

PRESS RELEASE

Erlangen, October 14, 2026

Clinical study demonstrates comparable diagnostic performance of nu:view spiral breast CT and breast MRI

International comparative study involving 279 patients meets its primary endpoint, demonstrating comparable lesion detection and diagnostic categorization, approximately 80% shorter procedure time, and significantly improved patient comfort. 86% of patients would prefer an examination with nu:view over conventional breast MRI.

Erlangen, October 14, 2026 – An international clinical study directly comparing contrast-enhanced spiral breast CT (CE-SBCT) with contrast-enhanced breast MRI (CE-MRI) has been completed. The results demonstrate the non-inferiority of CE-SBCT with nu:view compared with CE-MRI in BI-RADS assessment for the whole breast and at the lesion level, thereby meeting the study's primary endpoint. Both imaging modalities also showed comparable lesion detection, diagnostic categorization, and breast density assessment.

Given its high sensitivity, breast MRI is considered one of the most powerful imaging modalities in breast imaging and plays an important role in complex diagnostic settings. The demonstrated non-inferiority of CE-SBCT in this direct comparison is therefore of particular clinical relevance and highlights its potential within modern breast diagnostics.

Direct comparison in 279 patients

The prospective, intraindividual, multicenter, international clinical study included 279 patients who underwent both CE-SBCT and CE-MRI across major indications for breast MRI. The intraindividual study design enabled a direct comparison of both imaging modalities in the same patients.

Four minutes instead of 20: significantly shorter procedure time with nu:view

In addition to comparable clinical performance, the study revealed substantial differences in procedure duration. The mean total procedure duration was 4 minutes for CE-SBCT compared with 20 minutes for CE-MRI, representing an approximately 80% reduction in procedure time. Patient evaluations also revealed significant differences: 86% of patients indicated that they would choose CE-SBCT for their examination. Furthermore, patients rated CE-SBCT significantly better across all evaluated comfort parameters, including overall examination experience, device comfort, noise, available space, and perceived examination duration.

New clinical evidence from a direct comparison with breast MRI

The study provides new clinical evidence from a direct comparison of contrast-enhanced spiral breast CT and contrast-enhanced breast MRI across major indications for breast MRI. In addition to diagnostic performance, the study evaluated procedure duration and patient comfort. These findings add to the clinical evidence on CE-SBCT and provide further data to support the assessment of its role in breast diagnostics.

Statement by Dr. Daniel J. Novacek, CEO of AB-CT

“The results represent an important step in further establishing the clinical role of nu:view. Of particular significance is that the study demonstrated non-inferiority to contrast-enhanced breast MRI in its primary endpoint, while also revealing substantial differences in procedure duration and patient experience. These findings provide important new evidence from a direct comparison of the two imaging modalities.”

Photon-counting spiral CT dedicated to breast imaging

nu:view is a dedicated spiral breast CT system featuring direct-converting photon-counting detector technology. During the examination, the patient lies in a prone position, with the breast positioned freely within the imaging volume. No breast compression is required.

The system generates isotropic 3D image datasets without tissue superimposition and supports both non-contrast and contrast-enhanced breast imaging.

Further information on the study

Study title: Comparison of Low-dose Spiral Breast CT With MRI in Major Indications of MRI for Breast Diagnostics

Clinical trial registration: ClinicalTrials.gov, NCT05989022

Link: <https://clinicaltrials.gov/study/NCT05989022>

ABOUT AB-CT – ADVANCED BREAST-CT GMBH

AB-CT – Advanced Breast-CT GmbH, headquartered in Erlangen, Germany, specializes in the development, manufacturing, and distribution of dedicated breast imaging systems. Developed by AB-CT, the nu:view breast CT system combines spiral CT technology with direct-converting photon-counting detectors, enabling high-resolution, isotropic 3D imaging without breast compression.

With its image-guided biopsy unit, AB-CT expands the capabilities of nu:view to include targeted tissue sampling under breast CT guidance. This enables diagnostic 3D imaging and image-guided vacuum-assisted biopsy to be performed within an integrated workflow using nu:view.

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