ENT Innovations
Advancing the standard of care...one procedure at a time
Advancing the standard of care since 1993

1997
First COBLATION® patents granted

1998
ArthroCare® enters ENT market

1999
First turbinate wand introduced

2000
First tonsil wand launched

2003
COBLATOR® II Controller launched

2005
Acquired RAPID RHINO® Epistaxis Products providing differentiated epistaxis solutions for the ER

2007
First laryngeal wand launched

2009
ENTACT® Septal Closure Device Introduced as first of its kind

2012
VENTERA® Sinus Dilation System cleared by FDA

2013
Acquired ENTRIGUE™ Surgical, expanding our sinus portfolio

2014
ArthroCare acquired by Smith & Nephew.

2001

2009

Advancing the standard of care with innovative technologies

Smith & Nephew capitalizes on best-in-class platform technologies to improve its mission—advancing the standard of care. With continued investment in R&D and a focus on patient results, we’ve led innovation in ENT technologies for the ER, OR and in-office applications.

COBLATION® Technology

The term COBLATION means “controlled ablation.” Our patented bipolar COBLATION Technology creates a controlled, stable plasma field to precisely remove tissue at a low relative temperature, resulting in minimal thermal damage to surrounding soft tissues. Studies suggest that using COBLATION Technology in place of traditional electrosurgical or laser devices during oropharyngeal surgery significantly reduces the risk of igniting an airway fire. COBLATION Technology has over 15 years of clinical use and has been included in over 155 peer-reviewed publications related to ENT surgery.

Today, in ENT, we offer COBLATION-based surgical solutions for a wide variety of surgical procedures.

Proprietary nasal dressings

The RAPID RHINO® Product Line includes a wide range of dissolvable and removable postoperative nasal dressings as well as a comprehensive portfolio of epistaxis solutions. RAPID RHINO Products are characterized by a proprietary blend of CMC, or carboxymethylcellulose, a plant-derived material.

Smith & Nephew is also pioneering the use of resorbable polymeric implants and articulating metal instruments in ENT surgery. Several other innovations are in the works that will continue to advance the standard of care in the ER, OR and office environments.
Tonsils and adenoids

Our clinical use of plasma for tissue ablation and resection, COBLATION™ Technology, results in temperatures typically no higher than 40-65°C, minimizing thermal damage to surrounding tissue during tonsillectomy procedures. Meanwhile, integrated suction, ablation, and coagulation features provide all-in-one instruments which are designed to help decrease surgical time.

**EVAC™ 70 XTRA Adenotonsillectomy Wand**

- Triple-wire active electrode configuration removes tissue for both tonsillectomy and adenoidectomy
- Integrated saline and suction port allows for quick and easy operating room setup
- 6 inch, malleable shaft allows improved access to the choanae during adenoidectomy

**PROCISE™ MAX Adenotonsillectomy Wand**

- Enhanced flat electrode configuration for fast tissue ablation
- Enhanced suction and bendable shaft
- Unique saline delivery system

**COBLATION Wand features comparison**

<table>
<thead>
<tr>
<th></th>
<th>Electrode Design</th>
<th>Integrated Saline</th>
<th>Integrated Suction</th>
<th>Coagulation Ability</th>
<th>Decreased Shaft Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Triple-Wire</td>
<td>Screen</td>
<td>Single</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EVAC 70 XTRA</td>
<td>•</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td>PROCISE XP</td>
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<td>PROCISE MAX</td>
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<td>PROCISE EZ</td>
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<td></td>
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<td>EXCISE™ PDW</td>
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Nasal obstruction

Septal deviation or misalignment of the septum is a common source of nasal obstruction also associated with nosebleeds, facial pain and snoring. Often a septal deviation is accompanied by hypertrophic (enlarged) turbinates which may compound nasal obstruction. The nasal turbinates can quickly change in size and may block airflow. Allergies, colds and sinusitis can cause them to become enlarged and block nasal airflow.

Septoplasty and turbinate reduction surgeries are outpatient procedures which straighten the septum and reduce the size of the turbinates.

Turbinate reduction

COBLATION® Wands can be used to shrink hypertrophic turbinates or, with the new TURBINATOR® Wand, to resect submucosal tissues. Both options can be performed in the OR or under local anesthetic in the office.

