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• Diseases of the Ear, Nose & Throat

- Adults and Children
- Head and Neck Surgery
- Facial Cosmetic and Reconstructive Surgery

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LASER STAPEDOTOMY PATIENT INFORMATION/CARE and SURGICAL INFORMED CONSENT

What is stapedotomy? You have elected to undergo the procedure called Laser Stapedotomy. This is an operation to remove (actually bypass) the stapes bone, one of the three tiny bones (ossicles) of the middle ear. The operation is performed to relieve the hearing loss caused by the disease called otosclerosis.

The middle ear cavity, enclosed on one side by the eardrum (tympanic membrane) and on the other by the bony wall of the inner ear, houses the sound conduction mechanism called the ossicular chain. The 3 ossicles are suspended from the roof of the middle ear cavity by ligaments and muscles. The Latin names of these three little bones are the malleus “hammer”, incus “anvil”, and stapes “stirrup”. It is interesting to note that the translations of the Latin names of these bones hint at their combined function in transferring sound vibrations received at the ear drum to the inner ear.

The bottom of the stapes (the ‘footplate’ region) occupies the oval window in the bony casing of the inner ear, and it is at this point that the inherited condition known as otosclerosis interferes with the transmission of sound. In otosclerosis there is an overgrowth of bone around the footplate, causing the stapes bone to become fixed and unable to vibrate. The condition, twice as common in women, is gradual in onset, causing progressive hearing loss.

Stapedotomy is performed to bypass the immobile stapes with an artificial piston. A very small hole (< 0.8 mm), is created with the laser in the footplate to allow for placement of the prosthesis. It is usual to operate only on one ear at a time, starting with the poorer one. The second ear, if affected, can have the surgery performed a minimum of one year later, if desired.

Usually both ears are affected, although not necessarily to the same degree or at the same time.

TWO WEEKS BEFORE SURGERY: Non-steroidal anti-inflammatory drugs (NSAID’s) should be strictly avoided for 2 weeks prior to surgery. Medications in this family include: aspirin, ibuprofen, Advil, Motrin, Alleve, and naproxen plus others. These medicines may increase the risk of bleeding. Also, discontinue all homeopathic or alternative medicines such as ginkgo biloba or ginseng. These too, may increase bleeding.

NIGHT BEFORE SURGERY: No solid foods (that includes milk, cream, etc.) for 8 hours prior to surgery. Typically this means no solid foods after midnight before the surgery. Small volumes of clear liquids may be taken up to 4 hours prior to surgery. This includes water, tea, Gatorade and coffee (with NO milk or cream).

HOSPITAL STAY: Stapedotomy is usually done as an out-patient and does not require an overnight hospital stay. On occasion, a patient may need to

stay overnight. Check with your insurance company to see if this hospitalization is covered by your policy. A decision to admit overnight may be made after surgery if necessary.

LAB WORK: If lab work is needed, it is done prior to surgery. If surgery is done as an out-patient, labs may be obtained just after the preoperative examination. Your insurance carrier may dictate the lab where the blood is drawn.

The indications and risks of surgery must be understood prior to proceeding with your surgery. The alternative to this surgery is no surgery at all, which would leave your ear in its current condition. Another option is to wear a hearing aid.

SURGICAL RISKS AND POSSIBLE COMPLICATIONS:

This type of ear surgery has very few serious risks. Complications from stapedotomy are infrequent and seem to be related to the presence of uncommon variations in anatomy. Usually the surgical procedure is performed without difficulty, with a high rate of success.

Excessive bleeding during this surgery is rare.

Post-operative infection is also rare. If this was to occur you could lose the hearing in the operated ear. Once healed, it is unlikely that infection would harm you.

Hearing loss. The incidence of total hearing loss reported is about one in 200 cases. Generally 90% of patients find a significant improvement in their hearing after surgery. 5 to 10% of patients may not experience an improvement in their hearing or a reduction in their hearing. If your hearing is not significantly improved after the surgery a hearing aid can be obtained. There is also a 1% chance over the years that delayed deafness can occur. This would most commonly occur with a significant barometric pressure change such as on a plane flight or scuba diving.

Dizziness. It is not uncommon to experience dizziness or vertigo for hours or days after the surgery. Extremely rarely the dizziness would not resolve.

Eardrum perforation. There is a small chance your eardrum may develop a hole during surgery. Repair of this would be attempted at the surgery however if it persists a second surgery might be necessary.

Tinnitus. Tinnitus that was present before the surgery commonly persists, although following surgery it may disappear. In rare instances it could be worse.

Facial nerve paralysis. Injury to the facial nerve is extremely rare in stapedotomy. If this was to occur your face would droop, be weak or be paralyzed.

Laser fire. There is a very remote risk of fire when using any laser in surgery. Precautions are taken to avoid this problem.

As with any type of surgery, the risks of anesthesia such as drug reaction, breathing difficulties and even death are possible. Please discuss these risks with your anesthesiologist.

GENERAL POST-OPERATIVE INSTRUCTIONS/CARE

1. **ACTIVITY:** Very light activity for two weeks is recommended after your ear surgery. No excessive bending, stooping, straining, or lifting more than 15 pounds during this time. Please avoid aggressive blowing of your nose for one month after surgery. If your job entails a lot of bending or heavy lifting, please notify us prior to your surgery.
2. **DIET:** You can eat a diet as you tolerate after your ear surgery.
3. **MEDICINES:** You will be prescribed pain medicines and possibly oral antibiotics and/or eardrops. Take these as directed. You may also be prescribed school softeners. Take these as directed. Avoid heavy straining with bowel movements for several weeks.
4. **BATHING:** Generally, you may shower 24 hours after surgery. We do request you keep the ear dry for 2-3 weeks after surgery or until instructed otherwise.

It is best to avoid airplane flight for a minimum of six weeks, ideally three months after surgery.

POST OPERATIVE FOLLOW-UP: you will be asked to return to our office 7 to 10 days after surgery. There will also be several visits over the next 4 to 6 weeks. If first post-operative visit has not already been scheduled, please call our office to make that appointment.

At Suburban Ear, Nose and Throat Associates, Ltd., we go to great lengths to try to help you understand your plan of care. If at any time during your care you have questions or concerns, please call us at 847-259-2530.

I have been given an opportunity to ask questions about my condition, alternative forms of treatment, risks of non-treatment, the procedures to be used and the risks and hazards involved. I have sufficient information to give this informed consent. I understand every effort will be made to provide a positive outcome, but there are no guarantees.

Patient signature: _____

Date: _____ Time: _____

Witness: _____ Date: _____