

Case1

- 60 year female microcalcifications in the left breast.

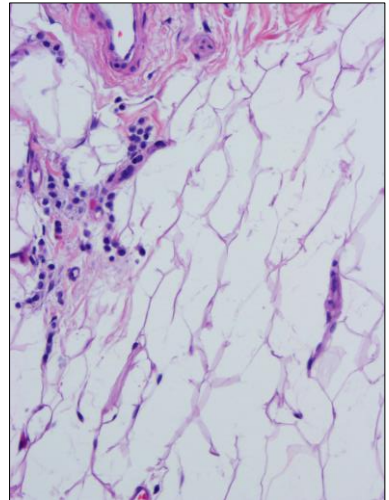
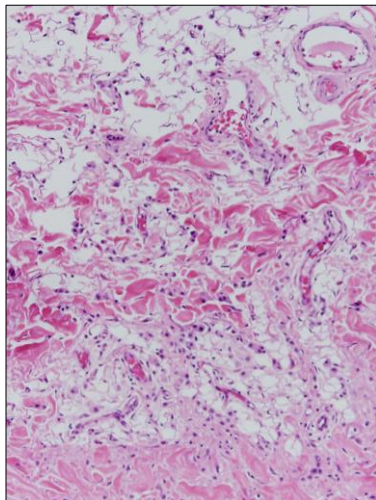
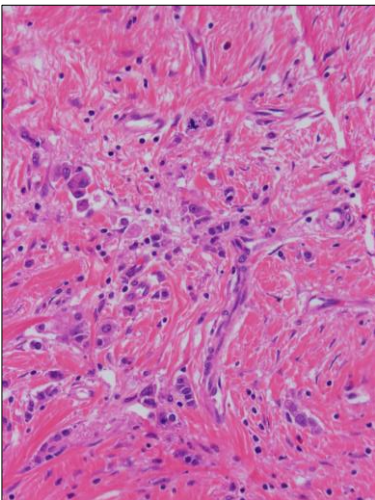
Calcifications in breast

- Cause
 - Not yet clear
 - BUT extremely useful phenomenon
- Normal appearing breast tissue with calcifications
 - Location
 - Epithelial
 - Both
 - Stromal

