

ENT, Plastic and Aesthetic Surgery

Solutions with the CURIS® 4 MHz Radiofrequency Generator





PRECISION ELECTROSURGERY Made in Germany _____



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CURIS[®] 4 MHz Radiofrequency Generator One unit – many applications



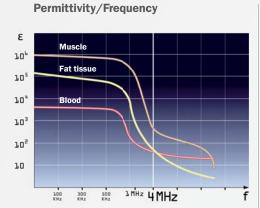
The CURIS[®] 4 MHz radiofrequency generator relies on innovative 4 MHz technology: It is gentle to the tissue and effective for coagulation, for submucosal shrinkage, and for cutting. Scientific studies have shown that tissue trauma may be reduced by using CURIS[®] 4 MHz radiofrequency technology.¹

CURIS® 4 MHz Radiofrequency Technology

The higher the frequency, the less the resistance of biological tissue to electromagnetic fields – up to the point where cell membranes are capacitively coupled. This effect is created by the CURIS[®] 4 MHz radiofrequency generator in all monopolar and bipolar modes. When using conventional electrosurgical units the electromagnetic field concentrates between the cells and only heats up the outer layer. However, with the CURIS[®] 4 MHz radiofrequency generator cell membranes are conductive, and energy is absorbed evenly inside the cells.² As a result, energy is administered gently and in a highly focused fashion. Precise monopolar cuts are possible while lateral heat damage is kept to a minimum.³

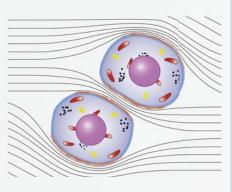
- ¹ Muehlfay G et al. A study on the type of lesions achieved by three electrosurgical methods and their way of healing. Romanian Journal of Morphology & Embryology. 2015; 56(4): 1383-1388
- ² Holder DS. Electrical Impedance Tomography-Methods, History and Applications. IOP Publishing Ltd. 2005

³ Hoffmann TK et al. Comparative analysis of resection tools suited for transoral robot-assisted surgery. European Archives Oto-Rhino-Laryngology. 2014; 271 (5) : 1207-1213



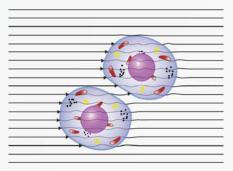
This diagram shows the permittivity of tissue, which depends on the frequency of the electromagnetic field.

Conventional electrosurgical units



The electromagentic field concentrates between the cells and heats up only the outer layer.

CURIS[®] 4 MHz Radiofrequency Generator



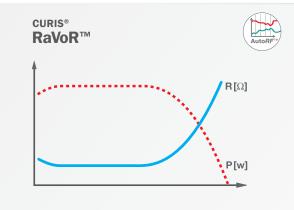
Cell membranes are conductive and the energy is absorbed evenly inside the cells. The result are highly focused tissue effects.

Precision thanks to AutoRF™



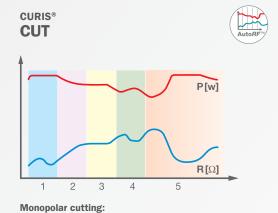
Auto*RF*[™] is a smart impedance control function that will tailor the power output of the CURIS[®] 4 MHz radiofrequency generator to the tissue condition. Whether it is cutting through different types of tissue (such as mucosa, muscle, fat or connective tissue) or altering tissue conditions during coagulation, the Auto*RF*[™] feature will deliver adapted power output as required by the different tissue impedance.

When dissecting different types of tissue in one cut (skin, fat, muscles), the unit has to process and respond to the Auto*RF*TM data in a flash. For this reason, the CURIS[®] 4 MHz radiofrequency generator has two microprocessors for additional safety and speed.



RaVoR[™] mode with AUTO STOP:

The precise delivery of energy and smart power adjustment aid in creating consistent and repeatable lesions. As soon as the right size of a lesion has been achieved, the generator will automatically stop the activation.



Sections 1 to 5 show the different kinds of tissues and cutting speeds to which the unit adjusts its power output automatically. "R" signifies electric tissue resistance and "p" the actual power output.

