

syngo.Breast Care

# Your partner for smart reading. Powered by AI.

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**SIEMENS**  
Healthineers 

# ***syngo*.Breast Care – Your partner for smart reading. Powered by AI.**

In mammography, radiologists face an increasing amount of data from multiple sources every day. Your smart partner for mammography reading, *syngo*.Breast Care helps you overcome these challenges with automated workflows and AI-powered tools<sup>1</sup>. Get reliable, actionable results through interactive decision support and intelligent case prioritization – letting you focus on what really matters.

## **Improve care with more accurate patient diagnosis**

*syngo*.Breast Care includes automatic positioning measurements<sup>3</sup>, the display of individual breast density values<sup>3</sup>, and AI-based color-coded lesion scores<sup>1</sup>.

## **Accelerate clinical decisions with AI-powered tools<sup>1</sup>**

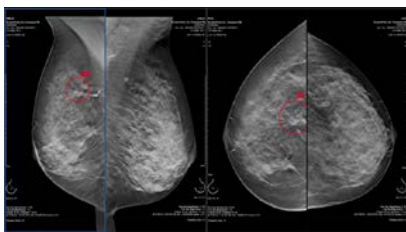
With *syngo*.Breast Care you can tailor your workflow with intelligent case score evaluation<sup>3</sup>, automatic lesion correlation in all corresponding views<sup>3</sup>, and automated o'clock positioning<sup>3</sup>.

## **Reduced reading workload**

*syngo*.Breast care offers SmartSort Technology based on intelligent clinically proven case scoring<sup>1</sup> for a smart prioritization of 2D and 3D mammography cases right from the patient worklist.

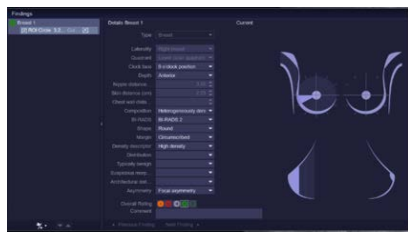
## **Integration into *syngo*.via platform**

Based on the leading *syngo*.via<sup>2</sup> reading solution, *syngo*.Breast Care can be seamlessly integrated into your IT environment.



### Interactive decision support

- Accurate, AI-powered, color-coded lesion scoring<sup>1</sup>
- AI-powered global case score evaluation<sup>1</sup>
- Smart Sort Technology including case prioritization<sup>1</sup> (allows more time for more difficult cases and dismiss negative ones faster)



### O'clock positioning<sup>3</sup>

- In 3D automated calculation of the quadrant and o'clock position for the specified lesion
- Automatic transfer of o'clock position into the report

### One-click measurements<sup>3</sup>

- Display of lesion distance to skin line, nipple and chest wall
- Highly trained algorithms calculates the objective value



### Link-it correlation<sup>3</sup>

- Links corresponding regions of interests in other views
- Includes prior comparisons and multi-vendor data

# Interactive decision support with Transpara

The interactive decision support Transpara® AI helps you find the actionable cancers more quickly. The software is commercially available – CE marked and FDA cleared – for 2D and 3D mammography. Multiple independent peer reviewed publications demonstrate improvement in accuracy and consistency. Transpara is compatible with Siemens Healthineers mammography systems and can be fully integrated into syngo.Breast Care.