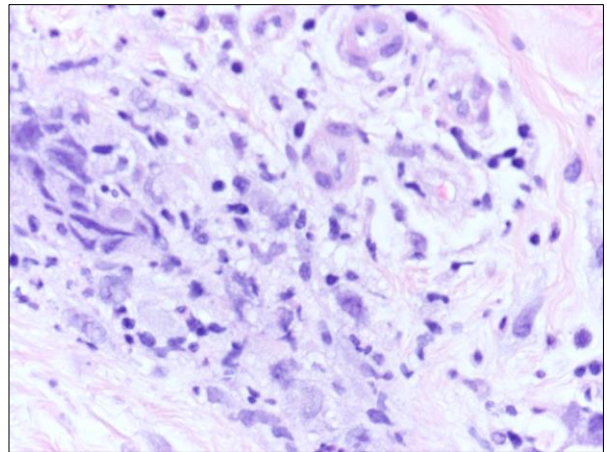
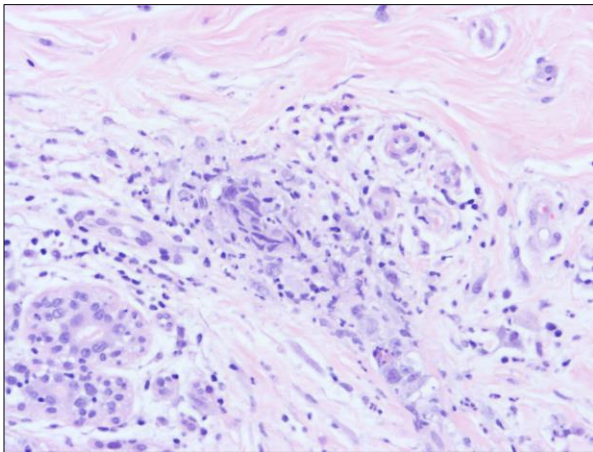
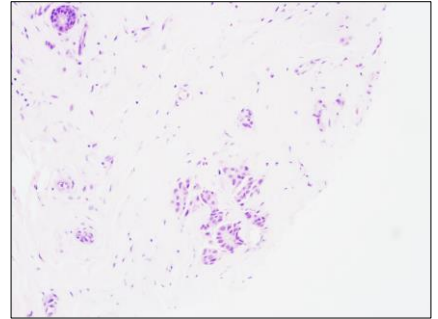
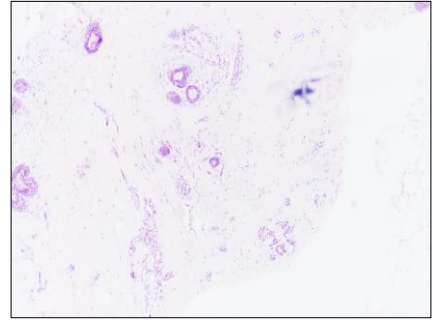
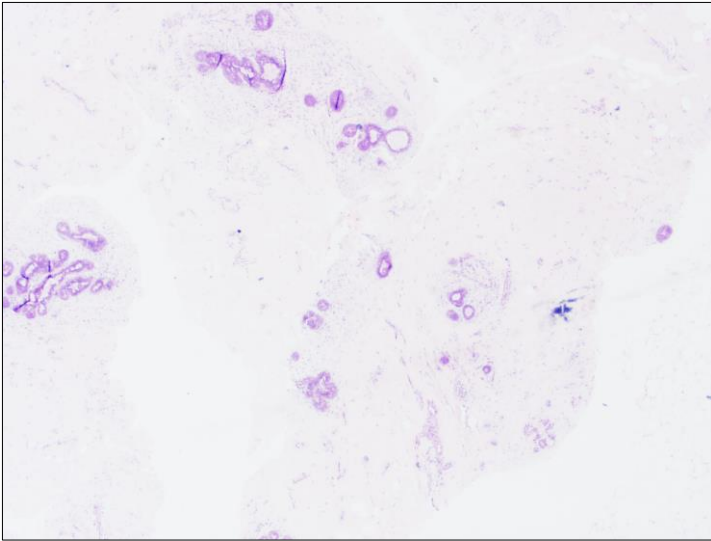
Normal appearing breast tissue

- Mass forming
 - Carcinoma (including Metastatic lesions)
 - Diabetic mastopathy