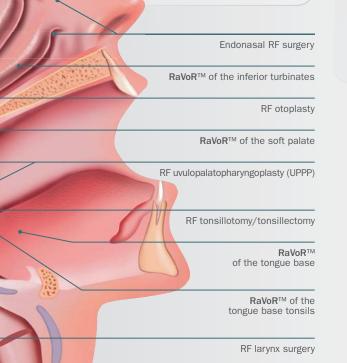


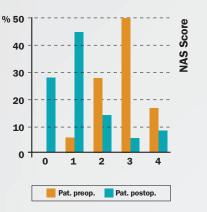
p^{3™}-Technology

p^{3TM}, which stands for pulsed power performance, is active in all coagulation modes of the CURIS® 4 MHz radiofrequency generator. Radiofrequency energy is delivered in about 50 small packages per second. Due to the pulsed power output, there are short breaks between the individual packages, giving the tissue enough time to absorb the energy. Highly focused, yet gentle coagulation with minimal thermal damage is possible.



The CURIS® 4 MHz radiofrequency generator offers clinicians and private practitioners coverage of an outstanding breadth of ENT indications. As you will find outlined in the following pages, the CURIS® offers ease of use and performance for the different fields of ENT surgery. The performance and clinical outcomes when using the CURIS® have been widely evaluated and published in numerous case reports and peer-reviewed scientific journal articles. So that you and your patients can be assured that the CURIS® 4 MHz radiofrequency technology is tested and trusted.⁴





Snoring intensity pre- and postoperatively after treatment of nasal turbinates and soft palate

Marinescu, A. Innovative Bipolar Radiofrequency Volumetric Reduction with "ORL-Set" for Treatment of Habitual Snorers. Laryngo-Rhino-Otol, 2014, 83 (9): 610–616

RaVoR™ Radiofrequency Volume Reduction

Bipolar radiofrequency volumetric tissue reduction, using Sutter technology, appears to have promising results for patients with snoring and mild OSA. One treatment session resulted in significant reduction in snoring intensity, improvement in sleep quality and QOL, and reduction in daytime sleepiness.

Pang et al. Sutter bipolar radiofrequency volume reduction of palate for snoring and mild obstructive sleep apnea. The Journal of Laryngology & Otology. 2009; 123: 750-754

RaVoR™ Radiofrequency Volume Reduction

RaVoR[™] of the inferior turbinates, soft palate, tongue base, etc. is an interstitial application for submucosal tissue shrinkage. Precise delivery of energy and smart power adjustment depending on actual tissue impedance aid in creating consistent and repeatable lesions. As soon as the right size of a lesion has been achieved, the CURIS[®] 4 MHz radiofrequency generator will automatically stop the activation (AUTO STOP mode), and give an acoustic signal. The treated tissue is decomposed by the body's own immune system and transformed into fibrous scar tissue. This process leads to a shrinkage and stiffening of the treated area.

Sutter has developed different bipolar electrodes for the treatment of sleep-related breathing disorders based on the anatomical sites of obstruction.

Audio Feedback

If desired, an acoustic feedback function (AUDIO FEEDBACK) can be activated. While a lesion is created in RaVoR[™] mode, the change in tissue condition is signaled by a changing pitch: The further the lesion progresses, the higher the activation sound. This mode may also be used to potentially increase the patient's comfort. The patient will be able to listen and follow what happens inside the tissue.

⁴ Brumann M et al. Comparison of Functional Expansion Pharyngoplasty with Radiofrequency Volume Reduction of the Soft Palate in Surgery for Sleep-related Breathing Disorders. Journal of Sleep Medicine & Disorders. 2017; 4(1):1073

Basterra J et al. Eighty-three cases of glottic and supraglottic carcinomas (stage T1-T2-T3) treated with transoral microelectrode surgery: how we do it. Clinical Otolaryngology. 2011 Oct; 36(5):500-4 Additional references available upon request.

RaVoR™ bipolar electrodes single-use

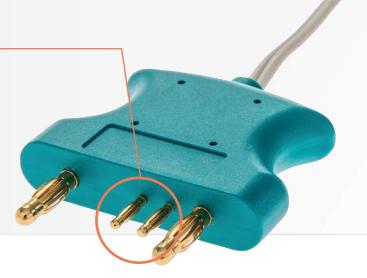


"The RaVoR[™] bipolar electrodes single-use for the reduction of the inferior turbinates are a convenient solution for my private practice. My staff and I enjoy the ease of use due to the new plug and operate feature."

