Referral Possibilities for Patients with Indeterminate FNA Cytology and Additional ThyroSPEC™ Testing

Low Malignancy Risk Molecular Findings

- **Non-BRAF-Non-RAS-like Mutations**¹: Bethesda III (AUS/FLUS) – post-test >15% risk of malignancy; Bethesda IV (FN/SFN) – post-test >38% risk of malignancy
- **RAS-like Mutations**¹,³: Bethesda III (AUS/FLUS) – post-test 73% risk of malignancy⁴; Bethesda IV (FN/SFN) – post-test 44% risk of malignancy⁴

High Malignancy Risk Molecular Findings

- **BRAF-like Mutations**¹,³: indicate a malignant tumour (>90% risk of malignancy)
- **High-Risk Mutations**⁵: indicate a malignant tumour with poor prognosis (100% risk of malignancy)
- **RET Mutations**

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¹ Yoo SK et al., 2016 PLOS Genetics, 12(8):e1006239
² Ye L et al., 2017, Nature Communications, 8:15533. doi: 10.1038/ncomms15533.
⁴ Stewardson P et al., American Thyroid Association Annual Meeting in Chicago, IL, November 2019
⁵ Ricarte-Filho JC et al., 2009, Cancer Research, 69(11):4885-93