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A Case of Localised Breast AL Kappa type Amyloid Deposition

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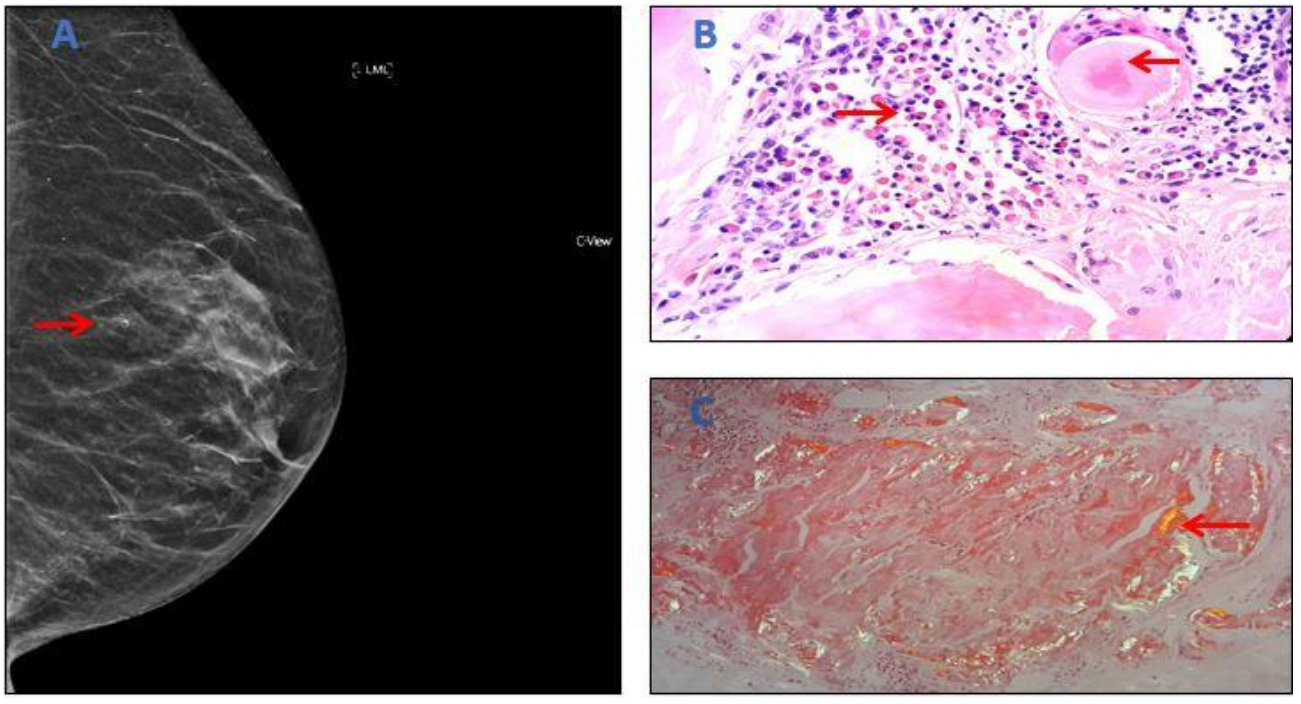

Figure 1: (A): Mammogram images: Left medio-lateral oblique C-view; **(B):** H and E 400x, amorphous pink material with plasma cell infiltrate (central area) and giant cell reaction (upper right, partially enveloping amyloid nodule); **(C):** Congo Red 100x, polarised light, apple-green birefringent material.

Clinical Image

A 64 year old lady presented for routine mammogram at which a left breast lump was isolated. Subsequent biopsy of this lesion surprisingly showed Amyloid light chain (AL) kappa type amyloidosis. Further investigations did not show any evidence of systemic amyloidosis on bone marrow trephine, Serum amyloid P component scintigraphy, echocardiogram or serum free light chain assay and thus she was diagnosed with localised breast AL amyloidosis. Interestingly, she clinically displayed mild macroglossia which can be associated with Sjogren's syndrome which has an established association with amyloid deposition of the breast. Here we display images of the initial screening mammogram and the subsequent diagnostic breast biopsy. Breast amyloidosis is a very rare phenomenon and has only been reported as individual case reports or small case series. It is usually reported in conjunction with additional haematological malignancies, thus making this case of localised Breast AL Kappa type Amyloid deposition even more unusual.