iCAD®

# PowerLook®
# Density Assessment

## Benefits Include:

Provides objective and consistent breast density assessments

Ability to integrate and automate breast density reporting within the facility's RIS/MIS, which may include patient notification letters or risk model integration

Deep-learning AI multi-vendor solution offers highest matching accuracy for dense and non-dense assessment on the market [1,2]

## The world's first and only multi-vendor deep learning algorithm for standardizing breast density assessments[1]

PowerLook Density Assessment software simplifies and standardizes breast density reporting and stratification, with accurate and reliable results.[2]

Using mammographic images, it analyzes the woman's breast anatomy and categorizes her breast density within the appropriate BI-RADS® 5th edition density category. This innovative solution automates the process of breast density reporting and empowers clinicians to further personalize breast cancer screening recommendations for patients.

## Remove the Challenges of Subjectivity

Dense breasts can make it challenging to detect breast cancer during annual screenings as overlapping tissue can hide or mimic breast cancer, even with digital breast tomosynthesis (DBT) exams.

Breast density assessment has traditionally been determined by the radiologist's visual assessment, but studies show that these can vary and clinicians may even disagree with their own assessment year to year.[3] This can be confusing for patients, lead to unnecessary additional imaging, and increase patient and facility costs.

PowerLook Density Assessment software removes the challenges of subjectivity in breast density reporting. Using full field digital mammography (FFDM) or synthetic 2D images, it analyzes the dispersion and texture of breast tissue, delivering clinicians a consistent, accurate, and reliable patient-specific breast density assessment.
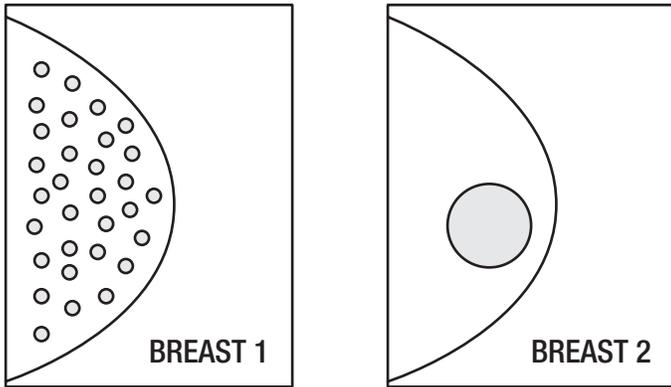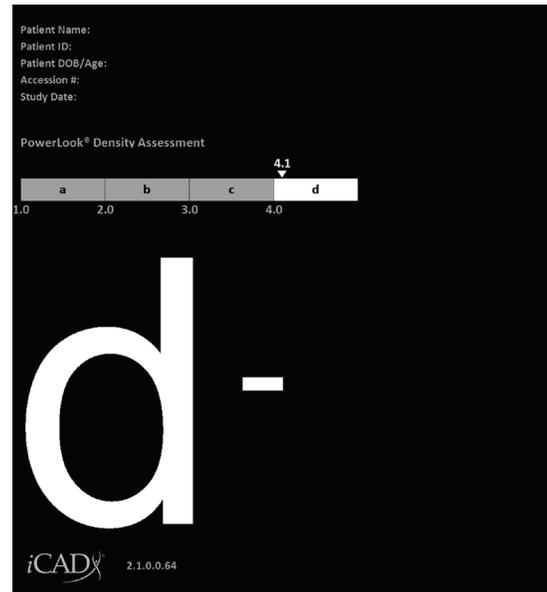
BREAST 1

BREAST 2

Breast 1 may have a higher percentage of dense breast tissue by volume, but Breast 2 has the greater chance of obscuring a cancerous lesion.

## Breast Density Facts

Breast density is one of the strongest and most prevalent breast cancer risk factors.[4] As breast density increases, the risk of developing breast cancer increases.[5]

Approximately 50% of all women age 40 and older have dense breasts.[6]

Studies show wide variation [6-85%] in visual assessment agreement, and radiologists may even disagree with their own assessment year to year.[3]



Clinical Support Decision Scorecard

References:
1.  Based on publicly available data as of September 2021. For GE and Hologic only. Uses 2D synthesized images.
2.  iCAD data on file.
3.  Sprague B, Conant E, Onega T et al. Variation in Mammographic Breast Density Assessments Among Radiologists in Clinical Practice:  A Multicenter Observational Study. Ann Intern Med. 2016; 165(7):457-464. doi:10.7326/M15-2934.
4.  Engmann NJ, Golmakani MK, Miglioretti DL, Sprague BL, Kerlikowske K, Breast Cancer Surveillance C. Population-Attributable Risk Proportion of Clinical Risk Factors for Breast Cancer. JAMA Oncology 2017; 3:1228-1236.
5.  McCormack, VA and dos Santos Silva, I. Breast density and parenchymal patterns as markers of breast cancer risk: a meta-analysis. 2006, Cancer Epidemial Biomarkers Prev, Vol. 15, pp. 1157-1169.
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