**AIBL Data-set**

Each of the files shown in **Table 1** has RID, which could be used as a primary key for combining all files together into an integrated csv file. Students can focus on the data at baseline (BL) only.

**Table 1. The AIBL data-set outline**

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| --- | --- | --- | --- |
| **File name** | **# Features** | **Feature brief** | **Feature type** |
| aibl\_ptdemog\_01-Jun-2018 | 2 | Gender and DoB | Demographic |
| aibl\_medhist\_01-Jun-2018 | 10 | Medical history |
| aibl\_apoeres\_01-Jun-2018 | 2 | ApoE | Genotype |
| aibl\_labdata\_01-Jun-2018 | 12 | Blood test | Biomarkers |
| aibl\_cdr\_01-Jun-2018 | 1 | CDR score | Cognitive assessments |
| aibl\_mmse\_01-Jun-2018 | 1 | MMSE score |
| aibl\_neurobat\_01-Jun-2018 | 2 | Logical memory recall score |
| aibl\_pdxconv\_01-Jun-2018 | 1 | Clinical diagnosis | Clinical classification: HC, MCI, AD |

**Table 2** lists the details of the AIBL data description. You can also refer to the AIBL data dictionary at: <http://adni.loni.usc.edu/data-dictionary-search/>.

**Table 2. The AIBL data description**

|  |  |  |
| --- | --- | --- |
| **Category** | | **Description** |
| **At non-imaging data** | Demographics | 1) age: 55~96 years  2) gender: Female/Male |
| Medical history | 3) psychiatric (MH\_PSYCH)  4) neurologic (MH\_NEURL)  5) cardiovascular (MH\_CARD)  6) hepatic (MH\_HEPAT)  7) musculoskeletal (MH\_MUSCL)  8) endocrine-metabolic (MH\_ENDO)  9) gastrointestinal (MH\_GAST)  10) renal-genitourinary (MH\_RENA)  11) smoking (MH\_SMOK)  12) malignancy (MH\_MALI). Each medical history is a binary feature (i.e., Y/N) |
| ApoE genotypes | 13) 2 alleles genotype (APGEN1/ APGEN2). Each allele holds one of three genotypes: ε2, ε3, ε4 |
| Neuropsychology assessments | 14) clinical dementia rating (CDR)  5 categories: healthy (0), very mild dementia (0.5), mild (1), moderate (2), and severe (3)  15) mini-mental state exam (MMSE): 0-30  4 categories: may be normal (30-25), mild/early (24-21), moderate (20-10), and severe (9-0)  16) total number of story units recalled - logical memory immediate recall (LMIR): 0~25  17) total number of story units recalled - logical memory delayed recall (LMDR): 0~25 |
| Blood analyses | 18) thyroid stim. Hormone (AXT117)  19) vitamin B12 (BAT126)  20) red blood cell (HMT3)  21) white blood cell (HMT7)  22) platelets (HMT13)  23) haemoglobin (HMT40)  24) mean corpuscular haemoglobin (HMT100)  25) mean corpuscular haemoglobin concentration (HMT102)  26) urea nitrogen (RCT6)  27) serum glucose (RCT11)  28) cholesterol (high performance) (RCT120)  29) creatinine (rate blanked) (RCT329) |
| Diagnosis | 30) diagnostic results (DXCURREN): 3 categories, i.e., healthy control (HC), mild cognitive impairment (MCI), and Alzheimer’s disease (AD) |