

Case 24

63 year old Chinese woman.

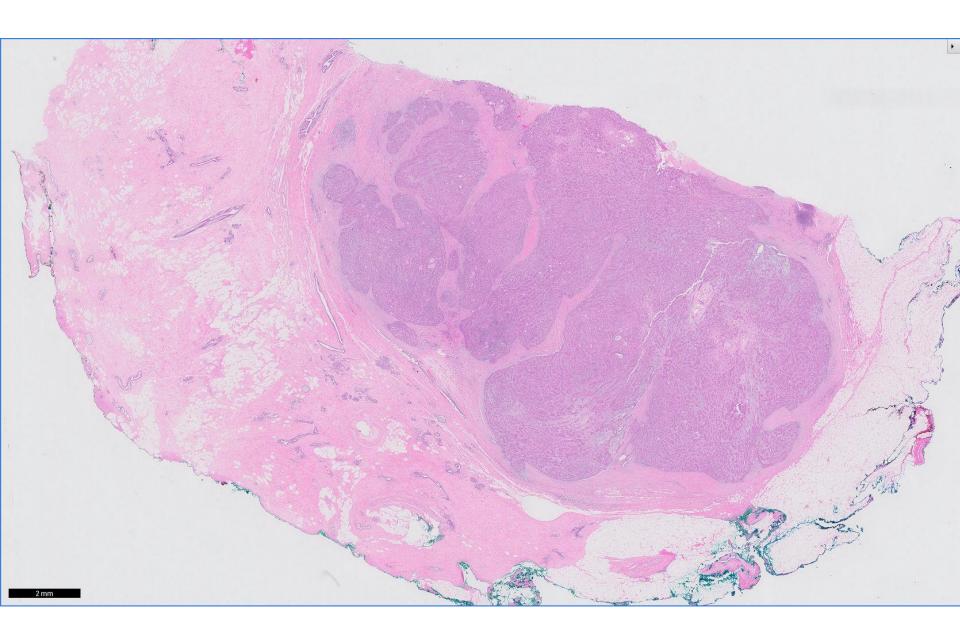
Right breast central wide excision was performed after a core biopsy diagnosed an invasive carcinoma.

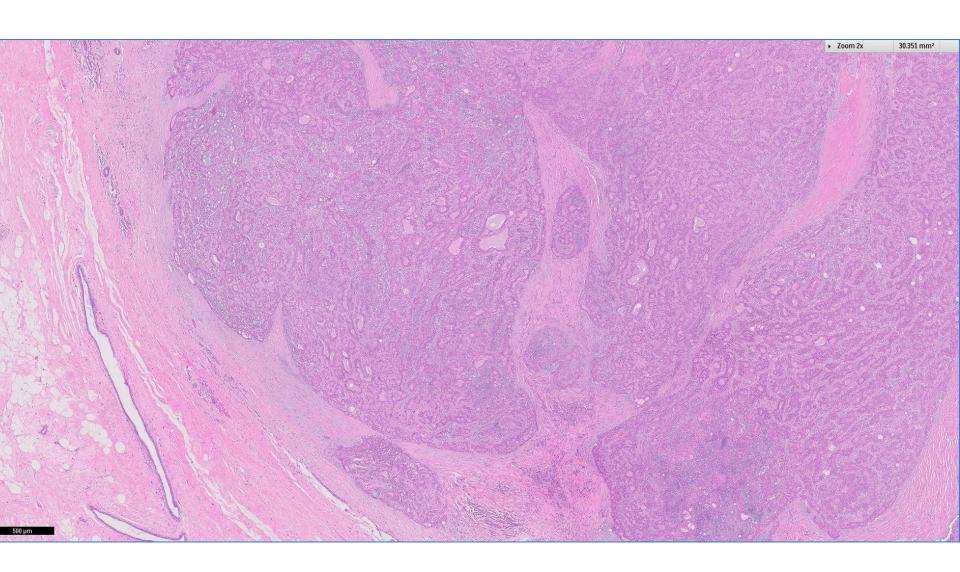
Section from the right breast tumour.

