

## ANAPLASTIC CARCINOMA, THYROID

DESCRIPTION: Section from thyroid shows an infiltrative spindle cell tumor with pleomorphic hyperchromatic nuclei admixed with tumor giant cells and foci of squamoid differentiation. Numerous mitoses are present. Lymphovascular invasion is present.

DIAGNOSIS: spindle cell tumor, favour anaplastic carcinoma thyroid.

WORK UP:

1 Immunopanel to resolve differentials

	TTF-1	Thyroglobulin	Calcitonin	P53	Actin/CD34	S100
Anaplastic CA Thyroid	-	-	-	+	-	-
Medullary CA	-	-	+	-	-	-
Primary sarcoma of thyroid	-	-	-	-	variable	-
Melanoma (spindle cell variant)	-	-	-	-	-	+

(2) Discuss at Head and Neck MDT.

(3) Association with syndromes - Cowden - Carney  
- Werner - FAP

(4) Mutation studies for TP53, BRAF, KRAS, β catenin

(5) Prognosis is poor