REFLEX® ULTRA Turbinate Reduction Wand
With sleek profiles and integrated visual markers, REFLEX ULTRA Wands make turbinate reduction fast and efficient.
- Active COBLATION Electrode at the tip for easy insertion
- Bipolar radiofrequency for controlled energy delivery
- Continued postoperative contraction of tissue

TURBINATOR® Turbinate Reduction Wand
The TURBINATOR Wand features a powerful COBLATION Electrode to actively dissolve submucosal tissue.
- Integrated visual markers to assist with orientation and position
- Saline delivery and suction for high performance inside the turbinate
- Bipolar coag function built in to help control bleeding if needed

ENTACT® Septal Stapler
Suturing within the confines of the narrow and deep nasal passageway can often be a cumbersome and challenging task. The ENTACT® Septal Stapler offers a novel solution to address this challenge: resorbable implants delivered via an ergonomic, single-use stapler system that supplants the need to suture. Using the ENTACT Septal Stapler, surgeons can typically achieve flap approximation in less than a minute, minimize damage to surrounding tissues, and achieve more consistent results.¹
Sinus surgery

VENTERA® Balloon Dilation System
Balloon dilation of the paranasal sinuses has emerged as a valuable tool in the surgical treatment of chronic sinusitis. The VENTERA System features an articulating distal tip seeker that enables precise steering in situ. The same instrument and balloon can be used to dilate frontal, sphenoid and maxillary sinuses for a cost effective procedure. Further, the VENTERA System is similar to standard ENT surgical instruments and is a natural fit into the toolkit of the sinus surgeon.

SERPENT™ Articulating Instrumentation
As otolaryngologists strive for less invasive techniques, the desire for “instruments that bend” has emerged as a key unmet need. SERPENT Articulating instrumentation harness a unique technology enabling surgeons to steer and lock instruments in up to 240 degrees range of motion. With these instruments, surgeons can truly reach around corners and perform precise dissection.

PROCISE™ EZ VIEW Sinus Wand
The PROCISE EZ VIEW Wand was designed to ablate soft tissues of the sinus cavity. The Wand offers all of the benefits of COBLATION® in a small diameter device. The PROCISE EZ VIEW Wand features integrated ablation, suction, and bipolar hemostasis designed to enhance precision and visibility during sinus surgery.
Sinus dressings and implants

Smith & Nephew offers a wide range of dissolvable, resorbable and removable nasal dressings and implants designed to help stabilize the sinus openings after surgery while tissues heal. The RAPID RHINO\textsuperscript{®} Product Line features our proprietary blend of CMC (carboxymethylcellulose), a plant-derived material that provides a moist barrier for adhesion prevention that helps minimize bleeding. The line features products of various sizes and stiffness levels to meet a variety of surgeon and patient needs. The product family includes NASASTENT\textsuperscript{®} STAMMBERGER SINU-FOAM\textsuperscript{®} and SINU-KNIT\textsuperscript{™} Dissolvable Dressing, and a variety of removable sinus dressings.

NASASTENT Dissolvable Nasal Dressing
NASASTENT Dissolvable Dressing is an intranasal splint made from CMC. It is intended to minimize bleeding and edema and to prevent adhesions between the septum and the middle turbinate after surgery or trauma. Upon insertion, the NASASTENT Dissolvable Dressing begins absorbing nasal fluid. Over time, it turns into a hydrocolloidal gel that naturally drains from the nasal cavity within several days. It is capable of absorbing up to 10 times its weight.

STAMMBERGER SINU-FOAM Dissolvable Nasal Dressing
- Dissolvable foam which contours to the surrounding cavity
- Fills space and acts as a most barrier between mucosal surfaces
- Thixotropic properties help it retain shape over a period of several days

MEDIENT\textsuperscript{®} Middle Turbinate Implant
The MEDIENT Middle Turbinate Implant is designed to medialize and secure the middle turbinate to the septal wall over a period of several weeks while the mucosa heal. Made from a resorbable polymer, the implant features curved barbs that secure it first into the septum, and then hold the middle turbinate to the implant itself. Specialized graspers are provided to place the implant.
Laryngeal applications

COBLATION® PROCISE® Wands
The PROCISE Laryngeal Wand portfolio provides the ability to efficiently debulk large or small polyps and lesions with pinpoint accuracy while preserving delicate laryngeal anatomy and offering a reduced risk of airway fire compared to traditional electrosurgical or laser devices.²

Epistaxis solutions

RAPID RHINO® Epistaxis Products
Offering a range of sizes, the RAPID RHINO Epistaxis Portfolio features inflatable, ultra low profile and self-lubricating hydrocolloid fabric devices that can provide unsurpassed ease of insertion and removal.
• Quickly conforms to nasal anatomy
• Provides gentle and even compression to areas of epistaxis
• Designed to prevent adherence to tissue or blood clots upon removal
Revolution through innovation
The latest sinus solutions—powered by Smith & Nephew
References
