

face

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Special Edition

Radio Surgical Procedures in
the Aesthetic Facial Surgery

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Radio Surgical Procedures in the Aesthetic Facial Surgery

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Environmental influences, unhealthy lifestyles and the natural aging process often lead to a loss of elasticity and volume of the skin. This often results in patients looking older than they actually are. Especially the eyes and mouth are always in focus. The patient prefers a brighter and fresher look and a tighter contouring of the mouth area. The surgical procedure should be safe and the healing process as quick as possible and without complications. The patients wish to be socially presentable as soon as possible and the intervention should leave no negative markings. This is possible to a great extent with the use of radio surgery.

The thermal-tightening of the lower eyelids presents a new and innovative method. For this treatment starting subziliar (between the eyelashes) from lateral to medial under local anesthetic with short pulse frequency of about 0.5 seconds, a semi-circular disc electrode is placed on the skin at a distance of 1–2 mm. Thereafter 3–4 further rows are placed directly under the first treatment arc (Fig. 1). The resulting lateral heat is so low that there is no burning at all, but high enough to achieve a thermal-tightening of the tissue (intraoperatively, Fig. 2).

In my practice I use the radio surgery device radio-SURG® 2200 from the company Meyer-Haake GmbH

Medical Innovations, Germany. Wrinkles, lachrymal sacs etc. disappear, even Malar Mounds can be successfully treated in this way.

For this purpose the disc electrode is used in the same manner on the Malar Mounds over an area of approximately 1.5 cm². Here too, at a distance of 1–2 mm approximately 3–4 rows are placed. After treatment a scab could form for 6–10 days. A light redness of the lower eyelid is—according to skin type—for up to 4 weeks possible (Fig. 4a and b). It is recommended to apply a Bio Nano-cellulose mask with hyaluronic acid gel immediately after the treatment.

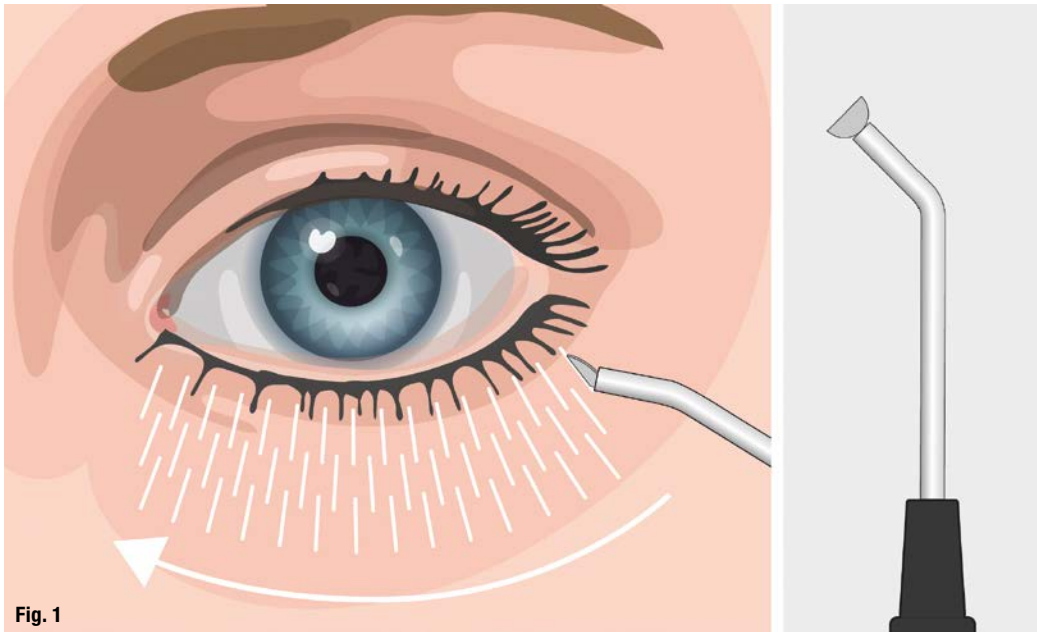


Fig. 1: For the thermal-tightening of the lower eyelids the disc electrode is applied on the flat side in 3 to 5 staggered rows, each for approximately 0.5 seconds.

Combination Treatment

A classic upper eyelid blepharoplasty in combination with the thermal-tightening of the lower eyelids leads to an excellent aesthetic result.

In this case the incision is made on the upper eyelid, after infiltration with local anesthetic, with a fine needle electrode. I like to use for this the multi-electrode tip no. 41 from the company Meyer-Haake GmbH Medical Innovations, because the cutting wire is adjustable and I can operate with a very short wire tip. The preparation with the radioSURG® 2200 is gentle and only very light bleeding occurs. The precisely cut skin spindles are then removed with the Iris scissors and surgical forceps. Slight bleeding is then stopped via bipolar forceps.

The dissection and resection of excess structure fat is also done with the bipolar forceps. Through the use of radio frequency hemostasis is safe and carbonization free, whilst ensuring reliable dissections results. With

the closed bipolar forceps a new eyelid fold is generated by thermal tightening.

In this case the forceps are guided by short impulses along the desired line. The radioSURG® 2200 produces clean cut edges that can be perfectly adapted with aesthetic sutures. Due to the almost trauma-free edges of the wound, the conditions for excellent scarring are created. Radio frequency surgery leaves clean and vital wound edges that allow for a maximum aesthetically wound closure. With this technique there is virtually no bleeding and thus no hematoma. The swelling subsides after 3 days. After 5 days the sutures are removed and after 10 days the treatment is complete. By this time the patient is socially presentable again—usually earlier (Fig. 5a and b). Even complicated cutting techniques with simultaneous coagulation, for example a trans-conjunctival lower lid blepharoplasty (Fig. 3), can be performed with radio frequency surgery gentler and easier in the operative technique.

Fig. 2: This intraoperative picture shows clearly that with plastic surgery on the eyes, in addition to an upper eyelid blepharoplasty the lower eyelids can be treated by the thermal-tightening system.

Fig. 3: The trans conjunctival lower eyelid blepharoplasty is extremely gentle.



Fig. 2



Fig. 3

Fig. 4a and b: Preoperative to the thermal-tightening of the lower eyelid (**a**) and the satisfied patient after the treatment (**b**).

Fig. 5a and b: The patient before the upper eyelid blepharoplasty (**a**) and postoperative, looking years younger (**b**).

Fig. 6a and b: Perioral wrinkles preoperative (**a**) and after the thermal-tightening (**b**).



Smoothing of Wrinkles with Thermal-Tightening

Also perioral wrinkles can be minimized with excellent results (Fig. 6a und b).

For this treatment a small ball electrode and a low setting is used in the individual folds. This precise procedure is only possible with a device that also operates with a very low output power. Only with very sensitive patients a local anesthetic is necessary. After the treatment a scab is formed, that falls off after 8–10 days and leads to an excellent result. The RF-ReFacing®-Method with the radioSURG® 2200 can offer patients, who might shy away from an invasive method, a significant improvement to their appearance. The elastin and collagen formation is stimulated and the collagen fibers that have become too long are tautened through the radio waves.

It is recommended to have a course of several treatments that stimulate the self-healing process of the skin.

The radio frequency surgery is an established part of the modern aesthetic facial surgery for precise and gentle surgical procedures.

Kontakt



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