**CHARGE Gait speedResults README**

Inverse variance weighted meta-analysis was performed on summary statistics of the cohort-level association analyses. Gait speed was timed over a fixed distance. Meta-analysis results are in space-delimited format. The file name is Aging-17.txt (17 screening cohorts) and Aging-all-21.txt (21 screening and validation cohorts).

​For additional information, please see/cite:
The complex genetics of gait speed: genome-wide meta-analysis approach.

Aging (Albany NY). 2017 Jan 10;9(1):209-246.

DOI: 10.18632/aging.101151

PMCID: PMC5310665

PMID: 28077804 [Indexed for MEDLINE]

The file includes the following variables:

|  |  |
| --- | --- |
| **variable name**  | **Description** |
| *MarkerName*  | rs number |
| *Weight*  | total sample with phenotype and genotype for SNP |
| *Allele1* | coded allele, also called modeled allele (in example of A/G SNP in which AA=0, AG=1 and GG=2, the coded allele is G) |
| *Allele2* | the alternate allele |
| *Freq1* | allele frequency for the coded allele -- “NA” if not available |
| *FreqSE* | Standard error of allele frequency for the coded allele  |
| *MinFreq* | Minimum allele frequency for the coded allele  |
| *MaxFreq* | Maximum allele frequency for the coded allele  |
| *Effect*  | Meta-analysis beta estimate from genotype-phenotype association |
| *StdErr* | standard error of beta estimate  |
| *P-value* | P-value from meta-analysis  |
| *Direction* | + or -, the direction of effect for each study in the meta analysis (see order below) ?—study did not contribute to this variant |
| *HetISq* | I2 heterogeneity statistic |
| *HetChiSq* | Heterogeneity test statistic |
| *HetDf* | degrees of freedom for heterogeneity test |
| *HetPVal* | heterogeneity p-value |

Study order for Direction column:

* The studies are ordered as Screening -AGES, ARIC, BLSA, CHS, FHS, HABC, HRS, InCHIANTI, IBC1921, IBC1936, MrOS, ROSMAP, Rot-r1, Rot-r2, Rot-r3, SOF, TASCOG.

Validation- GENOA, LLS, MrOSGBG, MrOSMalmo.

Sample size for cohorts in meta-analysis

|  |  |
| --- | --- |
|  Cohort | N with gait and GWAS |
| Screening: |
|  | AGES | 3,166 |
|  | ARIC | 445 |
|  | BLSA | 334 |
|  | CHS | 3,184 |
|  | FHS | 2,384 |
|  | HABC | 1,482 |
|  | HRS | 5,073 |
|  | InCHIANTI | 898 |
|  | LBC1921 | 510 |
|  | LBC1936 | 1,001 |
|  | MrOS | 4,643 |
|  | ROSMAP | 1,646 |
|  | RS-I | 706 |
|  | RS-II | 813 |
|  | RS-III | 1,392 |
|  | SOF | 3,441 |
|  | TASCOG | 360 |
| Validation: |
|  | GENOA | 471 |
|  | LLS | 235 |
|  | MrOSGBG | 960 |
|  | MrOSMalmo | 922 |