BIPHASIC SYNOVIAL SARCOMA

Description : Section shows a biphasic tumor composed of malignant epithelial (tubulo - alveolar structures) and spindle cell elements (monomorphic hypercellular spindle cells with pleomorphic nuclei) in varying proportions.

Diagnosis : Biphasic malignant tumor, favour biphasic synovial sarcoma

Additional work

(1) IHC

	TFE-3	EMA	BCl 2	Calretinin
Synovial Sarcoma	+	+	+	-
Biphasic mesothelioma	-	-	-	+

(2) Discuss at MDT meeting

(3) Send material for molecular study : t(X, 18) SSX - SYT

(4) Send for expert opinion

GRANULOMA ANNULARE

Description: Section from skin shows dermal granulomas composed of necrobiotic collagen centre surrounded by palisade of histiocytes, foreign body giant cells and lymphocytes. No evidence of malignancy.

Diagnosis: Granulomatous dermatitis

Differentials: (1) Granuloma annulare (favour)
(2) Rheumatoid nodule
(3) Necrobiosis lipoidica

Additional work

(1) special stains: ZN (mycobacteria)
PAS (Fungi)
Alcian blue (mucin)
(2) Serology: Rheumatoid factor
(3) Culture
(4) PCR.
(5) Additional sections to look for necrobiotic collagen

Description: Sections from bowel show a tubular adenoma with low grade dysplasia. The background bowel shows mild radiation induced changes. No high grade dysplasia or invasive malignancy noted.

Diagnosis: Radiation induced changes and tubular adenoma with low grade dysplasia.

Additional work:

(1) Check the lab system for previous known malignancy

(2) Discuss at MDT and ask for history of radiation exposure

(3) Clinico - Radiological correlation is required.

CARCINOSARCOMA

Description: Pepelle endometrial biopsy shows a biphasic tumor composed of malignant epithelioid (endometrioid type) and stromal component. There is frequent mitosis and interspersed areas of necrosis.

Diagnosis: Carcinosarcoma, uterus

Additional Work up:

(1) Confirmatory immunostains CK ⊕
Vimentin ⊕
EMA ⊖/⊕
β Catenin ⊖
P53 ⊕/⊖

(2) Discuss at MDT for clinico-radiologic correlation
(3) Correlate with serum markers CA125 and CEA
(4) Send for expert opinion

Comment:

(1) Highly aggressive with poor prognosis.
(2) May be associated with prior radiation exposure.