

## STROBE-MR checklist of recommended items to address in reports of Mendelian randomization studies<sup>1 2</sup>

Item No.	Section	Checklist item	Page No.
1	<b>TITLE and ABSTRACT</b>	Indicate Mendelian randomization (MR) as the study's design in the title and/or the abstract if that is a main purpose of the study	1
<b>INTRODUCTION</b>			
2	<b>Background</b>	Explain the scientific background and rationale for the reported study. What is the exposure? Is a potential causal relationship between exposure and outcome plausible? Justify why MR is a helpful method to address the study question	2
3	<b>Objectives</b>	State specific objectives clearly, including pre-specified causal hypotheses (if any). State that MR is a method that, under specific assumptions, intends to estimate causal effects	3
<b>METHODS</b>			
4	<b>Study design and data sources</b>	Present key elements of the study design early in the article. Consider including a table listing sources of data for all phases of the study. For each data source contributing to the analysis, describe the following:	3
		a) Setting: Describe the study design and the underlying population, if possible. Describe the setting, locations, and relevant dates, including periods of recruitment, exposure, follow-up, and data collection, when available.	3
		b) Participants: Give the eligibility criteria, and the sources and methods of selection of participants. Report the sample size, and whether any power or sample size calculations were carried out prior to the main analysis	3
		c) Describe measurement, quality control and selection of genetic variants	3
		d) For each exposure, outcome, and other relevant variables, describe methods of assessment and diagnostic criteria for diseases	3
		e) Provide details of ethics committee approval and participant informed consent, if relevant	
5	<b>Assumptions</b>	Explicitly state the three core IV assumptions for the main analysis (relevance, independence and exclusion restriction) as well assumptions for any additional or sensitivity analysis	3
6	<b>Statistical methods: main analysis</b>	Describe statistical methods and statistics used	4

	a)	Describe how quantitative variables were handled in the analyses (i.e., scale, units, model)	4
	b)	Describe how genetic variants were handled in the analyses and, if applicable, how their weights were selected	4
	c)	Describe the MR estimator (e.g. two-stage least squares, Wald ratio) and related statistics. Detail the included covariates and, in case of two-sample MR, whether the same covariate set was used for adjustment in the two samples	4
	d)	Explain how missing data were addressed	4
	e)	If applicable, indicate how multiple testing was addressed	/
7	<b>Assessment of assumptions</b>	Describe any methods or prior knowledge used to assess the assumptions or justify their validity	4
8	<b>Sensitivity analyses and additional analyses</b>	Describe any sensitivity analyses or additional analyses performed (e.g. comparison of effect estimates from different approaches, independent replication, bias analytic techniques, validation of instruments, simulations)	5
9	<b>Software and pre-registration</b>		5
	a)	Name statistical software and package(s), including version and settings used	
	b)	State whether the study protocol and details were pre-registered (as well as when and where)	-

## RESULTS

10	<b>Descriptive data</b>		5
	a)	Report the numbers of individuals at each stage of included studies and reasons for exclusion. Consider use of a flow diagram	5
	b)	Report summary statistics for phenotypic exposure(s), outcome(s), and other relevant variables (e.g. means, SDs, proportions)	5
	c)	If the data sources include meta-analyses of previous studies, provide the assessments of heterogeneity across these studies	5
	d)	For two-sample MR:	5
		i. Provide justification of the similarity of the genetic variant-exposure associations between the exposure and outcome samples	
		ii. Provide information on the number of individuals who overlap between the	

	exposure and outcome studies	
11	<b>Main results</b>	6
	a) Report the associations between genetic variant and exposure, and between genetic variant and outcome, preferably on an interpretable scale	6
	b) Report MR estimates of the relationship between exposure and outcome, and the measures of uncertainty from the MR analysis, on an interpretable scale, such as odds ratio or relative risk per SD difference	6
	c) If relevant, consider translating estimates of relative risk into absolute risk for a meaningful time period	6
	d) Consider plots to visualize results (e.g. forest plot, scatterplot of associations between genetic variants and outcome versus between genetic variants and exposure)	/
12	<b>Assessment of assumptions</b>	6
	a) Report the assessment of the validity of the assumptions	
	b) Report any additional statistics (e.g., assessments of heterogeneity across genetic variants, such as $I^2$ , Q statistic or E-value)	
13	<b>Sensitivity analyses and additional analyses</b>	6
	a) Report any sensitivity analyses to assess the robustness of the main results to violations of the assumptions	6
	b) Report results from other sensitivity analyses or additional analyses	6
	c) Report any assessment of direction of causal relationship (e.g., bidirectional MR)	6
	d) When relevant, report and compare with estimates from non-MR analyses	6
	e) Consider additional plots to visualize results (e.g., leave-one-out analyses)	6
<b>DISCUSSION</b>		
14	<b>Key results</b>	6
	Summarize key results with reference to study objectives	
15	<b>Limitations</b>	7-8
	Discuss limitations of the study, taking into account the validity of the IV assumptions, other sources of potential bias, and imprecision. Discuss both direction and magnitude of any potential bias and any efforts to address them	

