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69 YEAR OLD MALE, WHO PRESENTED WITH WEIGHT LOSS AND LOW HEMOGLOBIN, AND AN EPISODE OF RECTAL BLEEDING. CT SHOWED A LARGE RETROPERITONEAL MASS CLOSELY RELATED TO KIDNEY (KIDNEY ITSELF NORMAL). THE LESION APPEARANCE OF A DE-DIFFERENTIATED LIPOSARCOMA, WITH AREAS OF WELL-DIFFERENTIATED FAT ON THE PERIPHERY. CT AND MRI: 15.8 X 14.6 X 12.5 MASS ON THE RIGHT LATERAL MARGIN OF THE IVC, WITH SOME EXPANSILE FAT DENSITY TISSUE ALONG THE MEDIAL MARGIN. THE IVC IS DISPLACED BUT NO EVIDENCE OF INTRALUMINAL EXTENSION. THE TUMOR IS ANTERIOR TO THE KIDNEY, BUT DOES NOT APPEAR TO ARISE FROM IT. THE RIGHT RENAL VEIN IS STRETCHED ALONG THE POSTERIOR MARGIN OF THE MASS. THE TUMOR IS INFERIOR TO THE ADRENAL AND LIVER, AND IN CONTACT WITH TH HEAD OF PANCREAS AND PARTS OF THE DUODENUM AND TRANSVERSE COLON. THERE IS NO EVIDENCE OF METASTATIC DISEASE TO THE THORAX. RADIOLOGIC OPINION: LARGE RIGHT RETROPERITONEAL MASS, MOST LIKELY REPRESENTING DEDIFFERENTIATED LIPOSARCOMA. IT IS POSSIBLE THAT IT COULD BE ARISING FROM THE ADRENAL BUT THIS IS LESS LIKELY. NO PREVIOUS RMH HISTOLOGY

MACROSCOPY

Retroperitoneal mass right liposarcoma: 5 cores of grey tissue measuring 11 to 23mm. 1-5) AE.

HISTOLOGY

Cores of focally necrotic moderately cellular tumor, composed of loose fascicles of moderately to markedly atypical cells spindle cells with ovoid to elongated nuclei, often hyperchromatic, and fibrillary cytoplasm in variably collagenous stroma. There are small amounts of adjacent fibroadipose tissue, with adipose tissue of mature type, and mild patchy chronic inflammatory infiltrate. Occasional multinucleate tumor cells are present. The mitotic index is up to 7/10hpf, with occasional atypical forms.

The tumor is diffusely and strongly positive for p16 and CDK4, with strong multifocal CD34. Desmin is largely negative, with only possible very scant tumor cells staining. The tumor is negative for S100 protein, SOX10, SMA, myogenin, h-caldesmon, DOG1, CD117, STAT6, MUC4 and AE1/AE3. The proliferation fraction by MIB1 is high.

The features are consistent with spindle cell sarcoma NOS, with the site and immunophenotype highly suggestive of dedifferentiated liposarcoma, grade 2 in this material.

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T: soft tissue t retroperitoneum M spindle cell sarcoma m dedifferentiated liposarcoma

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