

LGG-1p19qDeletion

Summary

These MRIs are pre-operative examinations performed in 159 subjects with Low Grade Gliomas (WHO grade II & III). Segmentation of tumors in three axial slices that include the one with the largest tumor diameter and ones below and above are provided in NiFTI format. Tumor grade and histologic type are also available. All of these subjects have biopsy proven 1p/19q results, performed using FISH. For the 1p/19q status "n/n" means neither 1p nor 19q were deleted. "d/d" means 1p and 19q are co-deleted.





Acknowledgement:

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Data Access

Data Access

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, 2.7GB)	  (Download requires NBIA Data Retriever)
Segmentations (NIFTI, 2.9GB)	 (Redirects to large-file storage "Box")
1p19q Status and Histologic Type	

Click the Versions tab for more info about data releases.

Detailed Description

Detailed Description

Collection Statistics	Updated 2020/06/26
Modalities	MRI, SEG, NIFTI
Number of Participants	159
Number of Studies	160
Number of Series	478
Number of Images	17519
Image Size (GB)	2.7

Supporting Documentation and Metadata

For the 1p/19q status "n/n" means neither 1p nor 19q were deleted. "d/d" means 1p and 19q are co-deleted.

Citations & Data Usage Policy

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Data Citation

Erickson, Bradley; Akkus, Zeynettin; Sedlar, Jiri; Korfiatis, Panagiotis. (2017). **Data From LGG-1p19qDeletion**. The Cancer Imaging Archive. DOI: <https://doi.org/10.7937/K9/TCIA.2017.dwehtz9v>

Publication Citation

Zeynettin Akkus, Issa Ali, Jif Sedlá, Jay P. Agrawal, Ian F. Parney, Caterina Giannini, and Bradley J. Erickson. **Predicting Deletion of Chromosomal Arms 1p/19q in Low-Grade Gliomas from MR Images Using Machine Intelligence**. J Digit Imaging. 2017 Aug; 30(4): 469–476. Published online 2017 Jun 9. DOI: <https://doi.org/10.1007/s10278-017-9984-3>. PMID: PMC5537096

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 pp 1045-1057. DOI: <https://doi.org/10.1007/s10278-013-9622-7>



Other Publications Using This Data




1. <https://doi.org/10.1007/s10278-017-9965-6> Bradley J. Erickson, Panagiotis Korfiatis, Zeynettin Akkus, Timothy Kline, Kenneth Philbrick. **Toolkits and Libraries for Deep Learning**. Journal of Digital Imaging 2017 p1618-1627.

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Versions



Version 2: Updated 6/26/2020

Data Type	Download all or Query/Filter
Images and Segmentations (2.7GB)	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="background-color: #007bff; color: white; padding: 5px 10px; border-radius: 4px; display: flex; align-items: center;">  Download </div> <div style="background-color: #ffc107; color: white; padding: 5px 10px; border-radius: 4px; display: flex; align-items: center;">  Search </div> </div> <p>(Download requires NBIA Data Retriever)</p>

Segmentations only (DICOM)	 (Download requires NBIA Data Retriever)
Segmentations (NIFTI, 2.9GB)	 (Redirects to large-file storage "Box")
1p19q Status and Histologic Type	

Previously the segmentations of the tumors were provided in NIFTI format and only included three axial slices (the one with the largest tumor diameter and ones below and above). In version 2 segmentations of the entire T2 signal abnormality are provided in DICOM-SEG format.

Version 1 (Current): Updated 2017/09/30

Data Type	Download all or Query/Filter
Images (2.7GB)	 (Download requires NBIA Data Retriever)
Segmentations (NIFTI, 2.9GB)	 (Redirects to large-file storage "Box")
1p19q Status and Histologic Type	