

Brain-Tumor-Progression

Summary

Redirection Notice

This page will redirect to <https://www.cancerimagingarchive.net/collection/brain-tumor-progression/> in about 5 seconds.

This collection includes datasets from 20 subjects with primary newly diagnosed glioblastoma who were treated with surgery and standard concomitant chemo-radiation therapy (CRT) followed by adjuvant chemotherapy. Two MRI exams are included for each patient: within 90 days following CRT completion and at progression (determined clinically, and based on a combination of clinical performance and/or imaging findings, and punctuated by a change in treatment or intervention).

All image sets are in DICOM format and contain T1w (pre and post-contrast agent), FLAIR, T2w, ADC, normalized cerebral blood flow, normalized relative cerebral blood volume, standardized relative cerebral blood volume, and binary tumor masks (generated using T1w images). The perfusion images were generated from dynamic susceptibility contrast (GRE-EPI DSC) imaging following a preload of contrast agent. All of the series are co-registered with the T1+C images. The intent of this dataset is for assessing deep learning algorithm performance to predict tumor progression.

Data Access

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Some data in this collection contains images that could potentially be used to reconstruct a human face. To safeguard the privacy of participants, users must sign and submit a [TCIA Restricted License Agreement](#) to help@cancerimagingarchive.net before accessing the data.

Data Type	Download all or Query/Filter	License
Images (DICOM, 3.2GB)	Download Search (Download requires NBIA Data Retriever)	TCIA Restricted

Click the Versions tab for more info about data releases.

Detailed Description

Detailed Description

Collection Statistics	Radiology Image Statistics
Modalities	MR
Number of Participants	20
Number of Studies	40
Number of Series	383
Number of Images	8,798
Image Size (GB)	3.2

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

Schmainda KM, Prah M (2018). **Data from Brain-Tumor-Progression**. The Cancer Imaging Archive. <https://doi.org/10.7937/K9/TCIA.2018.15quzvnv>

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*, 26(6), 1045–1057. <https://doi.org/10.1007/s10278-013-9622-7>

Other Publications Using This Data

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

Versions

Version 1 (Current): Updated 2018/01/31

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