

 A technology from **smith&nephew**

Exclusively COBLATION[®] Technology
The single use advantage





Quality products for consistent performance you can trust

Exclusively COBLATION® Technology. The term COBLATION means “controlled ablation.” Our patented bipolar COBLATION Plasma 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. The formation of plasma, and the wand’s ability to properly coblate and coagulate tissue is highly dependent on a number of important design features. These include the size and shape of the active electrode, as well as the patency of the suction lumen.

To better illustrate the performance of new vs. used wands, Smith & Nephew conducted extensive in vitro testing. This comparison demonstrates the advantages of using a new wand for each procedure.



Think single use for surgical efficiency

Electrode

The formation of plasma is highly dependent on the configuration and structure of the electrodes. As COBLATION® Wands are used, the plasma oxidizes and degrades the electrodes in a controlled fashion. When used beyond their normal single-patient clinical use, the electrode wear pattern will accelerate, thus degrading electrodes beyond their intended limits. This can lead to unpredictable wand performance when used in both coblate and coag modes.

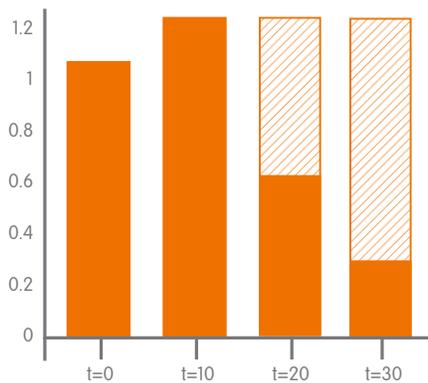


Fig 1: Ablation tissue removal depth¹

Ablation

Figure 1 shows the effect of usage time on the ablation effectiveness of the wand. On average, tissue ablation capability is over 200% greater with a new wand compared to a used (t=30) device allowing for greater efficiencies in the OR.

■ Tissue ablation removal depth
 ▨ Decrease in depth of ablation from t=0

Coag

The Coag function is an important part of the tonsillectomy procedure. Coag can be used during the removal of the tonsil to stop any immediate bleeding at the surgical site and after the tonsil is removed to address any remaining bleeders. Coag effect can be measured by both width and depth of penetration. Figure 2 illustrates that the width of Coag tissue penetration is improved by over 3 mm or 167% by using a new vs. used wand (t=30). And Figure 3 shows that the depth of the Coag effect is improved by over 175%.

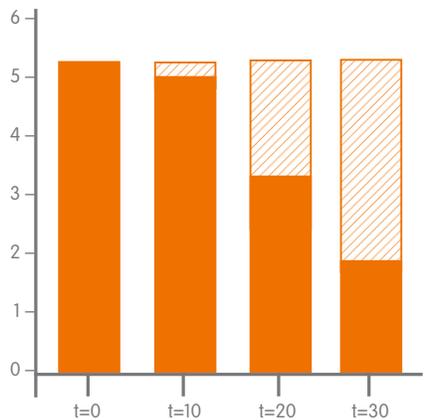


Fig 2: Lesion coag width¹

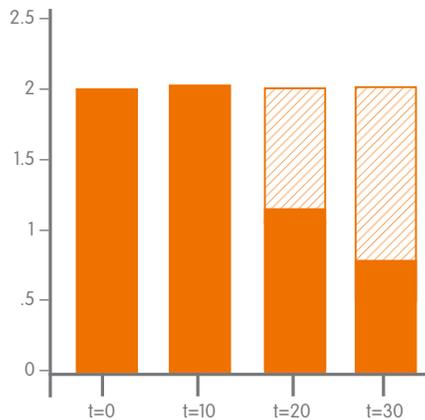
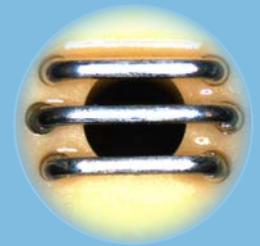


Fig 3: Lesion coag depth¹

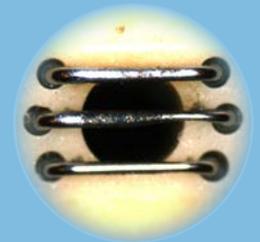
■ Thermal width
 ▨ Decrease in thermal width from t=0

■ Thermal depth
 ▨ Decrease in depth of ablation from t=0

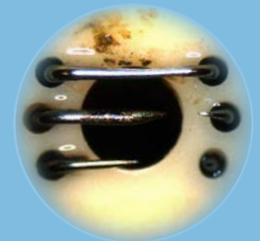
Electrode wear pattern and degradation



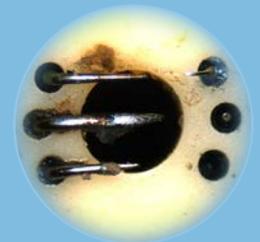
t=0



t=10



t=20



t=30

The best option for your technique

Offering a variety of COBLATION® Wands for use in ENT surgery, each with its own unique design elements.

	EVAC® 70 XTRA Wand	<ul style="list-style-type: none">• Triple-wire active electrode removes tissue for both tonsillectomy and adenoidectomy• Integrated saline and suction port allows for quick and easy operating room setup• Long, malleable shaft allows improved access to the choanae during adenoidectomy
	PROCISE® XP Wand	<ul style="list-style-type: none">• Unique saline delivery system for consistent flow regardless of wand orientation• Reduced tip diameter for improved visualization of surgical field• Triple-wire active electrode removes tissue for both tonsillectomy and adenoidectomy
	PROCISE MAX Wand	<ul style="list-style-type: none">• Enhanced flat electrode configuration for fast tissue ablation• Enhanced suction and bendable shaft• Unique saline delivery system for consistent flow regardless of wand orientation

References

- 1 Report P/N 67584

Supporting healthcare professionals for over 150 years

Smith & Nephew is a diverse medical technology company that has supported healthcare professionals since 1856. We are the company you trust and rely on to help you help your patients.

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