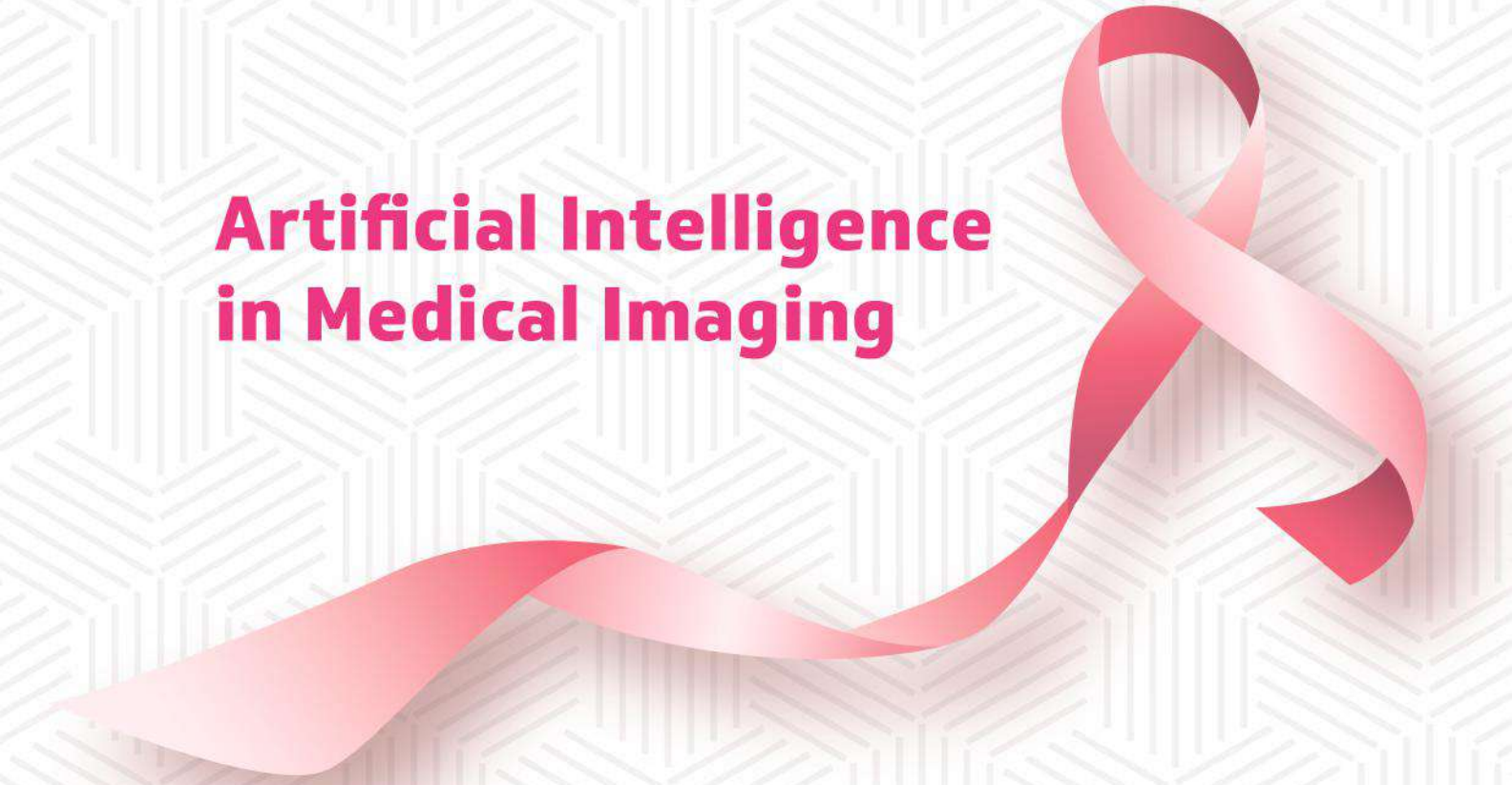


Artificial Intelligence in Medical Imaging

MammoAssist

Early Stage Breast Cancer Detection

Telerad Tech®
Smarter Healthcare On Demand
info@teleradtech.com | www.teleradtech.com

