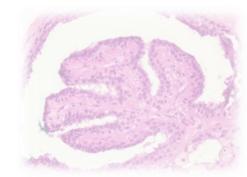
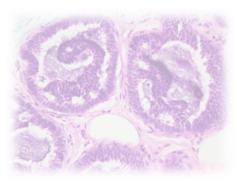


Case 13

50 year old Chinese female. Left breast mastectomy for a 20cm mass.

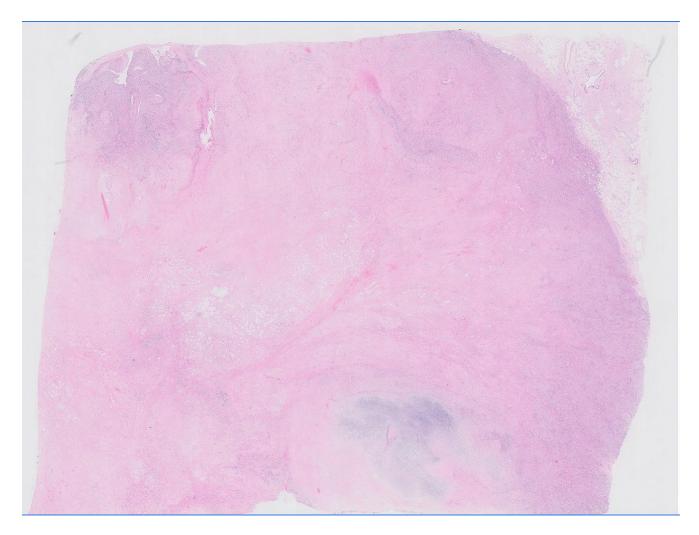








