BREAST-DIAGNOSIS

Summary

> **Redirection Notice**
>
> This page will redirect to https://www.cancerimagingarchive.net/collection/breast-diagnosis/ in about 5 seconds.

The Breast-Diagnosis collection contains cases that are high-risk normals, DCIS, fibroids and lobular carcinomas. Each case has 3 or more distinct MR pulse sequences from a Phillips 1.5 T (usual sequences are labeled T2, STIR and BLISS but may occasionally include other pulse sequences and digital mammogram of tumor specimen). Multiple time point studies on the same patient are possible.

The following is relevant to analyzing the contrast dynamics of the BLISS pulse sequences. The pulse sequence parameters (repetition, echo time, etc.) can be extracted from the DICOM tags. The contrast aspects are as follows: The volume of Magnevist (Bayer) gadolinium contrast injected into the brachial vein is based on a rule of thumb which in ml's is 10% of the patient weight in POUNDS (NOT kilograms as is recorded in the DICOM patient weight tag. Hence the injected volume for a 150 lb patient is 15 ml. (the DICOM tag entry on that patient will read "68"). The injection itself is 6 or 7 seconds, at a rate of 3cc per second. The first dynamic sequence is started 1 minute after the injection is started. Slice and pulse parameters are accessible in the DICOM tags.

This collection also includes a spreadsheet (updated 7/16/11) with BIRADS MRI features from the imaging report and denoted key image slice with the approximate X-Y center position if a mass was found. Key clinical features and abstracts of the pathology report including ER, PR and HER2 results and Oncotype score are included when available.

Data Access
Data Access

Data Type	Download all or Query/Filter	License
Images (DICOM, 60.8GB)	*Download Search* (Requires NBIA Data Retriever)	CC BY 3.0
Clinical, pathology, radiologist reports (XLS, 22 kB)	*Download*	CC BY 3.0

Click the Versions tab for more info about data releases.

Additional Resources for this Dataset

The NCI Cancer Research Data Commons (CRDC) provides access to additional data and a cloud-based data science infrastructure that connects data sets with analytics tools to allow users to share, integrate, analyze, and visualize cancer research data.

- Imaging Data Commons (IDC) (Imaging Data)

Third Party Analyses of this Dataset

TCIA encourages the community to publish your analyses of our datasets. Below is a list of such third party analyses published using this Collection:

- SDTM datasets of clinical data and measurements for selected cancer collections to TCIA (DI-Cubed-Reports)
- DICOM SR of clinical data and measurement for breast cancer collections to TCIA (DICOM-SR-Breast-Clinical)

Detailed Description
Detailed Description

Collection Statistics	
Modalities	MR, MG, CT, PT
Number of Subjects	88
Number of Studies	148
Number of Series	523
Number of Images	105,144
Image Size (GB)	60.8

Citations & Data Usage Policy
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Users must abide by the TCIA Data Usage Policy and Restrictions. Attribution should include references to the following citations:

> ⓘ **Data Citation**
>
> Bloch, B. Nicolas, Jain, Ashali, & Jaffe, C. Carl. (2015). **BREAST-DIAGNOSIS [Data set].** The Cancer Imaging Archive. http://doi.org/10.7937/K9/TCIA.2015.SDNRQXXR

> ⓘ **TCIA Citation**
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> Clark, K., Vendt, B., Smith, K., Freymann, J., Kirby, J., Koppel, P., Moore, S., Phillips, S., Maffitt, D., Pringle, M., Tarbox, L., & Prior, F. (2013). **The Cancer Imaging Archive (TCIA): Maintaining and Operating a Public Information Repository.** In Journal of Digital Imaging (Vol. 26, Issue 6, pp. 1045–1057). Springer Science and Business Media LLC. https://doi.org/10.1007/s10278-013-9622-7 PMCID: PMC3824915

Other Publications Using This Data

TCIA maintains a list of publications which leverage our data. If you have a manuscript you'd like to add please contact TCIA's Helpdesk.

Versions
Version 1 (Current): Updated 2011/11/09

Data Type	Download all or Query/Filter

Images (DICOM, 60.8GB)	*Download Search* (Requires NBIA Data Retriever)
Clinical, pathology, radiologist reports (XLS)	*Download*