Procedure Guidelines for **Transoral Removal of Glottic Laryngeal Tumors Using Microelectrodes**



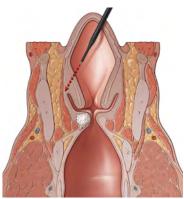


Fig. 1: Resection of the aryepiglottic fold (REF: 36 44 71)

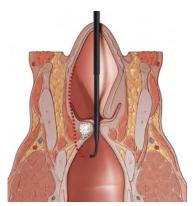


Fig. 2: Incision at the subglottic edge and vocal fold resection (REF: 36 44 73)

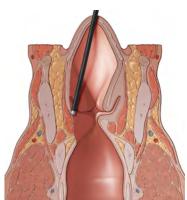


Fig. 3: Coagulation with a non-stick suction tube (REF: 71 50 17)

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.

Indications and contraindications

The indications and contraindications for resections of laryngeal tumors using ARROWtip™ monopolar microdissection electrodes correspond to those for the surgical removal of benign and malignant glottic tumors. However, it is a prerequisite that the patient can be properly prepared for resection of the tumor with the microlaryngoscope or distending laryngoscope.

Patient preparation

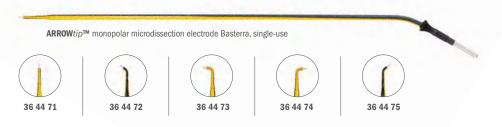
General anesthesia is used. A local anesthetic (e.g. Ultracaine 1% Suprarenine) may be injected with a vascoconstrictor, depending on the surgeon's preferences. Since monopolar electrodes are used, a neutral electrode is attached to the patient (e.g. upper arm).

Intervention

The surgical procedure begins with an operating laryngoscope (e.g. Kleinsasser micro-laryngoscope). The hand instruments still required are micro-forceps and a non-stick suction tube (REF 71 50 17) for hemostasis, which are also used in conventional laryngeal microsurgery.

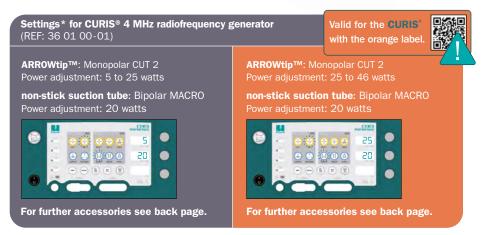
Smaller tumor lesions are normally removed with the help of an excision biopsy if they are only developed superficially. Injecting some local anesthetic into the superficial vocal fold at the outset is certainly helpful here. If the tumor now separates, a superficial process rather than a deeply infiltrating carcinoma can be assumed. First the incision line with a safety distance to the tumor is established. Now it can be resected using a straight ARROWtip™ (REF 36 44 71) or angled ARROWtip™ monopolar microdissection electrode (REF 36 44 75).

First performing a resection of the aryepiglottic fold may be sensible depending on the findings (Fig. 1). However, this should be carefully considered since the possibility of post-operative voice rehabilitation is at the vestibular fold level when the vocal fold is missing. Should resection of the vestibular fold be required, it should be carried out with a straight ARROWtipTM monopolar microdissection electrode. Resection of the vocal fold (Fig. 2) can be performed in the next step. The resection can now be performed with a 90° angled ARROWtipTM (REF 36 44 73) monopolar microdissection electrode. It is applied at the subglottic edge of the vocal fold. Next the incision is made from caudal to cranial in the anterior area (near the anterior commissure) and in the posterior area of the vocal fold (near the arytenoid cartilage) to establish the anterior and posterior limits of the resection. Now the resection of the vocal fold and tumor can again be performed using the straight ARROWtipTM monopolar microdissection electrode. The resection of the vocal fold is performed from anterior to posterior along the lateral limit of the tumor. A temporary precautionary tracheotomy and feeding by stomach tube may be required. This has to be decided on a case-by-case basis.



Postoperative treatment

The patient is discharged 1 to 5 days postoperatively depending on the extent of resection (may deviate depending on findings). A temporary precautionary tracheotomy should be performed for larger resections. Partial or complete voice rest in the first few days is recommended. Logopedic exercises may already be indicated at this stage as well. Antitussives may be used to suppress a nervous cough and corticosteroids if there is a risk of edema. Postoperative treatment is similar to that of patients who undergo the CO² laser procedure.



* Please consider that this information is not meant to serve as a detailed treatment guide. Always start with the lowest settings and adjust them accordingly.

Recommended products for this treatment

ARROW*tip*™ monopolar microdissection electrode Basterra

Qty.	REF	Description
2	36 44 71	ARROW <i>tip</i> [™] monopolar microdissection electrode Basterra, single-use working length: 212.0 mm, total length: 232.0, straight tips
2	36 44 72	ARROWtip™ monopolar microdissection electrode Basterra, single-use working length: 210.0 mm, total length: 229.0, 45° angled downwards, Ø 2.4 mm
2	36 44 73	ARROWtip™ monopolar microdissection electrode Basterra, single-use working length: 207.0 mm, total length: 227.0, 90° angled downwards, Ø 2.4 mm
2	36 44 74	ARROWtip™ monopolar microdissection electrode Basterra, single-use working length: 207.0 mm, total length: 230.0, 90° angled upwards, Ø 2.4 mm
2	36 44 75	ARROWtip™ monopolar microdissection electrode Basterra, single-use working length: 210.0 mm, total length: 233.0, 45° angled upwards, Ø 2.4 mm



non-stick suction tube

A. REF Description
71 50 17 non-stick suction tube

working length: 25.5 cm, Ø 3.3 mm

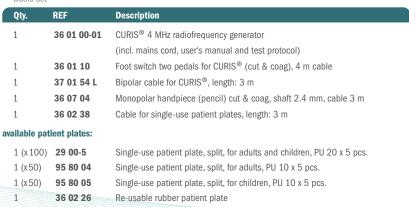






CURIS® 4 MHz radiofrequency generator

Basic set





Product availability is subject to regulatory approval in individual markets. Products may therefore not be available in all markets. Lengths for orientation purposes; may vary slightly.



134° C

autoklavierbar