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48 YEAR OLD FEMALE. CORE BIOPSY FROM RIGHT ANTERIOR THIGH MASS IN NOV 19: MARKEDLY INFARCTED/ NECROTIC DIFFERENTIATED ADIPOSE TISSUE, WITH A SMALL, MODERATELY ATYPICAL SPINDLE CELL FIBROBLAST-LIKE COMPONENT. THIS COULD REPRESENT WELL-DIFFERENTIATED LIPOSARCOMA WITH A COMPONENT OF DEDIFFERENTIATED LIPOSARCOMA, BUT IT WAS DIFFICULT TO BE SURE DUE TO THE SMALL AMOUNT OF SPINDLE CELL COMPONENT PRESENT. FISH SHOWED MDM2 AMPLIFICATION. NOW EXCISION OF RIGHT LATERAL THIGH LIPOMATOUS TUMOUR. MRI: 21 X 11.5 X 8.5 CM COMPLEX FATTY MASS ARISING FROM THE JUNCTION OF THE RECTUS FEMORIS AND VASTUS LATERALIS MUSCULATURE IN THE ANTEROLATERAL RIGHT THIGH, PRINCIPALLY FATTY ATTENUATION, BUT WITH SIGNIFICANT AREAS OF MIXED ATTENUATION WITH SEPTATIONS, STRIATIONS AND NODULAR FOCI WHICH SHOW ENHANCEMENT FOLLOWING INTRAVENOUS GADOLINIUM. THE MASS IS WELL CIRCUMSCRIBED AND THE LOWER RIGHT HEMI PELVIS IS NORMAL. RADIOLOGIC OPINION: PRESUMED LIPOSARCOMA OF RIGHT ANTERIOR THIGH. THIS SPECIMEN: EXCISION OF RIGHT ANTERIOR THIGH MASS.

MACROSCOPY

HISTOLOGY

Sections show a differentiated adipocytic tumour with focal thin pseudoencapsulation with moderate areas of sparsely cellular fibrous septa as well as focal fat necrosis and patchy chronic inflammation, with surrounding fibrosis and focal mild possible calcification, with these changes possibly representing those secondary to previous trauma. Sheets of foamy histiocytes are also noted in areas, with occasional osteoclast-like giant cells and some surrounding granulation tissue. Only focal mild cellular atypia is seen within septa (slides 8-9). No mitotic activity or tumour necrosis is noted.

MDM2 was shown to be amplified on FISH on the previous biopsy (), and the features are in keeping with lipoma-like atypical lipomatous tumour. Although there is some septal expansion, with atypical tumour nuclei, no definite features of dedifferentiation are noted, and the expanded septal foci are interpreted as sclerosing atypical lipomatous tumour. Differentiated adipose tissue extends to the inked peripheral margin.

Dr Magnus Hallin/Dr Khin Thway

T: soft tissue t thigh m atypical lipoma