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60 YEAR OLD MALE. CLINICAL INFORMATION ON REFERRING REPORT: 'ABSCESS ABDO ?MM.' THIS SPECIMEN: REVIEW OF OUTSIDE HISTOLOGY OF PRESUMED EXCISION OF ABDOMINAL WALL FROM MAY 2020, PREVIOUSLY REPORTED Dr RAJGURU: CONSISTENT WITH UNDIFFERENTIATED PLEOMORPHIC SARCOMA, GRADE 3.  
No previous RMH histology

#### MACROSCOPY

The macroscopic description from the referring hospital was as follows: ?abscess abdo ?MM: A large portion of skin with underlying subcutaneous tissue, measuring 45x35 to depth of up to 25mm. There is a pale grey raised nodule with grey tan crusty center on the surface centrally. Measuring 35x30 and with a height of up to 15mm. Upon slicing, a cyst-like area, partly filled with pale grey and red-brown soft tissue is identified. A1) large block transverse A2-3) small block transverse A4-6) Cruciates. RS.

#### HISTOLOGY

The features are as previously described by Dr Rajguru, and show skin and subcutis, with dermis and subcutis containing ill-defined cellular tumor, composed of markedly atypical ovoid to more spindled cells with ovoid vesicular nuclei, frequent prominent nucleoli, and relatively abundant pale eosinophilic cytoplasm. Bizarre and multinucleate forms are present. The mitotic index exceeds 20/10hpf, with numerous atypical forms. There are abundant intermingled osteoclast-like giant cells. In areas there is surrounding hemorrhage, and there are areas of prominent cavity formation, with these lined by histiocytes or tumor cells. No morphologic epithelial differentiation is identified. No tumoral osteoid is noted.

The referring report describes the tumor to be diffusely positive for SMA and CD10, with CD68 positive in giant cells. CD45, desmin, S100 protein, and EMA are described to be focally expressed in some of the pleomorphic and multinucleate cells. MNF116, h-caldesmon, HMB45, MelanA, and Factor 8 related antigen are described to be negative. At RMH, the tumor shows focal moderate to strong SMA expression, with focal strong desmin positivity. The tumor is negative for myogenin, CD34, STAT6, MUC4, SOX10, S100 protein (positive in occasional histiocytic cells and possible dendritic cells only), AE1/AE3, CD45, CD20 and CD3.

The features are consistent with pleomorphic sarcoma with osteoclast-like giant cells. The referring report describes the depth of the lesion to be 22mm extending into the subcutaneous fat. The nearest lateral margin is described to be involved, and the nearest deep margin is 0.8mm.

Dr Magnus Hallin/Dr Khin Thway

T: soft tissue t abdominal wall m MFH m giant cell sarcoma

Prof Bakal study 2