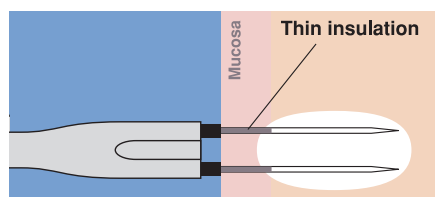
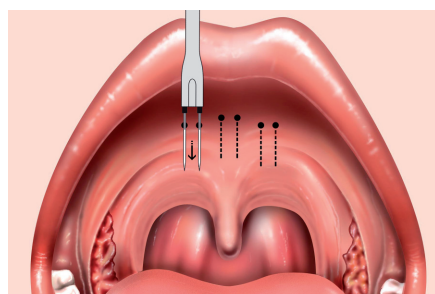


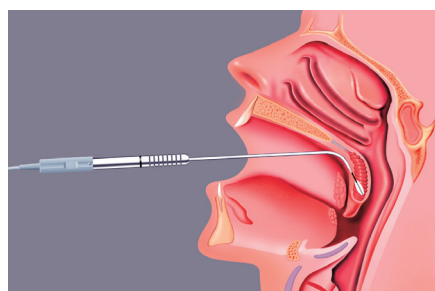
# Procedure Guidelines for Radiofrequency RaVoR™ Surgery of the **Soft Palate**



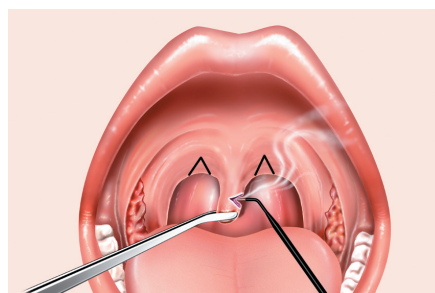
**Fig. 1: Correctly placed RaVoR™ electrode.**  
Complete insertion of the thin insulation protects the mucosa from surface lesions.



**Fig. 2: Puncture sites for the application of radiofrequency energy in the soft palate with electrode REF: 70 04 95.**



**Fig. 3: Illustration showing the correct position of the electrode in the middle of the soft-palate tissue.**



**Fig. 4: Dissection of surplus uvula tissue and incision lines for the triangular excision of the posterior palatal pillars.**

## Indications/Contraindications

Palatal snoring in connection with primary snoring or mild obstructive sleep apnea, which otherwise requires no separate treatment.

## Patient preparation

The intervention is performed under local anesthesia on an out-patient basis. Preoperatively apply a surface anesthetic (e.g. lidocaine spray) and inject a local anesthetic together with a vasoconstrictor (e.g. lidocaine 2% plus adrenaline 1:200 000) just behind the line between the stiff and the soft palate and at the base of the uvula (about 5-8 ml).

Verify that the insulation of the monopolar and bipolar electrodes is intact prior to use. Do not use defective or damaged instruments to avoid the risk of burns.

## Intervention

Insert the application probe (REF: 70 04 95) (Fig. 5) just behind the line between the stiff and the soft palate. Insert the electrode completely with its thin insulation layer (Fig 1). Administer the first puncture median and, depending on the anatomy, 1 or 2 applications laterally to the right and left (Fig. 2).

Insert the needle into the middle of the soft palate tissue to avoid lesions of the oral and pharyngeal surfaces of the palate (Fig. 3). Move the electrode in a curved path downwards.

A visual control of proper placement is recommended, at least in the initial phase. Use a mirror or nasopharyngoscope for inspection of the back side of the palate. Activate RF energy only after the electrode has been properly placed. Visible changes in the mucosa are not likely. Stop applying energy if you observe a slight, white discolouring of the mucosa. In the case of a second session, choose neighboring puncture sites and do not insert the probe in the same place.

If the uvula and the posterior palatal pillars have excess mucosa tissue (webbing), dissect the surplus mucosa with a cutting electrode (ARROWtip™ needle electrode REF: 36 03 42). Be careful to avoid lesions of the uvular muscles and the palatal pillars when cutting away excess mucosa tissue, and making a triangular excision to remove surplus tissue of the posterior palatal pillar (Fig. 4).



**Fig. 5: Bipolar electrode (REF: 70 04 95). Marking: a dot on the handpiece.**



**Fig. 6: Micro-dissection electrode ARROWtip™ (REF: 36 03 42)**

## Post-operative treatment

Specific post-operative treatment is not required. If necessary, prescribe analgetics. Pain may be more pronounced if it was necessary to dissect excess mucosa. Inform your patients that the therapeutic effect will occur with a delay. In the days following surgery, snoring symptoms may temporarily be more pronounced due to post-operative tissue-swelling.

**Disclaimer:** These procedure guidelines have been carefully researched and compiled with the help of specialist physicians. They are not meant to serve as a detailed treatment guide. They do not replace the user instructions for the medical devices used. Sutter accepts no liability for the treatment results beyond legal regulations.

## Unit settings

### CURIS®

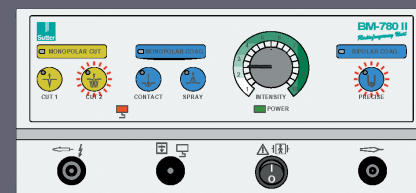
Bipolar electrodes: RaVoR™, AUTO STOP  
Power adjustment: 10 watts  
ARROWtip™: Monopolar CUT 2  
Power adjustment: 12 watts



**Other accessories:** bipolar cable (REF: 37 01 54 L), monopolar handpiece (REF: 36 07 01), cable (REF: 36 02 36) and disposable patient plates (REF: 36 02 22) optional rubber patient plate (REF: 36 02 26)

### BM-780 II

Bipolar electrode: Bipolar Precise  
Power adjustment: 2, 9 sec.  
ARROWtip™: Monopolar CUT 2  
Power adjustment: 2.5



**Other accessories:** bipolar cable (REF: 37 01 38 L), monopolar handpiece (REF: 36 02 18), cable (REF: 36 02 36) and disposable patient plates (REF: 36 02 22) optional rubber patient plate (REF: 36 02 26)