

BREAST-DIAGNOSIS

Summary




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.

Data Access

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Click the **Download** button to save a ".tcia" manifest file to your computer, which you must open with the [NBIA Data Retriever](#). Click the **Search** button to open our Data Portal, where you can browse the data collection and/or download a subset of its contents.

Data Type	Download all or Query/Filter
Images (DICOM, 60.8GB)	 
Clinical, pathology, radiologist reports (XLS)	

Click the Versions tab for more info about data releases.

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](#)
- [DICOM SR of clinical data and measurement for breast cancer collections to TCIA](#)

Detailed Description

Detailed Description

Collection Statistics	
Modalities	MR (with some PET/CT)
Number of Subjects	88
Number of Studies	148
Number of Series	429
Number of Images	105,050
Image Size (GB)	60.8

Metadata

This collection 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.

Citations & Data Usage Policy

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This collection is freely available to browse, download, and use for commercial, scientific and educational purposes as outlined in the [Creative Commons Attribution 3.0 Unported License](#). See TCIA's [Data Usage Policies and Restrictions](#) for additional details. Questions may be directed to help@cancerimagingarchive.net.

Please be sure to include the following citations in your work if you use this data set:

Data Citation

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

TCIA Citation




Clark K, Vendt B, Smith K, Freymann J, Kirby J, Koppel P, Moore S, Phillips S, Maffitt D, Pringle M, Tarbox L, Prior F. **The Cancer Imaging Archive (TCIA): Maintaining and Operating a Public Information Repository**, Journal of Digital Imaging, Volume 26, Number 6, December, 2013, pp 1045-1057. ([paper](#))

Other Publications Using This Data

TCIA maintains [a list of publications](#) which leverage our data. At this time we are not aware of any publications based on this data. If you have a publication you'd like to add please [contact the TCIA Helpdesk](#).

Versions

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

Data Type	Download all or Query/Filter
Images (DICOM, 60.8GB)	<div data-bbox="735 537 930 594">  </div> <div data-bbox="735 604 898 661">  </div> <p data-bbox="735 705 1081 737">(Requires NBIA Data Retriever)</p>
Clinical, pathology, radiologist reports (XLS)	<div data-bbox="735 764 930 821">  </div>