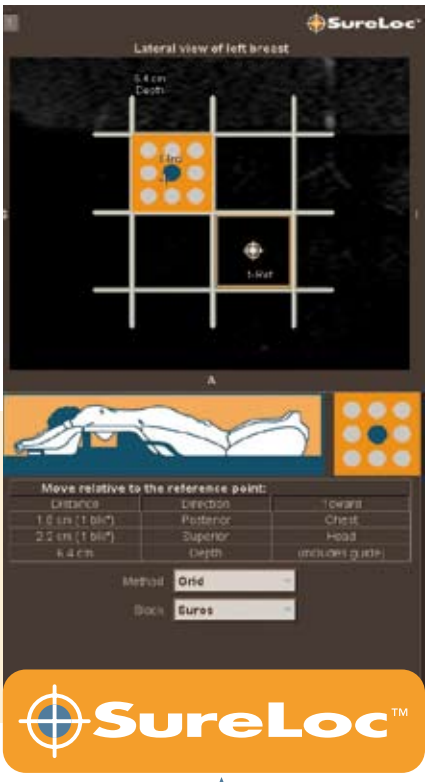
SureLoc™, CADstream's Interventional Guidance Tool

Intervention at the Point of Procedure

Using CADstream and SureLoc, radiologists can efficiently and accurately calculate coordinates for MR-guided interventions at the point of procedure. SureLoc reports needle position (insertion location, depth and needle angle) for both grid and pillar methods in real time and displays images and needle position in the patient's orientation.

Additionally, SureLoc is compatible with interventional breast coils and vacuum-assisted biopsy systems, and is available on any networked PC at locations throughout the hospital or imaging center.



> "SureLoc is a valuable addition to our breast MR program. It has significantly impacted our lesion localization process and has helped us perform 10-20 interventional procedures per month."
>
> Kara Carlson, MD, Medical Director • Evergreen Breast Center, Kirkland, WA

Understanding MR-Guided Intervention

As clinical indications and the number of breast MRI studies increase, so does the need for MR-guided biopsies of the breast. A 2003 study published in Radiology reported that up to 14 percent of malignant lesions in the breast are detectable only by MRI.[1] According to the IHS Heath Group's report on US Breast Cancer and Gynecologic Oncology Markets an estimated 1.47 million women were projected to have a breast biopsy in 2004. An MR-guided biopsy of the breast is a minimally invasive procedure that establishes a precise diagnosis of a breast problem without the need for a surgical biopsy. MRI is utilized to localize the abnormality if not seen via mammography or ultrasound.

The number of MR-guided breast interventions is rapidly growing as MR-compatible systems have become available and techniques have evolved.

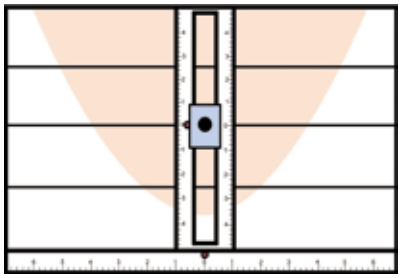
1. Elizabeth A. Morris, MD, et al. Breast Lesions Detected with MR Imaging: Utility and Histopathologic Importance of Identification with US. Radiology 2003; 11:856-861.

The Pillar Method

The **Pillar Method** uses a needle guide that slides on a pillar is attached to the stabilization plate. The needle block can be maneuvered vertically and horizontally on a ruler-axis, allowing the user to precisely position the needle for the procedure. Depth measurements are read off the needle.

1. Position patient in breast coil and immobilize breast using the interventional device

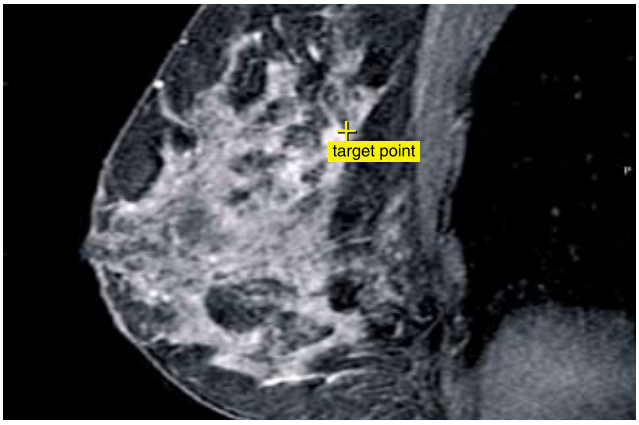
2. Position needle block to 0-0 location and insert reference marker



