APrevent[®] VOIS

Vocal Implant System



Adjustable implant system for glottic insufficiency

- Long-term , intra and post-operative adjustable implant
- Complete closure of anterior and posterior glottis gap
- Minimal invasive and optimal outcome for each patient





http://www.apreventmed.com/



The APrevent® Vocal Implant System (VOIS) is designed for treatment of unilateral vocal fold paralysis (UVFP). It is used in type I thyroplasty procedures to improve the phonation in patients with UVFP, which is designed to achieve a complete closure of the glottic gap or complete medialization of the paralyzed vocal fold in its full length.

The APrevent® VOIS is a long-term implants are available in four different dimensions (XS, S, M and L), as well as a wide range of different and application-specific accessories and instruments.

The APrevent[®] VOIS consists of three components, the titanium housing with integrated port-chamber and port-membrane, fixation plate with screw, and the in- and deflatable silicone cushion.



	Features	of APreve	nt [®] VOIS
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-Non-allergic material	Implant is made by medical grade titanium, silicone and PET suture
-Delicate design	All functional components are integrated in one implant
-Individualized	Surgeon determines the fill volume of cushion to fit each patient
-Adjustability	Cushion can be adjusted intra and post-operatively
-Best result	Fully closure of anterior and posterior glottis gap
-Minimal invasive	The operation is the same as existed; adjustment requires no surgery



In order to facilitate the implantation a comprehensive instrument set is available which mainly helps in defining the correct orientation, position and size of the thyroplasty window.



The APrevent® VOIS Instrument Set contains 15 instruments, all accessories and instruments can only be used during a type I thyroplasty procedure in adjunction with the insertion of the VOIS-Implants. These are specifically designed for the precise creation of the thyroplasty window on the thyroid lamina, fitting and securing of the implant in the thyroplasty window.

Features of APrevent [®] VOIS instruments			
-Non-allergic material	Instruments are made by medical grade stainless and peek		
-Measurement	Precisely measure the larynx size, define implant and window size		
-Window localization	Clearly identify cartilage edge and window place		
-Sounding probe	Check window position and implant size before window cutting		
-Window size checking	Specific instruments to confirm the accurate size of the window		





* Please read the IFU to understand all processes before using this product.

Allocation of key points, use specific VOIS instrument set

- Find "M1", midpoint of anterior thyroid cartilage border
- Find inferior tubercle, define "A", "B" and inferior border line "I"
- Find "M2", posterior thyroid cartilage border, then define superior line "S" passing through "M", parallel to "I"
- Use APT104 instrument to find the height of window "H"
- Evaluate overall length "S", use APT105/106 to decide distance "D"
- Cross "D" and "H", find the location of window



Window outline and drilling

- An 11x6mm rectangular thyroplasty window is outlined using the APT107 "Window Outline Template" under low-energy electrocautery current for marking.
- A 4mm hole is then drilled at the center of the rectangle until the inner perichondrium is visible.



Window checking with vocal process sounding probe

- APT109/110/111/112 "vocal process sounding probe" has XS/S/M/L 4 sizes
- It's applied to confirm window position and implant size under scope examination.
- After checking, drill a marked 11x6mm rectangular window.



Window trimming

- APT113 "window size checking gauge" is applied to confirm the accurate size of the window.
- After careful mobilization of the endolaryngeal tissue, an "implant checking gauge" is used to test the fitting of the implant titanium housing into the window.



VOIS implantation

- Before implantation, check if the balloon is functional.
- The implant is inserted. The fixation-plate is then slid along the suture-loop down to the posterior part of the thyroplasty window.
- Fixation plate is screwed clockwise to firmly secure the implant on the thyroid lamina. After screwing, the sliding suture is knotted and cut.



APrevent® VOIS

Product Code	Product Description	Technical Detail
APT001	VOIS-XS For type I thyroplasty, 1 x Implant	1 box, delivered sterile Size: XSmall Maximal filling volume: 0.17ml Heights of housing anterior flange: 2.5mm Dimensions of balloon: 7 x 9mm
APT002	VOIS-S For type I thyroplasty 1 x Implant	1 box, delivered sterile Size: Small Maximal filling volume: 0.25ml Height of housing anterior flange: 2.5mm Dimensions of balloon: 8 x 11mm
АРТ003	VOIS-M For type I thyroplasty 1 x Implant	1 box, delivered sterile Size: Medium Maximal filling volume: 0.30ml Height of housing anterior flange: 3mm Dimensions of balloon: 8 x 15mm
АРТ004	VOIS-L For type I thyroplasty 1 x Implant	1 box, delivered sterile Size: Large Maximal filling volume: 0.30ml Height of housing anterior flange: 3mm Dimensions of balloon: 8 x 18mm
APT100	 VOIS Instrument Set VOIS instrument set only to be used in Type I thyroplasty surgical procedures for facilitating location and design of the thyroplasty window for installing the VOIS-implants. 1 x Instrument tray 15 x Instrument tray 15 x Instruments APT101- Blunt Elevator APT102- Sharp Elevator APT103- Thyroid Cartilage Ruler (metric) APT104- Rectangular Upper Window Edge Caliper APT105- Linear Anterior Window Edge Caliper M, L APT107- Window Outline Template APT108- Cartilage Marker APT109- Vocal Process Sounding Probe XS APT111- Vocal Process Sounding Probe M APT12- Vocal Process Sounding Probe L APT13- Window Size Checking Gauge APT14- Implant Checking Gauge APT15- Screw Driver 	1 set/tray Reusable Delivered non-sterile, autoclavable The instruments also can be ordered individually.

