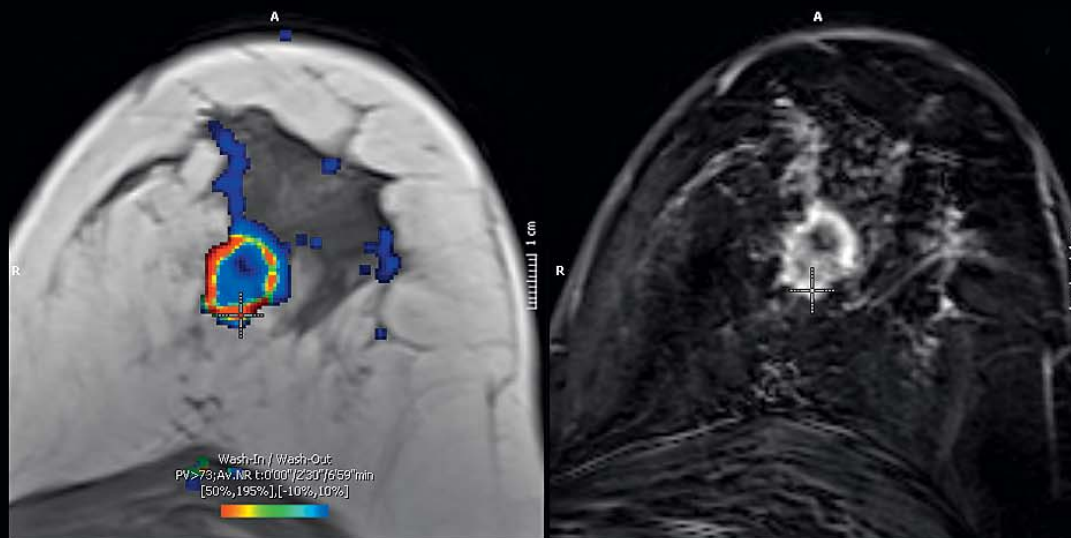


SIEMENS



www.siemens.com/BreVis

syngo BreVis & *syngo* BreVis Biopsy

Streamlined breast reading, reporting and biopsy path planning

Answers for life.

syngo BreVis & syngo BreVis Biopsy

How to deal with 3000 breast images?

How to smoothly plan a breast biopsy although you are not doing it on a daily basis?

Our computer-aided tools *syngo* BreVis for real-time breast analysis and *syngo* BreVis Biopsy for interventional breast procedure planning are available for Siemens *syngo* workplaces (e.g. MultiModality Workplace).

syngo BreVis

syngo BreVis is easy-to-use, fast, and reliable. Quick pre-processing, which includes elastic motion correction in case of patient movement, enables efficient breast reading and reporting.

This flexible tool provides various functionalities such as:

- Intelligent visualization of 2D-, 3D- and 4D-datasets according to customized layouts, e.g. dedicated layouts for intervention, implant evaluation, multiple time point follow-up
- Multi-modality viewing capabilities
- Reporting according to BI-RADS* standard
- On-the-fly reconstruction of subtracted images
- Auto-MultiPlanar Reformatted images (MPR) and auto-Maximum Intensity Projection (MIP)
- Real-time display and analysis of kinetic parameters (time-course evaluation, color overlay maps to visualize angiogenesis or curve types)
- Graphical volume statistics of lesion enhancement
- Calculation of lesion volumes

syngo BreVis Biopsy

syngo BreVis Biopsy is a professional solution for a fast and accurate MR biopsy workflow with automatic calculation of target coordinates.

The easy-to-handle workflow enables shorter examination times for both patient and operator. The user interface offers a guide for MR breast interventional planning, supporting following biopsy systems:

- Sentinelle Vanguard
- 4-ch BI Breast Coil
- Invivo BBC
- Noras BI 320
- Related accessories including the post-pillar and grid method

syngo BreVis Biopsy enables path planning directly at the scanner – no sending of data over the network required.

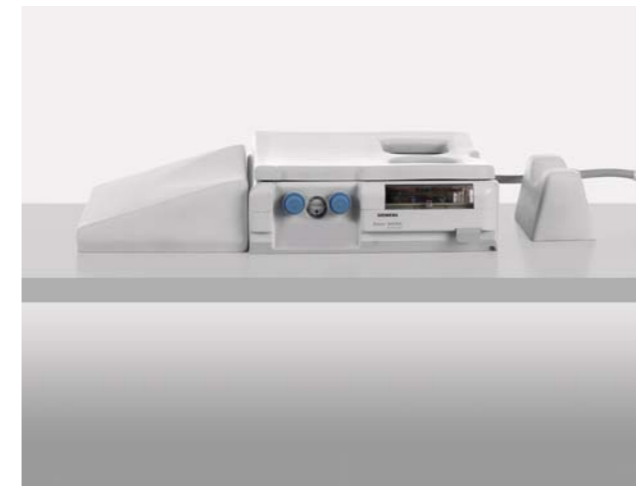
16-ch AI Breast Coil for diagnostic imaging



