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**Practicum Site:** Veteran Affairs - Tennessee Valley Healthcare System

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***Surgical Breast Cancer Quality Improvement Project and Implementation of Magseed– Tennessee Valley Healthcare System***



**Keywords:** Tennessee Valley Healthcare System, breast surgical care, Magseed

**Introduction:** The US female veteran population is expected to increase from 10% to 16% by 2040, leading to an expansion in medical and surgical specialty needs. This is evident at VA-Tennessee Valley Healthcare System (VA-TVHS), with a rise in breast pathology surgical care. This prompted the comprehensive evaluation of the processes of care in pre-op, intra-op and post-op management of breast surgery patients. It is thought that we will see improvement in timeliness of operative intervention with implementation of inhouse stereotactic biopsy and following implementation of the Magseed preoperative localization system resulting in an improvement in patient satisfaction and workflow.

**Aims:** (1) By late 2021, the radiology department will implement inhouse breast stereotactic biopsy, and (2) By Spring 2022, the general surgery department will implement the Magseed localization.

**Methods:** Baseline processes and outcomes were reviewed to determine interventions that benefit veterans being evaluated for breast pathology. A multidisciplinary team was established: general surgery, radiology and administration. Radiology department formed a plan for implementation of breast MRI and breast stereotactic biopsy. The multidisciplinary team agreed to proceed with implementation of Magseed localization system (pending equipment approval committee) with pre- and post-intervention operative measures collected via chart review. Satisfaction survey conducted via telephone for patients that underwent breast wire localization procedure vs Magseed.

**Results:** Evaluation of the process for breast surgery patients demonstrated a delay due to community consult for stereotactic biopsy and timing from clinic to OR. The 10 pnt lickert scale telephone satisfaction survey results for wire localization (Magseed pending approval): anxiety (4.1), convenience (7.3), operative experience (8.2), post-operative pain (4.8) and overall satisfaction (8.2).

**Conclusions:** With the increase in female veteran population and breast operations performed at VA-TVHS, the changes implemented are expected to improve timeliness of care, patient satisfaction, and workflow for the radiology/surgery department.