S. Grupp, MD Freiburg (Germany)

Plug and operate

- · Convenient handling for surgeon and staff
- Perfect match with the CURIS[®] 4 MHz radiofrequency generator
- Auto recognition of the instrument and instant selection of the RaVoR[™] program
- CURIS[®]-Precision thanks to AutoRF™











1:1

"RaVoR™ is a modern surgical technique showing good and long-lasting treatment results when used to reduce the volume of hypertrophic turbinates. At the same time it preserves the mucosa and its function."

R. Romeo, MD Rome (Italy)



Inferior turbinate – preoperative condition and six months postoperatively with significantly enlarged nasal passage.

Other products for the treatment in the nose



Thin insulation



Schematic view of the puncture sites for the application of radiofrequency energy of the hypertrophic turbinates.



71 50 15 non-stick monopolar suction tube Ø 3.3 mm, lumen 2.0 mm, working length: 13 cm

71 50 19

non-stick monopolar suction tube, malleable, Ø 4.3 mm, lumen 3.0 mm, working length: 13 cm

36 08 17 Monopolar ball electrode Ø 3 mm, total length: 60 mm

36 04 62 Monopolar ball electrode Ø 4 mm, total length: 142 mm 78 21 81 SG SuperGliss® non-stick bipolar forceps bayonet, tips: 1.0 mm, total length: 20.0 cm working length: 8.5 cm



70 44 95 RaVoR™ bipolar electrode for the soft palate, single-use working length: 110 mm

1:1

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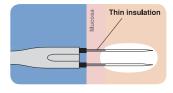
70 04 95 RaVoR™ bipolar electrode for the soft palate working length: 110 mm



Puncture sites for the application of radiofrequency energy in the soft palate.



Dissection of surplus uvula tissue and incision lines for the triangular excision of the posterior palatal pillars (with ARROW*tip*™ monopolar microdissection electrode, REF: 36 03 42).





"The radiofrequency assisted soft palate procedure is a minimally invasive, safe and quick procedure. It is well tolerated by patients. We have not observed any bleeding that needed special attention."

D. Brehmer, MD Göttingen (Germany)

Ideal product combination for RF surgery of the soft palate

36 03 42

ARROW*tip*[™] monopolar microdissection electrode Ø 0.3 mm, 45° angled, total length: 107 mm

78 01 75 SG SuperGliss® non-stick bipolar forceps straight, tips: 1.0 mm, 30° angled total length: 20.0 cm, working length: 6.0 cm "In my clinical practice I successfully make use of the tongue base radiofrequency procedure. My experience shows that when using this minimally invasive method together with other surgical techniques, the outcome of sleep-related breathing disorder surgery can be improved. The treatment is useful and should be considered in the treatment of patients with tongue

1:1

70 04 99 RaVoR™ bipolar electrode for the tongue base working length: 97 mm

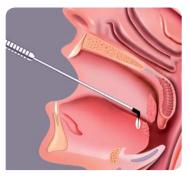
60

M. A. Sarte, MD Manila (Philippines)

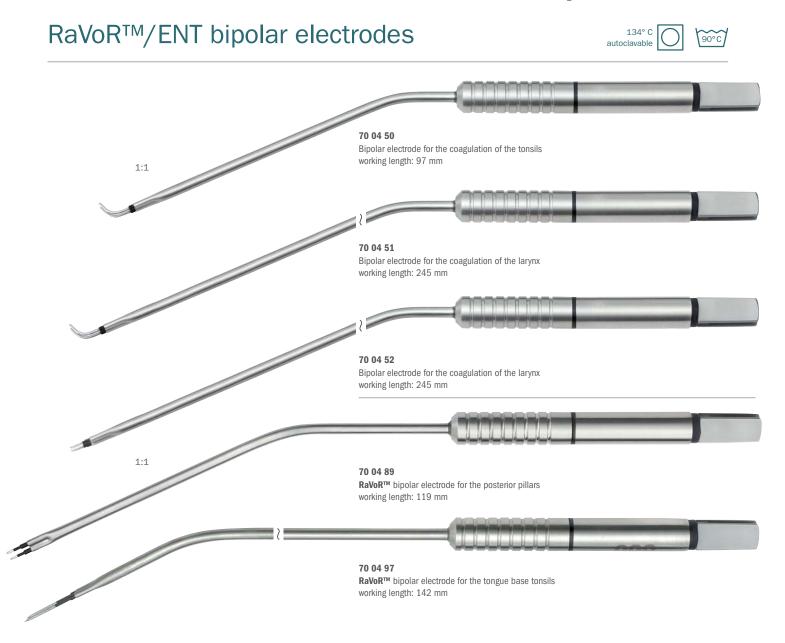
base collapse."

