



**SUBURBAN**  
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Associates, Ltd.

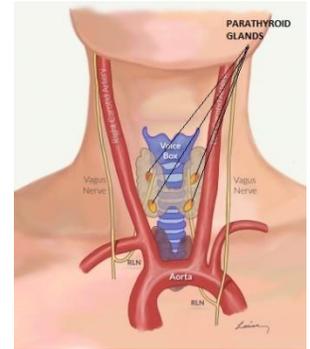
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- Diseases of the Ear, Nose & Throat
- Adults and Children
- Head and Neck Surgery
- Facial Cosmetic and Reconstructive Surgery

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## PARATHYROIDECTOMY SURGICAL INFORMED CONSENT

There are typically four parathyroid glands in the neck. They are located behind the butterfly shaped thyroid gland (hence the term *parathyroid*). They are very small (each the size of a small pea) and they control how much calcium is in the body. Most of the time the parathyroid glands work perfectly. Occasionally, one or more of the parathyroid glands can become overactive. This causes the body to have too much calcium in the bloodstream, a condition called primary hyperparathyroidism. This can be detected by a simple blood test to determine the level of your body's calcium and parathyroid hormone (also referred to as PTH).



While calcium is important to one's health, too much calcium can produce several unwanted symptoms. These can include muscle and bone pain, osteoporosis, fatigue, weakness, kidney stones, and depression. Usually, the cause of primary hyperparathyroidism is a benign (non-cancerous) tumor in one of the parathyroid glands. This tumor is called a parathyroid adenoma. There are other less common causes of excessive calcium as well. Sometimes, all four glands become overactive, a condition called parathyroid hyperplasia. Occasionally more than one gland develops into an adenoma. In most cases, primary hyperparathyroidism is treated with surgery to remove the abnormal parathyroid gland(s).

Your physician at Suburban Ear, Nose, and Throat is uniquely trained to perform this type of parathyroid surgery called a parathyroidectomy. In many cases, surgery is done through a very small incision in the neck (usually around one inch long) - called minimally invasive parathyroidectomy (MIRP). After removing the abnormal parathyroid gland(s), your calcium and PTH levels will return to normal and symptoms will soon resolve. Most patients who undergo MIRP parathyroid surgery are discharged home from the hospital the same day.

**2 WEEKS PRIOR TO SURGERY:** Strictly avoid all anti-inflammatory drugs for two weeks pre-operatively. This includes aspirin, Advil, ibuprofen, Naprosyn, Celebrex or any other non-steroidal anti-inflammatory drug (NSAIDs). These medicines increase your risk of bleeding. These medicines must also be avoided for at least one week after surgery. Tylenol (acetaminophen) is not an anti-inflammatory so it is fine to take.

**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 liquid may be drunk up to 4 hours prior to surgery (examples: water, tea, Gatorade, or coffee with NO milk or cream).

**POST-OPERATIVE CARE:** As requested pre-op, please refrain from aspirin and all NSAID's for at least 1 week after surgery. We ask that you limit your activity to casual activities for up to 2 weeks. We ask that you do not perform activities that involve lifting more than 15 pounds, excessive bending, stooping, straining, or exercising during this time. We do encourage casual activities such as walking,

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etc. We encourage taking extra deep breaths every couple hours during the waking hours for a few days after surgery to decrease your risk of post-operative lung infection. We allow showers 24 hours after your neck drain/drains have been removed (if placed) or when directed by your doctor. Sutures (if present) will typically be removed about seven days after surgery. Sometimes post-operative antibiotics are prescribed. Narcotic or semi-synthetic narcotic pain medicine is usually prescribed to be taken on an as needed basis.

**DIET:** It is typical that we allow you to eat food as tolerated, unless otherwise instructed.

Serious complications are rare. It is very important that we are aware if any of the following problems occur. The indications and risks of surgery, as well as expected outcomes, must be understood prior to proceeding with your surgery. In addition, you must understand your alternatives to the surgery. Your alternative is not to have the surgery performed, and continue with medical management of your problem. This would leave you in your current condition.

### **PARATHYROIDECTOMY SURGICAL RISKS/COMPLICATIONS:**

**BLEEDING:** Minor bleeding from the incision is typically not a problem; however, heavy bleeding deeper in the neck can be very serious and can potentially cause difficulty with breathing. If not addressed in a timely fashion it can possibly cause suffocation. Therefore, if excessive bleeding is noted, if you have sudden difficulty breathing or if there is rapid expansion of your wound, call 911 immediately.

**HYPO-PARATHYROIDISM OR LOW BLOOD CALCIUM:** This is a problem that can occur if the entire thyroid gland was removed or if you have had surgery for hyperparathyroidism. You may or may not have been prescribed calcium and vitamin D after surgery. If you develop tingling of your lips, fingers or toes or if your muscles feel spastic or cramping, notify us immediately so this can be also managed in a timely fashion. If this occurs, it is usually temporary, but in rare instances, low blood calcium may be permanent.

**HOARSENESS:** Parathyroid surgery involves dissection around the nerves that control the vocal cords. The vocal cord muscles rotate out to an open position while taking a breath of air and are rotated in and squeezed together in the midline in order to create voice. Each vocal cord has two nerves that control its movement. The larger nerve travels up from below the vocal cords and is named the recurrent laryngeal nerve. It is responsible for the majority of the movement of the vocal cord. A smaller nerve travels down from above the voice box to control a muscle on the outside of the voice box (larynx). It is named the superior laryngeal nerve, and it helps in fine-tuning the voice allowing for control of your pitch and your ability to project the voice. Surgery to the parathyroid glands places all these nerves at risk for injury. One-sided surgery places the upper and lower nerves on that side at risk for injury. Surgery to both sides places all 4 nerves at risk for injury. Permanent damage to these nerves is rare. Temporary injury to these nerves occurs on occasion. The symptoms of laryngeal nerve injury depend on which nerve(s) is affected and can be as minor as mild hoarseness or can be more serious as severe hoarseness. Extremely rarely, if both recurrent laryngeal nerves were to be injured, this could lead to difficulty in breathing in air, necessitating emergency airway control by tracheotomy.

**INFECTION:** Infection after parathyroidectomy is very rare. If there is redness, drainage, fever or other concerns of infection, please notify us immediately.

**POSSIBLE NEED FOR FURTHER TREATMENT AND/OR SURGERY:** Depending on the problem for which the surgery was performed, as well as the result of the specimens that were sent to the laboratory for pathologic study, sometimes further surgical therapy or further medical therapy is needed. Your surgeon will discuss this

with you.

*POOR SCARRING:* As Head and Neck Cosmetic and Reconstructive surgeons also, we strive and normally achieve excellent scar camouflage. The scar is typically placed in a previous existing neck crease. Scars are typically raised, somewhat red and bumpy for three months, but over the next year or so, the scar softens, matures and becomes much less visible. Very rarely poor scarring can occur. In these rare instances, scar revision can be performed.

*NON-RESOLUTION OF THE PROBLEM:* Depending on the condition that necessitated the surgery, the outcomes may vary. With a single tumor, the cure rate approaches 100%. On occasion, a second tumor might become evident over time, and additional surgeries might be needed. With enlargement of all of the glands, there is up to a 15% chance that the first surgery is not curative, and further surgeries might be necessary.

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. Fortunately, with this procedure, anesthetic problems are exceedingly rare.

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 Name **printed:** \_\_\_\_\_

Patient **signature:** \_\_\_\_\_

Date: \_\_\_\_\_ Time: \_\_\_\_\_

Witness: \_\_\_\_\_ Date: \_\_\_\_\_