



The Magseed® Magnetic Marker Product Fact Sheet

Breast Lesion Localization Overview

- Breast lesion localization is the process of locating and marking non-palpable breast lesions
- Localization allows surgeons to quickly and accurately locate the cancerous tissue for removal during surgery

The Magseed® Marker Product Overview

- The Magseed® marker is a sterile, single use device composed of a magnetic marker (seed) preloaded in a disposable delivery system
- Indicated for use to radiographically mark soft tissue during a surgical procedure or for future surgical procedures
- Small as a grain of rice, measuring 1 x 5mm
- Comprised of low nickel, medical grade stainless steel
- Placed in targeted tissue via an 18G end deploy introducer
- The Magseed® marker is visible using ultrasound and radiography
- Used as a guide for surgeons to follow in the excision of tissue
- Located using the Sentimag® Localization Platform
 - Temporarily magnetizes the Magseed® marker to identify the precise location for removal
- May be inserted any time ahead of surgery

Product Benefits

- **Size:** 1x5mm seed is the smallest wire-free, radiation-free lesion localization device available; ideal for breast conservation surgery and node localization
- **Accuracy:** The Magseed® marker provides easy placement and accurate retrieval
- **Durability:** Cannot malfunction during placement through excision and is detectable even if cut in half or struck by cautery
- **Flexibility:** Allows facilities to decouple radiology placement from day of breast surgery, providing better scheduling flexibility than wire localization or radioactive seed localization
- **Clinical Results:** Reduces re-excision rates versus wire localization
- **Access:** Provides a radiation-free alternative expanding access to more facilities



Patient Benefits

- **Comfort:** Provides a more comfortable patient experience with a minimally invasive, wire-free solution versus the alternative of an uncomfortable and intrusive hook wire
- **Convenience:**
 - Minimally-invasive procedure, inserted any time ahead of surgery allowing the patient to go about their normal activities
 - Creates a simplified patient pathway on day of breast surgery, by removing the need for same-day wire localization or radioactive seed localization procedure
- **Clinical Results:** Reduces re-excision (second surgery) risk versus wire localization ^{1,2}

Important Safety Information

Complications may occur at any time during or after the procedure. Potential complications of magnetic marker placement may include, but are not limited to: hematoma, hemorrhage, infection, adjacent tissue injury, pneumothorax, allergic reaction and pain. The means and expertise should be available to treat these complications if necessary.

Bone wax is used as a terminal plug in the needle to retain magnetic marker prior to implantation. Bone wax contains natural beeswax. Some reaction to bone wax may occur, such as an allergic reaction or foreign body reactions (e.g. granulomas), as bone wax is a minimally resorbable implantable substance.

Care should be taken when using the Sentimag[®] Localization Platform in the proximity of extraneous metallic and/or magnetic materials, as they may generate confounding signals. Please refer to the Sentimag[®] platform IFU for further information.



1. "Hospital system rollout and initial experience with stainless steel magnetized seeds for breast and lymph node localization" Simmons et al 2019 ASBrS Poster (PDF file shared)

2. Impact of the SSO-ASTRO Margin Guideline on Rates of Re-excision After Lumpectomy for Breast Cancer: A Meta-analysis, <https://doi.org/10.1245/s10434-019-07247-5>