















Well Differentiated Thyroid Cancer

2015 ATA guidelines, Recommendation 35B:

For patients with thyroid cancer >1 cm and <4 cm without extrathyroidal extension, and without clinical evidence of any lymph node metastases (cN0), the initial surgical procedure can be either a bilateral procedure (near-total or total thyroidectomy) or a unilateral procedure (lobectomy). Thyroid lobectomy alone may be sufficient initial treatment for low-risk papillary and follicular carcinomas; however, the treatment team may choose total thyroidectomy to enable RAI therapy or to enhance follow-up based upon disease features and/or patient preferences.



Well Differentiated Thyroid Cancer

2015 ATA guidelines, Recommendation 35C:

If surgery is chosen for patients with thyroid cancer <1 cm without extrathyroidal extension and cN0, the initial surgical procedure should be a thyroid lobectomy unless there are clear indications to remove the contralateral lobe. Thyroid lobectomy alone is sufficient treatment for small, unifocal, intrathyroidal carcinomas in the absence of prior head and neck radiation, familial thyroid carcinoma, or clinically detectable cervical nodal metastases.



















4 Steps To Improve Thyroid Surgery Outcomes Select appropriate extent of surgery Find the RLN in a thoughtful manner Avoid (naive) bilateral RLN injury



















Parathyroid glands demonstrate higher near infrared autofluorescence compared to adjacent structures
Endogenous fluorophore not yet identified in parathyroid glands

Could be calcium sensing receptor

Probe based and camera based systems now available to assess autofluorescence















