

BREAST DENSITY ASSESSMENT

NOW USING VOLPARA® DENSITY™ SOFTWARE

The importance of breast density

Studies show that digital mammography is significantly less effective in women with dense breasts and that dense breast tissue can mask the visualisation of cancers. High breast density refers to when there is relatively little fat in the breast and an increased level of connective and glandular tissue. The density makes it difficult to interpret a mammogram and detect small changes because both cancer and dense breast tissue appear white on a mammogram. High breast density is one of the strongest independent risk factors for developing breast cancer.

Measuring breast density

Queensland X-Ray uses Volpara®Density™ software (VolparaDensity), a powerful tool to help our radiologists provide an objective and quantitative report on the density of breast tissue. Every patient that has a mammogram with us will receive this information as part of the report that we send to you.

Traditionally, radiologists have relied on a 2D visual assessment of a mammogram to assess breast density which can be challenging. The VolparaDensity software has been specifically developed to generate mathematical breast density measurements based on the 3D properties of a woman's breasts. AI is used to assess breast density, providing consistent and objective results that can help physicians to better manage the breast care of their patients. This consistency provides our radiologists with greater confidence that we are not including women who do not really need to have additional imaging done, or excluding women who would benefit most from it.

Benefits at a glance

- ▶ Uses AI to assess breast density which provides objective results compared to human assessment.
- ▶ Easily and immediately identifies women who may benefit from supplemental breast screening and provides a science-based justification for this.
- ▶ Provides a repeatable, consistent and objective way of scoring breast density.
- ▶ Independent studies show a high correlation between the volumetric breast density, as assessed by Volpara, and breast cancer risk.
- ▶ Produces a scorecard that appears on the radiologist's and technologist's workstation, streamlining supplemental screening discussions with the patient.
- ▶ Helps women to understand more fully the management of their breast health and the risks that they may, or may not, face.



Source: Volpara Health (<https://volparahealth.com>)

Volpara scorecard

These images depict examples of different breast composition with software generated breast density measurements.

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(<https://volparahealth.com>)

