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76 YEAR OLD MALE. CORE BIOPSY FROM LEFT BACK MASS, JAN 2020: FEATURES CONSISTENT WITH UNDIFFERENTIATED PLEOMORPHIC SARCOMA, GRADE 3. THIS SPECIMEN: EXCISION OF SARCOMA OVER LEFT LATISSIMUS DORSI OF THE BACK

#### MACROSCOPY

Sarcoma, left back latissimus dorsi, single stitch cranial; double medial: Pot contains an orientated elliptic excision specimen measuring 76 (cranial to caudal) x 145 (medial to lateral) 46mm (superficial to deep). There is an ellipse of skin which is unremarkable and measures 164 x 42mm on the superficial surface. The sutures are single cranial; double medial. Specimen has been inked: cranial blue; caudal green; medial orange; lateral red and deep black. Specimen has been serially sliced from medial to lateral revealing a circumscribed heterogenous cream/haemorrhagic/?myxoid tumour measuring 72 (medial to lateral) x 70 (cranial to caudal) x 34mm (superficial to deep). Tumour lies 2mm from cranial; 1mm from caudal; 1mm from superficial; 2mm from deep; 23mm from medial and 54mm from lateral. Necrosis is approximately 5-10%. There is no obvious macroscopic breach of surgical resection margins. Blocks: 1) medial resection margin cruciate; 2) lateral resection margin cruciate; 3) tumour to cranial margin; 4) tumour to caudal margin; 5) tumour to superficial; 6) tumour to deep margin; 7&8) representative section of tumour. Tissue and tumour remains.

#### HISTOLOGY

Sections show skin and subcutis, with skeletal muscle deeply. The subcutaneous tissue contains relatively focally demarcated but infiltrative tumour with similar features to those previously described in the core biopsy, and composed of loose fascicles of moderately to markedly atypical cells with ovoid vesicular nuclei, prominent nucleoli and moderate amounts of amphophilic cytoplasm. The mitotic index focally exceeds 20/10hpf, with atypical forms. Small foci of necrosis are present. Focally (slide 5), as described in the core biopsy, there is a more reticulated distribution of similar tumour cells with myxoid stroma, giving a lumen-like appearance in areas, but no definite glandular formations or other morphologic epithelial differentiation is identified is noted.

The features are consistent with pleomorphic sarcoma, grade 3. The tumour is seen to abut the skeletal muscle, and focal infiltration is present (slide 4). The tumour is 2mm from the deep margin, separated by skeletal muscle, 2.5mm from the cranial margin, the tumour is present at the caudal margin at the deeper aspect, however, more superficially it is approximately 2mm from the margin, at least 18mm from the medial margin, 22mm from the lateral margin,

Dr Magnus Hallin/Dr Khin Thway

T: soft tissue t back m MFH

**Do CD21/35 on 5 (does not look like fdcs)**