ADNI Clinical Data – July22 Update

The files provided are listed below. Included are demographic, clinical data and APOE genotypes for each subchallenge. All ADNI data in LONI is available for Challenge participants. A few key files found elsewhere in LONI have been included in this set.

- Please see the Alzheimer's Disease Big Data DREAM Challenge #1 site for more details: https://www.synapse.org/#!Synapse:syn2290704/wiki/
- A description of the Challenge questions can be found here: https://www.synapse.org/#!Synapse:syn2290704/wiki/64635
- A description of the data and format is provided here: https://www.synapse.org/ - !Synapse:syn2290704/wiki/64680

Subchallenge 1

- ADNI_Training_Q1_APOE_July22.2014: This file was derived from the ADNIMERGE table downloaded from LONI on May 15 2014.
- Included in the file are all ADNI 1, GO and 2 individuals with MMSE scores at baseline and the m24 visit that also have imputed genotypes
    - See the Data Description and Format" page on the Alzheimer's Disease Big Data DREAM Challenge #1 site for a description of the imputation parameters: https://www.synapse.org/#!Synapse:syn2290704/wiki/64680).
    - See the ADNIMERGE_DICT for a description of each field in the file.
- Also included in this file are APOE genotypes for allele 1 and 2. This data comes from the APOERES table.

Subchallenge 2

- ADNI_Training_Q2_APOE_July22.2014: The CSF values in this file were derived from the UPENN_CSF Biomarkers_baseline_May15.2014 file downloaded from LONI on May 15 2014.
- Clinical values were derived from the ADNIMERGE_May15.2014 table.
- Included are cognitively normal individuals that have CSF abeta measures that also have imputed genotypes.
- A column called "SAGE.Q2" has been added where a value of 1 indicates abeta42 <192 and a value of 0 indicates abeta42 >192.
    - See the Data Description and Format" page on the Alzheimer's Disease Big Data DREAM Challenge #1 site for a description of the abeta42 discordance cutoff and imputation parameters https://www.synapse.org/#!Synapse:syn2290704/wiki/64680).
    - See the ADNIMERGE_DICT for a description of the fields.
- Also included in this file are APOE genotypes for allele 1 and 2. This data

comes from the APOERES table.

Subchallenge 3

- ADNI_Training_Q3_APOE_CollectionADNI1Complete 1Yr 1.5T_July22.2014: This file contains the clinical data for the visit 1 scans in the following IDA collection: "Collection: ADNI1:Complete 1Yr 1.5T. "
    - Note that the following fields are also found in the 'baseline_data.csv file' (in the 'AD Challenge Training Data: Imaging' zip file): directory.id, Subject, RID, Image.Data.ID, DX.bl, AGE, PTGENDER, PTEDUCAT, PTETHCAT, PTRACCAT, AOPOE4, MMSE, imputed_genotype.
- Included in the file is both the scan acquisition date and exam date for baseline diagnosis.
- This dataset was not restricted to those with imputed genotypes. Included in the file is a column showing which individuals have imputed genotypes or not.
    - See the Data Description and Format" page on the Alzheimer's Disease Big Data DREAM Challenge #1 site for a description of the imputation parameters: https://www.synapse.org/#!Synapse:syn2290704/wiki/64680).
- Clinical values were derived from the ADNIMERGE_May15.2014 table.
    - Note that an extra column labeled 'Dx Codes for Submission' has been included. This is to show that LMCI in ADNI should be labeled as MCI in the leaderboard submission template. AD and CN will be used as is.
- Also included in this file are APOE genotypes for allele 1 and 2. This data comes from the APOERES table.
- See more information described in the Data Description and Format" page on the Alzheimer's Disease Big Data DREAM Challenge #1 site https://www.synapse.org/#!Synapse:syn2290704/wiki/64680

Additional LONI Tables

- ADNIMERGE_May15.2014: This is a set of key ADNI tables merged into one file. It contains additional individuals, visit times, and clinical than what is provided in the ADNI_Training_Q1_May15.2014 file. It was downloaded from LONI on May 15 2015. See the ADNIMERGE_DICT for a description of each field.
- ADNIMERGE_DICT: Describes the fields in the ADNIMERGE_May15.2014 table.
- UPENN_CSF Biomarkers_baseline_May15.2014: This file contains all baseline CSF values for the complete dataset, not limited to the cognitively normal. The fields are described in the UPENNBIOMK5_DICT_10_31_13
- UPENNBIOMK5_DICT_10_31_13. Describes the fields in the UPENN_CSF Biomarkers_baseline_May15.2014 file.
- ADNI_Methods_UPENN_Biomarker_20120710. Describes the CSF biomarker

protocol

- APOERES. This table has the genotypes for APOE allele 1 and allele 2. See the APOERES_DICT for a description of each field
- APOERES_DICT. Describes the fields in the APOERES table