16	<b>Interpretation</b>		6-8
	a)	Meaning: Give a cautious overall interpretation of results in the context of their limitations and in comparison with other studies	6-8
	b)	Mechanism: Discuss underlying biological mechanisms that could drive a potential causal relationship between the investigated exposure and the outcome, and whether the gene-environment equivalence assumption is reasonable. Use causal language carefully, clarifying that IV estimates may provide causal effects only under certain assumptions	6-8
	c)	Clinical relevance: Discuss whether the results have clinical or public policy relevance, and to what extent they inform effect sizes of possible interventions	6-8
17	<b>Generalizability</b>	Discuss the generalizability of the study results (a) to other populations, (b) across other exposure periods/timings, and (c) across other levels of exposure	6-8
<b>OTHER INFORMATION</b>			
18	<b>Funding</b>	Describe sources of funding and the role of funders in the present study and, if applicable, sources of funding for the databases and original study or studies on which the present study is based	8
19	<b>Data and data sharing</b>	Provide the data used to perform all analyses or report where and how the data can be accessed, and reference these sources in the article. Provide the statistical code needed to reproduce the results in the article, or report whether the code is publicly accessible and if so, where	8
20	<b>Conflicts of Interest</b>	All authors should declare all potential conflicts of interest	8

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1. Skrivankova VW, Richmond RC, Woolf BAR, Yarmolinsky J, Davies NM, Swanson SA, et al. Strengthening the Reporting of Observational Studies in Epidemiology using Mendelian Randomization (STROBE-MR) Statement. JAMA. 2021;under review.
2. Skrivankova VW, Richmond RC, Woolf BAR, Davies NM, Swanson SA, VanderWeele TJ, et al. Strengthening the Reporting of Observational Studies in Epidemiology using Mendelian Randomisation (STROBE-MR): Explanation and Elaboration. BMJ. 2021;375:n2233.

