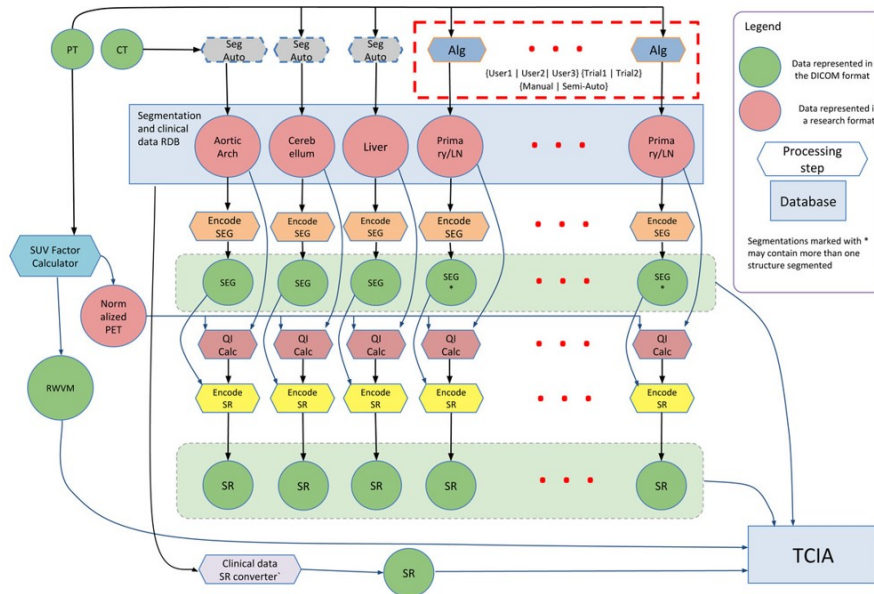


QIN-HEADNECK

Summary

This collection is a set of head and neck cancer patients' multiple positron emission tomography/computed tomography (PET/CT) 18F-FDG scans—before and after therapy—with follow up scans where clinically indicated. 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 Grants: U24 CA180918 (<http://qiicr.org>) and U01 CA140206.

The following schematic summarizes much of the work done within the QICR grant to augment the PET/CT scans with segmentations and clinical data using the DICOM standard: (click to enlarge)






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](#).

[Data Access](#) [Detailed Description](#) [Citations & Data Usage Policy](#) [Versions](#)

Data Access

Choosing the Download option will provide you with a file to launch the TCIA Download Manager to download the entire collection. If you want to browse or filter the data to select only specific scans/studies please use the [Search By Collection](#) option.

Data Type	Download all or Query/Filter
Images (DICOM, 104GB)	 
DICOM Metadata Digest (CSV)	
Clinical data	(See Detailed Description tab)

Click the Versions tab for more info about data releases.

Detailed Description

Collection Statistics	
Modalities	PET, CT, SR, SEG, RWV
Number of Patients	156
Number of Studies	651
Number of Series	429
Number of Images	353,408
Image Size (GB)	104

Metadata

Access to this collection's clinical data is restricted due to the type of information included and/or the informed consent procedure under which the data were collected. If you believe this data will be useful for a current or planned research project, you may request access to this clinical data by completing the attached [Data Use Agreement](#) and forwarding it via e-mail to the TCIA help desk (help@cancerimagingarchive.net). The Data Use Agreement will be promptly reviewed by a TCIA review committee and you will be informed of their decision. In most cases access will be granted and members of your research team will be granted access to the clinical data. Note: you must have TCIA login credentials in order to access any restricted collection.

Citations & Data Usage Policy

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

Beichel R R, Ulrich E J, Bauer C, Wahle A, Brown B, Chang T, Plichta K A, Smith B J, Sunderland J J, Braun T, Fedorov A, Clunie D, Onken M, Riesmeier J, Pieper S, Kikinis R, Graham M M, Casavant T L, Sonka M, Buatti J M. (2015). Data From QIN-HEADNECK. The Cancer Imaging Archive. <http://doi.org/10.7937/K9/TCIA.2015.K0F5CGLI>

Publication Citation

Fedorov A, Clunie D, Ulrich E, Bauer C, Wahle A, Brown B, Onken M, Riesmeier J, Pieper S, Kikinis R, Buatti J, Beichel RR. (2016) DICOM for quantitative imaging biomarker development: a standards based approach to sharing clinical data and structured PET/CT analysis results in head and neck cancer research. PeerJ 4:e2057 <https://doi.org/10.7717/peerj.2057>




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, including citations of this Collection. If you have a publication you'd like to add please [contact the TCIA Helpdesk](#).

Version 2 (Current): Updated 2015/08/20

Data Type	Download all or Query/Filter
Images (DICOM, 104GB)	 
DICOM Metadata Digest (CSV)	

Added associated DICOM SEG, SR, and RWV objects