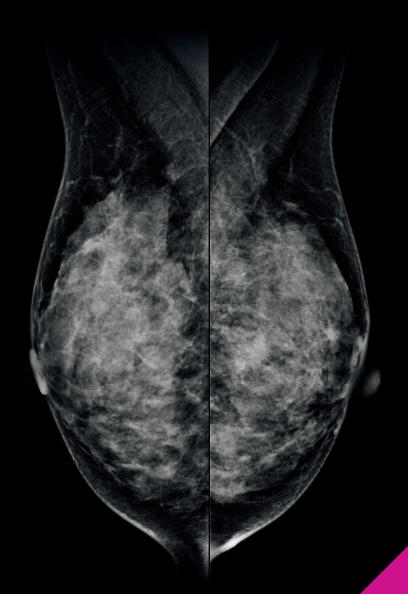


The Power of MRI in DENSE Breasts

The DENSE Tissue and Early Breast Neoplasm Screening Trial





DENSE: MRI screening trial in women with extremely dense breast tissue

- > About 10% of women starting screening have extremely dense breasts1
- Women with extremely dense breasts have an increased risk of breast cancer and lower mammographic sensitivity²
- ➤ Gadovist® contrast-enhanced MRI can improve breast cancer detection because of higher sensitivity compared to mammography²

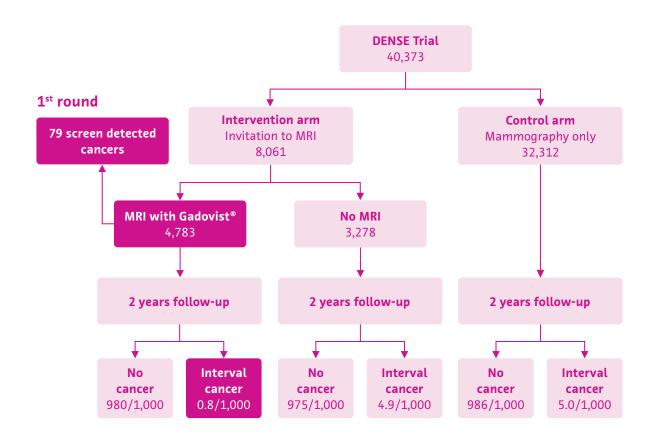


Figure 1 Flowchart. DENSE investigated the effectiveness of screening with mammography plus MRI compared to mammography alone (1:4 ratio) in women age 50–75 with extremely dense breasts (ACR 4) in a prospective, parallel-group, randomized, controlled, multicenter trial in the Dutch biennial screening program. Three consecutive screening rounds are performed (1st round prevalence, 2nd and 3rd round incidence)²

Gadovist® Contrast-Enhanced MRI Cuts Interval Cancers in Half

Results of 1st screening round

MRI screening participants	No./Total	Rate (95 % CI)
Breast cancers detected	79/4,783	16.5/1,000 (13.1-20.5)
Recall rate	454/4,783	94.9 / 1,000 (86.9 – 103.6)

Table 1 Secondary endpoint screening-detected cancer. Recall rate: Women with MRI for which follow-up diagnostic procedures were necessary (imaging or biopsy)

> Supplemental MRI in first screening round detected 16.5/1,000 additional cancers after negative mammography³

Primary endpoint Interval cancer rate per 1,000	Control arm Mammography only	Intervention arm Invitation to MRI with Gadovist®
ITT population	5.0	2.5
MRI participants	-	0.8
MRI non-participants	_	4.9

Table 2 Primary endpoint interval cancer rate assessed during 2-year follow-up after 1st MRI, ITT: Intention to treat (all woman invited for MRI) MRI participants: 59% who accepted invitation to MRI

> Supplemental MRI screening with Gadovist® in women with extremely dense breasts results in 50% less interval cancers²



Let's Talk About Breast Cancer

Empower Your Patients to Ask the Right Questions

There is a range of different screening methods used to detect breast cancer. Which ones are best for you will depend on a number of factors such as your breast density.