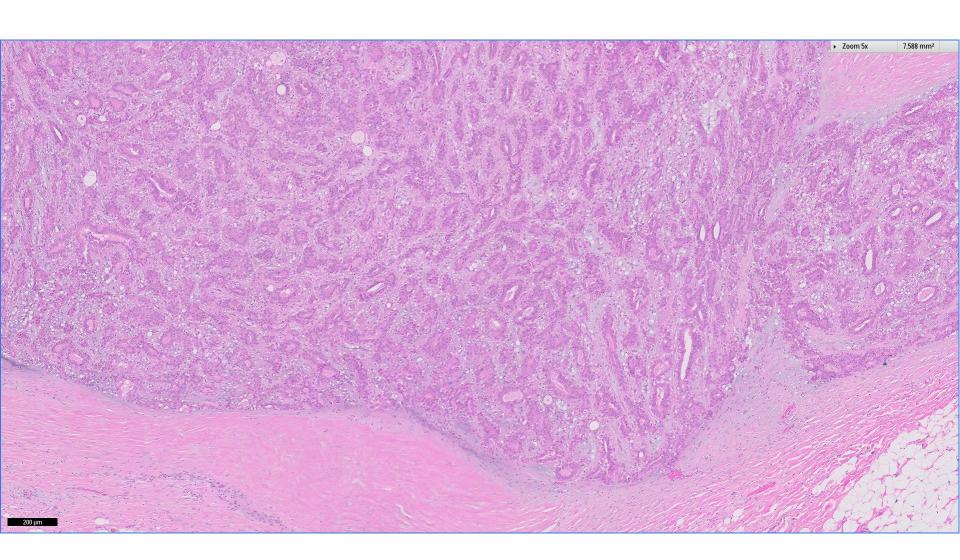


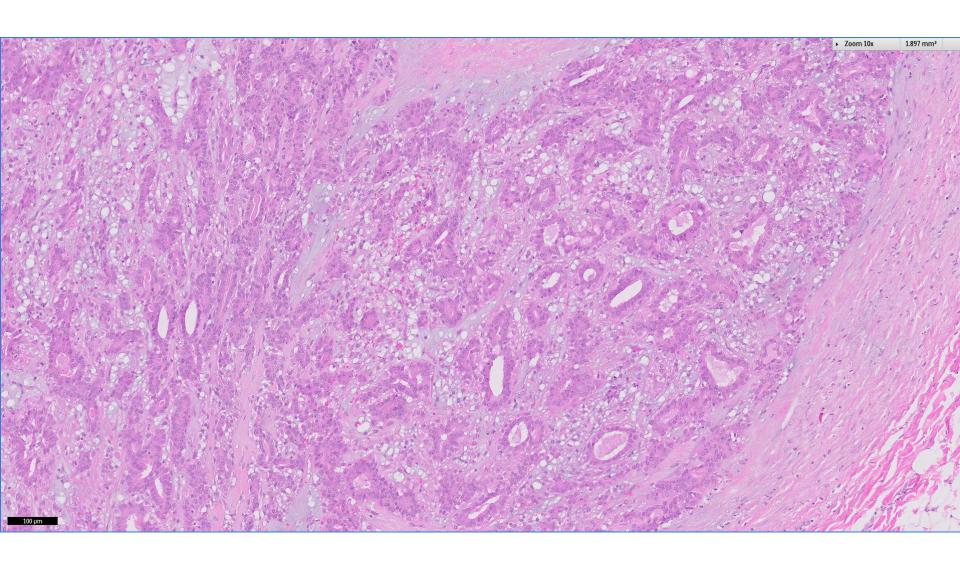