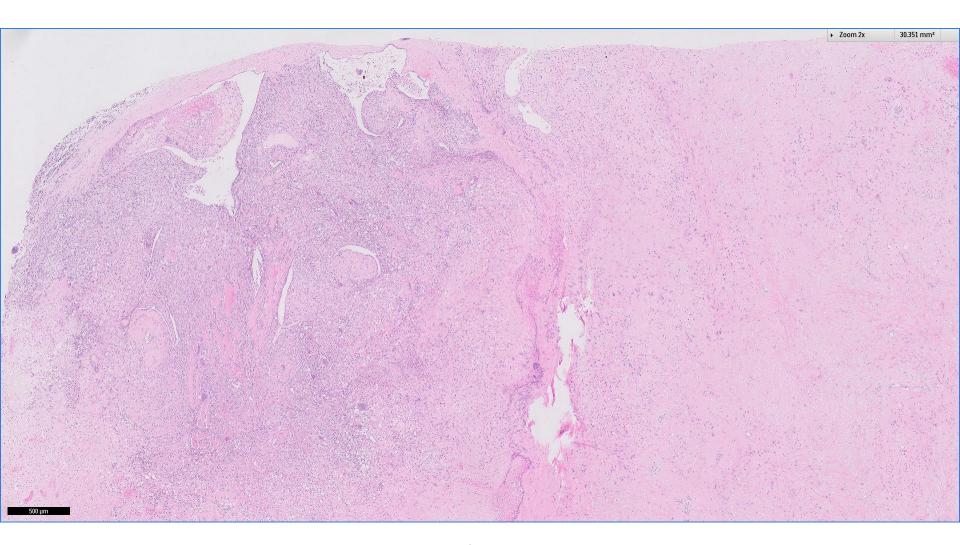








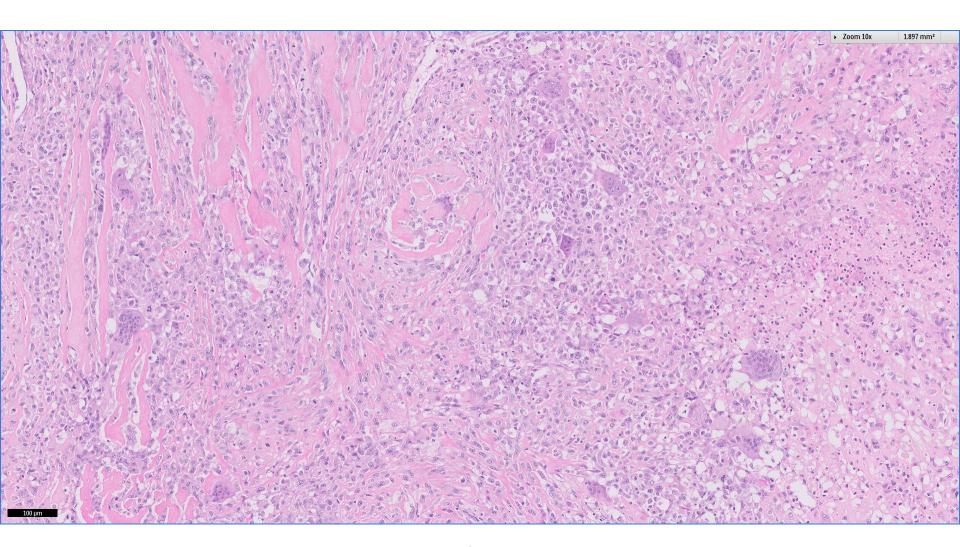








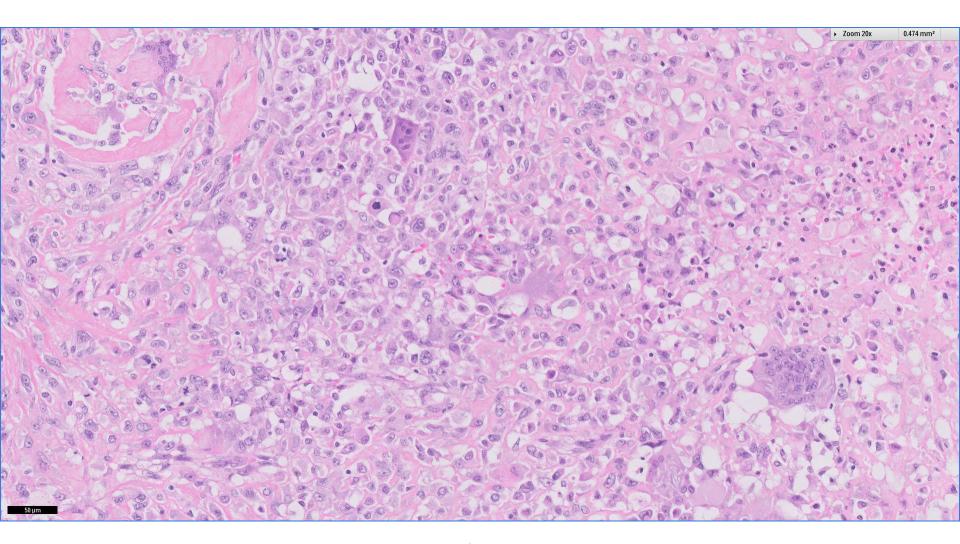








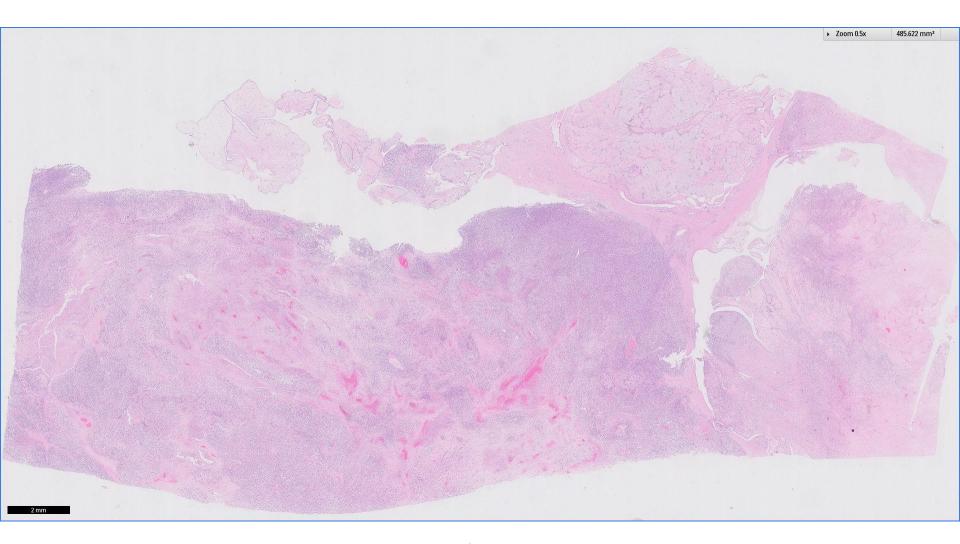








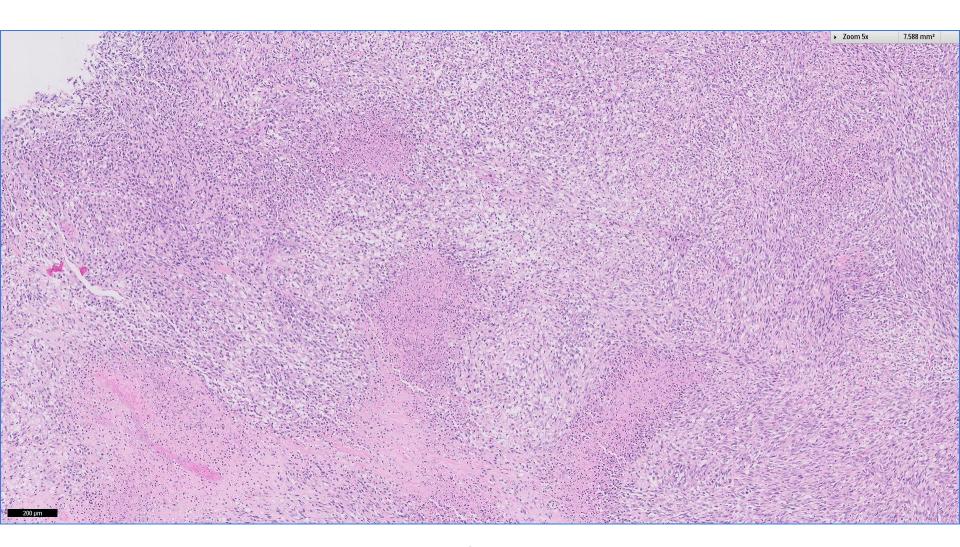