Table S2 The information of included IVs for exposure

chr.expos	pos.expos	beta.expos	se.expos	urpval.expos	SNP	effect_alle	other_alle	eaf.expos	exposure
1	66635371	-0.0592	0.0105	1.87E-08	rs2069278	C	T	0.67	Age at first
1	1.54E+08	-0.0777	0.0108	7.01E-13	rs7269423	G	T	0.7087	Age at first
1	2.1E+08	0.0623	0.0105	3.37E-09	rs7516843	G	A	0.6352	Age at first
1	2.2E+08	0.0724	0.0125	6.16E-09	rs3767654	G	T	0.8459	Age at first
1	44338575	0.0677	0.0112	1.43E-09	rs2906457	C	A	0.3052	Age at first
1	91193049	0.0587	0.0101	6.68E-09	rs1092290	T	A	0.497	Age at first
1	22347396	0.0876	0.0151	6.86E-09	rs1240743	G	A	0.8449	Age at first
2	5891511	0.077	0.0121	2.14E-10	rs1188764	G	A	0.7366	Age at first
2	58068741	0.0606	0.0102	2.82E-09	rs1106090	A	G	0.3867	Age at first
2	1.01E+08	0.0627	0.0103	9.55E-10	rs7562372	C	T	0.3201	Age at first
2	1.04E+08	-0.071	0.0102	2.80E-12	rs1342578	G	A	0.4881	Age at first
2	1.66E+08	0.0703	0.0122	8.37E-09	rs1122825	G	A	0.7515	Age at first
2	12797853	-0.087	0.0158	3.76E-08	rs7277969	T	C	0.8887	Age at first
2	60475008	-0.0788	0.0103	1.58E-14	rs359240	A	G	0.4076	Age at first
2	2.15E+08	0.075	0.0132	1.20E-08	rs7398946	G	A	0.833	Age at first
2	51889019	-0.0741	0.0135	4.22E-08	rs1516198	G	A	0.1441	Age at first
2	1.56E+08	0.2459	0.0439	2.17E-08	rs8015328	A	C	0.98608	Age at first
3	47800216	-0.0667	0.0115	7.45E-09	rs1331920	A	T	0.7078	Age at first
3	83510683	0.0718	0.0125	9.46E-09	rs1376961	T	C	0.1998	Age at first
3	17953353	0.0616	0.0102	1.84E-09	rs9814726	A	T	0.5755	Age at first
3	49897830	-0.12	0.0101	7.52E-33	rs2681780	T	C	0.5099	Age at first
3	74883069	-0.0826	0.0133	4.75E-10	rs1191593	G	A	0.169	Age at first
4	3241845	-0.1263	0.0194	7.93E-11	rs362307	T	C	0.93738	Age at first
4	1.41E+08	0.0736	0.0103	7.79E-13	rs1731480	T	C	0.6521	Age at first
5	1.34E+08	0.0573	0.0102	1.90E-08	rs329122	A	G	0.5726	Age at first
5	45109961	0.0879	0.0134	4.51E-11	rs1215318	G	C	0.825	Age at first
5	60744339	-0.0561	0.0101	2.65E-08	rs1445979	A	T	0.6034	Age at first
6	32069806	-0.0824	0.0141	4.83E-09	rs3096695	C	G	0.1064	Age at first
6	34184938	0.0718	0.0131	4.49E-08	rs1080713	A	G	0.1958	Age at first
6	98527087	0.0672	0.0107	3.81E-10	rs9388090	T	C	0.5934	Age at first
6	1.45E+08	-0.087	0.0156	2.36E-08	rs1115536	A	C	0.8748	Age at first
6	1.52E+08	0.0858	0.0103	6.74E-17	rs2347867	A	G	0.3161	Age at first
7	2059761	0.0791	0.0129	9.46E-10	rs5598845	A	G	0.7873	Age at first
7	3445547	0.0704	0.0118	2.76E-09	rs2009182	C	T	0.2853	Age at first
7	1.14E+08	-0.0614	0.0103	2.09E-09	rs1859100	G	T	0.4682	Age at first
7	1.51E+08	0.0583	0.0102	9.87E-09	rs6964957	T	C	0.6252	Age at first
8	10815754	0.0623	0.0105	3.26E-09	rs1011195	G	C	0.4821	Age at first
8	1.46E+08	0.0661	0.0105	3.04E-10	rs1177421	T	C	0.502	Age at first
9	14745886	0.0651	0.0105	6.38E-10	rs7865801	A	G	0.3926	Age at first
9	23360417	0.069	0.0103	2.14E-11	rs1590949	G	C	0.5676	Age at first
10	1.07E+08	0.063	0.01	2.56E-10	rs1225038	G	A	0.3946	Age at first
10	1.19E+08	0.0956	0.0134	9.03E-13	rs6585429	G	A	0.1928	Age at first
11	30226528	0.0882	0.0141	3.77E-10	rs1103100	A	G	0.8588	Age at first

