

ROYAL MARSDEN NHS FOUNDATION TRUST - HISTOPATHOLOGY REPORT  
H28501: ~~0585/20~~ - NHS Number: ~~000000000~~

Lab No	0585/20	Reported	23 Jan 2020	Pathologist	DR HALLIN/DR THWAY
Source		Sample			
		Referral Received	14 Jan 2020	Ward	
Other Hospital				Other Hospital	
Sex	MALE	Age	77	Number	
Clinical				Branch	FULHAM ROAD
Diagnosis		Operation		Consultant	THWAY, DR K K Y

**SITE**

A SOFT TISSUE AND OTHER CONNECTIVE TISSUE ( T1X005 )  
B PROSTATE ( T77100 )

**DIAGNOSIS**

LEIOMYOSARCOMA (Malignant) ( M88903 )  
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77 YEAR OLD MALE, WITH RECENT UNINTENTIONAL WEIGHT LOSS. FAILED TWOC FOLLOWING TURP 2019, REDO TURP. THIS SPECIMEN: 3 GRAMS, PROSTATE CHIPS, FROM DEC 2019. PREVIOUSLY REPORTED BY DR SIDDIQUI. NO PREVIOUS RMH HISTOLOGY. (CASE PASSED TO SARCOMA TEAM FROM UROPATHOLOGISTS)

**MACROSCOPY**

Received from East Surrey Hospital; 1 blocks 7 s/s ref 30182/19.

**HISTOLOGY**

The features are as previously described by Dr Siddiqui, and show fibrous tissue and cellular tumour, composed of moderately to markedly atypical cells with ovoid vesicular nuclei and relatively abundant eosinophilic cytoplasm. The mitotic index is up to 8/10hpf with atypical forms. Acute inflamed ulcer slough is present, as well as areas of likely necrosis. No definite overlying epithelium is noted, and no morphologic epithelial differentiation is identified.

Immunohistochemistry from the referring institution shows the tumour to be diffusely and strongly positive for desmin, and focally strongly positive for SMA. The tumour is negative for AE1/AE3 (only very weak aberrant-appearing focal expression seen in viable tumour cells) and S100 protein. The proliferation fraction by MIB1 is high. At RMH, the tumour is diffusely and strongly positive for p16, h- caldesmon, and desmin, with focal moderate EMA expression. There is strong multifocal SMA expression, and strong expression of androgen receptor in approximately 30% of tumour nuclei. The tumour is negative for S100 protein, MelanA, HMB45, myogenin, ERG, CDK4, CD117, DOG1, AE1/AE3, CD34, CAM5.2, CD10, ER and PgR.

The features are consistent with leiomyosarcoma, grade 2 in this material.

Dr Magnus Hallin/Dr Khin Thway