

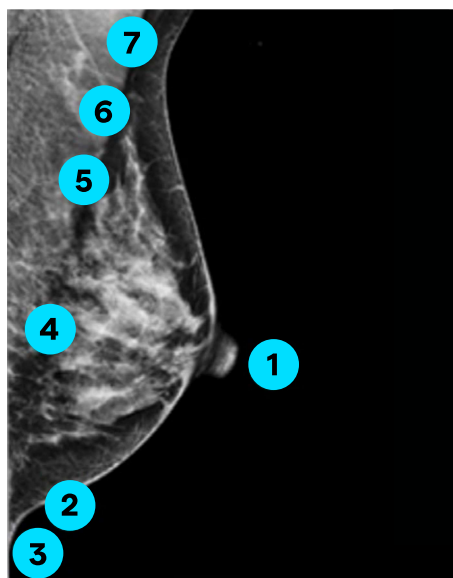
# Positioning

## Volpara® Analytics™ Technologist Training

### Notes

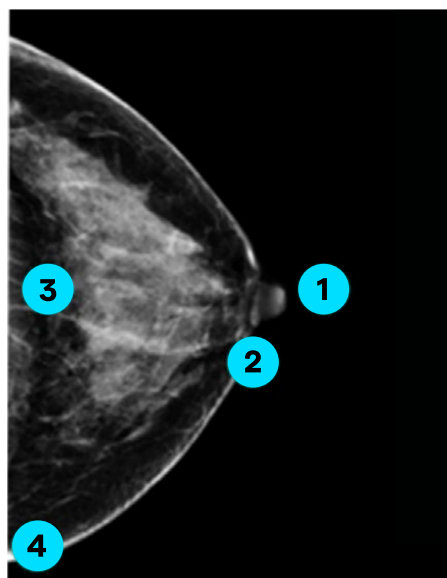
- Every CC and MLO view is evaluated by the Volpara® TruPGMI™ clinical function
- Volpara TruPGMI categorizes images based on metrics: how well they met, partially met, or didn't meet the metrics.

### Volpara TruPGMI Metrics for MLO View



- 1 Nipple in profile
- 2 Inframammary fold (IMF) visible
- 3 Inferior breast tissue has no cutoff
- 4 Pectoral muscle length
- 5 Pectoral muscle shape
- 6 Pectoral muscle adequacy
- 7 No pectoral skin folds

### Volpara TruPGMI Metrics for CC View



- 1 Nipple in profile
- 2 Nipple in midline of imaged breast
- 3 Posterior nipple line (PNL) within 1 cm of PNL on MLO view
- 4 Breast tissue has no cutoff

#### Perfect

Highest Diagnostic Quality

This mammogram is an example of excellent work by the technologist.

#### Good

This mammogram is high quality.

#### Moderate

This mammogram is acceptable quality; technologist would be unlikely to repeat image(s).

\* Extenuating circumstances, such as body habitus or mobility issues, may limit the technologist's ability to obtain an adequate study.

#### Inadequate\* \*\*

Lowest Diagnostic Quality

This mammogram is poor quality; technologist might repeat image(s).

\*\* Mosaic or tiled images may be categorized as Inadequate.

### Contact

Questions or issues, please contact  
support@volparahealth.com

# Compression

## Volpara Analytics Technologist Training

### Notes

- Compression is critical to image quality
- Volpara measures and displays compression in pressure (kPa)
- Pressure (kPa) depends on
  - Amount of applied force (dN, N, or lb.)
  - The contact area between the breast and the paddle
- Target compression is found to increase cancer detection<sup>1</sup>

### Breast Size, Force, and Pressure: Target Range\*

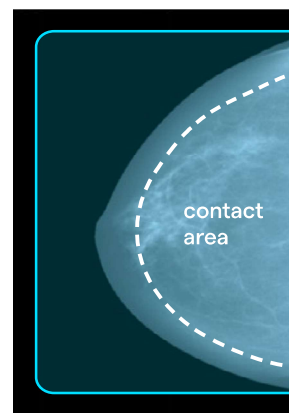
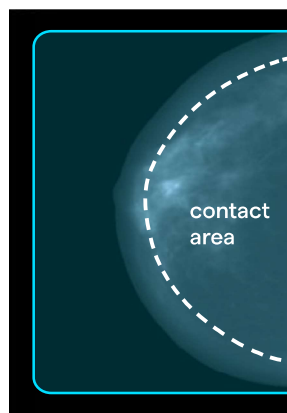
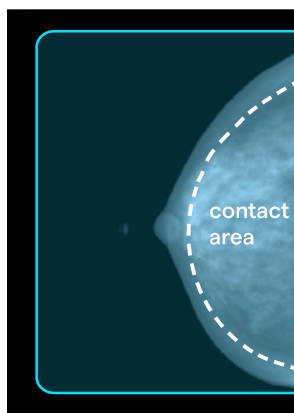
Pressure = Force ÷ Area

