QUESTIONS AND CONSIDERATIONS

When thyroid surgery is recommended, patients should ask several questions regarding the surgery including:

1. Why do I need an operation?
2. Are there other means of treatment?
3. How should I be evaluated prior to the operation?
4. How do I select a surgeon?
5. What are the risks of the operation?
6. How much of my thyroid gland needs to be removed?
7. What can I expect once I decide to proceed with surgery?
8. Will I lead a normal life after surgery?

WHY DO I NEED AN OPERATION?

The most common reason for thyroid surgery is to remove a thyroid nodule, which has been found to be suspicious through a fine needle aspiration biopsy (see Thyroid Nodule brochure). Surgery may be recommended for the following biopsy results:

1. cancer (papillary cancer);
2. possible cancer (follicular neoplasm); or
3. inconclusive biopsy.

Surgery may be also recommended for nodules with benign biopsy results if the nodule is large, if it continues to increase in size or if it is causing symptoms (pain, difficulty swallowing, etc.). Surgery is also an option for the treatment of hyperthyroidism (see Hyperthyroidism brochure), for large and multinodular goiters and for any goiter that may be causing symptoms.

ARE THERE OTHER MEANS OF TREATMENT?

Surgery is definitely indicated to remove nodules suspicious for thyroid cancer. In the absence of a possibility of thyroid cancer, there may be non-surgical options of therapy depending on the diagnosis. You should discuss other options for therapy with your physician.

HOW SHOULD I BE EVALUATED PRIOR TO THE OPERATION?

As for other operations, all patients considering thyroid surgery should be evaluated preoperatively with a thorough and comprehensive medical history and physical exam, including cardiopulmonary (heart) evaluation. An electrocardiogram and a chest x-ray prior to surgery is often recommended for patients who are over 45 years of age or who are symptomatic from cardiac disease. Blood tests may be performed to determine if a bleeding disorder is present. Any patients who have had a change in voice or who have had a previous neck
operation should have their vocal cord function evaluated preoperatively. This is necessary to determine whether the recurrent laryngeal nerve that controls the vocal cord muscles is functioning normally. Finally, if medullary thyroid cancer is suspected, patients should be evaluated for coexisting adrenal tumors (pheochromocytomas) and for hypercalcemia and hyperparathyroidism.

**WHAT ARE THE RISKS OF THE OPERATION?**

The most serious possible risks of thyroid surgery include:

1. bleeding that can cause acute respiratory distress,
2. injury to the recurrent laryngeal nerve that can cause permanent hoarseness, and
3. damage to the parathyroid glands that control calcium levels in the body, causing hypoparathyroidism and hypocalcemia.

These complications occur more frequently in patients with invasive tumors or extensive lymph node involvement, in patients requiring a second thyroid surgery, and in patients with large goiters that go below the collarbone. Overall the risk of any serious complication should be less than 2%. However, the risk of complications discussed with the patient should be the particular surgeon’s risks rather than that quoted in the literature. Prior to surgery, patients should understand the reasons for the operation, the alternative methods of treatment, and the potential risks and benefits of the operation (informed consent).

**HOW MUCH OF MY THYROID GLAND NEEDS TO BE REMOVED?**

Your surgeon should explain the planned thyroid operation, such as lobectomy or total thyroidectomy, and the reasons why such a procedure is recommended. For patients with papillary or follicular thyroid cancer many, but not all, surgeons recommend total or near-total thyroidectomy when they believe that subsequent treatment with radioactive iodine might be beneficial. For patients with large (>1.5 cm) or more aggressive cancers and for patients with medullary thyroid cancer, more extensive lymph node dissection is necessary to remove possibly involved lymph node metastases.

Thyroid lobectomy may be recommended for overactive one-sided nodules or for benign one-sided nodules that are causing symptoms such as compression, hoarseness, shortness of breath or difficulty swallowing. A total or near-total thyroidectomy may be recommended for patients with Graves’ Disease (see Hyperthyroidism brochure) or for patients with enlarged multinodular goiters.

**WHAT CAN I EXPECT ONCE I DECIDE TO PROCEED WITH SURGERY?**

Once you have met with the surgeon and decided to proceed with surgery, you will be scheduled for your pre-op evaluation (see above) and will meet with the anesthesiologist (the person who will put you to sleep during the surgery). You should have nothing to eat or drink after midnight on the day before surgery and should leave valuables and jewelry at home. The surgery usually takes 2-2½ hours, after which time you will slowly wake up in the recovery room. Surgery may be performed through a standard incision in the neck or may be done through a smaller incision with the aide a a video camera (Minimally invasive video assisted thyroidectomy) Under special circumstances, thyroid surgery can be performed with the assistance of a robot through a distant incision in either the axilla or the back of the neck. There may be a surgical drain in the incision in your neck (which will be removed the morning after the surgery) and your throat may be sore because of the breathing tube placed during the operation. Once you are fully awake, you will be moved to a bed in a hospital room where you will be able to eat and drink as you wish. Most patients having thyroid operations are hospitalized for about 24 hours and can be discharged on the morning following the operation. Normal activity can begin on the first postoperative day. Vigorous sports, such as swimming, and activities that include heavy lifting should be delayed for at least ten days.

**WILL I BE ABLE TO LEAD A NORMAL LIFE AFTER SURGERY?**

Yes. Once you have recovered from the effects of thyroid surgery, you will usually be able to doing anything that you could do prior to surgery. Many patients become hypothyroid following thyroid surgery, requiring treatment with thyroid hormone (see Hypothyroidism brochure). This is especially true if you had surgery for thyroid cancer. Thyroid hormone replacement therapy may be delayed for several weeks if you are to receive radioactive iodine therapy. (see Thyroid Cancer brochure).

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**FURTHER INFORMATION**

Further details on this and other thyroid-related topics are available in the patient information section on the American Thyroid Association website at www.thyroid.org.