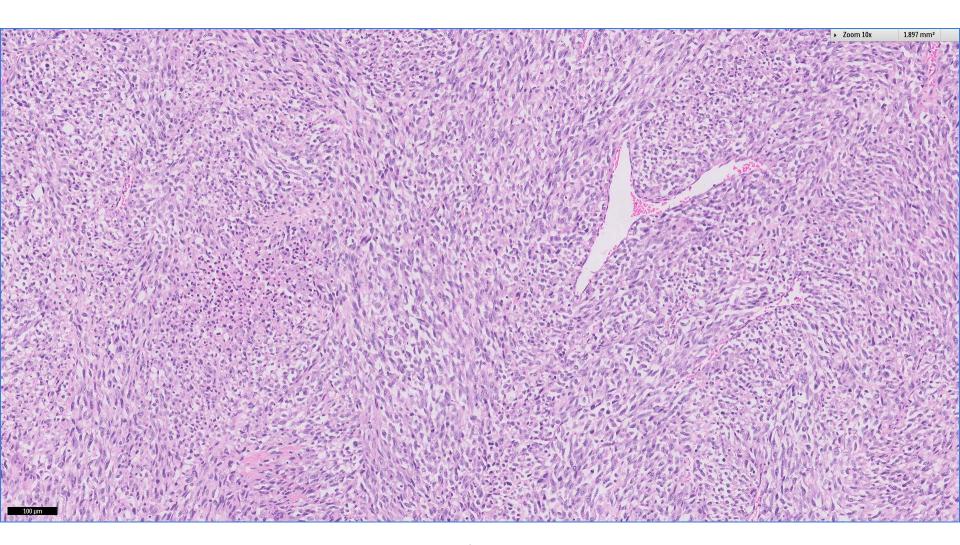








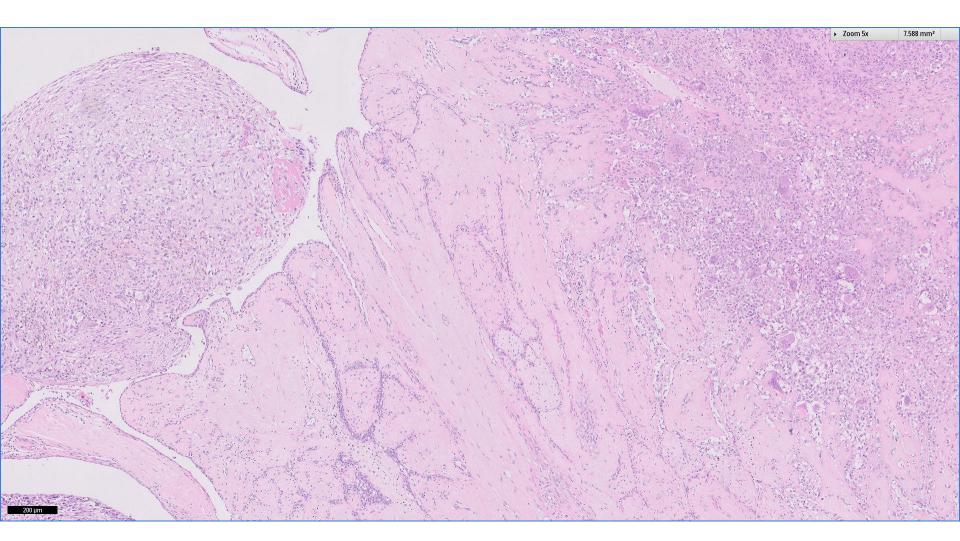










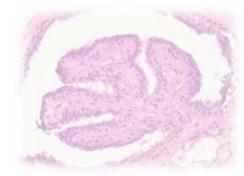




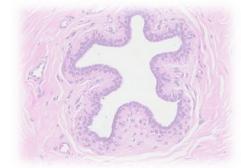


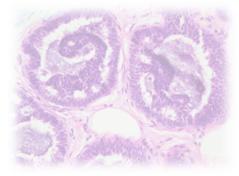