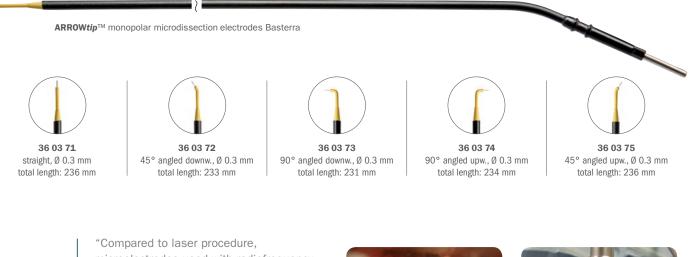


Puncture sites for the treatment of the tongue base. Insert the RaVoRTM bipolar electrode with the thin insulation layer.



The low profile of the instrument and its strong shaft enable the surgeon to insert the bipolar electrode at the back of the tongue.







J. Basterra, MD Valencia (Spain)

microdissection electrodes."

compared to laser procedure, microelectrodes used with radiofrequency enhance the surgical technique by giving tactile feedback and other advantages. No special safety precautions are necessary and scarring is similar in both procedures. Made of super-hard tungsten and especially designed to reach every part of the laryngeal anatomy, micro-tips in different angles allow good access to the surgical field. We have operated on 92 tumors, mainly T1 glottic tumors, using the ARROW*tip*™ monopolar



Cordectomy type V. Arrow indicates internal surface of thyroid cartilage



Endoscopic view of the operating field



"Tonsillotomy with radiofrequency is a safe and easy-to-learn procedure. Children with symptomatic tonsillar hyperplasia profit from it enormously. Compared to all other procedures for removing parts of or even all tonsillar tissue we prefer radiofrequency tonsillotomy for children with symptomatic tonsillar hyperplasia without chronic tonsillitis."



R. Hirt, MD Dessau (Germany)



The protruding part of the tonsil is cut along the incision line and parallel to the palatal pillar.



Surgical site during radiofrequency tonsillotomy

Radiofrequency Tonsillectomy



"The To-BiTE™ non-stick bipolar clamp combining four functions in one instrument is a safe and effective tool for performing tonsillectomies. Vis-à-vis the traditional approach, it seems to make tonsillectomies faster and easier."

P. Tolsdorff, MD Bad Honnef (Germany)



Dissection of the tonsillar tissue



Wound immediately after tonsillectomy

Radiofrequency in Endoscopic Ear Surgery



Endoscopic ear surgery is rapidly gaining interest. With one hand holding a camera, bleeding control and hemostasis can be a challenge. With the use of the Sutter ARROW*tip*[™] monopolar microdissection electrodes bleeding can be significantly reduced from the outset, optimizing visibility and reducing operation time.

S. Geukens, MD Aalst (Belgium)



Intraoperative picture showing outer ear canal with an ARROW*tip*™ monopolar microdissection electrode



Application of radiofrequency ablation at carefully selected points







71 50 19

ARROWtip™ monopolar microdissection electrode, 45° angled, total length: 107 mm

FIFIFIF Merente

36 03 65

36 03 42

Monopolar electrode for RF tonsillotomy, 45° angled, total length: 112 mm

90°C

134° C

autoclavable

non-stick monopolar suction tube, malleable Ø 4.3 mm, lumen 3.0 mm, working length: 13.0 cm

70 09 60 SG



Other products for tonsillectomy

To-BiTE™ non-stick bipolar clamp 37 01 54R Bipolar CURIS® cable for To-BiTE[™] non-stick/Calvian[™] (not shown)

