The Future of Mendelian Randomization Studies: MR Data Challenge December 2021

Data Dictionary

$MR_data_challenge_p2.csv$

This dataset contains data on baseline Marker A levels at baseline and during pregnancy, and offspring outcomes for participants included in the pregnancy substudy.

Variable Name	Description
id	Unique study identifier for each mother-child pair
M_Z3_1 M_Z3_2	Maternal number of alternate alleles for SNPs on chromosome 3
M_Z4_1	Maternal number of alternate alleles for the SNP on chromosome 4
M_Z9_1 M_Z9_2 M_Z9_3 M_Z9_4 M_Z9_5	Maternal number of alternate alleles for SNPs on chromosome 9
M_Z17_1 M_Z17_2 M_Z17_3	Maternal number of alternate alleles for SNPs on chromosome 17
age	Age at start of pregnancy
A_preg	Marker A levels measured during pregnancy
В	Diagnosed offspring macrosomia
0_Z3_1 0_Z3_2	Offspring number of alternate alleles for SNPs on chromosome 3
0_Z4_1	Offspring number of alternate alleles for SNPs on chromosome 4
0_Z9_1 0_Z9_2 0_Z9_3 0_Z9_4 0_Z9_5	Offspring number of alternate alleles for SNPs on chromosome 9
0_Z17_1 0_Z17_2 0_Z17_3	Offspring number of alternate alleles for SNPs on chromosome 17
F_Z3_1 F_Z3_2	Paternal number of alternate alleles for SNPs on chromosome 3
F_Z4_1	Paternal number of alternate alleles for the SNP on chromosome 4
F_Z9_1 F_Z9_2 F_Z9_3 F_Z9_4 F_Z9_5	Paternal number of alternate alleles for SNPs on chromosome 9

Variable Name	Description
F_Z17_1 F_Z17_2 F_Z17_3	Paternal number of alternate alleles for SNPs on chromosome 17

$MR_data_challenge_p3.csv$

This dataset contains longitudinal measurements on Marker A levels and diabetes status for the full cohort. (Note: the data is in long format, in which there is a separate observation for each participant id and follow-up cycle)

Variable Name	Description
id	Unique study identifier for each participant (Note: the same id is used for participants enrolled in both the full cohort and the pregnancy substudy)
time	Follow-up cycle 0: aged 25 (baseline) 1: aged 30 2: aged 35 3: aged 40 4: aged 45 5: aged 50
M_Z3_1 M_Z3_2	Number of alternate alleles for SNPs on chromosome 3
M_Z4_1	Number of alternate alleles for the SNP on chromosome 4
M_Z9_1 M_Z9_2 M_Z9_3 M_Z9_4 M_Z9_5	Number of alternate alleles for SNPs on chromosome 9
M_Z17_1 M_Z17_2 M_Z17_3	Number of alternate alleles for SNPs on chromosome 17
A	Marker A levels
Y	Developed diabetes before the start of the next follow-up cycle 0: no 1: yes