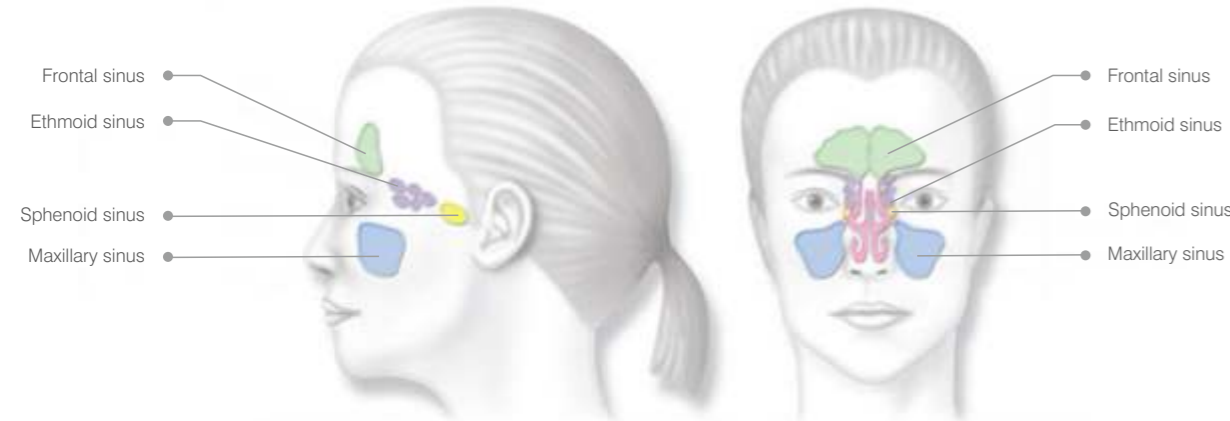
Balloon Sinus Dilation Products

MESIRE™

Balloon Sinus Dilation Products

Sinusitis Overview

Sinusitis is defined as an inflammation of the sinus lining, and is commonly caused by structural issues such as ostial blockage, bacterial infections, viral infections or a combination of these. For many patients, symptoms vary and may include nasal congestion, facial discomfort, nasal discharge, headache and fatigue. Sinusitis is considered acute when symptoms last 4 weeks or less and chronic when it lasts 12 weeks or longer.



Balloon Sinus Dilation is safe and effective procedure for chronic sinusitis patients who are not responding well to medications and seeking relief from uncomfortable and painful sinusitis symptoms.

In Balloon Sinus Dilation ENT surgeons open inflamed sinuses in the same way that cardiologists open up blocked arteries during balloon angioplasty without requiring surgery. Mesire Products used the teachings of Mark A Saab in 'Applications of High-Pressure Balloons in the Medical Device Industry' published September 2000 in Medical Device & Diagnostic Industry Magazine. Mesire Products also use the direct illumination and transillumination from placement of light sources in the sinus cavities. Meril has used teachings common to the US patent No. 7,520,876 issued to Ressemann et al. on April 21, 2009 & the US patent No. 5,370,640 issued to Jack Kloff on December 6, 1994.

Balloon Sinus Dilation is ostium dilation procedure which is effective at relieving symptoms of chronic sinusitis. Meril Balloon Sinus Dilation allows patients to return to normal activities quickly unlike conventional sinus surgery. Meril sinus procedure does not include removal of bones or tissue from the nose.

Safe:

- Safe design (eg. atraumatic tip)
- Zero adverse events
- Less general anesthesia time and necessity

Effective:

- Patency:
Extremely low patency & revision rates
- CT Scan:
Consistent improvement in Lund-MacKay CT scores
- Symptoms:
Significantly improved SNOT-20 score
Symptoms/QOL scores

Patient Friendly:

- Less invasive
- Less trauma
- Less pain
- Less recovery time
- Less scarring
- Less follow-up procedures

Enabling:

- Find and treat the frontal sinus/recess
- Help special case patients (eg. bleeders, ICU)
- May enable paradigm shift to local anaesthesia

In Balloon Sinus Dilation, inflamed sinuses are opened. After Balloon Sinus Dilation the sinuses remain open, allowing the return of normal sinus drainage and relief of sinus pressure.

Safe & Effective

Ostium Dilation – relieves pain and pressure of chronic sinusitis without cutting or removal of natural structures in the nose.

Fast recovery – many people return to normal activities within 24 hours.

Proven

Reliable – 350,000+ have benefited from Balloon Sinus Dilation

Mandated – procedure approved by India DGHS & European CE work.

Indications

The Mesire™ Sinus Balloon Catheter is intended to dilate sinus ostia and spaces within the paranasal sinus cavities for diagnostics and therapeutic procedures.

For children aged 17 and under, the balloon catheter system is intended to dilate sinus ostia and spaces associated with the maxillary sinus for diagnostics and therapeutic procedures.

