

An endoscopic brow lift, also called a forehead lift, surgically corrects drooping eyebrows and softens worried or angry expressions that result from frown lines. During the procedure, commonly performed on men and women between the ages of 35 and 70, the surgeon elevates the skin and underlying tissues of the upper face, and may remove part of the muscle that causes frown lines between the brows. The result is a more youthful, relaxed, and refreshed appearance.



Before: Drooping and flat eyebrows create a "tired" look for this 42-year-old patient.

Am I a Brow Lift Candidate?

If you have sagging eyebrows that create a tired or sad appearance, deep horizontal creases across your forehead, or frown lines or furrows between your eyebrows, you may be a good endoscopic brow lift candidate. To get a glimpse of the potential results, you can try a simple test on your own. Place your fingertips at the outer edges of your eyebrows and gently raise the skin upwards. This will give you a good indication of what



the procedure might do for your appearance. Of course, the best way to determine if an endoscopic brow lift is right for you is by a thorough consultation with your plastic surgeon.

The endoscopic brow lift technique uses a small, pencil-like camera device connected to a television monitor. The endoscope is inserted into several small, one-half-inch to one-inch incisions placed just behind the hairline, providing the surgeon with a clear view of the muscles and tissues beneath the skin. The surgeon



After: Rounded, elevated eyebrows result in a more youthful and refreshed appearance.

then inserts another instrument through one of the small incisions to lift the skin and remove or alter muscle, if necessary. During an endoscopic procedure, the eyebrows and forehead can be lifted and secured at the optimal height through the use of a new, sutureless mechanism called the ENDOTINE™ Forehead fixation device.

A brow lift procedure can also be performed using a traditional "open" method, where an incision is made slightly behind or at the natural hairline, beginning above the ears and continuing toward the top of the head. The surgeon works through the incision to secure tissue and modify or remove excess skin and parts of the muscle that cause wrinkling and frown lines. The incision is closed with stitches.

"I am very pleased with the difference...I have fewer wrinkles and an overall smoother appearance. I feel very good about the overall results."

Margaret, Age 42

Because of the smaller incisions, endoscopic brow lift patients usually experience less of the itching sensation and temporary scalp numbness felt by patients who

Benefits of an Endoscopic Brow Lift Procedure vs. the Traditional "Open" Method

Smaller Incisions,
Less Scarring

Reduced Areas
of Hair Loss

have had the open technique. In addition, endoscopic brow lift patients may feel ready to return to normal activities sooner.

In some cases, a combination of endoscopic

and open techniques may be used. In either case, the procedure typically takes between one-to-two hours, and is usually performed in the surgeon's office-based facility or an outpatient surgery center under intravenous sedation or general anesthesia.

The ENDOTINE Forehead Solution for Effective Brow Elevation

The ENDOTINE Forehead device offers a novel and elegant solution designed specifically for elevating the forehead tissue in brow lift surgery. Its unique structure provides multiple points of contact with the elevated forehead tissue in order to create a more even and gentle



"I'm pleased my doctor used the ENDOTINE Forehead device. I feel like the device is helping. I wouldn't have had a brow lift unless it was endoscopic."

Stephanie, Age 57

distribution of holding strength. Other options such as screws and sutures typically provide only one point of contact which may tear through the soft tissues, adversely affecting brow lift reliability.

Other advantages of the ENDOTINE Forehead include:

- No metal screws protruding through the scalp that can cause wound irritation and hair loss
- No sutures that can pinch the hair follicles, also leading to hair loss
- No need to remove, since the ENDOTINE Forehead device absorbs over time

An experienced surgeon can effectively place the ENDOTINE Forehead in less than one minute in a simple procedure. Once the eyebrows are raised to their desired height during endoscopic brow lift surgery, the ENDOTINE Forehead is inserted under the scalp tissue, securely holding the tissue in place. The incision is then closed, and the ENDOTINE Forehead is left in place, where it eventually absorbs.

Sutures



The ENDOTINE Forehead fixation device is just a few millimeters in size, and is made of bioabsorbable material.