Mammo Assist™

MAMMOASSIST

MammoAssist is an intelligent AI algorithm developed using Deep Learning and Image Processing approach in the field of radiology which analyzes Mammograms for **Early Stage Breast Cancer Detection**. It identifies critical clinical findings including **BI-RADS Categorization** in turn enhancing the ability of a radiologist to accurately report cases with High Accuracy and Efficiency. It provides **Standard Interface with Healthcare Systems** through industry standard protocols as well as it is capable of generating fully automated preliminary analysis report.

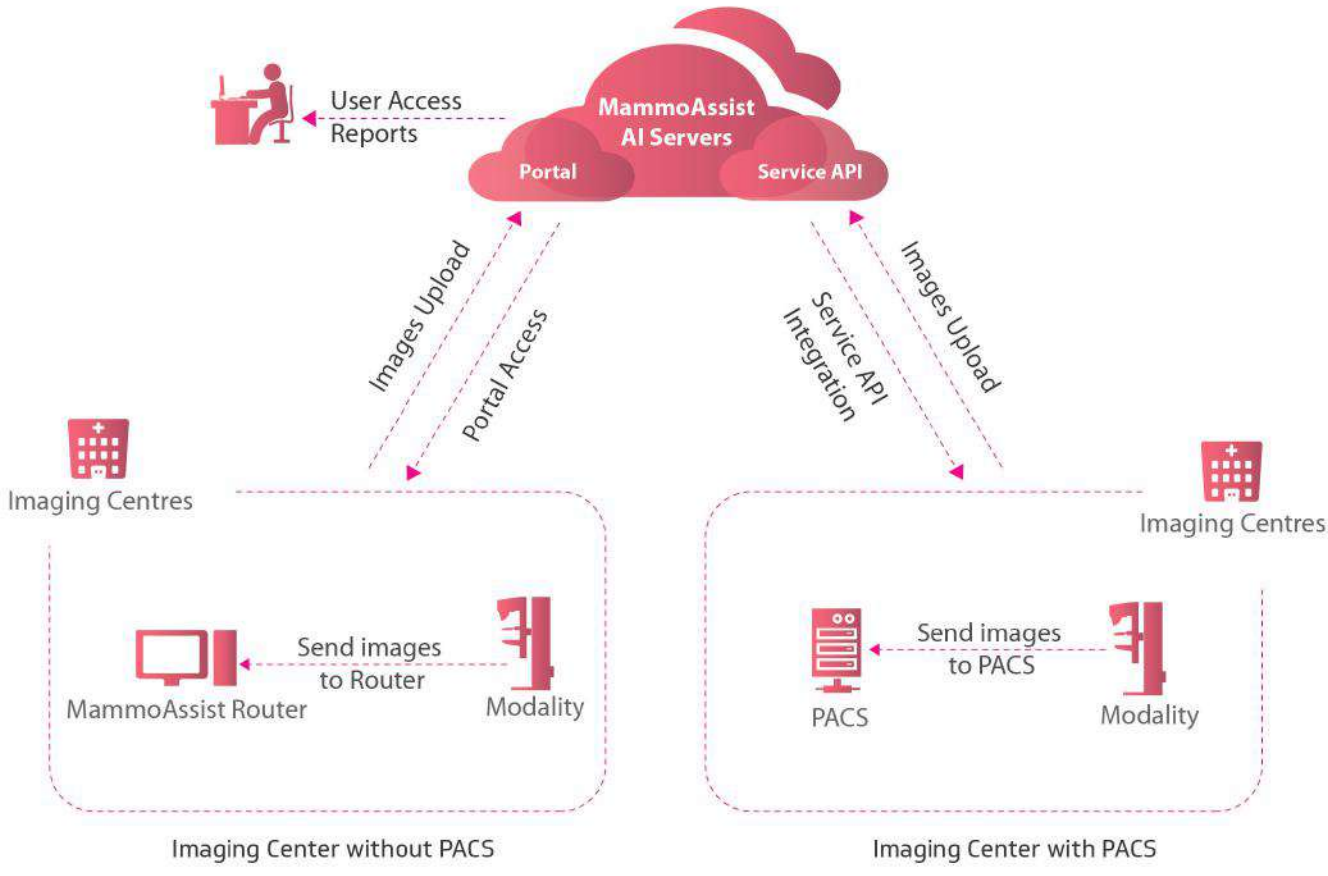
DETECTION CAPABILITIES

- Breast Parenchyma Composition
- Bilateral Breast Volume
- Micro & Macro Calcification
- Clustered Calcification
- Architectural Distortion
- Lesion & Lymph Node
- Shape, Size, Location & Density
- BI-RADS Categorization

VALUE PROPOSITION

- Critical Clinical Findings
- Mass Screening
- Structured Reporting
- Increased Productivity
- Enhanced Accuracy
- Improved Consistency
- Automated QA
- Detailed Preliminary Analysis Report