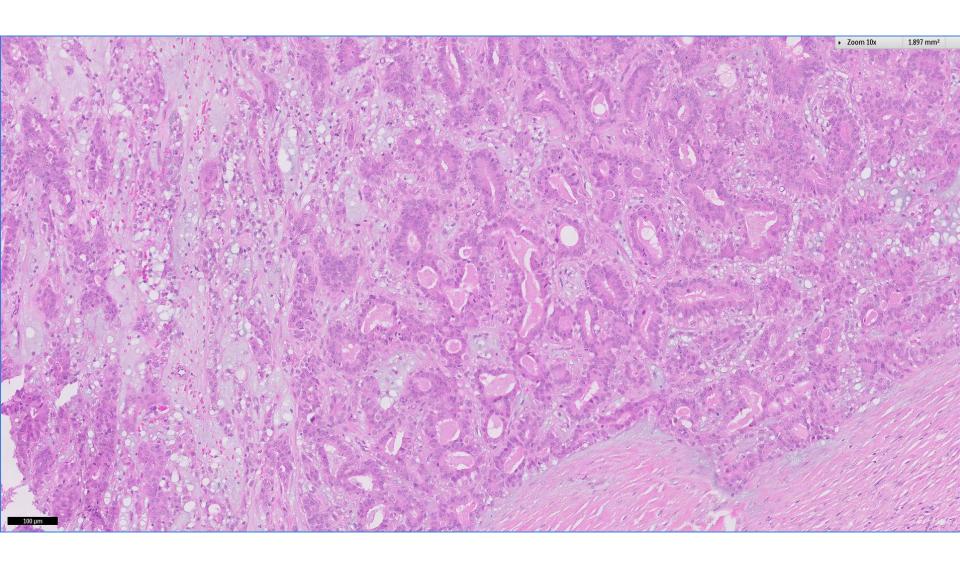


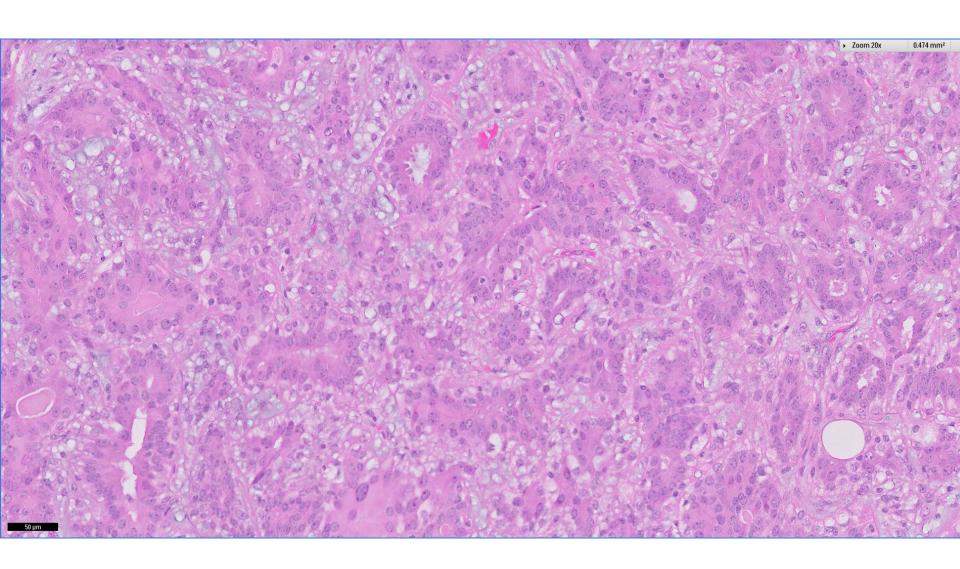


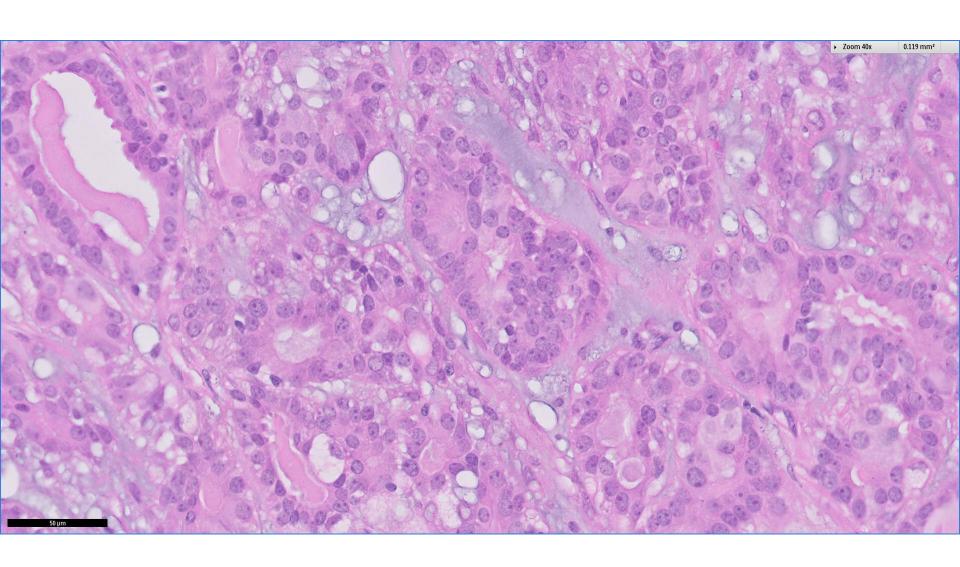