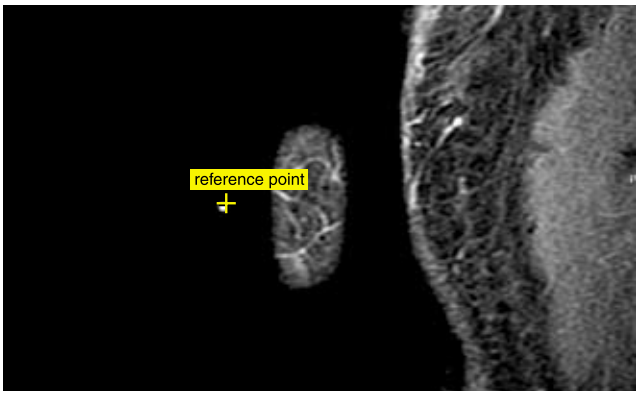
3. Acquire images that allow you to see the lesion

4. Send study to CADstream and use SureLoc to localize the needle position for procedure

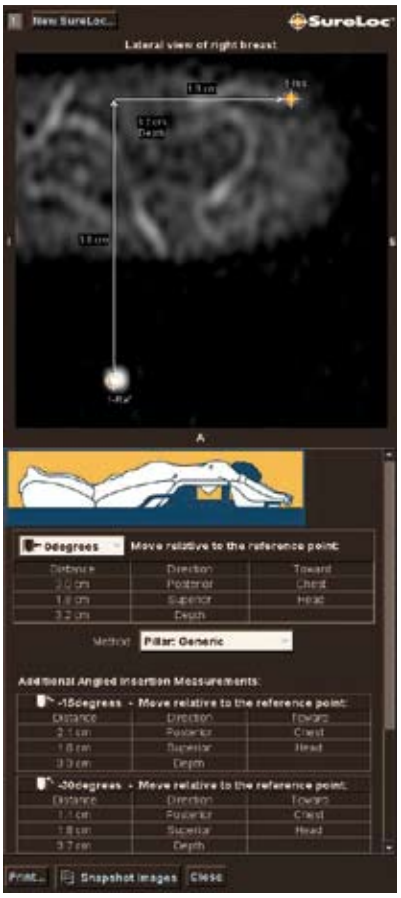
a. Follow the SureLoc prompt and click on target location



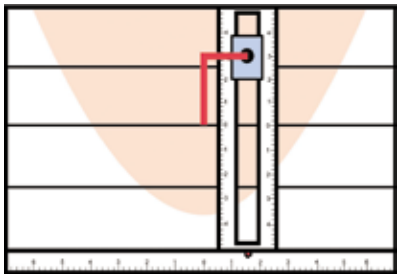
b. Follow SureLoc promp.t and click on reference location



5. Obtain SureLoc report with interventional coordinates and relevant images



6. Slide ruler and needle guide to coordinates in SureLoc report



7. Insert needle introducer

8. Perform confirmation scan

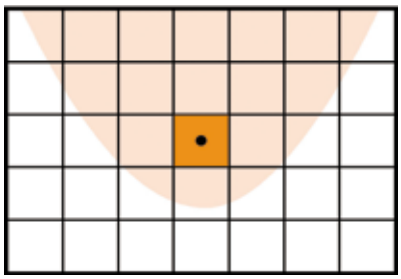
9. Perform interventional procedure and any additional confirmation scans

The Grid Method

The **Grid Method** uses a block needle guide that is inserted into a grid stabilization plate. The block is placed in the appropriate grid location and the needle is inserted through one of the holes in the block in order to guide the needle for the procedure. Depth measurements are read off the needle.