- Microcalcifications
 - Carcinoma (including Metastatic lesions)
 - Carcinoma (Post chemo-therapy)
 - Fibrocystic changes/disease
 - Fat necrosis
 - Amyloidosis

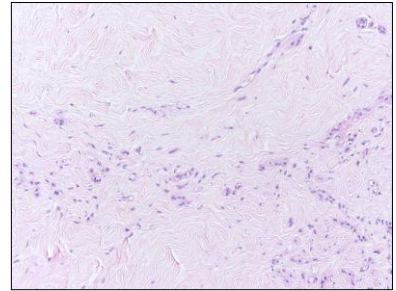
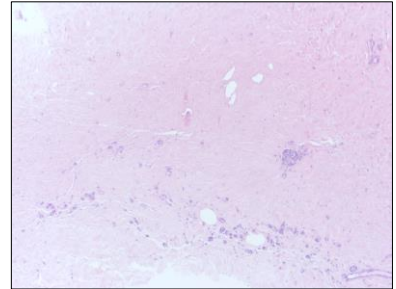
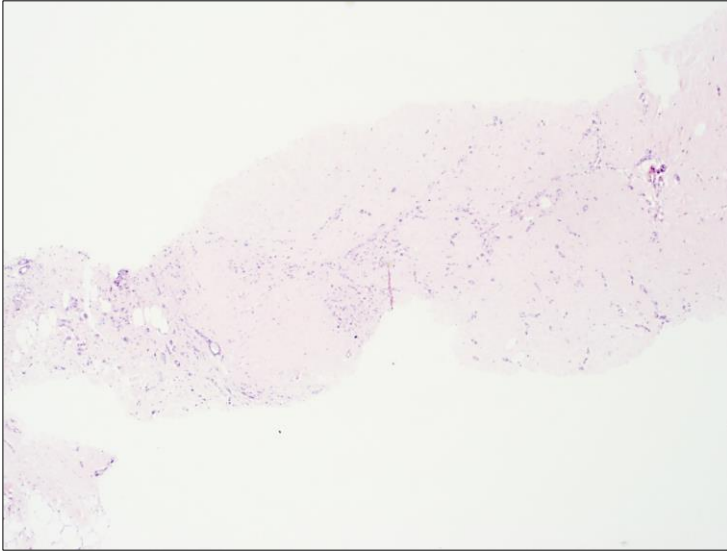
Rare Cancer Cells



