**INDICATIONS FOR TESTING**
Patient presents with a palpable nodule in the thyroid gland, enlarged thyroid or abnormal cervical nodes

**PERFORM**
Thyroid ultrasound (US)

**AND ORDER**
Thyroid Stimulating Hormone

**RECOMMEND FNA:**
- Nodules >1 cm with high or intermediate suspicion sonographic pattern on US
- Nodules >1.5 cm with low suspicion sonographic pattern on US

**CONSIDER FNA:**
Nodules >2 cm with very low suspicion sonographic pattern on US

Bethesda System for Reporting Thyroid Cytopathology (2009)

**Normal or high TSH**
-家族史 of thyroid malignancy

**ORDER**
- Calcitonin
- Cytology, Fine Needle Aspirate (FNA)
- Genetic testing

If medullary subtype in family, consider MEN testing

**Lower risk nodule**
- Low TSH

- Radionucleide scan

**Nondiagnostic/unsatisfactory**
- Repeat FNA with US guidance

**Benign**
- Very low suspicion on US
- Low to intermediate suspicion on US
- High suspicion on US

**Repeat US, FNA within 12 mos**
- Repeat US, FNA at 12-24 mos
- Repeat FNA >24 mos or no repeat necessary

**Malignant**
- Suspicious for malignancy (SUSP)
- Atypia/follicular lesion of undetermined significance (AUS/FLUS)

**Surgery OR US high or intermediate suspicion for malignancy**

**Mutation analysis if data will alter surgical decision**

**Mutation present**
- Yes
- No

**Suspicion high or intermediate for malignancy**
- Yes
- No

**Surveillance**

**No further testing necessary**

**Indeterminate pathology**

- Follicular neoplasm (FN)/suspicious for FN

- CONSIDER Thyroid Mutation Testing

- Mutation present
  - Yes
  - No

- Surveillance

**Very low suspicion**
- Spongiform or partially cystic nodule without any of the characteristics from high, intermediate, or low categories

**High suspicion**
- Solid hypoechoic nodule; solid hypoechoic component in a partially cystic nodule with one or more of the following: irregular margins, microcalcifications, extrathyroidal extension, disrupted rim calcifications, or taller than wider shape

**Intermediate suspicion**
- Hypoechoic solid nodule with smooth regular margins without microcalcifications; extrathyroidal extension; taller than wider shape

**Low suspicion**
- Isoechoic or hyperechoic; solid nodule; partially cystic nodule; no risk factors noted in high suspicion (eg, taller than wider)

**Very low suspicion**
- Spongiform or partially cystic nodule without any of the characteristics from high, intermediate, or low categories

**Click here for topics associated with this algorithm**

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