1. Position patient in breast coil and immobilize breast using interventional device

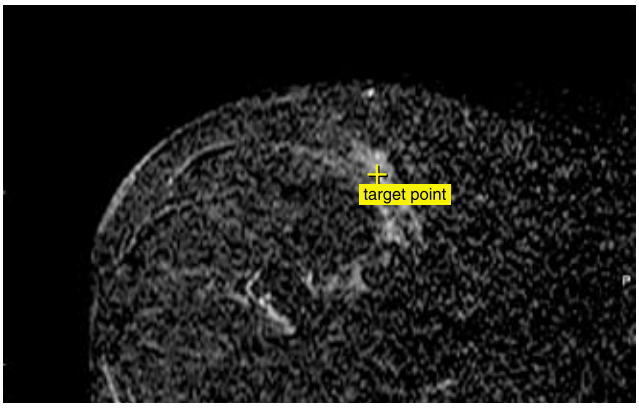
2. Insert reference block provided by Confirma in any location on the grid



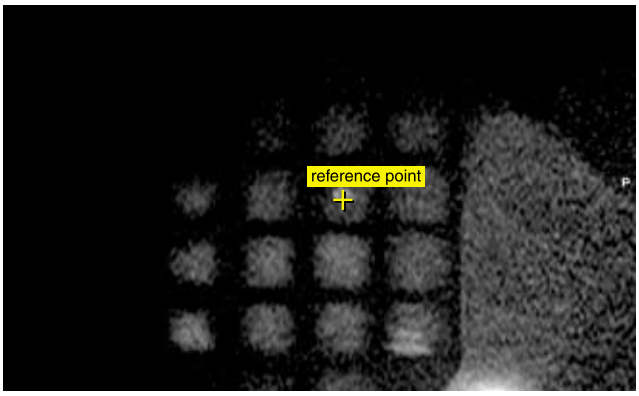
3. Acquire images that allow you to see the lesion

4. Send study to CADstream and use SureLoc to localize the needle position for procedure

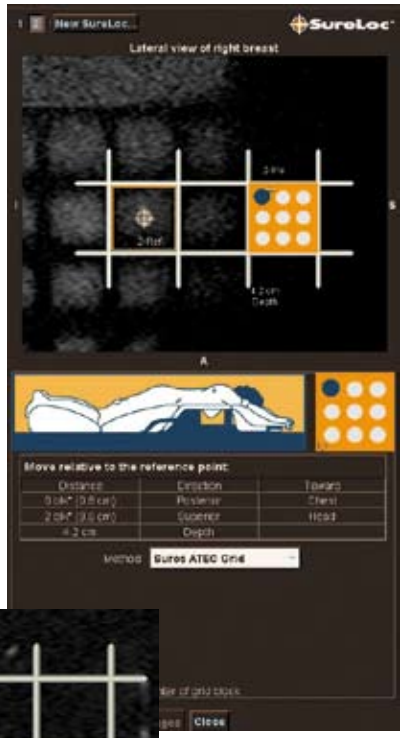
a. Follow the SureLoc prompt and click on target location



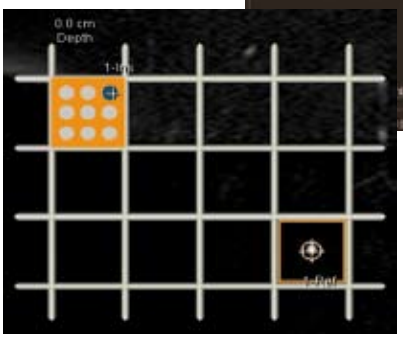
b. Follow SureLoc prompt and click on reference location



5. Obtain SureLoc report with interventional coordinates and relevant images



Portion of grid shown in report will customize in relation to reference and target points



6. Maneuver block in grid based on interventional coordinates in SureLoc report

7. Insert needle introducer

8. Perform confirmation scan

9. Perform interventional procedure and any additional confirmation scans

Flexible, Workflow-Based Architecture

- EFFICIENCY
- ACCESS
- SCALABILITY
- STANDARDIZATION

Designed with an advanced workflow-based architecture, CADstream customizes to any scenario, integrating with existing equipment and providing access to studies anywhere on the network.

More Information

For additional information and materials about CADstream, fill out a photocopy of the following form and fax or mail to Confirma.

Fax: 877/811-2376

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c/o Marketing Department
11040 Main Street, Suite 100
Bellevue, WA 98004

☐ **Yes, please send more information about CADstream.**

Name _____

Institution _____

Street Address _____

City _____

State _____ Zip code _____

Telephone _____

Fax _____

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