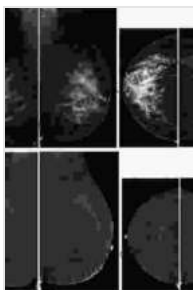


# Contrast Enhanced Mammography: Revolutionizing Breast Cancer Detection

Breast cancer is one of the most prevalent cancers among women worldwide, with early detection being crucial for effective treatment. Traditional mammography has been the primary screening method for decades, but it has limitations in detecting certain types of breast cancer, especially in dense breast tissue.



## Contrast-Enhanced Mammography by Kristina Benson

★★★★★ 5 out of 5

Language : English

File size : 31229 KB

Text-to-Speech : Enabled

Screen Reader : Supported

Enhanced typesetting : Enabled

Print length : 278 pages



To overcome these challenges, Contrast Enhanced Mammography (CEM) has emerged as a groundbreaking technique that enhances the visibility of breast lesions, leading to more accurate and timely diagnoses.

## Understanding Contrast Enhanced Mammography

CEM is a specialized mammography procedure that involves injecting a contrast agent into the patient's veins prior to the exam. The contrast agent circulates throughout the body and accumulates in areas of increased blood flow, such as tumors or other abnormal tissues.

During the CEM exam, X-ray images are taken after the injection. The contrast agent enhances the visualization of blood vessels and blood flow patterns, allowing radiologists to better detect and characterize breast lesions.

## **Benefits of Contrast Enhanced Mammography**

CEM offers several significant advantages over traditional mammography:

### **1. Improved Detection of Invasive Breast Cancer:**

CEM has been shown to improve the detection of invasive breast cancer, which is the most dangerous type of breast cancer. This is particularly important in women with dense breasts, where traditional mammography may miss up to 50% of cancers.

### **2. Increased Specificity:**

CEM helps reduce false positives by distinguishing between benign and malignant lesions. This reduces unnecessary biopsies and provides peace of mind for patients.

### **3. Earlier Detection:**

CEM can detect breast cancer at an earlier stage than traditional mammography. This allows for prompt treatment and improves the chances of successful outcomes.

### **4. Reduced Need for Biopsy:**

CEM's improved specificity and accuracy can often eliminate the need for biopsies, which are invasive and can cause anxiety.

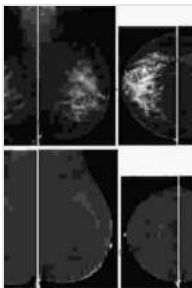
## The Role of Kristina Benson in Contrast Enhanced Mammography

Kristina Benson, a renowned breast imaging expert, has played a pivotal role in the development and advancement of CEM. Dr. Benson's research has demonstrated the effectiveness of CEM in detecting breast cancer, especially in women with dense breasts.

Dr. Benson's work has contributed significantly to the acceptance and widespread adoption of CEM as a valuable screening tool. Her expertise and dedication have helped improve the lives of countless women by enabling earlier and more accurate breast cancer detection.

Contrast Enhanced Mammography is a revolutionary breast cancer detection technique that offers numerous advantages over traditional mammography. With its ability to improve the detection rate, reduce false positives, and detect cancer at an early stage, CEM is transforming the landscape of breast cancer screening.

The pioneering work of Dr. Kristina Benson has been instrumental in advancing CEM and making it a crucial tool in the fight against breast cancer. By empowering women with more accurate and timely diagnoses, CEM is saving lives and providing hope for a brighter future.



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