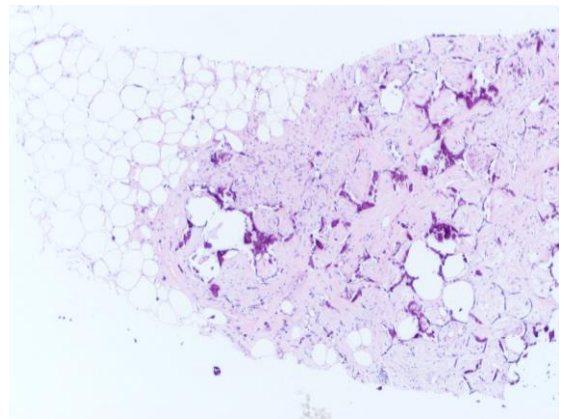
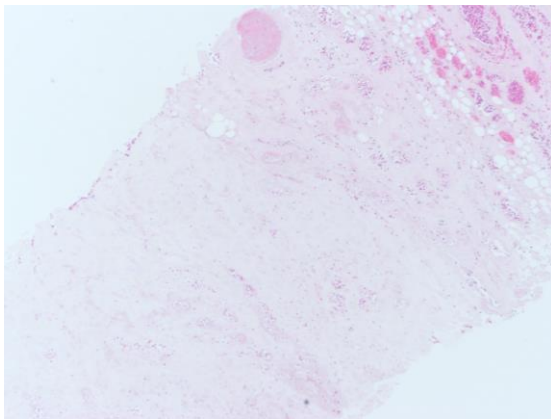
45F Breast biopsy



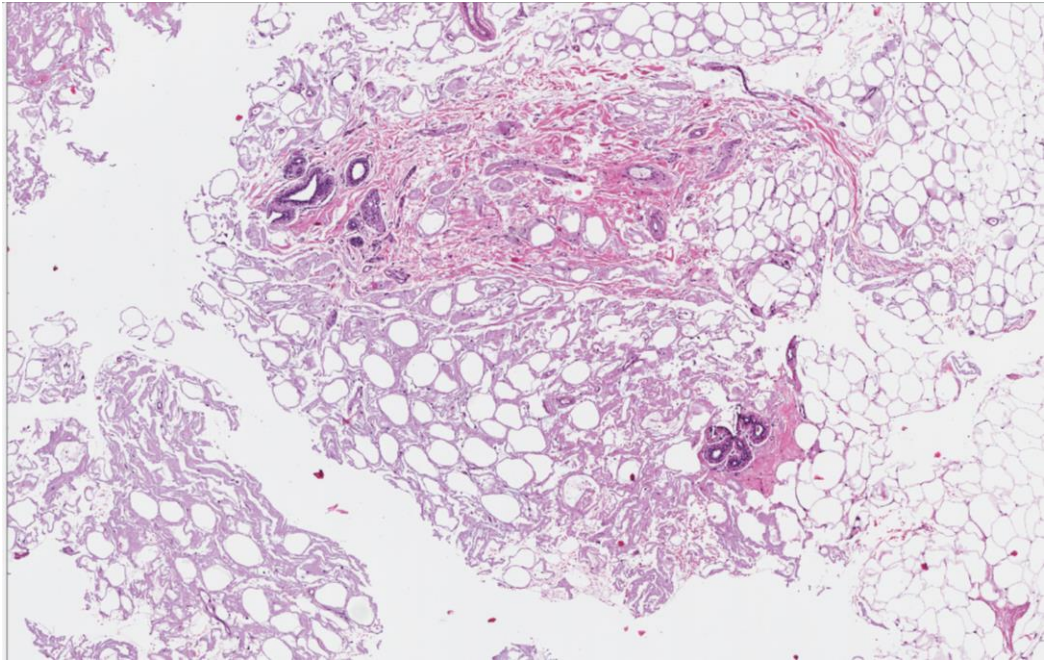
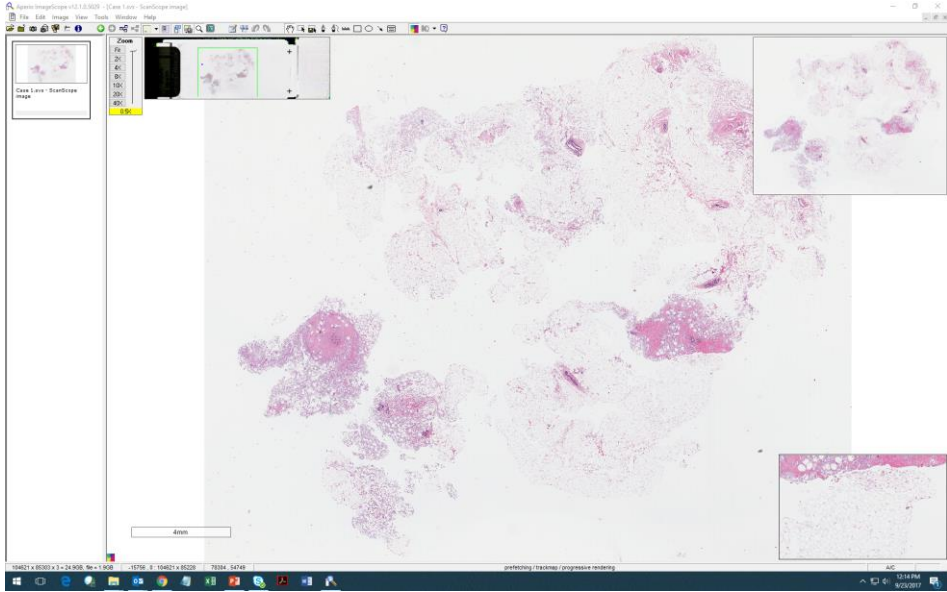
Atrophic Sclerosing adenosis