4-ch BI Breast Coil for biopsy



Breast Matrix Coil for diagnostic imaging

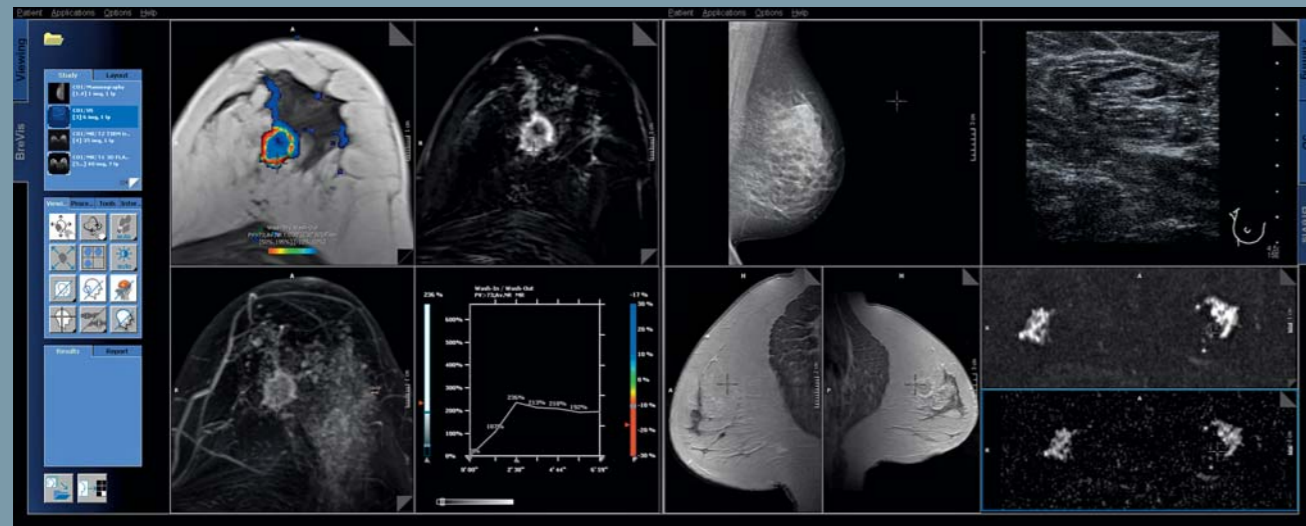


Sentinelle Vanguard for biopsy

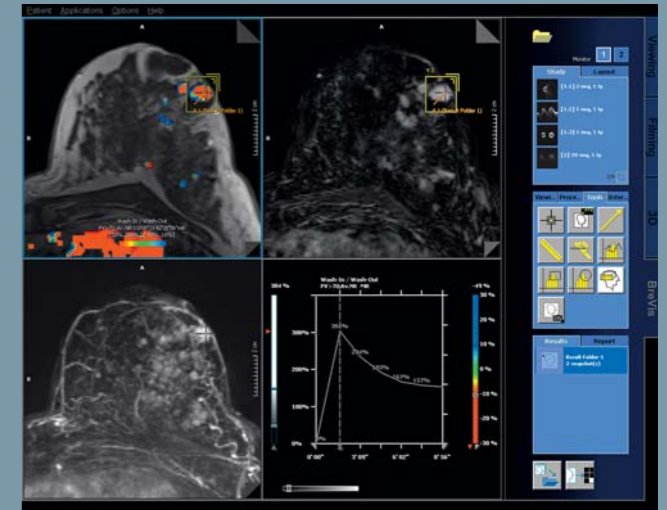


syngo BreVis

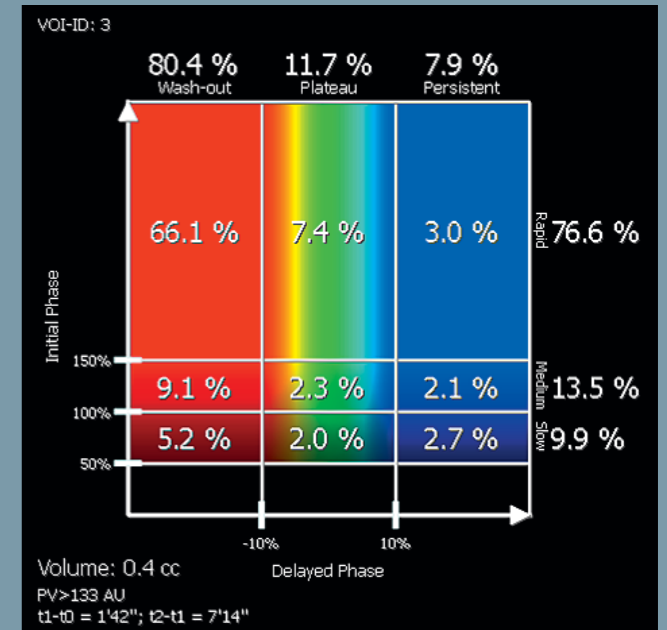
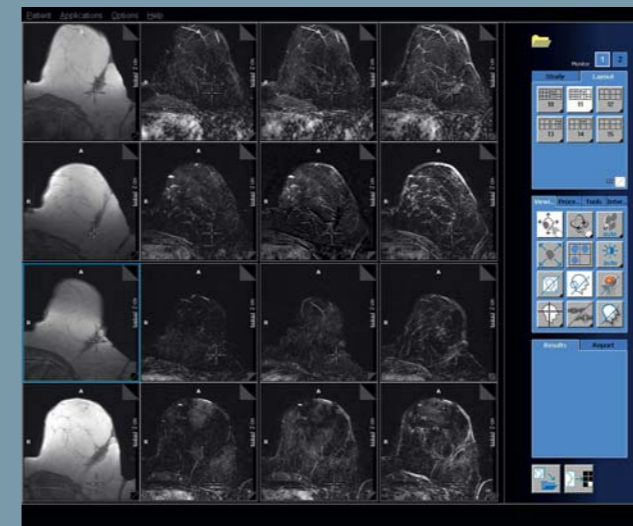
Comprehensive case evaluation incl. 4D images, ultrasound, digital mammography and diffusion weighted images
 Dr. E. Wenkel, Department for Radiology, University Erlangen, Erlangen, Germany



Lesion evaluation
 Dr. M.-A. Labaisse, Centre Hospitalier de la Region (CHR) de Tournai, Tournai, Belgium



Follow-up study with three prior examinations
 Prof. W. Kaiser, Department for Radiology, University Jena, Jena, Germany



syngo BreVis Biopsy

The screenshot displays the syngo BreVis Biopsy software interface. It features four main panels:

- Top Left:** A sagittal MRI scan of the chest with a color-coded overlay. Text below reads: "Wash-In / Wash-Out PV>607; Av. NR t:0007704 / 2057min [50%, 150%], [-10%, 10%]".
- Top Right:** An axial MRI scan of the chest with a crosshair indicating a target point.
- Bottom Left:** Another axial MRI scan of the chest with a crosshair.
- Bottom Right:** A grid overlay for biopsy planning. The grid is labeled "Sentinelle Vanguard" and "SenoRx: EnCor 10g". It shows a grid with columns 1-8 and rows A-F. A target point is marked at the intersection of column 3 and row A. Text below the grid reads: "Grid Cell: B3, Needle Block: C5, Depth: 4.9 cm, Needle Offset: (F1; A0) mm, Target Point: Unlocked".