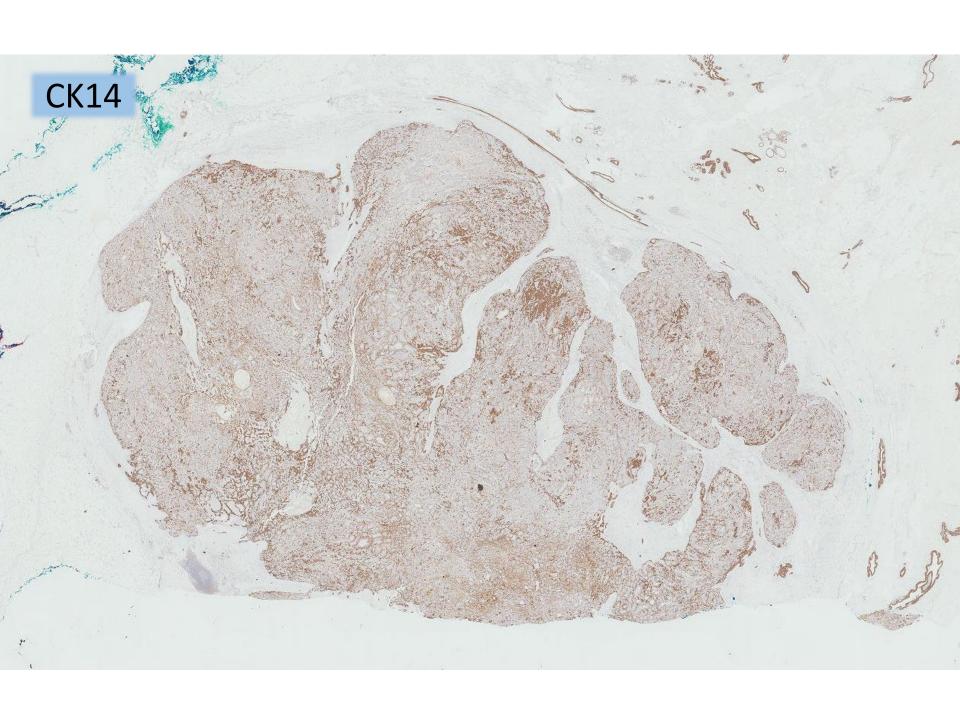




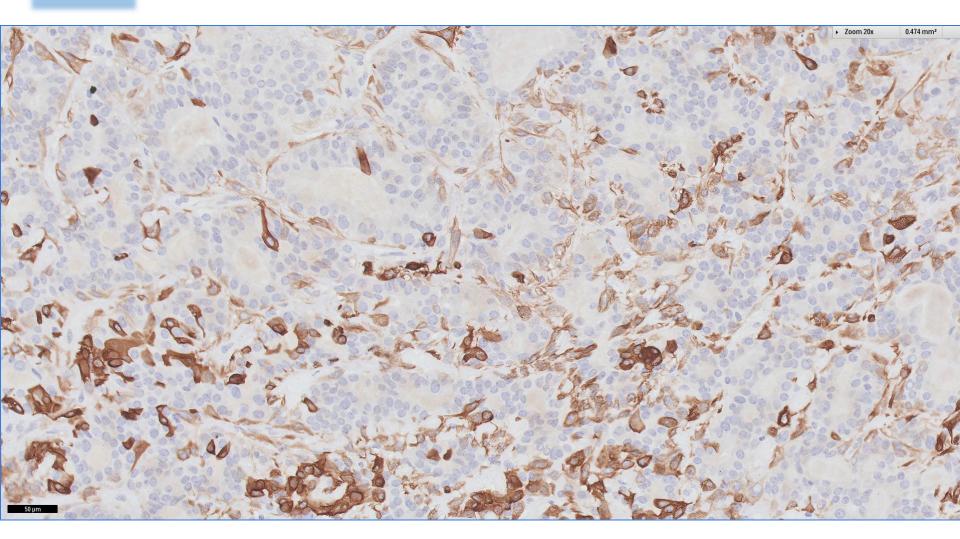


