

QIN-BRAIN-DSC-MRI

Summary

This collection contains MR images of both low and high grade glial brain lesions. Data includes post-contrast T1w images with co-registered volumes of dynamic susceptibility contrast (DSC) MR images in DICOM format. Binary regions of interest are also included, in DICOM format, of the lesion, arterial input function, normal appearing white matter, normal appearing cerebral cortex, and whole brain. The data was provided to help facilitate research activities of the National Cancer Institute's (NCI's) Quantitative Imaging Network (QIN). This collection was supported by Grant U01 CA176110.

About the NCI QIN

The mission of the QIN is to improve the role of quantitative imaging for clinical decision making in oncology by developing and validating data acquisition, analysis methods, and tools to tailor treatment for individual patients and predict or monitor the response to drug or radiation therapy. More information is available on the [Quantitative Imaging Network Collections](#) page. Interested investigators can apply to the QIN at: [Quantitative Imaging for Evaluation of Responses to Cancer Therapies \(U01\) PAR-11-150](#).



Acknowledgements

We would like to acknowledge the individuals and institutions that have provided data for this collection: **Medical College of Wisconsin, Milwaukee, Wisconsin**. Special thanks to **Kathleen Schmainda, Ph.D.** and **Melissa Prah**, Department of Radiology, Division of Imaging Science.

Data Access

Data Access

Choose 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, 30.8 GB)	 

Click the Versions tab for more info about data releases.

Detailed Description

Detailed Description

Collection Statistics	Radiology
Modalities	MR
Number of Participants	49
Number of Studies	52
Number of Series	349

Number of Images	116,778
Images Size (GB)	30.8

Citations & Data Usage Policy

Citations & Data Usage Policy

Users of this data must abide by the [TCIA Data Usage Policy](#) and the [Creative Commons Attribution 3.0 Unported License](#) under which it has been published. Attribution should include references to the following citations:

i Data Citation

Kathleen M Schmainda, Melissa A Prah, Jennifer M Connelly, Scott D Rand. (2016). **Glioma DSC-MRI Perfusion Data with Standard Imaging and ROIs [Dataset]** . The Cancer Imaging Archive. DOI: [10.7937/K9/TCIA.2016.5DI84Js8](#)

i Publication Citation

Schmainda KM, Prah MA, Rand SD, Liu Y, Logan B, Muzi M, Rane SD, Da X, Yen YF, Kalpathy-Cramer J, Chenevert TL, Hoff B, Ross B, Cao Y, Aryal MP, Erickson B, Korfiatis P, Dondlinger T, Bell L, Hu L, Kinahan PE, Quarles CC. (2018). **Multisite Concordance of DSC-MRI Analysis for Brain Tumors: Results of a National Cancer Institute Quantitative Imaging Network Collaborative Project**. American Journal of Neuroradiology, 39(6), 1008–1016. DOI: [10.3174/ajnr.a5675](#)

i 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. (2013) **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. DOI: [10.1007/s10278-013-9622-7](#)

Other Publications Using This Data

TCIA maintains a list of [publications](#) that leverage our data. If you have a publication you'd like to add, please [contact the TCIA Helpdesk](#).

Versions


Version 3 (Current): Updated 2019/08/28

Data Type	Download all or Query/Filter
Images (DICOM, 30.8 GB)	<div style="display: flex; gap: 10px;">  Download  Search </div> <p>Downloads require the NBIA Data Retriever .</p>

Lifted "Limited Access" embargo.

Version 2: Updated 2016/03/29

Data Type	Download all or Query/Filter
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Images (DICOM, 30.8 GB)	 <p>Downloads require the NBIA Data Retriever .</p>
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Added 6 new series, 1 source DSC for each of the 6 MRI platforms.

Version 1: Updated 2015/08/25

Data Type	Download all or Query/Filter
Images (DICOM, 30.5 GB)	