

ROYAL MARSDEN NHS FOUNDATION TRUST - HISTOPATHOLOGY REPORT
529889: O'DONNELL, LADY MARIA ANTONIA - NHS Number: 444 584 0491

Lab No	2399/20	Reported	6 Mar 2020	Pathologist	DR THWAY
Source	Internal Operation	Sample Received	20 Feb 2020	Ward	CRITICAL CARE UNIT (CHELSEA)
Sex	FEMALE	Age	71	Branch	FULHAM ROAD
Clinical Diagnosis		Operation	19 Feb 2020	Consultant	STRAUSS, MR D C

SITE	DIAGNOSIS
A TISSUE (T1X005)	MORPHOLOGIC DESCRIPTION ONLY / LEIOMYOSARCOMA (Malignant) (M09350 / M88903)
B STOMACH (T63000)	MORPHOLOGIC DESCRIPTION ONLY / LEIOMYOSARCOMA (Malignant) (M09350 / M88903)

71 YEAR OLD FEMALE, WITH PREVIOUS TAH FOR UTERINE LEIOMYOSARCOMA, GRADE 2, IN 2007 (REVIEWED BY PROF CYRIL FISHER AT RMH, 10963/08 AND PREVIOUSLY REPORTED AT MAYO CLINIC). ALSO EXCISION OF LEFT THIGH ADDUCTOR COMPARTMENT SARCOMA IN FEB 2017 (VERY FOCALLY POSITIVE FOR H-CALDESMON, AND NEGATIVE FOR DESMIN, SMA AND OTHER MARKERS (11648/16; 2007/17); REPORTED AS SPINDLE CELL SARCOMA, GRADE 3, POSSIBLY METASTATIC, BUT WITHOUT CONCLUSIVE IMMUNOPHENOTYPE; LEFT THIGH NEOPLASM COMPLETELY EXCISED, WITH VERY GOOD RESPONSE TO RADIOTHERAPY. THIS SPECIMEN: LAPAROSCOPIC RESECTION OF GASTRIC LEIOMYOSARCOMA, CORE BIOPSY NOT REVIEWED HERE, BUT PREVIOUSLY REPORTED AT HCA HEALTHCARE (DR DEERE); LEIOMYOSARCOMA, GRADE 2 (POSITIVE FOR DESMIN AND SMA, AND NEGATIVE FOR CD117, DOG1 AND S100 PROTEIN)

MACROSCOPY

Leiomyosarcoma, gastric: pot contains an unorientated opened resection of gastric mucosa which measures 58 x 43 x 15mm. There is an opened staple line which measures 52mm in length. The gastric mucosa appears thickened centrally with a prominent cream firm nodule present on the deep serosal surface. The peripheral resection margins have been inked red and the deep serosal margin black. The specimen has been serially sliced revealing an irregular cream homogenous tumor nodule measuring 23 x 19 x 20mm. The nodule lies 7mm from the closest peripheral resection margin. There is possible central necrosis within the tumor approximating 5-10%. Blocks: 1-4) tumor to peripheral resection margin; 5-8) representative section. nor. Tissue and tumor remain.

HISTOLOGY

Sections show gastric muscularis propria containing a nodular, maximally 23mm tumor composed of intersecting fascicles of moderately to markedly atypical spindle cells with elongated hyperchromatic or vesicular nuclei and eosinophilic cytoplasm, with mitoses exceeding 20/10hpf with atypical forms, and focal necrosis. The tumor is seen to focally ulcerate the gastric mucosa, and in one area appears to just penetrate through the muscularis propria into surrounding fibrous tissue, without serosal breach. The gastric mucosa shows focal mild to moderate chronic inflammation with some lymphoid aggregates, but no definite dysplasia or other significant pathology is noted within it.

The immunoprofile from the previous biopsy is noted, and the morphology is in keeping with leiomyosarcoma, grade 3. The TAH specimen from 2007 is not available for comparison, and this current gastric specimen could represent metastatic disease, or a new primary neoplasm (ER and PgR to follow). The tumor is focally <0.5mm from the inked serosal surface (slide 7) without serosal breach, and at least 7.5mm from the nearest peripheral margin.

Dr Khin Thway