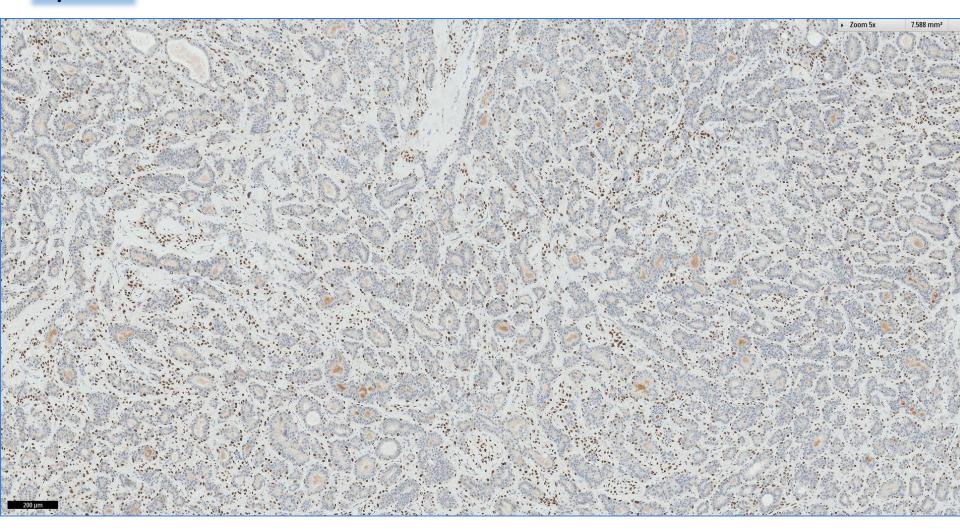


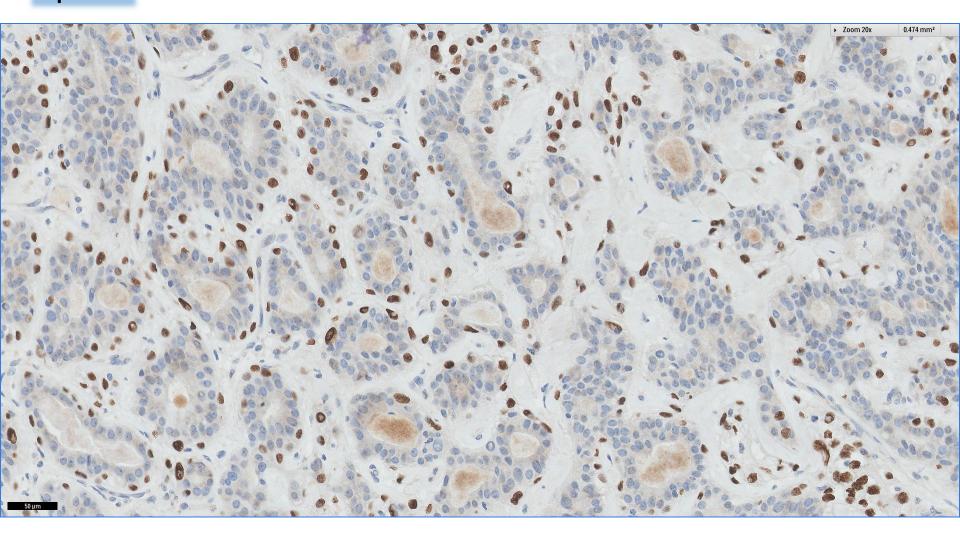


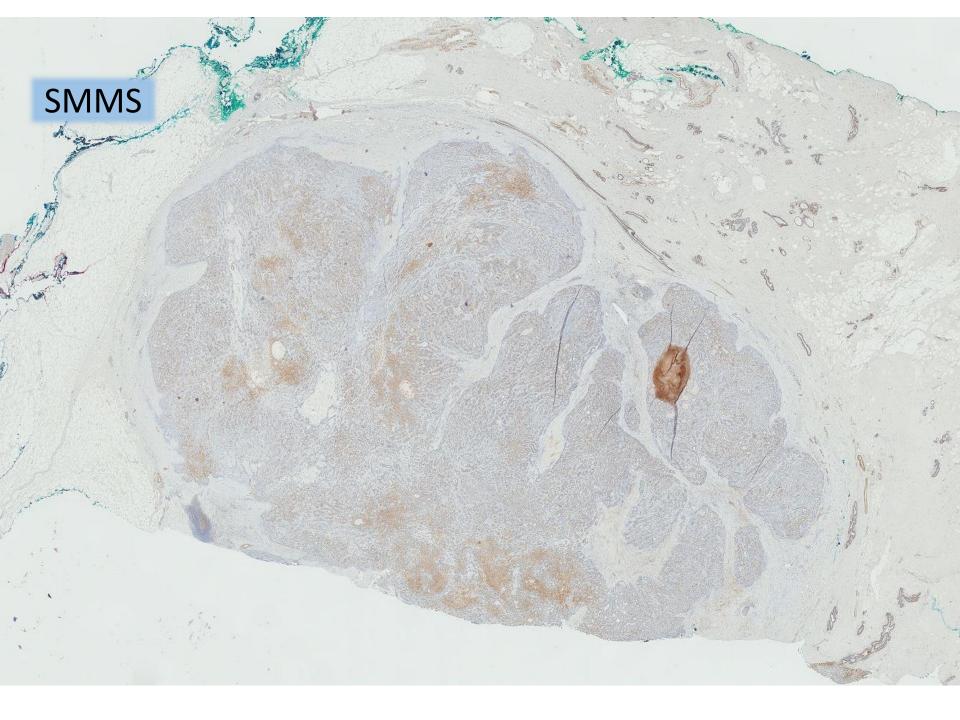