CLOUD BASED MAMMOASSIST



Preliminary Analysis Reports

Available in English | Spanish | French | Portuguese | Polish | Italian | German

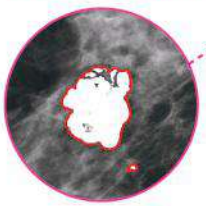
CALCIFICATION MICRO, MACRO, CLUSTERED

CASE - 1

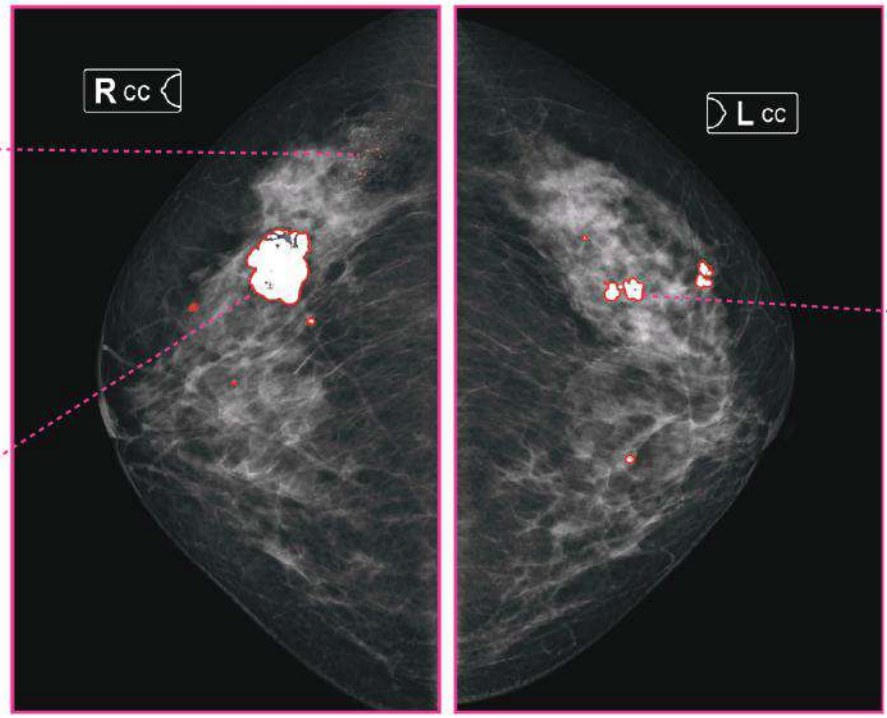
MICRO CLUSTER CALCIFICATION

Cluster Count: 01
Location: Posterior Lateral

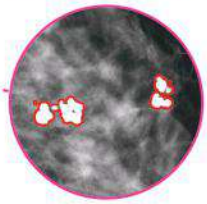
MACRO CALCIFICATION



Macro Count: 04
Location: Posterior Medial
Size: 2.368 cm x 1.976 cm

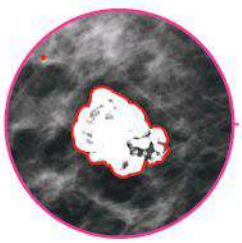


MACRO CALCIFICATION

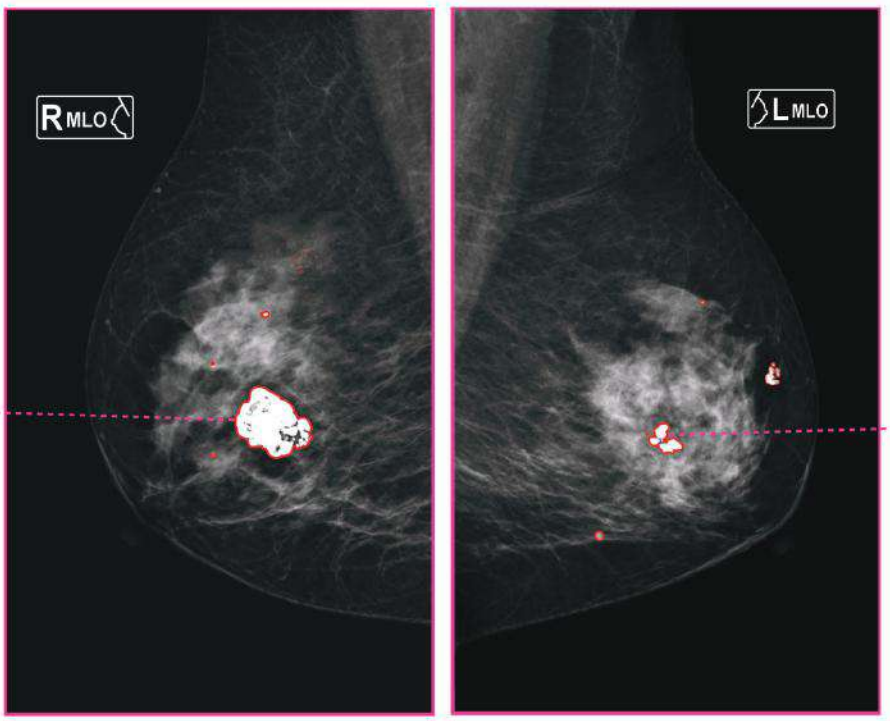


Macro Count: 05
Location: Middle Lateral
Size: 1.315 cm x 1.002 cm

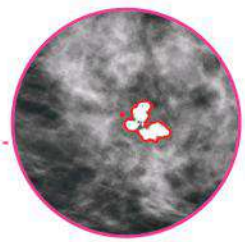
MACRO CALCIFICATION



Macro Count: 04
Location: Superior
Size: 2.494 cm x 2.346 cm



MACRO CALCIFICATION



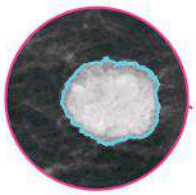
Macro Count: 06
Location: Inferior
Size: 1.208 cm x 1.107 cm

