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75 YEAR OLD MALE. CORE BIOPSY FROM RIGHT POSTERIOR THIGH MASS IN FEB 2020:
PLEOMORPHIC LIPOSARCOMA, GRADE 2-3 ON BIOPSY (2514/20). PRE-OPERATIVE
RADIOTHERAPY 50GY 25#. POST-RT IMAGING: MARGINAL INCREASE IN SIZE OF THE
RIGHT POSTERIOR THIGH SOFT TISSUE MASS WITH INCREASE IN CENTRAL CYSTIC
CHANGE/ NECROSIS, SUGGESTING A FAVORABLE RESPONSE TO RADIOTHERAPY.
NEW LIVER METASTASES. THIS SPECIMEN: RESECTION OF SARCOMA, RIGHT HAMSTRING
(PRE-OPERATIVE RADIOTHERAPY)

MACROSCOPY

Sarcoma right hamstring: an unorientated elongated resection specimen measuring 163x94x85mm. The outer surface is entirely covered in skeletal muscle. The resection margins have been inked black. Specimen is serially sliced across the short axis revealing a well circumscribed heterogeneous cream/ necrotic tumor mass measuring 93x68x82mm. The mass abuts the peripheral surgical resection margin and lies 27mm from closest to end. Necrosis is approximately 80%. Blocks 1) Cruciate of closest end. 2) Cruciate of opposite end. 3-5) Representative sections of tumor to surgical resection margin. 6-8) Further representative sections of tumor. Tissue and tumor remains.

HISTOLOGY

Sections show fibroadipose tissue and skeletal muscle enclosing viable, cellular tumor with features similar to those described in the previous biopsy (2514/20), and composed of sheets of markedly atypical ovoid, polygonal and spindle cells including numerous multivacuolated pleomorphic lipoblasts. The mitotic index is up to 16/10hpf with numerous atypical forms, and there is prominent surrounding fibrinoid material and necrosis, including focal tumor necrosis.

The features are consistent with viable pleomorphic liposarcoma. Extensive tumor necrosis was noted in the core biopsy; some of the surrounding changes in this current specimen might represent those secondary to radiotherapy, but an estimate of post-treatment change cannot be made. Viable tumor is estimated to account for approximately at least 25% of the tumor area. The tumor is focally approximately 1mm from the circumferential/ peripheral margin, being separated from it by fibrous tissue. Viable tumor is at least 14mm from the nearest longitudinal margin.

Dr Khin Thway

T: soft tissue t thigh m pleomorphic liposarcoma