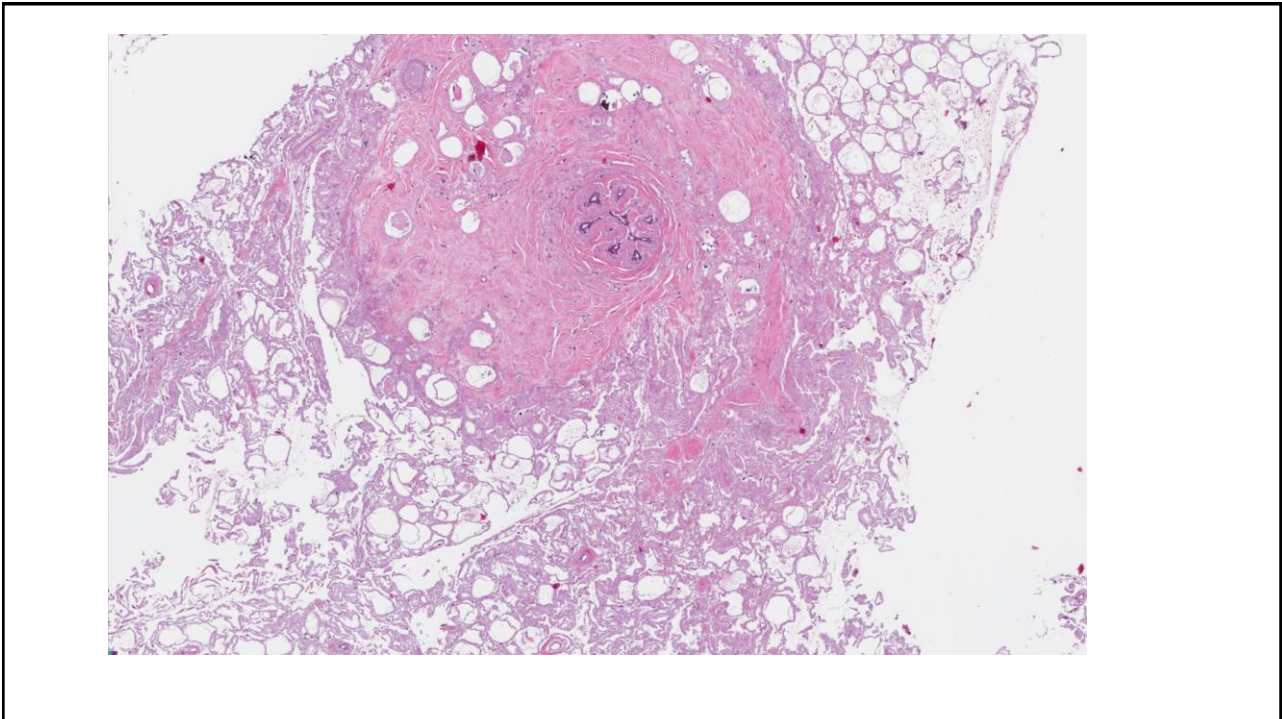
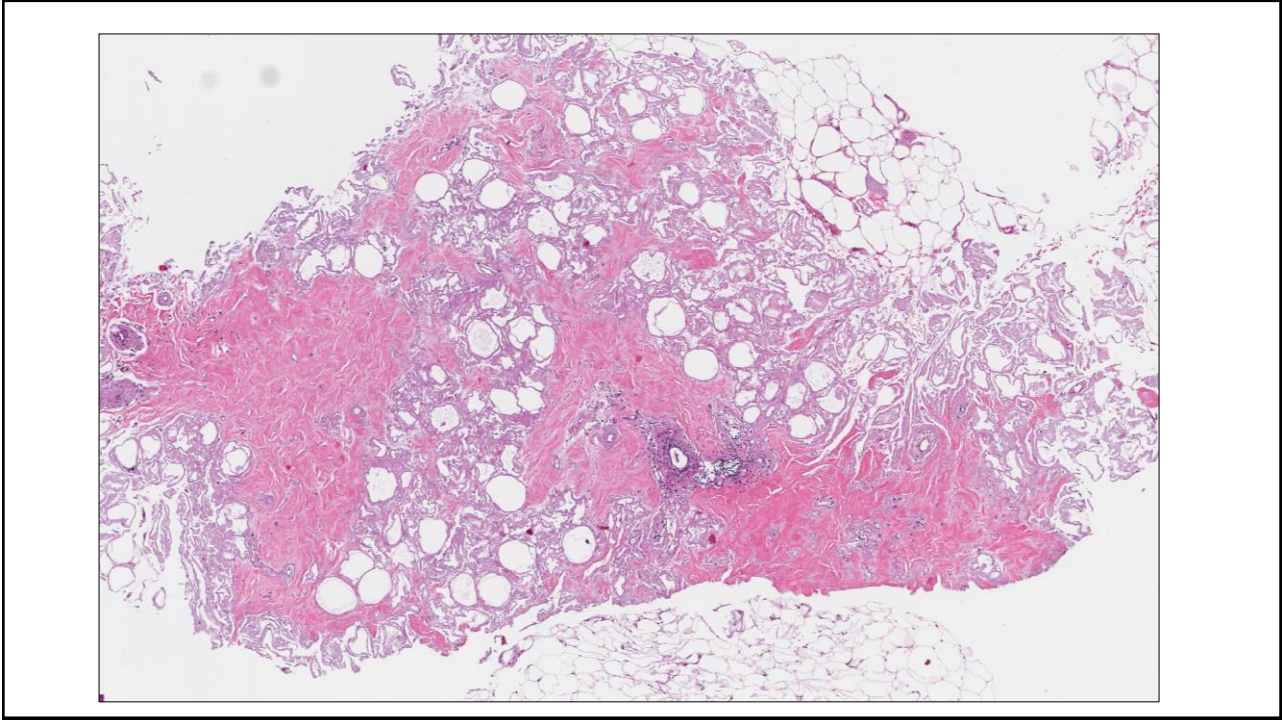


