

Due to report compilation and processing errors, there are new Known Issues in Release 2.0. These items will be corrected in a Fix Release 2.0.1 anticipated to be available July 2019.

## Summary

- Added new General Known Issues in 2.0: Added list of unusable subjects due to incorrect sMRI orientation/incorrect pGUID.
- Added new dMRI Known Issues in 2.0: Column name mismatch in 5 instruments.
- Added new dMRI Known Issues in 2.0: Added note that ABCD dMRI Post Processing QC (dmriqc01) was not published.
- Added new MID fMRI Known Issues in 2.0: Column name mismatch in 6 instruments.
- Added new MID fMRI Known Issues in 2.0: MID variables in incorrect instruments.
- Added new Anthropometrics Known Issues in 2.0: Added list of pGUIDs associated with waist values that should be converted from centimeters to inches.
- Added new Genetics Known Issues in 2.0: incorrect “sex” in plink files and 34 ID mismatches.
- Added new Other Non-Imaging Instruments Known Issues in 2.0: The relative\_family\_id variable was based on information obtained from guardians at enrollment and was not genetically informed.

## Details

- Due to an error in unpacking the DICOM data, 1136 subjects had their scans incorrectly flipped (left is right, right is left). Also, due to a file naming error, one imaging session was incorrectly associated with a different pGUID scanned on the same day. A list of 1137 pGUIDs to exclude from imaging analysis is provided in the zip file (invalid\_pGUIDs\_Release\_2.0.txt) and the imaging instruments that are affected (abcd\_imaging\_instruments\_affected\_by\_invalid\_pGUID\_2.0.txt). Imaging metrics for these pGUIDs have been removed from the Data Exploration Analysis Portal (DEAP). These subjects can be used in non-imaging analysis and the data will be recovered in the next release. Do not use the minimally processed data for these pGUIDs (Fast Track DICOM data is unaffected).
- For Release 2.0, the ABCD dMRI Post Processing QC (dmriqc01) was not published. The instrument will be published with Fix Release 2.0.1.
- Due to column name mismatches, the following five instruments from Data Release 2.0 SHOULD NOT be used (corrected in Fix Release 2.0.1):
  - abcd\_dti\_p101 - ABCD dMRI DTI Part 1
  - abcd\_dti\_p201 - ABCD dMRI DTI Part 2
  - abcd\_ddtidp101 - ABCD dMRI DTI Destrieux Parcellations Part 1
  - abcd\_ddtidp201 - ABCD dMRI DTI Destrieux Parcellations Part 2
  - abcd\_dmdtifp201 - ABCD dMRI DTI Full Part 2 (new instrument name abcd\_dmdtifp202)

- Due to column name mismatches, the following six instruments from Data Release 2.0 SHOULD NOT be used (corrected in Fix Release 2.0.1):
  - abcd\_midasemdp201 - ABCD Task fMRI MID Average SEM Destrieux Parcellations Part 2 (new instrument name abcd\_midasemdp202)
  - abcd\_midr1bwdp201 - ABCD Task fMRI MID Run 1 Beta Weights Destrieux Parcellations Part 2 (new instrument name abcd\_midr1bwdp202)
  - abcd\_tr2bwdp201 - ABCD Task fMRI MID Run 2 Beta Weights Destrieux Parcellations Part 2 (new instrument name abcd\_tr2bwdp202)
  - abcd\_midabwdp201 - ABCD Task fMRI MID Average Beta Weights Destrieux Parcellations Part 2 (new instrument name abcd\_midabwdp202)
  - abcd\_tmidr1sem dp201 - ABCD Task fMRI MID Run 1 SEM Destrieux Parcellations Part 2 (new instrument name abcd\_tmidr1sem dp202)
  - abcd\_tr2sem dp201 - ABCD Task fMRI MID Run 2 SEM Destrieux Parcellations Part 2 (new instrument name abcd\_tr2sem dp202)
- Genetics: “Sex” data will be removed from all plink files after the discovery of many “sex” mismatches with the curated ABCD data repository. “Sex” will be set to missing (-9) in all plink files. Researchers who intend to perform genetic analyses should analyze phenotype data from the ABCD data repository. In addition, 34 individuals were found to have conflicting IDs, and will be corrected in the next release. In our QC process, we found plate 461 to be especially problematic. We recommend not using genotype data from plate 461, or including plate number as a covariate.
- ABCD Anthropometrics: Many waist values (anthro\_waist\_cm) were incorrectly entered in centimeters instead of inches. In Known Issues Release Notes 2.0, relevant pGUIDs are listed where waist values need to be converted from centimeters to inches.
- ABCD ACS Post Stratification Weights: The Family ID (rel\_family\_id) field in the NDA Annual Release 2.0 was based on information obtained from guardians at enrollment and was not genetically informed. In future releases, the data will include genetically-informed assessments of family clustering.

Lists of affected pGUIDs are available to qualified users at [https://ndar.nih.gov/edit\\_collection.html?id=2573](https://ndar.nih.gov/edit_collection.html?id=2573)