11	28668284	0.0575	0.0105	4.74E-08	rs7481939G	A	0.6561	Age at first
12	1.23E+08	0.1079	0.0188	9.89E-09	rs1281547T	C	0.92048	Age at first
12	56427808	0.0628	0.0107	3.90E-09	rs1702877T	C	0.673	Age at first
12	84043145	-0.0801	0.011	3.81E-13	rs7958796T	A	0.3489	Age at first
13	67143823	-0.1046	0.0178	4.37E-09	rs7870286T	C	0.8986	Age at first
14	29604585	0.0898	0.0149	1.82E-09	rs176223 C	T	0.1322	Age at first
14	1.03E+08	-0.1001	0.0146	6.62E-12	rs7270471G	T	0.8121	Age at first
14	27085685	-0.0677	0.0115	3.66E-09	rs1950402G	A	0.2654	Age at first
14	72213258	0.0601	0.0109	3.24E-08	rs6574018T	G	0.661	Age at first
15	99204101	-0.0538	0.0098	4.53E-08	rs8027457C	T	0.4871	Age at first
15	74100132	0.0753	0.0135	2.56E-08	rs1452378C	T	0.163	Age at first
16	59241949	-0.0749	0.0121	7.13E-10	rs1164674T	G	0.2932	Age at first
16	90078724	0.0995	0.018	2.94E-08	rs7757604T	C	0.94036	Age at first
17	43932797	-0.0888	0.0149	2.61E-09	rs1044536C	G	0.7972	Age at first
17	56641200	0.0625	0.0102	1.01E-09	rs7359501T	C	0.6213	Age at first
18	53260732	-0.0665	0.0103	1.06E-10	rs590076 A	G	0.6481	Age at first
18	35170045	0.0631	0.0109	7.82E-09	rs4799950G	C	0.3469	Age at first
18	36510587	-0.0724	0.0127	1.21E-08	rs6022268T	C	0.84	Age at first
19	13285293	0.0873	0.0119	2.59E-13	rs8110682C	T	0.6342	Age at first
20	31097877	-0.071	0.0108	4.42E-11	rs293566 C	T	0.6859	Age at first
20	14840502	0.0549	0.01	3.55E-08	rs6079584C	A	0.5815	Age at first
20	42001011	0.0699	0.0128	4.93E-08	rs6030812A	G	0.1849	Age at first
21	46581798	-0.0573	0.0102	1.82E-08	rs394608 C	T	0.4553	Age at first
1	88829969	-0.0207	0.0035	1.60E-09	rs1156981G	A	0.1143	Age at first
1	91193049	0.0211	0.0021	2.10E-24	rs1092290T	A	0.497	Age at first
1	1.11E+08	-0.0129	0.0021	4.60E-10	rs2274568A	G	0.4473	Age at first
1	7522336	-0.0124	0.0021	4.20E-10	rs1962545C	T	0.4751	Age at first
1	44349405	0.0175	0.0025	6.80E-12	rs803679 A	G	0.2465	Age at first
1	75001474	0.0145	0.0021	2.90E-12	rs7525548T	A	0.4543	Age at first
1	1.52E+08	-0.011	0.0021	3.90E-08	rs3507738C	T	0.4851	Age at first
1	2.05E+08	0.014	0.0024	2.20E-09	rs1124033T	C	0.7366	Age at first
1	2.33E+08	0.0134	0.0025	3.70E-08	rs1275777A	G	0.8111	Age at first
1	2.35E+08	-0.0122	0.0022	3.00E-08	rs6586405A	C	0.6759	Age at first
1	66481188	0.017	0.0021	6.20E-16	rs1392816T	C	0.6243	Age at first
1	78450517	-0.0195	0.0032	8.20E-10	rs3451743A	C	0.90855	Age at first
1	1.51E+08	0.0151	0.0025	1.90E-09	rs1204911T	C	0.2117	Age at first
1	1.56E+08	-0.0242	0.0042	8.10E-09	rs1476337T	C	0.94732	Age at first
1	96175101	-0.0117	0.0021	1.70E-08	rs1931263T	G	0.5239	Age at first
1	1.15E+08	0.0149	0.0027	2.30E-08	rs1085805T	G	0.8121	Age at first
2	60166832	-0.0221	0.0021	7.20E-27	rs6719762C	T	0.5308	Age at first
2	60463149	-0.0181	0.0021	4.10E-18	rs359271 C	T	0.4344	Age at first
2	60777498	0.0123	0.0021	4.90E-09	rs6747099C	G	0.5368	Age at first
2	1.44E+08	0.0148	0.0021	1.90E-12	rs1320138C	T	0.4254	Age at first
2	22443840	-0.0118	0.0021	8.30E-09	rs4557006A	G	0.5348	Age at first
2	45062249	0.0318	0.0052	5.30E-10	rs6213419T	C	0.95726	Age at first

