

Angela Dunn 295 20 731349

74 YEAR OLD FEMALE With 56x20mm submucosal antral mass arising from muscle layer. Previous gastric antral biopsy: SPINDLE CELL TUMOUR, POSITIVE FOR CD34 and CD117 but negative for DOG1, SMA, desmin, S100 and cytokeratin, With features most suggestive of gastrointestinal tumour (13934/19); no mutational analysis as yet. This specimen: distal gastrectomy for GIST.

#### MACROSCOPY

Distal stomach: Pot contains a portion of distal stomach with two stapled resection margins and attached fatty tissue. Stomach measures 82 x 60 x 47mm. Small stapled resection margin is 32mm in length, larger stapled resection margin is 54mm in length. Attached fatty tissue measures 120 x 50 x 23mm. On opening, the stapled resection margins there is an obvious multilobulated firm tumour underlying the gastric mucosa, this measures 50 x 40 x 33mm. Tumour lies 13mm from the small staple resection margin and 18mm from the longer stapled resection margin. On slicing the cut surface of the tumour is irregular with partial whorled appearance. Tumour largely homogenous with some focal protrusion stretching the outer serosa, however this does not appear to breach the serosa macroscopically. No necrosis seen. On slicing, of the attached fatty tissue there are seven possible lymph nodes identified, these range from 6-14mm in diameter. Blocks: 1) Short stapled resection margin; 2&3) Larger stapled resection margin; 4-7) Representative sections of tumour; 8) Five lymph nodes embedded whole; 9) Representative section of one lymph; 10) Representative section of one lymph node. Tissue and tumour remains.

#### HISTOLOGY

Sections show gastric muscularis propria, expanded by nodular, multilobulated cellular tumour, composed of loose fascicles of essentially uniform, minimally to mildly atypical cells with elongated vesicular nuclei and relatively abundant eosinophilic cytoplasm. The tumour abuts the muscularis mucosa in areas, but no definite mucosal infiltration or ulceration is noted. The mitotic index is up to 3-4/5mm<sup>2</sup>. No necrosis is seen. The tumour appears to penetrate the muscularis propria focally, but remains subserosal.

The features are in keeping with spindle cell gastrointestinal stromal tumour. The size and mitotic index indicate placement in the very low-risk category (1.9%). **Mutational analysis is awaited**, with a further report to follow. Both the short stapled and larger stapled resection margins are free of tumour, and show unremarkable gastric mucosa, and no significant pathology. No metastatic tumour or other significant pathology is noted in seven lymph nodes (0/7).

Dr Magnus Hallin/Dr Khin Thway

T: soft tissue t stomach m GIST, malignant