AI ANALYSIS

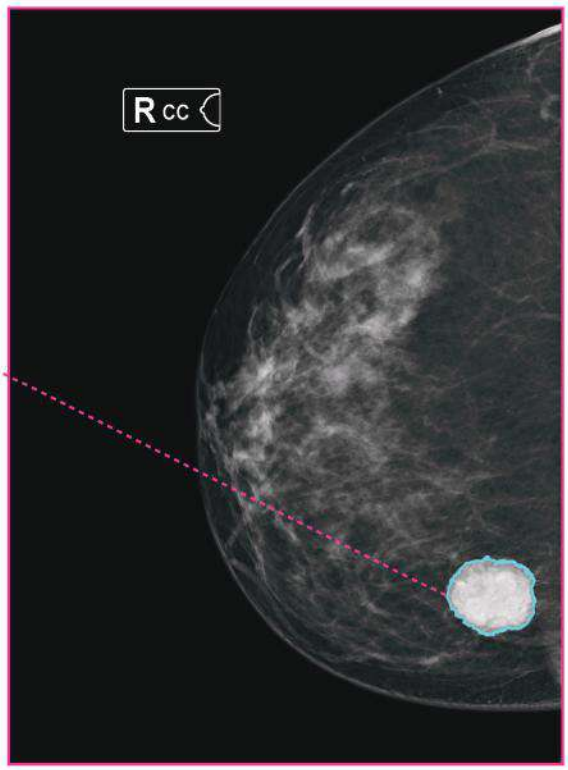
- **Breast Parenchyma Composition**: ACR Type 3 (Heterogeneously Dense)
- **Bilateral Breast Volume**: Asymmetric
- **Calcification**: RCC - Clustered Calcification detected at Posterior Medial position measuring 2.368 cm x 1.976 cm
  LCC - Macro Calcification is detected at Middle Lateral position measuring 1.315 cm x 1.002 cm
- **Lesion**: Absent
- **Architectural Distortion**: Absent
- **ACR BI-RADS Assessment Category** – 4 (Probably Benign Finding - Short interval follow up suggested)

