A New Picture in Breast Imaging

- Patient Preferred
- Non-invasive
- No Injections
- No Ionizing Radiation
- Reduces Negative Biopsies
- Provides Real-time Information
- Helps your doctor more quickly and accurately decide what happens next

Imagio®

OA/US Breast Imaging System

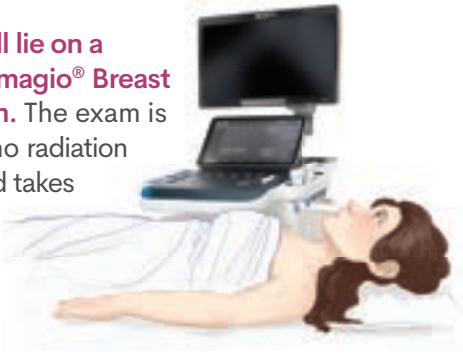
For More Accurate Diagnosis of Breast Cancer

SENO MEDICAL®

Cancers change the oxygen content in surrounding breast tissue, which your radiologist can see immediately with the Imagio® Breast Imaging System, now available at this facility. Your healthcare professional can now more easily rule out most malignant tumors, so you don't have to hold your breath waiting for biopsy results!

Your doctor may recommend an exam with the Imagio® Breast Imaging System if your mammogram or clinical exam shows an unusual or worrisome area of tissue. The Imagio® exam looks and feels much like a breast ultrasound imaging exam.

STEP 1. You will lie on a table near the Imagio® Breast Imaging System. The exam is painless, uses no radiation or injections, and takes 20 minutes or less.



STEP 2. The clinician will apply a clear gel to the breast. This will ensure good probe contact with the skin for adequate sound transmission and decrease friction when moving the probe.

STEP 3. Prior to activating the laser, you will be asked to put on laser protective eyewear to protect your eyes against exposure to laser light. The OA/US system emits invisible pulsed laser light from a handheld probe that is then used to create images. Everyone in the scan room must always wear Seno-approved laser protective eyewear when the laser is activated.

STEP 4. The clinician will move a handheld probe over the area of concern of the breast until the necessary pictures are captured. You may feel slight pressure when the handheld probe is in contact with your skin.

STEP 5. A radiologist will share the results with you. Since this is a fast exam performed in real time, information is typically shared a short time after the procedure. While the Imagio® OA/US exam is meant to reduce the need for biopsies, there may be times when a biopsy is necessary.

FAQs ABOUT THE OA/US BREAST IMAGING PROCEDURE

WHY DO I NEED AN OA/US EXAM?

Doctors order an opto-acoustic imaging exam when a patient's mammogram shows something unusual or suspicious.

WHAT EXACTLY IS OA/US IMAGING?

The technology creates pictures of breast tissue by fusing lasers with ultrasound. These pictures give doctors information about the breast tissue that help them more accurately differentiate between cancerous (malignant) and non-cancerous (benign) tissues. Opto-acoustic imaging allows the doctor to have greater accuracy and confidence in determining if a mass is malignant or benign.

Opto-acoustic Technology

Laser light energy converted to ultrasound energy = the "Opto-acoustic Effect"
"Light in = Sound out"

Two colors of laser light enable the evaluation of the relative difference between the oxygenation and deoxygenation of blood.

DOES THIS EXAM REPLACE A SCREENING MAMMOGRAM?

No. An OA/US imaging exam does not replace a screening mammography. A screening mammography looks for abnormalities in the breast, while OA/US imaging helps the doctor make a diagnosis: Is it cancer or not?

WHY IS THIS METHOD BETTER THAN OTHER WAYS OF MAKING A DIAGNOSIS?

The traditional methods of diagnosis include mammography, 3D mammography (tomosynthesis), ultrasound, and magnetic resonance imaging (MRI). These exams require radiation (mammography/ tomosynthesis) or injections of contrast agents (MRI) and only provide pictures of the breast tissue structure or anatomy. Opto-acoustic imaging provides pictures that show both the structure or anatomy of the tissue and the composition or function – specifically, how much blood and blood flow, as well as how much oxygen, are in the blood. Clinical studies show that OA/US imaging gives doctors more information than mammography and ultrasound alone.

HOW IS OA/US IMAGING DIFFERENT FROM AN ORDINARY BREAST ULTRASOUND?

In a conventional diagnostic ultrasound exam, the handheld probe sends high-frequency sound waves into breast tissue and receives the tissue-reflected ultrasound sound waves or echoes. The sound is then converted into black-and-white pictures. Opto-acoustic imaging uses a similar kind of probe, but sends pulses of invisible laser into breast tissue and receives light energy converted to sound pressure waves, similar to ultrasound. The resulting colored pictures show both the anatomy and oxygenation of hemoglobin in the breast tissue.

HOW DOES OA/US INFORMATION HELP IN DIAGNOSING UNUSUAL OR SUSPICIOUS AREAS OF BREAST TISSUE?

Cancers use oxygen as their "food supply." When cancers grow they need and consume more oxygen, so they develop multiple blood vessels to transport oxygen-rich blood. With opto-acoustic imaging, doctors see pictures of the breast anatomy, overlaid with a color map that shows the relative amount and location of blood and levels of blood oxygen. Basically, OA/US uses the body's blood as a natural contrast agent giving the radiologist more diagnostic information.

DO I NEED TO DO ANYTHING TO PREPARE FOR THE OA/US PROCEDURE?

Preparations are minimal. You should wear comfortable clothing and leave any jewelry at home. You should also avoid applying powders, lotions, or other cosmetics to your breast.

DOES THE PROCEDURE HAVE ANY RISKS?

The procedure is extremely safe. OA/US does not use X-ray radiation, nor does it require needles or injections of any kind. If you are pregnant, you should tell your doctor. Also, tell your doctor if you have a history of any light-sensitivity and/or are taking medications for it.

IS MY OPTO-ACOUSTIC EXAM COVERED BY MY INSURANCE?

As a new technology offered in the U.S., coverage for your opto-acoustic exam may or may not be included. You may find there is an out-of-pocket expense, depending on what your imaging center charges for the procedure. That out-of-pocket expense may be covered by your HSA or FSA. Check with your plan administrator. It is important to understand the opto-acoustic imaging procedure may prevent additional delays or imaging studies from being required. It may even prevent your need of a biopsy procedure. In the end, the diagnostic information obtained during your opto-acoustic exam may reduce worry from waiting on your diagnosis, avoid other expensive and painful procedures, and eliminate lost time and expense related to missed work, transportation fees, daycare costs, etc.

SENO MEDICAL®

Visualize more. Diagnose confidently.

8023 Vantage Drive, Suite 1000, San Antonio, TX 78230
Phone (210) 615-6501 | info@senomedical.com
www.reducebiopsies.com

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