



Mammography with CAD (Computer-aided Detection)

Computer-aided detection (CAD) is a system for mammography that assists radiologists in breast cancer detection. Second Look™ CAD is a sophisticated screening tool that assists radiologists by providing a computerized second review of mammograms and is approved for both screening and diagnostic use. The review process draws their attention to potential areas of concern that may indicate the presence of cancer.

According to the American Cancer Society (ACS), breast cancer is the leading cause of death among women ages 35-54 in the United States. In 2001 alone, 192,200 new invasive cases of breast cancer were expected in the U.S. with approximately 40,200 deaths.

It's well documented that **early detection is the key to breast cancer survival**. Second Look CAD is designed to improve the process of mammography screening by calling a radiologist's attention to subtle types of changes in tissue that may indicate the presence of cancer. It provides a valuable second read that increases the chances of catching breast cancer.

While traditional mammography has proved to be a powerful tool in the fight against breast cancer, accurate reading of mammograms can sometimes be difficult. Even the most trained eye can miss subtle variations in tissue that may be of concern. The result is that 20 to 30 percent of cancers can go undetected during the screening process.

U.S. clinical trials, of approximately 9,000 patients performed at 18 leading medical institutions across the United States, have shown that 26.2% of cancers missed by a radiologist would be detected with the use of Second Look.

When it comes to patient care, one of Second Look's true benefits is that it requires no additional procedures. (Hospital spokesperson) explains, "With the use of Second Look, our patients don't have to go through additional procedures or testing. A standard mammogram is all that's required to perform CAD on mammograms."

So how does it work?

Once a patient has had their annual mammogram, the patient information is entered into the Second Look system using a bar code reader or interactive touchscreen. Next, the patient's mammogram is fed into the system and the

Second Look software analyzes it using proprietary algorithms. Second Look then produces a laser-printed report, the Mammagraph™, which highlights potential areas of concern with Massmarks™ and Calcmarks™.

After viewing the original mammogram, the radiologist uses the Mammagraph to assist with their interpretation.

We're excited to be offering this new technology in our clinics. In the fight against breast cancer, Second Look will assist us in the detection of breast cancer.