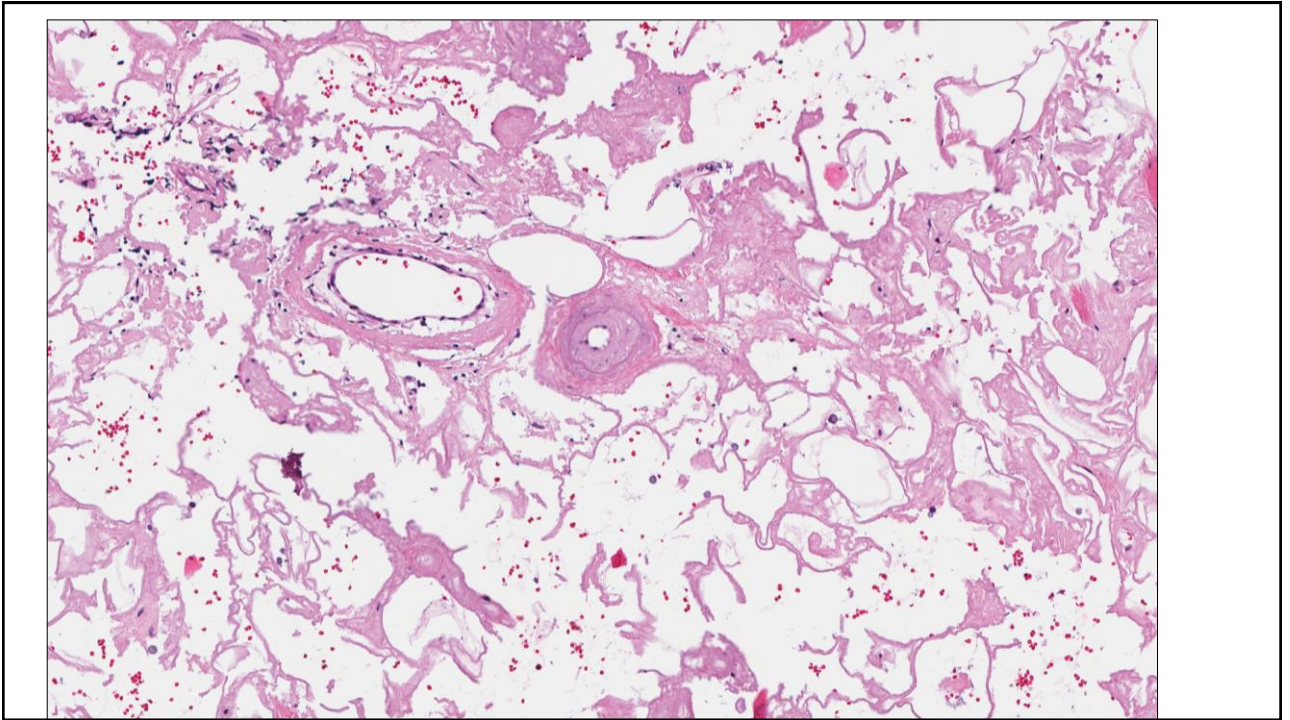
Other causes



Case







Amyloidosis of breast

Amyloidosis

Causes

- Both Primary and secondary
- Vascular or stromal
- LC MS/MS analysis in this case
 - AL (lambda)-type amyloid deposits

Table 1 Characteristic features of 40 cases of breast amyloidosis

Parameters	No. of patients (%)	P-value
Mean age in years (range)	60 (38–85)	
<i>Gender</i>		0.0001
Female	39 (98%)	
Male	1 (3%)	
<i>Side</i>		0.5 (right vs left)
Right	21 (53%)	
Left	16 (40%)	
Bilateral	2 (5%)	
Unknown	1 (3%)	
<i>Additional breast findings</i>		0.2 (MALT vs plasma cell proliferative disorder/plasmacytoma)
MALT lymphoma ^a	14 (35%)	
Plasma cell proliferative disorder/plasmacytoma	7 (18%)	
Chronic lymphoid leukemia	1 (3%)	
<i>Type of amyloid</i>		0.4 (kappa vs lambda)
AL	25 (63%)	
Kappa	15 (60%)	
Lambda	10 (40%)	
AH/AL	1 (3%)	
Unknown	14 (35%)	
<i>Indications for biopsy</i>		0.1 (mass vs calcification)
Mass	13 (33%)	
Calcifications	6 (15%)	
Unknown	21 (53%)	

^aWith plasmacytic differentiation in seven patients.

Take home messages

- d/d of normal appearing breast biopsy
- Carcinoma particularly mets can be deceptive
- Amyloidosis
 - Unusual diagnosis
 - Treatment of underlying condition