Explore Screening Methods and Tools to Help Your Patients



INDICATIONS and IMPORTANT SAFETY INFORMATION¹

Indication and clinical use:

GADOVIST® 1.0 (gadobutrol) is indicated in adults and children of all ages including term newborns for:

- > Contrast enhancement during cranial and spinal MRI investigations and for contrast-enhanced magnetic resonance angiography (CE-MRA).
- Contrast enhanced MRI of the breast to assess the presence and extent of malignant breast disease, and MRI of the kidney.
- GADOVIST 1.0 is particularly suited for cases where the exclusion or demonstration of additional pathology may influence the choice of therapy or patient management, for detection of very small lesions and for visualization of tumors that do not readily take up contrast media.
- GADOVIST 1.0 is also suited for perfusion studies for the diagnosis of stroke, detection of focal cerebral ischemia and tumor perfusion.

Most serious warnings and precautions:

Nephrogenic systemic fibrosis (NSF): GBCAs increase the risk for NSF in patients with chronic severe renal insufficiency (glomerular filtration rate < 30 mL/min/1.73 m2) or acute renal failure / acute kidney injury. In these patients, avoid use of GBCAs unless the diagnostic information is essential and not available with noncontrast-enhanced MRI. NSF may result in fatal or debilitating systemic fibrosis affecting the skin, muscle, and internal organs. Screen all patients for renal dysfunction by obtaining a history and/or laboratory tests. When administering a GBCA, do not exceed the recommended dose and allow a sufficient period of time for elimination of the agent from the body prior to any re-administration.

Not for intrathecal use: GADOVIST 1.0 is not approved for intrathecal use. Intrathecal administration of GBCAs can cause serious, life-threatening, and fatal reactions, primarily with neurological reactions (e.g. coma, encephalopathy, seizures).

Other relevant warnings and precautions:

- GADOVIST 1.0 is intended for intravenous administration only and may cause tissue irritation and pain if administered extravascularly.
- Gadolinium may accumulate in the brain after multiple administrations of GBCAs. Use the lowest effective dose and perform a benefit risk assessment before administering repeated doses.
- As with other contrast media, GADOVIST 1.0 can be associated with anaphylactoid/hypersensitivity or other idiosyncratic reactions, characterized by cardiovascular, respiratory or cutaneous manifestations, and ranging to severe reactions including shock.
- While there is no evidence suggesting that gadobutrol directly precipitates convulsion, the possibility that it may decrease the convulsive threshold in susceptible patients cannot be ruled out. Precautionary measures should be taken with patients predisposed to seizure, eg, close monitoring and availability of injectable anticonvulsants.
- > Use only during pregnancy if the benefits outweigh the risks. Use of macrocyclic agents, such as GADOVIST 1.0, may be preferable in potentially vulnerable patients, including pregnant women.

For more information:

Consult the product monograph at [https://www.bayer.com/sites/default/files/2020-11/gadovist-pm-en_0.pdf] for important information about adverse reactions, drug interactions, and dosing instructions. The Product Monograph is also available by calling Bayer Medical Information at 1-800-265-7382.

- 1 Sprague BL, Gangnon RE, Burt V, et al. Prevalence of mammographically dense breasts in the United States. J Natl Cancer Inst. 2014:12;106(10).
- 2 Emaus MJ, Bakker MF, Peeters PH, et al. MR Imaging as an Additional Screening Modality for the Detection of Breast Cancer in Women Aged 50-75 Years with Extremely Dense Breasts: The DENSE Trial Study Design. Radiology. 2015;277(2):527 537.
- 3 Bakker MF, de Lange SV, Pijnappel RM, et al. Supplemental MRI Screening for Women with Extremely Dense Breast Tissue. N Engl J Med. 2019;381(22):2091-2102.
- 4 Gadovist 1.0 Product Monograph. April 22, 2025.

The patient data that appears in this document is actual health information but all personal identifiers have been removed or otherwise anonymized. No personally identifiable information is shown.

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