“The major difficulty we have encountered in endoscopic brow lifting is the problem of fixation... In our opinion, obtaining secure fixation is the key to predictability in endoscopic brow lifting. Not only in terms of brow elevation, but also in terms of brow shaping.”

Plastic and Reconstructive Surgery Drs. Stuzin, Baker and Baker 107(3): 872, 2001

After surgery, the ENDOTINE Forehead can be adjusted if necessary, allowing the surgeon to continue to shape and contour the forehead. This provides you—and the surgeon—greater aesthetic control of your brow height and shape.

Be sure to ask your surgeon about use of the ENDOTINE Forehead device for your endoscopic brow lift procedure.



A 46-year-old patient prior to endoscopic brow lift surgery with the ENDOTINE Forehead device.



The ENDOTINE Forehead device enables the surgeon to achieve a higher, more youthful brow line, leading to a more refreshed and natural look.

What Results Can I Expect After Surgery?

Immediately after surgery, you will experience some temporary swelling and bruising in your eyebrow and forehead areas, which may last for up to 10 days. The first night, it's important to rest with your head elevated. You can use a cold compress to help control swelling. You may also experience mild discomfort at the surgical site, which is typically controlled with doctor-prescribed oral medications. Head dressings and drain tubes (if used) are removed within a few days after surgery. You can usually take a shower and wash your hair a few days later. When healing begins, you may experience numbing and itching at the incision sites. Most patients recover from traditional brow lift surgery in about 2 weeks. Recovery time can be even faster with endoscopic brow lift surgery. At this point, you may feel the Endotine Forehead device under the skin and experience some increased sensitivity in the area until the bioabsorbable material goes away.



“I think it's worth paying a little more for the ENDOTINE Forehead device, especially given the alternatives.”

Pamela, Age 42

If you're like most brow lift patients, you'll be very pleased with your refreshed and rejuvenated appearance. Although it may take several months to see the final results, you'll probably agree that your new look was worth the wait.



The length of time your brow lift lasts will vary. A number of factors, including heredity and lifestyle, all play a role in your long-term results. Although you will appear younger, remember that you are still continuing to age. In the future, you may also want to make additional surgical improvements.

What are the Surgical Risks?

Each year, thousands of men and women undergo endoscopic brow lift procedures and experience no complications. Although problems are rare and usually minor, it's best to discuss possible complications with your surgeon. And, remember that you can help minimize risks by following the advice and instructions you receive from your health care professional, both before and after surgery.

"As a nurse, I understand the benefits of endoscopic surgery versus traditional methods, and thought it would be best."

Maggie, Age 42

Possible Risks Associated with the ENDOTINE Forehead Fixation Device and Other Medical Implants

Although the ENDOTINE Forehead fixation device is designed for endoscopic brow lift surgery, it's important to understand there are potential risks inherent in this and other medical implants. For example, you may experience discomfort, infection, and wound healing problems over the implant. In addition, you may be able to feel the device under the skin which may be sensitive to touch. Much less likely, but possible, is that your skin or hair may become thinner over the device, and you may experience some scarring if there is a wound healing complication around the device. At some point, you may want to remove the implant requiring a minor procedure if your sensitivity to the device is great enough that you don't want to wait until the implant dissolves.

Since the ENDOTINE Forehead fixation device and other fixation devices used in endoscopic brow lift surgery are anchored in the bone of the skull, other risks are possible, though extremely rare. There may be complications from making the bone hole that could lead to serious injury. There is a possibility of bone infection, or the device may disengage from the bone leading to a compromised surgical result or feeling of a moving implant under your skin. And, although the ENDOTINE Forehead fixation device is absorbable, you may experience prolonged absorption time and want to remove the device, especially if you are experiencing discomfort or other problems.

Information contained in this brochure is intended to provide you with a better understanding of the endoscopic brow lift procedure. This is not intended as a substitute for medical advice. The best way to get complete information and answers to your specific questions is through a personal consultation with a board certified plastic surgeon.