I setter Burran

78 01 75 SG SuperGliss® non-stick bipolar forceps straight, tips: 1.0 mm, 30° angled total length: 20.0 cm, working length: 6.0 cm

78 01 75 SG

SuperGliss® non-stick bipolar forceps

total length: 20.0 cm, working length: 6.0 cm

straight, tips: 1.0 mm, 30° angled,

To-BiTE[™] non-stick bipolar clamp

78 01 76 SG SuperGliss® non-stick bipolar forceps tips: 2.0 mm, 30° angled total length: 20.0 cm, working length: 6.0 cm

36 04 40 Monopolar blade electrode total length: 68 mm

ARROWtip[™] monopolar microdissection electrode

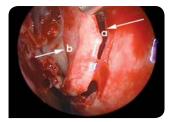
36 03 43 ARROWtip™ monopolar microdissection electrode 55° angled, total length: 105 mm



tips: 0.7 mm, 15° angled total length: 23.0 cm, working length: 10.0 cm

Radiofrequency in Sinus Surgery





The uncinate process incised and lifted anteriorly. Arrow (a) indicates the incised anterior edge, arrow (b) indicates posterior margin.



Incision starting at the cranial attachment of right uncinate process utilizing ARROW tip™ monopolar microdissection electrode (REF: 36 03 42)



"Endoscopic endonasal sinus surgery demands subtle hemostasis and the precise cutting performance of the instruments employed. The disadvantages of "cold steel" can be levelled out favorably by the

The posterior part of the uncinate process can be incised by means of the angled tip. No deterioration of the inferior turbinate.



Nearly bloodless incision at the anterior edge of the uncinate process.

Radiofrequency treatment of Epistaxis





"Blood vessels on the surface of the nasal mucosa are often the cause for recurrent nasal bleeding. Radiofrequency coagulation (RF coagulation) is a new method for the treatment of such vessels with the advantage of causing less thermal damage to the surrounding mucosa. Recurrent epistaxis predominantely occurs in Osler's disease. Despite a broad armamentarium of treatment methods, successful therapy in this patient group is difficult to achieve. RF coagulation is an inexpensive alternative to laser treatment, and preliminary results are promising."

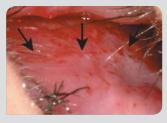
J. Folz, MD; C.-G. Konnerth, MD, Lippspringe (Germany)



Patient with Rendu-Osler-Weber syndrome, preoperative findings



Intraoperative view during radiofrequency treatment of nasal hereditary hemorrhagic telangiectasia



Result of radiofrequency treatment six months postoperatively

Radiofrequency in Oral and Oropharyngeal Tumor Surgery



"Radiofrequency excision of lesions in the oral cavities (tongue, tongue base, buccal mucosa, lips or base of the mouth) such as benign and malign tumors as well as precancerous lesions is a gentle and very easy treatment which can be done under local anesthesia."