 A central control panel includes "Study" and "Layout" tabs, a "View... Proce... Tools Inter..." menu, and "Results" and "Report" sections.

Example for interventional path planning
 Clinical data: Liane Philpotts, M.D., Yale New Haven Hospital, New Haven, USA

Grid technique

The diagram illustrates the grid technique for biopsy planning. It shows a grid overlay on an MRI scan of the chest. The grid is labeled "Sentinelle Vanguard" and "SenoRx: EnCor 10g". The grid has columns 1-8 and rows A-F. A target point is marked at the intersection of column 3 and row A. Text below the grid reads: "Grid Cell: B3, Needle Block: C5, Depth: 4.9 cm, Needle Offset: (F1; A0) mm, Target Point: Unlocked".

Post-pillar technique

The diagram illustrates the post-pillar technique for biopsy planning. It shows a cross-section of the chest with a grid overlay. The grid is labeled "Siemens 4ch BI" and "Suros ATEC Petite". The grid has columns 1-8 and rows A-F. A target point is marked at the intersection of column 3 and row A. Text below the grid reads: "Grid Cell: B3, Needle Block: C5, Depth: 4.9 cm, Needle Offset: (F1; A0) mm, Target Point: Unlocked".

| Angle | N30 | N15 | 0 | C15 | C30 |
|---------------------|------|------|------|------|------|
| N: nipple, C: chest | F0.6 | F0.6 | F0.6 | F0.6 | F0.6 |
| Hor. (cm) | C5.5 | C3.7 | C2.1 | C0.6 | N1.3 |
| Depth (cm) | 5.8 | 5.1 | 4.9 | 5.1 | 5.8 |

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