Alberta Provincial Interdisciplinary Endocrine Tumour Team Lobectomy Proposal 2021

Patients to consider offering lobectomy as an option to a total thyroidectomy for the treatment of thyroid cancer should have all the following criteria:

- 1. No family history of thyroid cancer and no past radiation exposure.
- 2. Patient choice and ability to understand nuances, risks and benefits of a new practice. The information discussed with the patient should include a discussion about surgical complications of a total thyroidectomy (RLN injury and hypoparathyroidism).
- 3. The patient must prepared for the possibility that he or she may have to undergo a completion thyroidectomy particularly when the final surgical pathology reveals features suggesting an intermediate or high risk of recurrence. The current paucity of long term surveillance data for lobectomy in PTC > 1 cm should be outlined and discussed with the patient.
- 4. Patient realization that lifelong post-op L-thyroxine treatment may still be needed.
- 5. A solitary lesion biopsy proven to show malignant cells consistent with papillary thyroid cancer (Bethesda VI).
- 6. Papillary thyroid cancer Size: 1-4 cm without extra-thyroidal extension or clinical evidence of lymph node metastasis.
- 7. Contralateral lobe is ideally free of nodules on ultrasound. If any nodules in contralateral lobe, evaluate US malignancy risk characteristics, consider FNAB or change to total thyroidectomy.

Post-lobectomy evaluation:

- 1. Detailed review of surgical pathology report (second opinion by thyroid pathology group prn) and intra-operative findings.
- 2. Patient must meet <u>all the criteria</u> post-op to classify as ATA Low risk of recurrence. Patients who are classified as ATA Intermediate or ATA High risk of recurrence should have a completion thyroidectomy to allow the possibility for treatment with radioactive iodine, when indicated.
- Patients who have persistent high titer anti-Tg antibodies may merit <u>consideration</u> for a completion thyroidectomy <u>only</u> if the clinician feels that the ability to do nuclear medicine imaging or radioiodine treatment may provide better follow-up care or reassurance for the patient.

Surveillance recommendations post-lobectomy:

- 1. Target TSH as per recurrence risk category and re-adjust with response to therapy.
- 2. Detailed thyroid/neck ultrasound at 6-12 months post-op and then annually.
- 3. At 6-12 months post-op: Apply dynamic re-staging using the response to therapy criteria.
- 4. Duration and intensity of specialist surveillance to be invidualized given lack of data.