S. Arndt, MD; E. Heinert, MD, Freiburg (Germany)



Sublingual papilloma on the right side

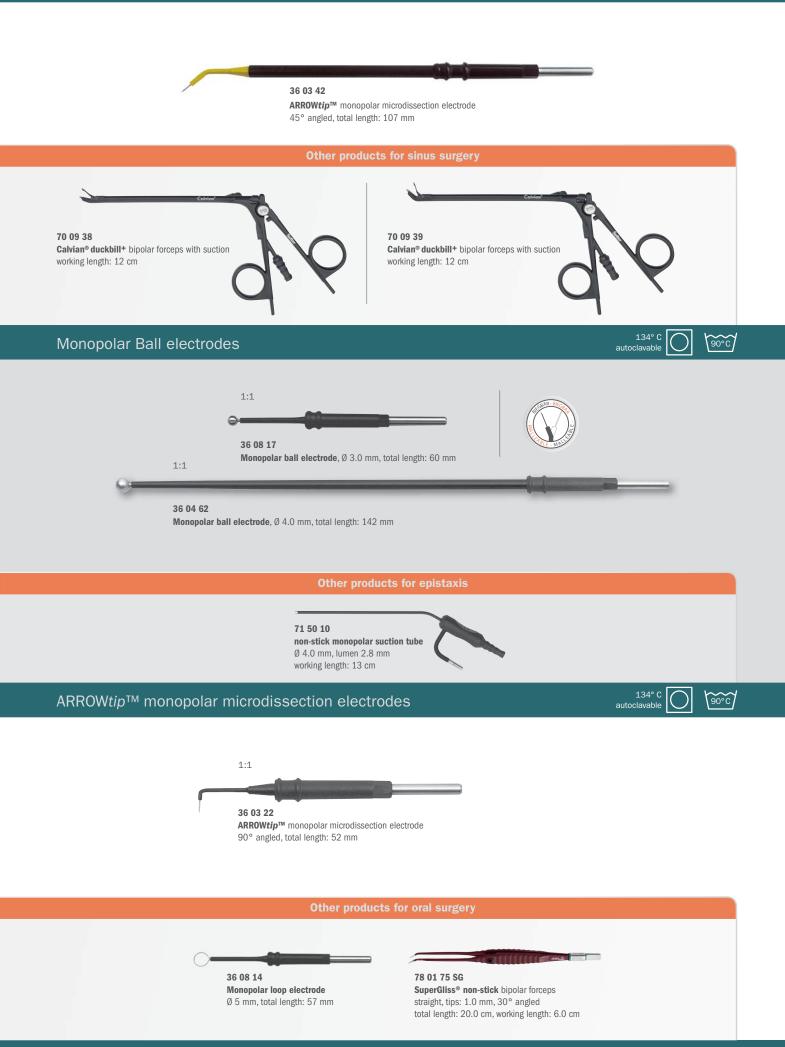


Reduced-bleeding excision of the papilloma with ARROWtip™ monopolar microdissection electrode (REF 36 03 22)

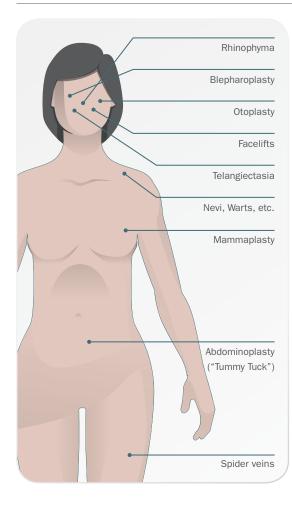


Postoperative site after precise and full tumor resection



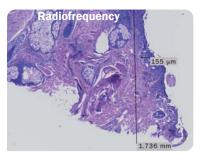


Plastic and Aesthetic Surgery

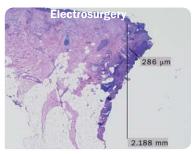


"Radiofrequency surgery causes less lateral tissue damage than conventional electrosurgery. Consequently faster wound healing and a better cosmetic outcome can be expected. Studies have even shown better cosmetic results for radiofrequency skin surgery than for CO_2 laser applications. Radiofrequency also improves operation comfort by enabling germ-free and pressure-free cuts with minimal bleeding in a very cost-effective way."

R. Kasten, MD Mainz (Germany)



Lateral thermal damage following radiofrequency excision: 155 µm



Lateral thermal damage after conventional electrosurgery excision: 286 µm

Precise cutting allows the tissue to heal with minimal postoperative pain and scarring. The degree of hemostasis is determined by the surgeon. It goes without saying that the CURIS[®] 4MHz radiofrequency generator will produce clear, clean cuts. This only works when the energy delivered is highly focussed and there is minimal lateral heat damage. The frequency of 4 MHz and **AutoRF[™]** combine to create a homogenous electromagnetic field. For the unit to adjust to ever changing conditions during cutting skin, fat, muscle in one stroke, active performance control with **AutoRF[™]** [™] is able to ensure reproducible results.

Best possible coagulation results can be achieved, according to the doctor's requirements, with two bipolar modes. For instruments with wider tips of 1 mm and more, the MACRO mode is ideal. The advantage of fine instruments – their precision – is enhanced by the PRECISE mode, which can be adjusted in steps of 0.5 watts. Its gentleness and characteristics guarantee safe coagulation results during subtle interventions and near sensitive structures.