#### Breast size reference:

Small breast approx.  
0–500 cm<sup>3</sup>

Medium breast approx.  
500–1200 cm<sup>3</sup>

Large breast above approx.  
1200 cm<sup>3</sup>



Applied Force

\*Approx. values

7–16 lb.  
(31–73 N)

14–30 lb.  
(63–135 N)

17–37 lb.  
(77–165 N)

Pressure Result

7–15 kPa

7–15 kPa

7–15 kPa

### Performance and Benchmarks

Weighted 60/40 in favor of positioning over compression performance.

A score of 4 would mean 100% of images were Perfect or Good and in the target compression range.

Focus	Below 1.62
Okay	1.62 - 2.04
Global Median	2.05 - 2.26
Excellent	2.27 or more



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#### References

1. Holland et al. Breast Cancer  
Research (2017) 19:126

# Data Interpretation

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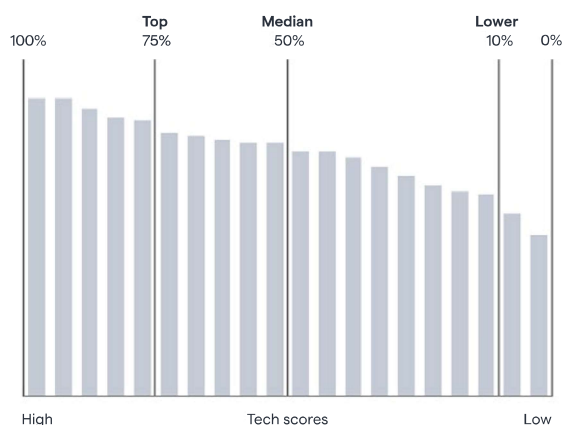
- Benchmarks have been created to provide positive performance feedback that is actionable and transparent
- Colour coding is used to easily visualize high performance areas and areas needing focus

### Benchmarks

- Analytics 3.0 benchmarks are based on over 3 million images from more than 2,000 technologists
- For each metric (Quality, Positioning, and Compression) all scores were ranked from highest to lowest and split into four percentile categories
- Where an individual score lands in a percentile category designates its assignment as either Excellent, Global Median, Okay, or Focus

75% - 100%	Excellent
50% - 75%	Global Median
10% - 50%	Okay
0% - 10%	Focus

Benchmarks defined

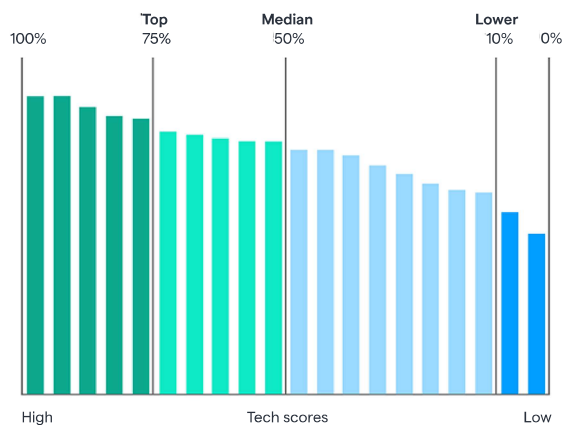


### Colour Coding

- Each benchmark is colour coded making it easy to visualize performance
- This colour coding is reflected through the application on all metric driven graphics

Key	You'll see the colour when
<span style="color: blue;">●</span> Focus	A particular metric needs attention
<span style="color: lightblue;">●</span> Okay	There is room for improvement on a particular metric
<span style="color: teal;">●</span> Global Median	You are on par with global averages
<span style="color: green;">●</span> Excellent	High quality performance has been achieved

Benchmarks defined



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