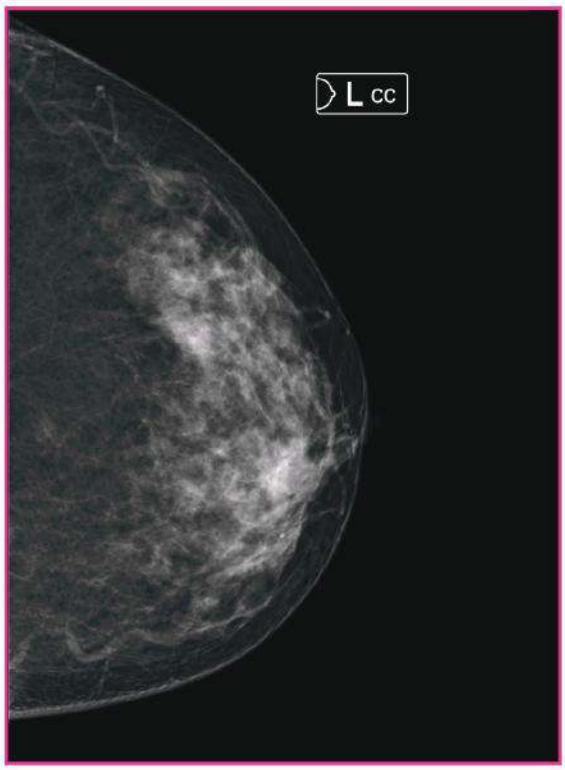
LESION ANALYSIS

CASE - 2

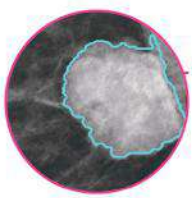


Shape: Round
Size: 2.755 cm x 2.680 cm
Density: High
Location: Posterior Medial

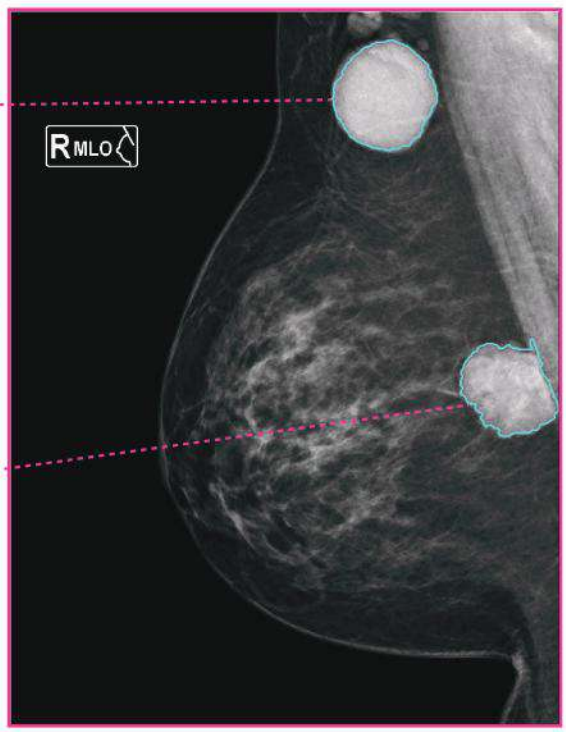




Shape: Round
Size: 3.734 cm x 3.267 cm
Density: High
Location: Posterior Superior



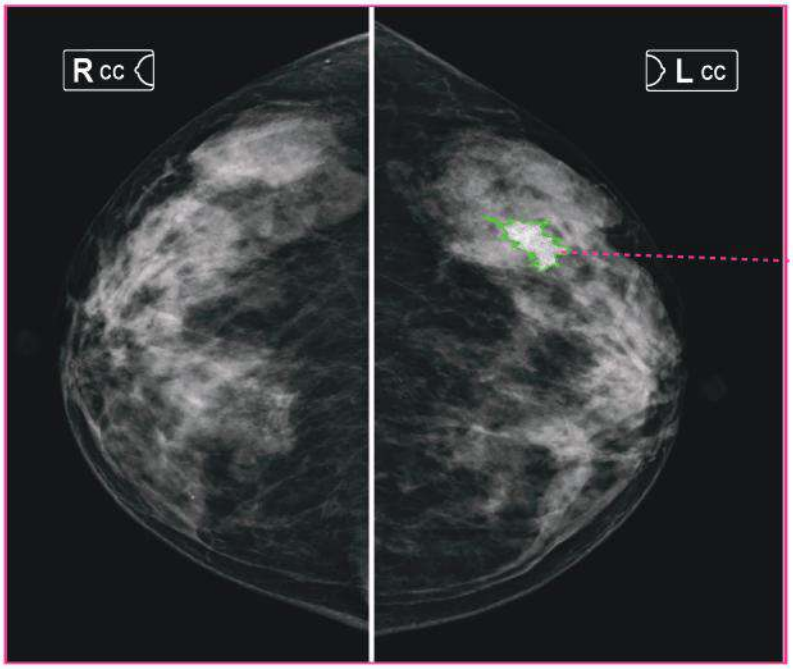
Shape: Round
Size: 2.755 cm x 2.680 cm
Density: High
Location: Posterior Inferior



AI ANALYSIS

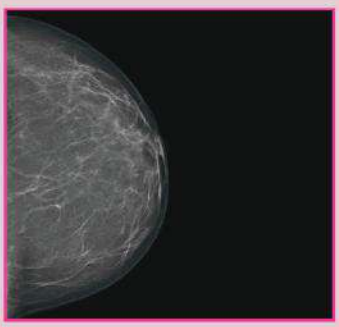
- **Breast Parenchyma Composition**: ACR Type 3 (Heterogeneously Dense)
- **Bilateral Breast Volume**: Asymmetric
- **Calcification**: Absent
- **Lesion**: RCC - High Dense Round Lesion detected at Posterior Medial position measuring 2.755 cm x 2.680 cm
  RMLO - High Dense Round Lesion detected at Posterior Superior & Posterior Inferior position measuring 3.734 cm x 3.267 cm & 2.755 cm x 2.680 cm respectively
- **Architectural Distortion**: Absent
- **ACR BI-RADS Assessment Category** – 5 (Probably Benign Finding - Short interval follow up suggested)