Hemangioma on the upper arm



Excision of a hemangioma with minimal bleeding



Ø 1.0 mm

36 08 16 Monopolar ball electrode total length: 63 mm



now been extended to ablative, vaporizing methods in esthetic medicine. This novel method complements the armamentarium of the dermatologist in the operating room as well as those of the plastic surgeon and ENT specialist. Elevated benign nevi may now be removed elegantly and painlessly producing excellent cosmetic results."

"The range of radiofrequency surgery has





Papular nevus on left cheek



Removing the remaining part of the lesion with gentle movements



Tangential excision of papular nevus



Eight weeks after radiofrequency ablation

Telangiectasia / Spider Veins



36 08 04 Monopolar needle electrode total length: 67 mm



Spider veins before RF treatment.



"With radiofrequency all types of spider veins can be treated in a fast and cost effective way. The procedure takes only several minutes and effects are instantly visible. Postoperatively there is very little discomfort for the patient."

D. Zavisic, MD Freiburg (Germany)



Surgical site immediately postoperatively.

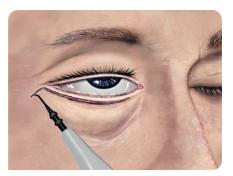


78 01 48 SG SuperGliss[®] non-stick bipolar forceps straight, tips: 0.7 mm, total length: 15.5 cm working length: 4.0 cm

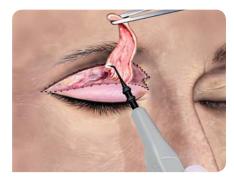
"An established technique for precise cutting and delicate coagulation in plastic and aesthetic surgery: Radiofrequency leads to less lateral tissue damage than conventional electrosurgery. This, in turn, results in improved wound healing and good cosmetic results. Radiofrequency increases the userfriendliness and comfort for the surgeon who is able to work in one uninterrupted go without applying mechanical pressure and with a lower bleeding tendency."



E. Oestreicher, MD Meppen (Germany)

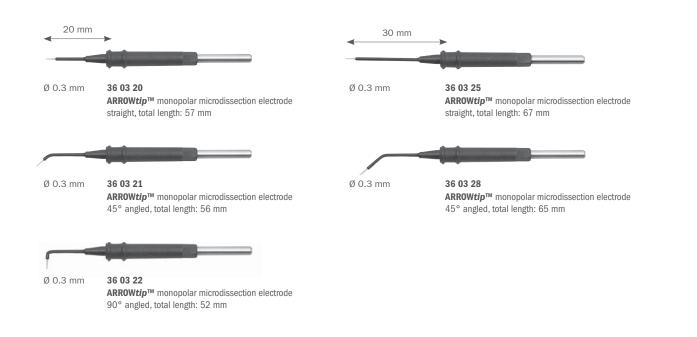


Lower Eyelid Plastic Surgery: Skin incision using ARROW*tip*™ monopolar microdissection electrode (REF: 36 03 21)



Upper Eyelid Plastic Surgery: Skin incision and excision of the skin area using the ARROW*tip*™ monopolar microdissection electrode (REF: 36 03 21)

ARROW*tip*[™] monopolar microdissection electrodes for dermatology



Sets/Accessories

CURIS[®] Basic Set

87 00 10 - CURIS[®] basic set with single-use patient plates

Qty.	REF	Description
1	36 01 00-01	CURIS® 4 MHz radiofrequency generator (incl. mains cord, user's manual and test protocol)
1	36 01 10	Foot switch two pedals for CURIS $^{\textcircled{B}}$ (cut & coag), 4 m cable
1	37 01 54 L	Bipolar cable for CURIS [®] , length: 3 m
1	36 07 04	Monopolar handpiece (pencil) cut & coag, shaft 2.4 mm, cable 3 m
1	36 02 38	Cable for single-use patient plates, length: 3 m
1 (x 50)	36 02 22 H	Safety patient plates, single-use, packing 5 x 10 pcs. (not shown)

Optional set:

CURIS® basic set with reusable patient plate (REF 870020)