## Increased accuracy with automatic lesion scoring<sup>4</sup>

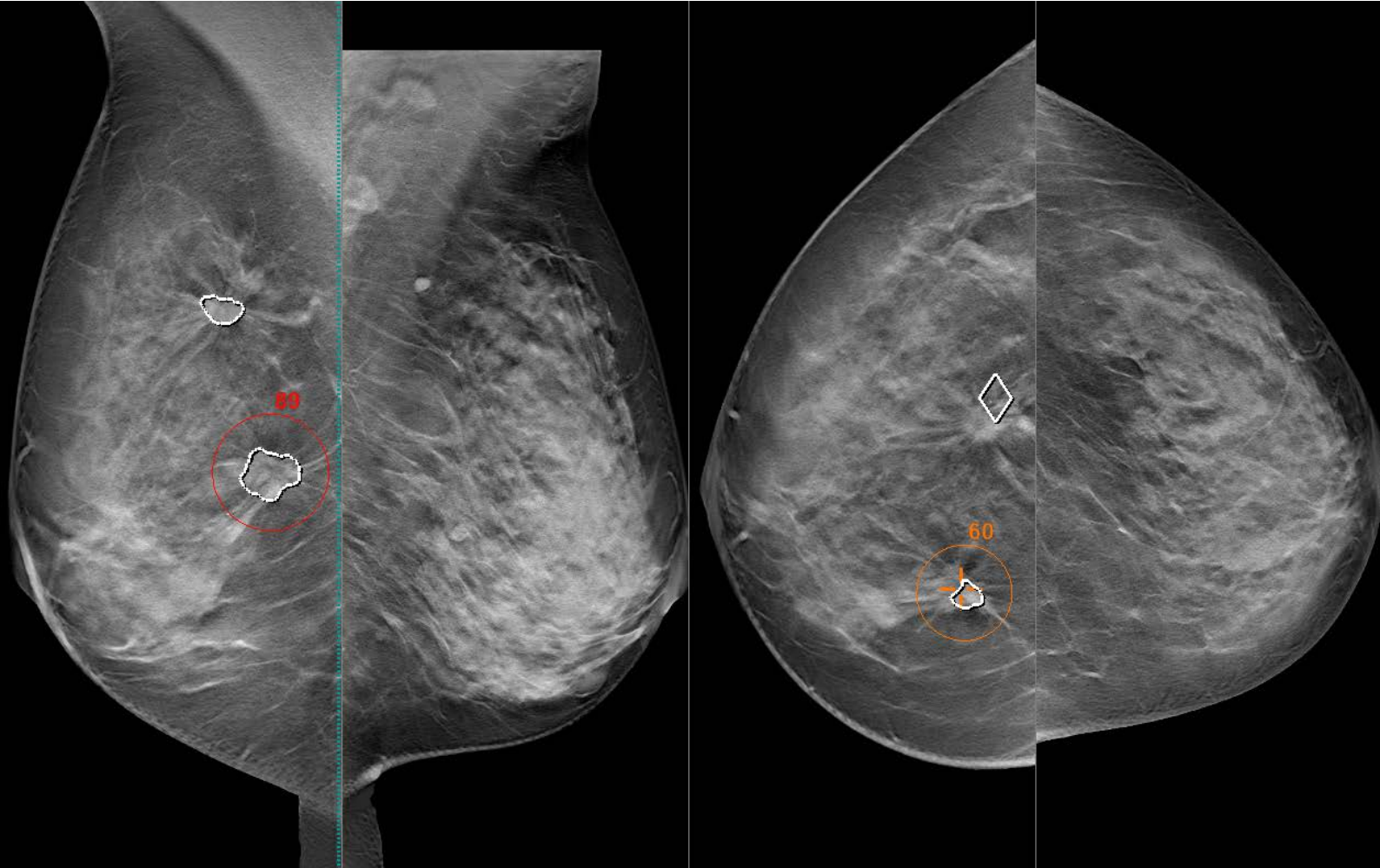
- Interactive, one-click display
- Intuitive color coding
- Accurate malignancy score

## Accelerated workflows with Exam Score

- Ranging from 1 to 10 (highest malignancy score)
- Highly trained algorithms from thousands of multi-vendor data
- Considers calcs, masses and architectural distortions

## Expedited scrutiny of corresponding views with lesion correlation

- Fast and direct overview
- Includes synthetic view correlation
- Works with multi-vendor data



## The trinity of decision support



### Exam Score

Reduce or prioritize your screening workload



### Detection Aid

Detect earlier, with confidence



### Region Analysis

AI at your fingertips

Transpara **automatically identifies** soft-tissue and calcification lesions in **2D and 3D mammograms**. Findings are shown to radiologists including an objective second opinion, a scientifically-proven method that boosts reading performance<sup>5</sup>.

In addition, based on the findings from all views of the exam, each case is categorized using the innovative **Exam Score**, which **categorizes the exams** according to their risk of harboring cancer and can be used to automatically **triage exams with confidence**.