Why Balloon Sinus Dilation?

The Balloon Sinus Dilation is an advanced surgical procedure approved in India by Indian DCGI and European CE mark approved product. Balloon sinus dilation uses a precise single use balloon catheter to open inflamed sinuses. The balloon catheter is placed into the sinus to reach the inflamed sinuses and gently inflated to restructure the previously blocked nasal passage.

The Balloon Sinus Dilation preserves the normal anatomy of the sinuses and mucosal tissue, and does not require the removal of bone and tissue – this approach helps restore normal sinus functioning. FESS involves removal of bone and tissue and the recurrence rates are high.

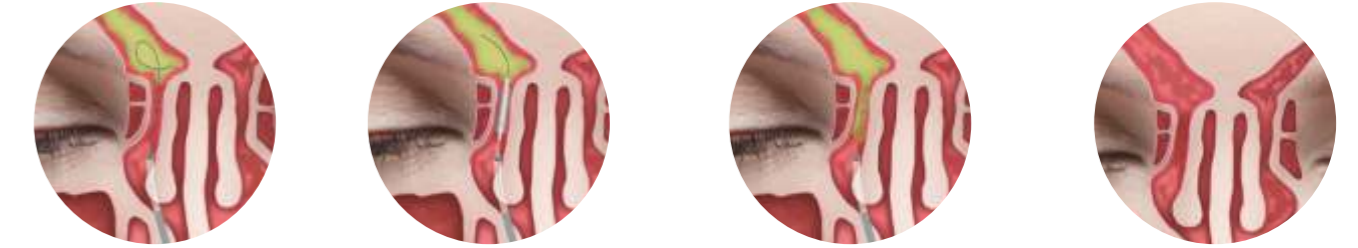
Since the disease state is minimal, it's not required to perform extensive procedure as no major abnormalities are associated with the disease.

The patient has understood the pros and cons of both the procedure and has opted for sinuplasty which has been the standard of care in many countries today.

Benefits of Balloon Sinus Dilation Procedure:

- Less invasive procedure
- Lesser blood loss
- Associated with fewer recurrences
- Post operative recovery is faster and patient can resume work quickly
- Safe and effective ostium dilation procedure for the treatment of chronic sinusitis

Balloon Sinus Dilation Procedure:



1. A balloon catheter is inserted into the blocked ostium

2. The balloon is inflated to expand the sinus opening.

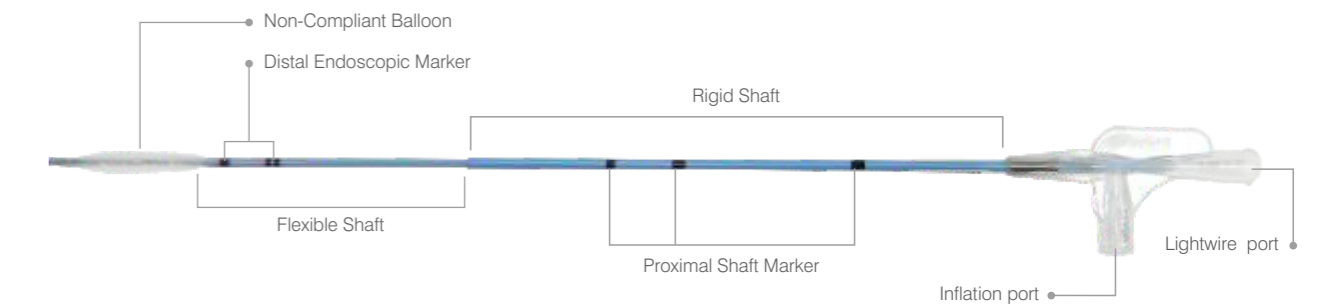
3. Saline is used to wash the infected sinus.

4. The system is removed leaving the sinuses open.

Product Overview:

MESIRE™ Balloon Catheter:

MESIRE™ Balloon catheter is non-compliant balloon catheters designed for precise control on diameter of balloon expansion. It enables accurate placement of balloon in the sinus ostia through visual indicators.



Precise balloon placement

- Endoscopic markers provide information on balloon location under direct visualization
- Enhanced shaft coloring and markers provide improved visibility under low light

Enhanced tracking and retraction

- Optimized balloon tapers
- Six-fold balloon design
- New balloon insertion stylet enabling smooth balloon insertion into the sinus guide catheter

Increased procedural efficiency

- Precise re-wrapping of balloon
- Less balloon deflation time*

MESIRE™ Guide:

Mesire™ guide catheter with a distal angle of 0°, 30°, 70°, 90°, 110° are designed for targeted navigation of the Mesire™ balloon catheter into respective ostium. Mesire™ guide is having soft atraumatic tip which prevents the tissue trauma during the insertion.

