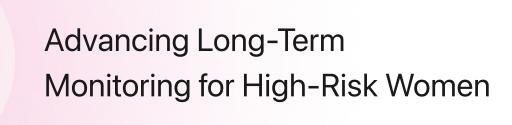




The VizMark VM-1 Study

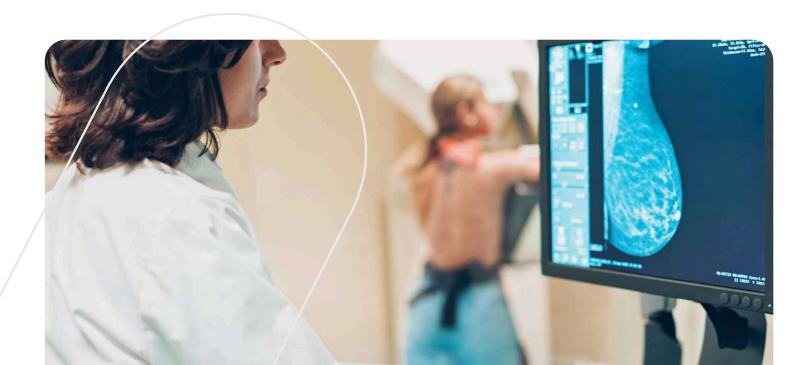






The VizMark VM1 gadoliniumenhanced visual tumor marker was evaluated in a multi-year observational study to assess its performance in long-term monitoring of biopsyconfirmed benign breast masses, specifically fibroadenomas.

This study, presented at RSNA 2023, tracked patients over periods of up to **seven years** and found that VM1 markers remained exceptionally stable—with **no migration**, **no degradation**, and **no change in brightness**. These findings support VM1's value as a reliable, long-term reference point for tracking tissue changes, especially in **high-risk patients** who require ongoing surveillance.





Study Design

Patient Cohort

36 total patients •

received VM1 tumor markers

Biopsy-confirmed fibroadenomas

7 patients

Analyzed follow-up cases

3 patients

(6-month, 2-year, and 7-year data)

Imaging modalities

Mammography, Ultrasound, MRI

Timeline

Markers placed between 2016–2020, followed through 2023



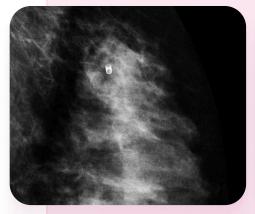


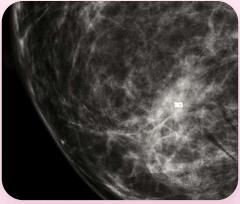
Subsequent imaging studies were reviewed to assess changes in marker position, brightness, and the surrounding tumor bed over time.

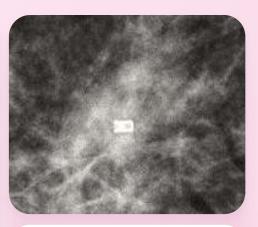


Clinical Highlights

7-Year Stability & Imaging Performance







The VM1 marker showed **no migration** or shift in position

Maintained **brightness and clarity** over time

No degradation of the marker or surrounding tumor bed

One patient followed for 7 years retained full marker visibility across all imaging sessions Marker showed increased brightness over time in Ultrasound, aiding visualization

Tumor beds remained unchanged, supporting stability of benign diagnosis

These results confirm that VM1 can remain in the body indefinitely when placed in benign tissue and serve as a long-term imaging aid without causing complications.

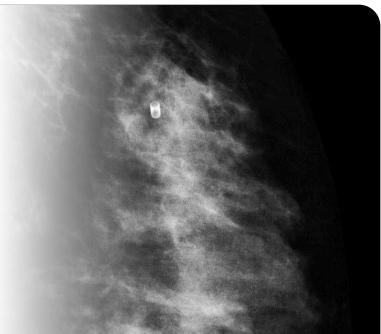


MRI Compatibility & Multimodal Benefits

The VM1 marker was developed to be **MRI-compatible** and **artifact-free**, a major advantage for patients requiring regular MRI follow-ups. This aligns with **ACR recommendations**, which prioritize MRI screening for high-risk women due to its superior sensitivity.

VM1's visibility across multiple modalities—MRI, mammography, and ultrasound—provides flexibility in care planning, enabling radiologists to confidently track changes using the most appropriate tool for each patient.







Why It Matters

10% of women

will develop fibroadenomas



Up to 75% of breast biopsies are benign

but markers often remain in place for life

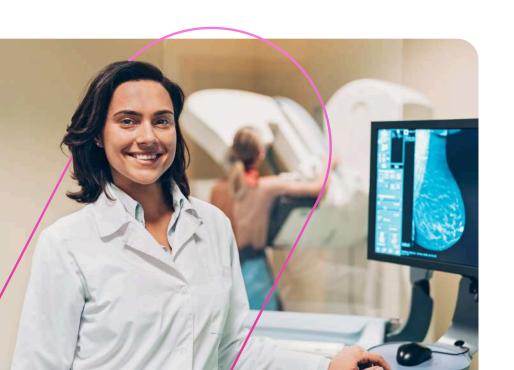
MRI is the standard

for high-risk patients with dense tissue or genetic predisposition



VM1 is the first FDAapproved soft tissue marker in nearly a decade

optimized for MRI use



For radiologists and patients, this means fewer repeat procedures, greater imaging confidence, and better continuity of care over time.



Conclusion

The RSNA clinical review confirms that VM1 is a significant innovation in breast health monitoring. For patients undergoing biopsy for benign lesions, VM1 delivers:



A long-term reference point

Reliable, multi-modality visibility

Increased MRI clarity over time

Reduced need for follow-up biopsies

This is more than a marker. It's a new foundation for **resilient**, **proactive breast care**—especially for women who need it most.



Learn more at www.vizmark.com