

Barry Ayton 3238/20 741615 :,Mr

43 YEAR OLD MALE. CORE BIOPSY FROM MASS ON BACK, CLINICALLY ?SARCOMA. THE PATIENT WORKS IN THE BUILDING TRADE AND BANGED HIS BACK IN 2014, NOTICING A LUMP AT THAT STAGE. SINCE THEN IT HAS GROWN, AND HE NOTICED IT AGAIN WHEN HE WAS POSSIBLY HIT BY A CAR, AFTER WHICH IT PROGRESSIVELY ENLARGED. IT IS RAISED BY ABOUT 2 X 4 X 4 CM WITH REDNESS AND APPEARS MULTILOBULATED, AND SOLID ON BIOPSY. CLINICALLY, THIS IS OF UNCERTAIN NATURE AND MAY JUST BE A CALCIFIED CYST, OR A SKIN LESION POSSIBLY DFSP. THE PATIENT IS OTHERWISE QUITE WELL, WITH NO MAJOR MEDICAL PROBLEMS. RMH MRI REVIEW: SUPERFICIAL, WELL DEFINED, 42 X 36 X 12 MM ENHANCING OVAL NODULE IMMEDIATELY DEEP TO SKIN IN THE SUBCUTANEOUS TISSUES, WITH NONSPECIFIC IMAGING APPEARANCES. NO PREVIOUS RMH HISTOLOGY

MACROSCOPY

Back biopsy: 4 cores ranging from 13-15mm 1-4) AE

HISTOLOGY

Cores comprising small amounts of fibrous tissue, with cellular tumor, composed of loose fascicles of cells with elongated vesicular nuclei, with atypia ranging from largely relatively minimal, to focally mild and very occasionally moderate. Focally the tumor is seen to infiltrate small amounts of fat, and is present around preserved adnexal structures. No definite storiform architecture is identified. The mitotic index is up to 3/4/10hpf without atypical forms, and no necrosis is seen.

The tumor is diffusely and strongly positive for CD34, with no loss of expression noted. There is multifocal h-caldesmon positivity, although this marker is often aberrantly overexpressed in this laboratory. The tumor is negative for STAT6, ERG, desmin, myogenin, SMA, SOX10, S100 protein, MUC4 and AE1/AE3. The proliferation fraction by MIB1 is moderate to focally moderate-high.

This is a fascicular spindle cell neoplasm with diffuse CD34 expression. Although conclusive storiform architecture is not seen, the features suggest a dermatofibrosarcoma variant, perhaps incipient fibrosarcomatous change in dermatofibrosarcoma protuberans.

Dr Khin Thway

T: soft tissue t back m DFSP m morphological description only