
ABCD Human Subject Study

Adolescent Brain Cognitive Development – ABCDSTUDY.org

Release Notes: Adolescent Brain Cognitive Development Study (ABCD) Data Release 2.0

Other Imaging Instruments

<http://dx.doi.org/10.15154/1503209>

March 2019

Change Log

March 2019

- Initial release

List of Instruments

Name of Instrument	Short Name
MRI Info	abcd_mri01
MR Findings	abcd_mrfindings01
Processed MRI Data	fmrresults01

General Information

The following information refers to the Adolescent Brain Cognitive Development (ABCD) Study Annual Release 2.0 available from <https://data-archive.nimh.nih.gov/abcd>. An overview of the ABCD Study is at <https://abcdstudy.org> and detailed descriptions of elements of the study are listed in <https://abcdstudy.org/scientists/protocols>.

This document describes the contents of various instruments available for download. To understand the context of this information, see *Release Notes ABCD README FIRST* and *Release Notes ABCD Imaging Instruments*.

MRI Info

The MRI Info instrument provides information on the MRI scanner used at each visit such as scanner manufacturer, model, magnetic field strength, device software version and date of acquisition. This is associated with the subject's NDAR Global Unique Identifier (GUID), age, sex, and date of interview.

ABCD MRI Protocols are detailed at https://abcdstudy.org/images/Protocol_Imaging_Sequences.pdf

MR Findings

MR Findings: T1w and T2w-weighted images, if available, were screened for incidental findings by a Board Certified Neuroradiologist. Any findings requiring clinical investigation were relayed to appropriate site personnel via the ABCD Coordinating Center (CC).

The most important measure is the Report Score (mrif_score): 0= Image artifacts prevent radiology read; 1= No abnormal findings; 2 =Normal anatomical variant of no clinical significance; 3 =Consider clinical referral; 4=Consider immediate clinical referral.

The recommended inclusion criteria are that mrif_score = 1 OR mrif_score = 2.

Processed MRI Data

These instruments allow ABCD collaborators to find the location of DICOMs and minimally processed MR data to download. Targets can be filtered for:

- ID (subjectkey)
- Date (interview_date)
- Age (interview_age)
- Gender (sex at birth)
- QC Score (qc_outcome: pass;fail;questionable)
- Series type (scan_type; sMRI, dMRI, fMRI, field maps)
- Raw DICOMs location (file_source)
- Minimally processed data location (derived_files)