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U.S. Breast Cancer Imaging Market Size, Share & Trends Analysis Report By Technology (Mammography System (2D, 3D)), Magnetic Resonance Imaging (MRI)–based Systems), By Stage Of Care (Diagnostic, Pre-treatment Planning), By End-use, By Region, And Segment Forecasts, 2025 - 2033

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Abstracts

The U.S. breast cancer imaging market size was estimated at USD 557.88 million in 2024 and is expected to reach USD 1,012.17 million by 2033, growing at a CAGR of 7.42% from 2025 to 2033. A key factor driving market expansion is the rising prevalence of breast cancer in the country. According to Breastcancer.Org In the year 2025, approximately 316,950 women are predicted to be diagnosed with invasive breast cancer in the U.S, along with 59,080 new cases of ductal carcinoma in situ (DCIS), a non-invasive form of the disease. Furthermore, approximately 16% of breast cancer is diagnosed in women under age 50. The article states that breast cancer continues to be the most diagnosed cancer in U.S. women, with an estimated one in eight women expected to be diagnosed in their lifetime. According to American Cancer Society, the incidence has been on the rise through the years due to aging population, lifestyle opportunities, and improvements in detection. The high incidence rates, as well as high mortality rates, has fueled the demand for improving breast imaging services, including mammography, breast MRIs, and digital breast tomosynthesis (DBT), these factors are propelling growth in the market.

By enhancing early detection and access to diagnostic services, government initiatives and screening programs have significantly increased the market for breast cancer imaging in the U.S. In order to reduce the number of deaths from breast cancer, The U.S. Preventive Services Task Force (USPSTF) recommends that women aged 40 to

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74 should undergo screening mammography every other year. By establishing uniform screening procedures nationwide, these recommendations ensure that more women receive imaging in a timely manner. In addition, to help with early detection and treatment, the U.S. Centers for Disease Control and Prevention (CDC)'s National Breast and Cervical Cancer Early Detection Program (NBCCEDP) provides low-income and underserved women with high-quality breast cancer screening and diagnostic services. These programs' data demonstrate that organized screening campaigns improve patient outcomes, enable earlier diagnosis, and boost adherence to suggested imaging schedules, facilitates earlier diagnosis, and improves patient outcomes. Consequently, government-endorsed screening programs expand access to advanced imaging technologies such as digital mammography, breast MRI, and digital breast tomosynthesis (DBT), thereby driving growth in the U.S. Breast Cancer Imaging market.

The expansion of imaging centers and diagnostic networks is playing a crucial role in the growth of U.S. breast cancer imaging market. Typically, imaging centers are outpatient establishments; some are privately owned, while others are run by healthcare systems or hospitals. These facilities frequently employ radiologists and doctors who diagnose and treat diseases using medical imaging, guaranteeing skilled interpretation of diagnostic tests.

Recent data provided by DEFINITIVE HEALTHCARE as of January 2025 indicates that there are approximately 15,000 imaging centers in the U.S., allowing for widespread access to breast cancer diagnostic services. The Midwest, Northeast, West and Southwest have more imaging centers compared to the Southeast This widespread geographic coverage makes it easier for patients to access important services like mammography, breast MRI, and ultrasound. It also helps with early detection and cell monitoring of patients. The growth and expansion of these centers emphasize the importance of growing diagnostic networks, which improve access for patients in various regions to screening and diagnostic capabilities, and address the growing imaging needs for breast cancer.

U.S. Breast Cancer Imaging Market Report Segmentation

This report forecasts revenue growth at the country level and analyzes the latest industry trends in each sub-segments from 2021 to 2033. For this study, Grand View Research has segmented the U.S. breast cancer imaging market report based on technology, stage of care and end-use:

Technology Outlook (Revenue, USD Million, 2021 - 2033)

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Mammography System (2D,3D)

Magnetic Resonance Imaging (MRI)-based systems

Nuclear Medicine- Based Systems

Ultrasound-Based Systems

Image-guided Biopsy

Others

Stage of Care Outlook (Revenue, USD Million, 2021 - 2033)

Diagnostics

Pre-treatment Planning

Monitoring

Surveillance (Follow-Up)

End-use Outlook (Revenue, USD Million, 2021 - 2033)

Hospitals

Diagnostic Imaging Centers

Breast Care Centers

Others

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