

Reasons to Get Screened

1 IN 8 WOMEN
will develop
breast cancer in
her lifetime⁸

8 OUT OF 9
WOMEN
diagnosed with
breast cancer have
no family history⁹

With early
detection the
five-year
survival rate is
almost 100%¹⁰



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Learn more about the Genius
exam at mygenius3d.com.

genius3D
MAMMOGRAPHY EXAM™

More accurate
exam results
than 2D
alone¹⁻⁶

Greatly
reduced
chance of
callbacks^{2-3*}

A more accurate
mammogram in the fight
against breast cancer^{1-7*}

The Genius™ 3D Mammography™ exam (a.k.a. Genius™ exam) is acquired on the Hologic® 3D Mammography™ system and consists of a 2D and 3D™ image set, where the 2D image can be either an acquired 2D image or a 2D image generated from the 3D™ image set. The Genius™ exam is only available on the Hologic® 3D Mammography™ system. Please consult your physician for a full list of benefits and risks associated with mammography.

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* Compared to 2D mammography alone.

1. FDA submissions P080003, P080003/S001, P080003/S004, P080003/S005

2. Results from Friedewald, SM, et al. "Breast cancer screening using tomosynthesis in combination with digital mammography." JAMA 311.24 (2014): 2499-2507; a multi-site (13), non-randomized, historical control study of 454,000 screening mammograms investigating the initial impact the introduction of the Hologic Selenia® Dimensions™ on screening outcomes. Individual results may vary. The study found an average 41% (95% CI: 20-65%) increase and that 1.2 (95% CI: 0.8-1.6) additional invasive breast cancers per 1000 screening exams were found in women receiving combined 2D FFDM and 3D™ mammograms acquired with the Hologic 3D Mammography™ System versus women receiving 2D FFDM mammograms only.

3. Zuckerman SP, Conant EF, Keller BM, et al. Implementation of Synthesized Two-dimensional Mammography in a Population-based Digital Breast Tomosynthesis Screening Program. Radiology. 2016 Dec;281(3):730-736.

4. Skaane P, Bandos A, Eben EB et al. Two view digital breast tomosynthesis screening with synthetically reconstructed projection images: comparison with digital breast tomosynthesis with full-field digital mammographic images. Radiology. 2014 Jun;271(3):655-63.

5. Bernardi D, Macaskill P, Pellegrini M et al. Breast cancer screening with tomosynthesis (3D mammography) with acquired or synthetic 2D mammography compared with 2D mammography alone (STORM-2): a population-based prospective study. Lancet Oncol. 2016 Aug;17(8):1105-13.

6. McDonald ES, Oustimov A, Weinstein SP et al. Effectiveness of Digital Breast Tomosynthesis Compared With Digital Mammography: Outcomes Analysis From 3 Years of Breast Cancer Screening. JAMA Oncol. 2016 Jun 1;2(6):737-43. 7.

7. National cancer Rafferty EA, Durand MA, Conant EF, et al. Breast Cancer Screening Using Tomosynthesis and Digital Mammography in Dense and Nondense Breasts. JAMA. 2016 Apr 26;315(16):1784-6.

8. www.cancer.gov/types/breast/risk-fact-sheet

9. US breast cancer statistics. [Breastcancer.org](http://www.breastcancer.org/symptoms/understand_bc/statistics).http://www.breastcancer.org/symptoms/understand_bc/statistics. Accessed March 27, 2015.

10. American Cancer Society:<http://www.cancer.org/cancer/breastcancer/detailedguide/breast-cancer-survival-by-stage>

How it Works

The Genius™ 3D Mammography™ exam allows doctors to examine your breast tissue layer by layer. So, instead of viewing all of the complexities of your breast tissue in a flat image, as with conventional 2D mammography, fine details are more visible and no longer hidden by the tissue above or below. The Genius™ exam consists of a 2D and 3D™ image set, where the 2D image can be either an acquired image or a 2D image generated from the 3D™ image set.

More than 200 clinical studies have shown that by using this technology, doctors are able to screen for breast cancer with much greater accuracy^{1-7*}—regardless of a woman's age or breast density.^{1-2*}

Only the Genius™ 3D Mammography™ exam has superior accuracy for women with dense breasts compared to 2D alone²

Finds significantly more invasive breast cancers^{1-7*}

Early
Detection
Saves
Lives

The Genius™ 3D Mammography™ exam provides better, earlier breast cancer detection.^{1-7*}

It finds 20-65% more invasive breast cancers than 2D mammography alone.² Genius exams have also been proven to reduce unnecessary callbacks by up to 40%.^{1-7*}

Reduces unnecessary callbacks by up to 40%^{1-7*}

What to Expect During Your Exam

The process of a Genius™ 3D Mammography™ exam is the same as your conventional 2D exam. The technologist will position you, compress your breast, and take images from different angles. There's no additional compression required with the Genius™ exam, and it only takes a few extra seconds for an exam proven to be more accurate.^{1-7*}

The technologist will view the images of your breasts at the computer workstation to ensure quality images have been captured for review. A radiologist will then examine the images and report results to either your physician or directly to you.