BILATERAL ASYMMETRY & ARCHITECTURAL DISTORTION

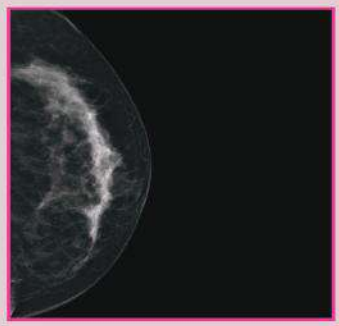


Location:
Posterior Lateral

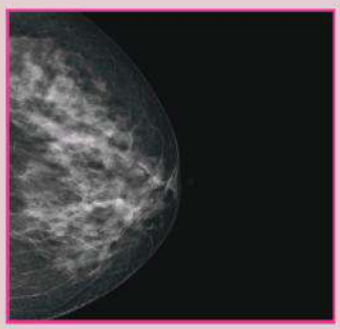
BREAST PARENCHYMA COMPOSITION



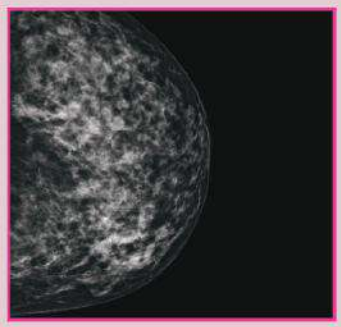
Type 1: Entirely Fat



Type 2: Scattered FibroGlandular

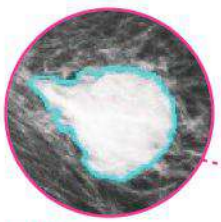


Type 3: Heterogeneously Dense

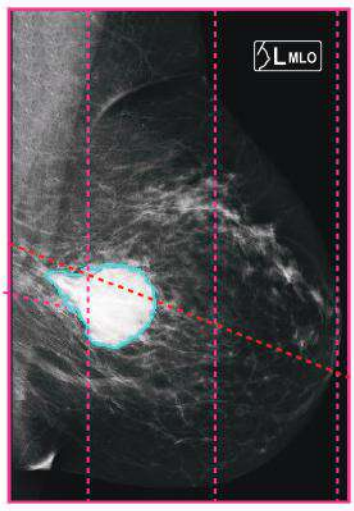


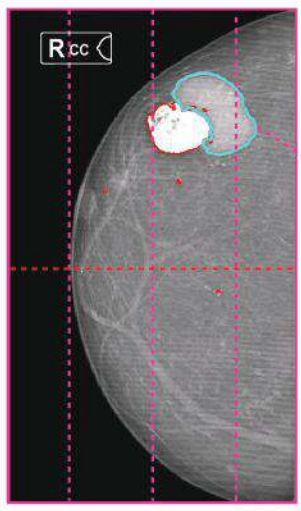
Type 4: Dense FibroGlandular

SHAPE, SIZE, LOCATION & DENSITY

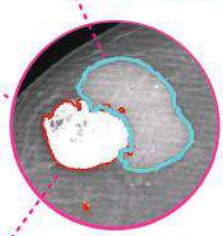


Lesion
Shape: Partially Round
Size: 2.398 cm x1.560 cm
Density: High Dense
Location: Superior Middle





Lesion
Shape: Partially Round
Size: 4.030 cm x 2.530 cm
Density: High Dense
Location: Middle Lateral



CALCIFICATION
OVERLAPPING LESION

Macro Calcification
Count: 1
Size: 2.401 cm x 2.250 cm
Location: Middle Lateral

Every 19th second, a woman is diagnosed with breast cancer &
Every 74th second someone dies from breast cancer

Mammo Assist™

EARLY DETECTION SAVES LIVES

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25/10/2018