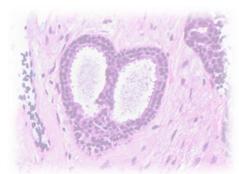




Additional pictures













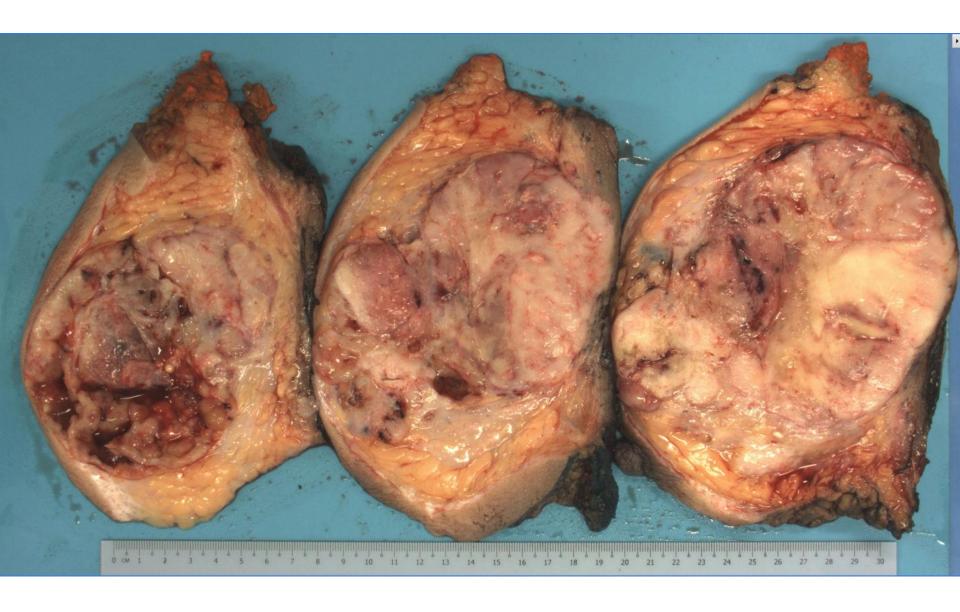


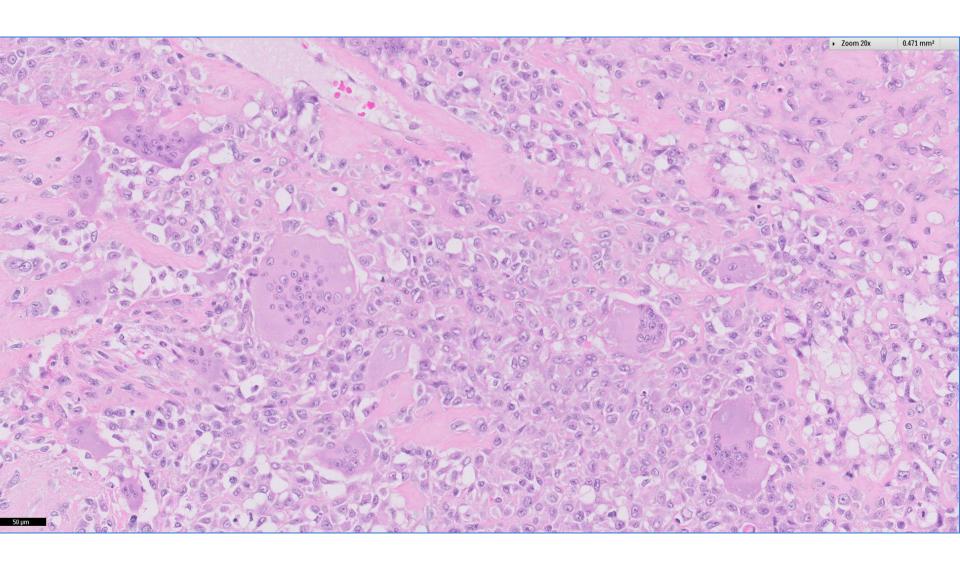
- Prior core biopsy ~
 - Reported as 'atypical spindle cell lesion associated with mesenchymal differentiation, arising in association with a recognisable fibroepithelial lesional component'.
- Immunohistochemistry ~
 - Focal positivity for MNF116, Cam5.2, p63.

