

MammoStar™ Tissue Markers Ultrasound Visibility

Clinical History

40 year-old female presented for diagnostic breast imaging to evaluate a 1 month palpable mass in the left breast.

Imaging Findings

Mammogram and breast ultrasound revealed an oval lobulated 1.5cm hypoechoic mass in the 1:00 8 CFN-B position of the left breast. Biopsy was recommended.

Procedure

Ultrasound guided vacuum-assisted Mammotome® EX biopsy was performed. A MammoStar™ was deployed at the biopsy site. Pathology results revealed a fibroadenoma (figure 1).

Follow-Up Imaging

Ultrasound images of MammoStar™ 11g after deployment revealed a carbon coated ceramic marker (2 hyperechoic foci) surrounded by beta-glucan (hyperechoic convex lines and/or hyperechoic oval mass).

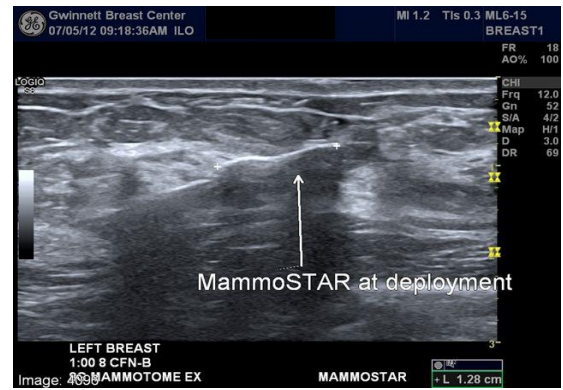
- Figure 2 Visibility at 7 days
- Figure 3 Visibility at 38 days
- Figure 4 Visibility at 60 days

Discussion

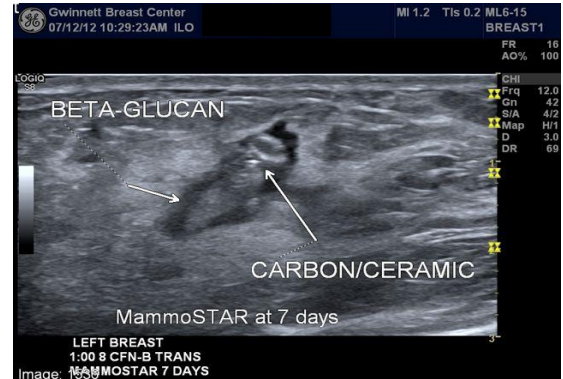
Ultrasound evaluation of MammoStar™ at 60 days maintains a similar appearance as 7 days after deployment. The walls of the beta-glucan are seen as a hyperechoic oval mass surrounding 2 hyperechoic foci which are the 2 ends of the barbell shape of the carbon coated ceramic marker.

Courtesy

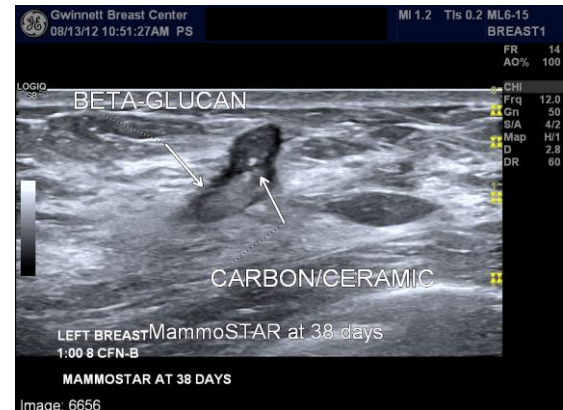
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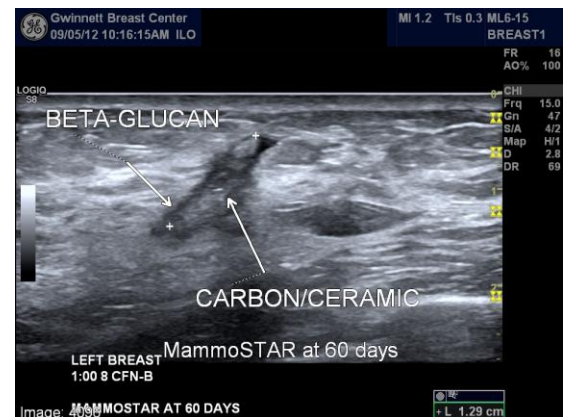
MammoStar™ at Deployment - Fig. 1



MammoStar™ at 7 Days - Fig. 2



MammoStar™ at 38 Days - Fig. 3



MammoStar™ at 60 Days - Fig. 4

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MammoStar™ 8G – Visibility Examples at 6 months 27 days