Instrument Sets for ENT

87 86 05 - RaVoR™ Set for Surgery

Qty.	REF	Description
2	70 04 62	RaVoR™ bipolar electrode for the inferior turbinates
1	70 04 95	RaVoR™ bipolar electrode for the soft palate
1	70 04 89	RaVoR™ bipolar electrode for the posterior pillars
2	36 03 28	ARROWtip [™] monopolar microdissection electrode, working length: 30 mm, angled
2	36 03 42	ARROWtip [™] monopolar microdissection electrode, working length: 65 mm, angled
1	80 00 00	Container with accessories (31 x 10 x 19 cm)
1	70 17 47	Instrument tray

87 00 05 - RaVoR™ Set for Hospital

Qty.	REF	Description
1	70 04 62	RaVoR™ bipolar electrode for the inferior turbinates
1	70 04 95	RaVoR™ bipolar electrode for the soft palate
1	70 04 89	RaVoR™ bipolar electrode for the posterior pillars
1	70 04 99	RaVoR™ bipolar electrode for the tongue base
2	36 03 28	ARROW <i>tip</i> ™ monopolar microdissection electrode, working length: 30 mm, angled
2	36 03 42	ARROW <i>tip</i> ™ monopolar microdissection electrode, working length: 65 mm, angled
1	80 00 00	Container with accessories (31 x 10 x 19 cm)
1	70 17 47	Instrument tray

CURIS® Storage / Transport



36 09 00 Fuego trolley

Fuego Trolley

The trolley has a solid design and guarantees that the CURIS $^{\circ}$ 4 MHz radiofrequency generator will not shift. It also comes with a hook to mount the footswitch.

Two storage baskets for accessories and documentation.



99 01 10 CURIS® trolley case

Trolley Case for CURIS[®] 4 MHz radiofrequency generator

The $\ensuremath{\mathsf{CURIS}}\xspace^{\ensuremath{\$}}$ trolley case is ideally suited to preserve your radiofrequency generator from damage.

*Not for shipment with parcel services.

CURIS® Technical Data

RF output max.	performance	operating frequency		
monopolar CUT 1 (unmodulated) CUT 2 (modulated) CONTACT (Coag) SOFTSPRAY (Coag)	100 W ± 20 % 600 Ω 80 W ± 20 % 600 Ω 80 W ± 20 % 400 Ω 60 W ± 20 % 600 Ω	4.0 MHz 4.0 MHz 4.0 MHz 4.0 MHz	Modulation frequency Mains supply Measurements W x H x D Weight	33 kHz 100-240 V; 50/60 Hz 320 mm x 170 mm x 385 mm approx. 5.2 kg
bipolar BICUT 1 BICUT 2 EXCISE (Cut) MACRO (Coag) PRECISE (Coag) RaVoR™	$\begin{array}{c} 80 \text{ W} \pm 20 \ \% \ 300 \ \Omega \\ 80 \text{ W} \pm 20 \ \% \ 300 \ \Omega \\ 80 \text{ W} \pm 20 \ \% \ 300 \ \Omega \\ 80 \text{ W} \pm 20 \ \% \ 50 \ \Omega \\ 50 \text{ W} \pm 20 \ \% \ 50 \ \Omega \\ 40 \text{ W} \pm 20 \ \% \ 50 \ \Omega \end{array}$	4.0 MHz 4.0 MHz 4.0 MHz 4.0 MHz 4.0 MHz 4.0 MHz	Standards DIN Safety class I EMC (Interference suppr.) EN 6 Type CF (r German MPG class. II b	Intermittent INT 10 s / 30 s equals 25 % EE DIN EN 60601-1; DIN EN 60601-2-2 EN 60601-1-2 CF (cardiac floating) defibrillation proof II b EN 13485

Disclaimer:

The information presented herein has 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 the mandatory legal regulations.

The listed working lengths serve as a guideline and may be rounded up or down. The actual lengths may vary slightly.

Products shown in this catalog are subject to regulatory approval in individual markets. Products may therefore not be available in all markets.

CURIS[®] - Commonly used unit settings*

IndicationInstrumentUnder settingsSinglorumBits discutationSinglorumBits discutationSinglorumBits discutationSinglorumBits discutationSinglorumBits discutationSinglorumBits discutationSinglorumBits discutationSinglorumBits discutationBits discu						
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	Epistaxis					

Settings valid for generators from version: 0607





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