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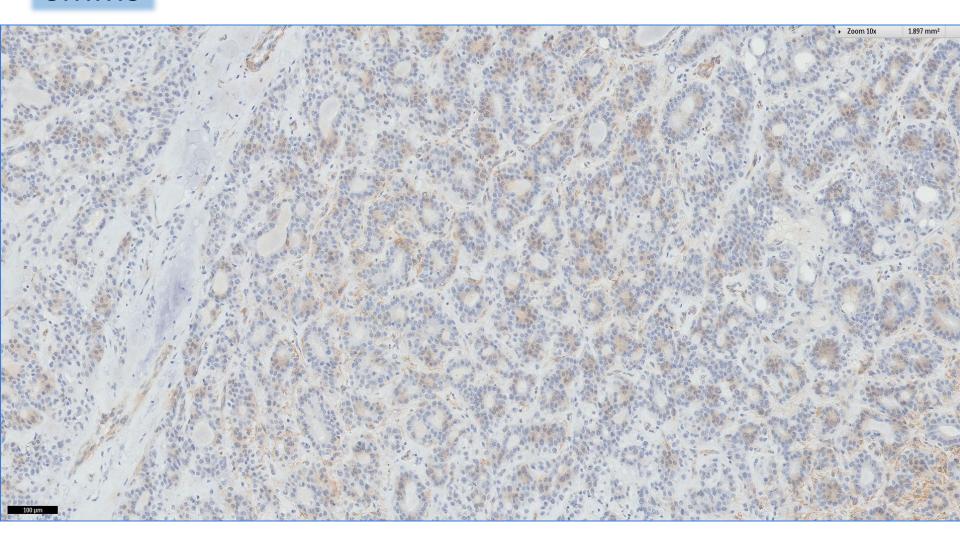