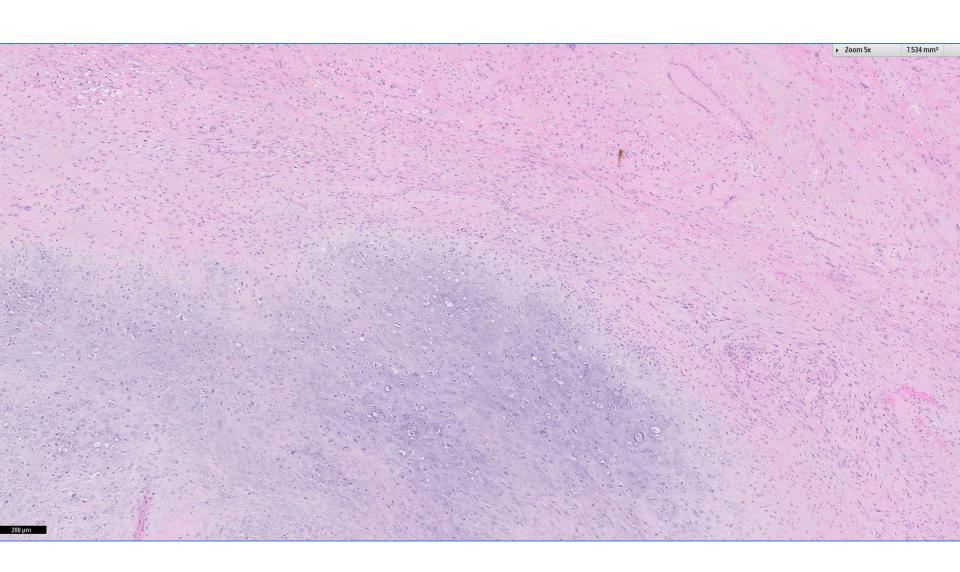


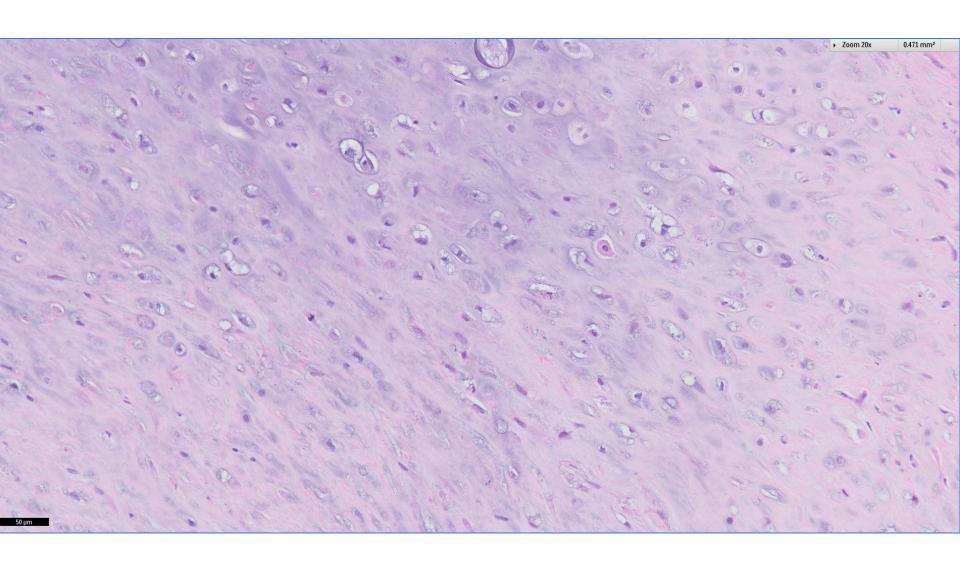










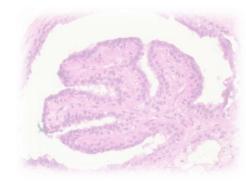


Diagnosis, case 13

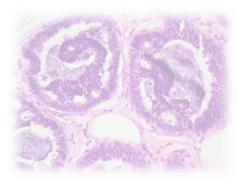
Left breast, mastectomy and axillary clearance:

Malignant phyllodes tumour, 20cm, with heterologous osteochondrosarcomatous differentiation.

15 benign lymph nodes.



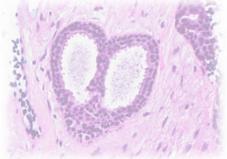












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Malignant phyllodes tumour

- Diagnosed when all of the following features are present:
 - marked stromal nuclear pleomorphism;
 - stromal overgrowth, defined by the absence of epithelial elements in one low-power microscopic field (40× magnification: 4× objective and 10× eyepiece) containing only stroma;
 - increased mitoses (≥ 5 mitoses/mm²; ≥ 10 mitoses per 10 high-power fields of 0.5 mm²);
 - increased stromal cellularity, which is usually diffuse;
 - infiltrative border.



Malignant phyllodes tumour

- Because of sarcomatous overgrowth, the epithelial component may only be identified after diligent sampling of the tumour.
- Malignant phyllodes tumours are also diagnosed when malignant heterologous elements are present even in the absence of other features.
- Although liposarcoma was traditionally regarded as a malignant heterologous component, there is evidence to suggest that metastatic risk is low when welldifferentiated liposarcoma occurs as the sole heterologous element in a phyllodes tumour.



Malignant phyllodes tumour

- These abnormal adipocytes within phyllodes tumours lack *MDM2* or *CDK4* amplifications, in contrast to extramammary well-differentiated liposarcoma.
- Therefore, it is recommended that a diagnosis of malignant phyllodes tumour is not made based purely on the finding of well-differentiated liposarcoma, but also on the basis of other stromal features.
- Rare pleomorphic liposarcomas in phyllodes tumours have shown more-adverse outcomes.
- Although myxoid liposarcoma has been described in phyllodes tumours, the lack of associated characteristic molecular aberrations calls into question its true existence within phyllodes tumours.







