

Segmentation and Classification of Grade I and II Meningiomas from Magnetic Resonance Imaging: An Open Annotated Dataset (Meningioma-SEG-CLASS)

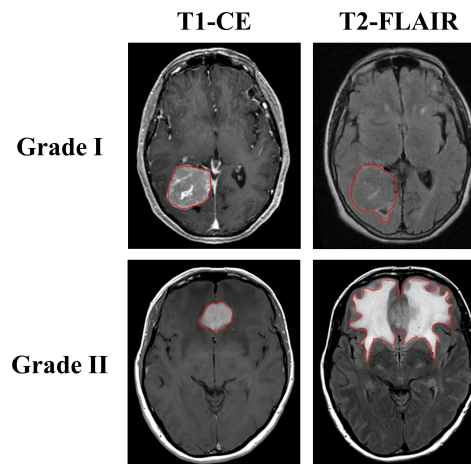
Summary

Redirection Notice

This page will redirect to <https://www.cancerimagingarchive.net/collection/meningioma-seg-class/> in about 5 seconds.

The study included 96 consecutive treatment naïve patients with intracranial meningiomas treated with surgical resection from 2010 to 2019. All patients had pre-operative T1, T1-CE, and T2-FLAIR MR images with subsequent subtotal or gross total resection of pathologically confirmed grade I or grade II meningiomas. A neuropathology team reviewed histopathology, including two subspecialty trained neuropathologists and one neuropathology fellow. The

meningioma grade was confirmed based on current classification guidelines, most recently described in the 2016 WHO Bluebook. Clinical information includes grade, subtype, type of surgery, tumor location, and atypical features. Meningioma labels on T1-CE and T2-FLAIR images will also be provided in DICOM format. The hyperintense T1-contrast enhancing tumor and hyperintense T2-FLAIR and tumor were manually contoured on each MRI and reviewed by a central nervous system radiation oncologist specialist.



Data Access

Data Access

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 and Radiation Therapy Structures (DICOM, 9.0 GB)	Download Search (Download requires NBIA Data Retriever)	TCIA Restricted
Clinical data (CSV, 20 kB)	Download	CC BY 4.0

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Detailed Description

Detailed Description

Image Statistics	Radiology Image Statistics
Modalities	MR, RTSTRUCT
Number of Patients	96
Number of Studies	180
Number of Series	674
Number of Images	47520
Images Size (GB)	9 GB

Citations & Data Usage Policy

Citations & Data Usage Policy

Users must abide by the [TCIA Data Usage Policy and Restrictions](#). Attribution should include references to the following citations:

Data Citation

Vasantachart, A., Cao, Y., Shen, Z., Cheng, K., Gribble, M., Ye, J. C., Zada, G., Hurth, K., Mathew, A., Guzman, S., & Yang, W. (2023). Segmentation and Classification of Grade I and II Meningiomas from Magnetic Resonance Imaging: An Open Annotated Dataset (Meningioma-SEG-CLASS) (Version 1) [Data set]. The Cancer Imaging Archive. <https://doi.org/10.7937/0TKV-1A36>

Publication Citation

Vasantachart, A., Cao, Y., Gribble, M., Guzman, S., Ye, J. C., Hurth, K., Mathew, A., Zada, G., Fan, Z., Chang, E. L., & Yang, W. (2022). Automatic differentiation of Grade I and II meningiomas on magnetic resonance image using an asymmetric convolutional neural network. In Scientific Reports (Vol. 12, Issue 1). Springer Science and Business Media LLC. <https://doi.org/10.1038/s41598-022-07859-0>

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. 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>

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Versions

Version 1 (Current): Updated 2023/02/13

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