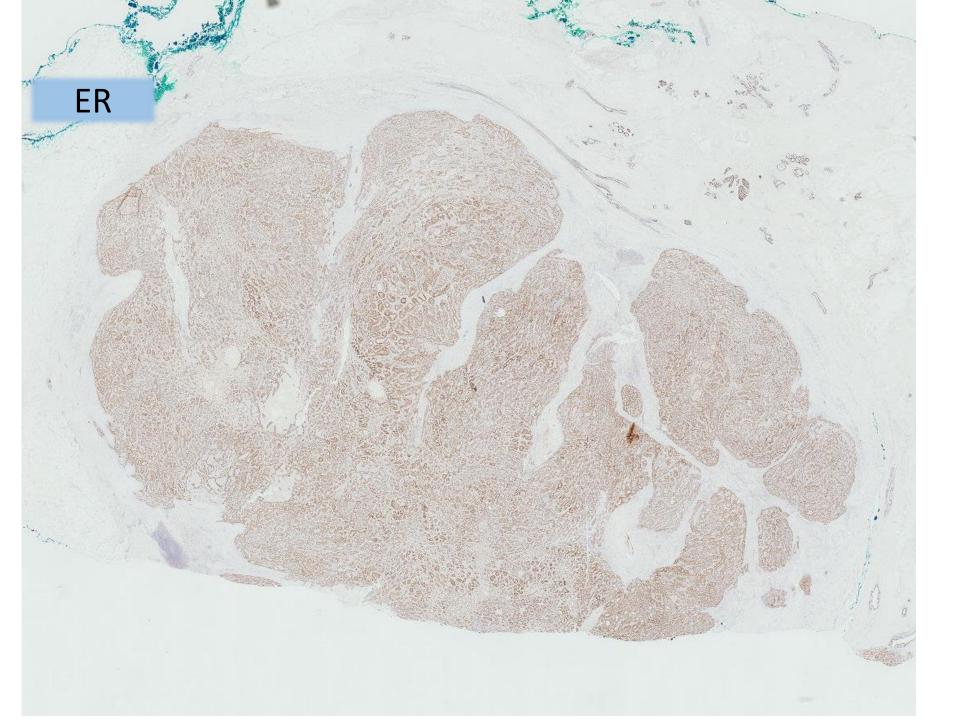


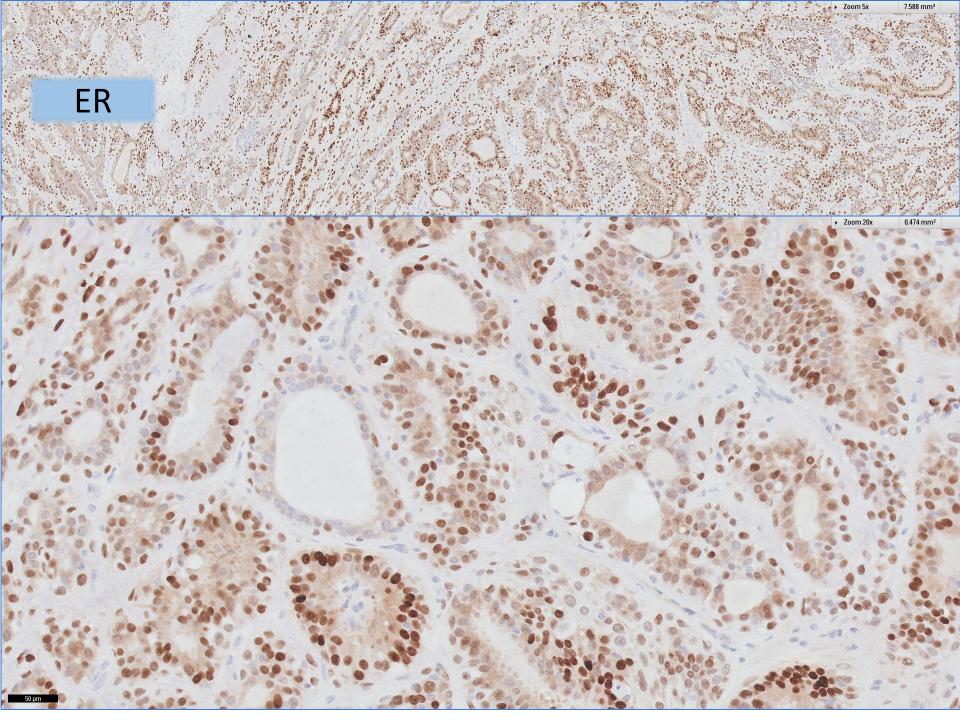


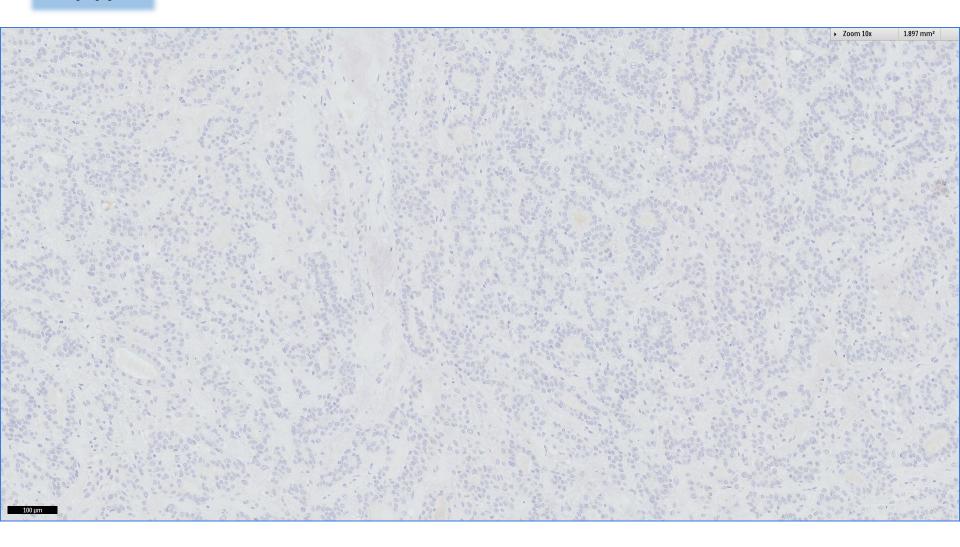


SMMS









Diagnosis

Right breast, central wide excision ~ Adenomyoepithelioma.

(Review of previous core biopsy showed features consistent with part of an adenomyoepithelioma)







Adenomyoepithelioma (AME)

- Benign epithelial-myoepithelial tumour.
- Usually comprises a balanced proliferation of both luminal epithelial and myoepithelial cells throughout the lesion, although there are lesions composed predominantly of myoepithelial cells in which the luminal epithelial component may be obscured.
- Rarely, one or both components of AME become malignant (AME with carcinoma).
- Lobular, papillary, tubular and mixed architectural patterns.

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Table 9.01 Classification of myoepithelial and epithelial-myoepithelial lesions

	Myoepithelial lesions	Epithelial-myoepithelial lesions
Benign	Myoepithelial hyperplasia Collagenous spherulosis	Pleomorphic adenoma Adenomyoepithelioma
Malignant	Myoepithelial carcinoma ^a	Adenomyoepithelioma with carcinoma - Carcinoma derived from luminal epithelium - Carcinoma derived from myoepithelium - Epithelial—myoepithelial carcinoma (carcinoma derived from both luminal epithelium and myoepithelium) Adenoid cystic carcinoma
Myoepithelial carcinoma (malignant myoepithelioma) is classified under metaplastic carcinoma.		

WHO 2012







Adenomyoepithelioma (AME)

- Mostly multilobulated architecture on scanning magnification.
- Microscopic satellite nodules may occur at the periphery of the tumour.
- Sclerosis and necrosis of the central area can be present may be pitfall on core biopsy.
- Relatively uniform admixture of small ducts and surrounding myoepithelial cells.
- Myoepithelial cells can show spindle, epithelioid, and glycogen-rich clear cells.
- Apocrine, squamous metaplasia, and sebaceous differentiation can be seen in the glandular elements.
- Mitotic activity is usually low (< 2 per 10 high-power fields).







Adenomyoepithelioma (AME)

- Local recurrence may occur, likely related to multinodular growth or intraductal extension of the lesion.
- Rare cases have metastasized.
- AME with carcinoma has greater potential to recur locally and has significant metastatic potential, probably related to the grade of the transformed component and the tumour size.
- Metastases typically occur in patients who have high-grade malignant transformation and with tumours of ≥ 2 cm.





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