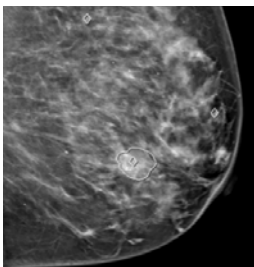
# Comprehensive IT integration and compatibility

When dealing with the enormous number of cases in mammography screening and diagnostics, it is key to ensure efficient reading and reporting processes. *syngo*.Breast Care delivers individual and automated workflows with highly innovative reading tools to increase your diagnostic performance. With the integration of AI-based CAD systems into *syngo*.Breast Care radiologists can improve their performance and gain added confidence in their diagnosis.

## Improve your workflow with AI-based reading support<sup>3</sup> – compatible with *syngo*.Breast Care

### iCAD ProFound AI™

- Multi-vendor solution specifically designed for DBT
- Seamless integration into *syngo*.Breast Care
- Based on deep convolutional neural networks (Deep Learning) – Localizes, segments and classifies breast lesions
- Analyzes all DBT slices to detect soft tissue lesions (masses, architectural distortions and asymmetries) and calcifications
- Certainty of Finding Score for each detection (Algorithm's confidence that a detection is malignant)
- Designed to be used concurrently while reading DBT
- Multiple output formats for flexibility in PACS/workstation display



### ScreenPoint Medical Transpara®

- Identifies findings based on deep-learning algorithm derived from multivendor 2D mammograms and 3D tomosynthesis data
- Seamless integration into *syngo*.Breast Care
- Displays a color-coded lesion score
- Displays the likelihood of cancer from 1–10 for the entire case, allowing case prioritization (takes into account all masses, lesions or micro-calcifications)
- Lesion correlations provide additional support and if needed, traditional CAD markings on calcs and masses are displayed (Detection Aid)
- Displays lesion score upon interaction with the radiologist
- SmartSort Technology including case prioritization for triaging
- Transpara is compatible with major mammography and workstation vendors/DICOM compatible for PACS integration



## Take advantage of integration into the *syngo.via*<sup>2</sup> platform

Leverage the scalable operational performance of *syngo.via*<sup>2</sup>

- From a dedicated reading workplace to enterprise solutions
- Increase capacity and performance when and where you need it

Access all relevant data and images fast and flexible

- Client-server architecture
- Concurrent users and floating licenses
- Seamless integration with RIS and PACS

Benefit from vendor-neutral multi-modality reading

- Comprehensive Breast imaging incl. synthetic 2D, contrast enhanced mammography, MRI and ultrasound
- Wide range of *syngo.via* applications beyond breast imaging

## Flexibility in IT – Choose the monitors you prefer

Choose between different multi-vendor diagnostic displays or decide to continue with already existing monitors.

High-end color 12MP monitor, BARCO Uniti



Bundle of 2x5MP grey-scale monitors, EIZO RadiForce GX540



Innovative color 8MP monitor, EIZO RX850



syngo.Breast Care is not commercially available in all countries. Due to regulatory reasons, its future availability cannot be guaranteed. Please contact your local Siemens Healthineers organization for further details.

<sup>1</sup> This feature is an option and available with syngo.Breast Care VB40. Powered by Transpara®, ScreenPoint Medical.

<sup>2</sup> syngo.via can be used as a standalone device or together with a variety of syngo.via-based software options, which are medical devices in their own right. syngo.via and the syngo.via based software options are not commercially available in all countries. Due to regulatory reasons its future availability cannot be guaranteed. Please contact your local Siemens Healthineers organization for further details.

<sup>3</sup> Option

<sup>4</sup> Detection of Breast Cancer with Mammography: Effect of an Artificial Intelligence Support System, Rodríguez-Ruiz A, Krupinski E, Mordang J.J, Schilling K, Heywang-Köbrunner S, Sechopoulos I, Mann R, Radiology 2019 290:2, 305-314

<sup>5</sup> Can we reduce the workload of mammographic screening by automatic identification of normal exams with artificial intelligence? A feasibility study, Rodríguez-Ruiz A, Lång K, Gubern-Merida A, Teuwen J, Broeders M, Gennaro G, Clauser P, Helbich T.H, Chevalier M, Mertelmeier T, Wallis M.G, Andersson I, Zackrisson S, Sechopoulos I, Mann R.M, Eur Radiol (2019). <https://doi.org/10.1007/s00330-019-06186-9>

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