

Multidisciplinary Pediatric Endocrine Surgery (MPES) Clinic Patients

Thyroid Nodule Work-up

Pre-op evaluation

Labs

TSH, Free T4, TPO antibodies

If TSH is low -> RAI scan

If nodule is "hot" -> lobectomy

US

Cystic – F/U with PCP or Endocrinologist

Solid ≥ 1 cm diameter -> FNA

< 1 cm diameter -> F/U US in 6 months

< 1 cm diameter with suspicious features -> FNA

Suspicious features include: microcalcifications, increased vascularity, taller than wide, irregular borders, extra thyroidal extension

Other: family history of thyroid cancer (first degree relative), history of radiation to the neck, Syndrome with increased risk of thyroid cancer (PTEN, DICER1 syndrome, Carney Complex, APC associated polyposis, etc.)

FNA

Performed by interventional radiology with ultrasound guidance and sedation as needed with pathologist present to ensure adequate tissue

Bathesda Classification -> Action

I	Non-diagnostic	Re-do FNA after 3 months
II	Benign	F/U US in 6 months
III	AUS/FLUS*	Thyroid lobectomy
IV	Follicular Neoplasm	Thyroid lobectomy
V	Suspicious for Malignancy	Thyroid lobectomy with frozen section possible total thyroidectomy with central lymph node dissection
VI	Papillary Thyroid Cancer	Total thyroidectomy with central neck lymph node dissection

*Atypia of undetermined significance, Follicular lesion of undetermined significance

Operating Room

Recurrent laryngeal nerve monitoring

ETT size < 6.0 use stick-on electrodes

Parathyroid management

Confirm identity with small frozen section if necessary

Devascularized glands minced up and implanted in ipsilateral sternocleidomastoid muscle, or forearm

Near infrared camera if available