2	1.4E+08	0.0162	0.0022	3.90E-13	rs838042	A	G	0.3141	Age at firs
2	2.03E+08	0.0134	0.0024	2.90E-08	rs1339479	C	T	0.7644	Age at firs
2	2.13E+08	0.0126	0.0021	1.50E-09	rs714393	T	C	0.5249	Age at firs
2	622225	-0.0178	0.0027	1.10E-10	rs1320330	G	T	0.17	Age at firs
2	1.01E+08	0.0137	0.0021	3.80E-11	rs7566527	T	C	0.6133	Age at firs
2	1.74E+08	0.0164	0.0021	1.90E-15	rs7575189	A	G	0.4334	Age at firs
2	1.84E+08	0.0157	0.0025	4.10E-10	rs5630605	A	G	0.7922	Age at firs
2	6145158	0.0118	0.0021	3.10E-08	rs2091377	T	C	0.5646	Age at firs
2	44842145	-0.0191	0.0021	1.30E-19	rs6744794	G	C	0.3936	Age at firs
2	78018164	0.0224	0.004	1.40E-08	rs1168802	G	A	0.91551	Age at firs
2	1.04E+08	0.0165	0.0021	2.50E-15	rs1368546	C	T	0.4861	Age at firs
2	1.57E+08	0.0144	0.0021	2.30E-12	rs1226414	T	A	0.492	Age at firs
2	1.86E+08	-0.0307	0.0054	5.70E-09	rs1477251	T	C	0.97217	Age at firs
2	26948413	0.0141	0.0021	5.90E-12	rs1246372	A	G	0.5	Age at firs
2	32858637	0.0126	0.0021	2.20E-09	rs4952343	G	A	0.5547	Age at firs
2	1.62E+08	-0.012	0.0021	1.20E-08	rs1167898	A	G	0.5696	Age at firs
2	2.25E+08	0.0149	0.0022	1.10E-11	rs6748341	G	C	0.671	Age at firs
3	24908376	-0.0118	0.0021	1.60E-08	rs3460677	T	C	0.6014	Age at firs
3	35775115	0.0146	0.0021	1.30E-11	rs6772342	A	T	0.6193	Age at firs
3	1.18E+08	-0.015	0.0027	7.00E-09	rs705240	T	C	0.8201	Age at firs
3	50201924	-0.021	0.0021	2.10E-24	rs2188151	T	G	0.6034	Age at firs
3	84387950	-0.0217	0.0023	1.10E-20	rs1271459	C	A	0.7117	Age at firs
3	85650341	0.024	0.0022	1.20E-28	rs1125235	C	T	0.3698	Age at firs
3	54156598	-0.0183	0.0029	5.10E-11	rs1867234	G	A	0.8579	Age at firs
3	60870307	-0.0138	0.0025	1.20E-08	rs6776937	A	C	0.7594	Age at firs
3	88249922	-0.0242	0.0028	1.40E-17	rs1271470	G	A	0.164	Age at firs
3	1.08E+08	0.0206	0.0025	3.10E-17	rs7926940	A	G	0.7773	Age at firs
3	1.17E+08	-0.0172	0.0026	2.30E-11	rs4602427	G	C	0.1859	Age at firs
3	1.32E+08	-0.014	0.0021	8.90E-12	rs5639224	C	A	0.6441	Age at firs
3	3726156	-0.014	0.0021	1.80E-11	rs9809849	A	G	0.5895	Age at firs
3	17315758	0.014	0.0021	3.50E-11	rs2084572	G	A	0.5557	Age at firs
3	53773437	0.024	0.0028	1.20E-17	rs2612030	C	T	0.1431	Age at firs
3	70873278	0.0126	0.0021	1.90E-09	rs7618715	A	G	0.6014	Age at firs
4	25408838	0.0155	0.0024	1.30E-10	rs3481147	A	G	0.7833	Age at firs
4	62972597	0.0122	0.0022	3.50E-08	rs7671317	T	G	0.327	Age at firs
4	91590266	-0.0148	0.0024	6.60E-10	rs1051687	G	T	0.7565	Age at firs
4	60736871	0.0115	0.0021	1.60E-08	rs1251198	A	G	0.4672	Age at firs
4	28710551	0.0181	0.0028	2.80E-10	rs702	T	A	0.169	Age at firs
4	67825894	0.0157	0.0025	2.90E-10	rs993700	C	T	0.2326	Age at firs
4	1.13E+08	0.0222	0.0027	4.10E-16	rs1172908	A	G	0.8479	Age at firs
4	1.41E+08	0.0157	0.0021	1.00E-13	rs809955	A	G	0.661	Age at firs
5	31078814	0.0125	0.0023	4.40E-08	rs1317553	A	G	0.6928	Age at firs
5	60030791	-0.0136	0.0021	1.60E-10	rs7381195	A	T	0.3638	Age at firs
5	87847273	-0.0199	0.0021	2.00E-21	rs1265339	A	T	0.4493	Age at firs
5	45119647	0.0219	0.0027	1.10E-15	rs1252339	A	T	0.825	Age at firs

5	1.07E+08	0.0139	0.0022	4.30E-10	rs2406374T	C	0.6799	Age at firs
5	1.55E+08	-0.0164	0.0024	4.20E-12	rs1317895T	A	0.7445	Age at firs
5	30845465	-0.0128	0.0023	2.90E-08	rs7704530A	G	0.2972	Age at firs
5	1.24E+08	0.0178	0.0029	4.50E-10	rs6077598G	A	0.835	Age at firs
5	1.67E+08	-0.0138	0.0023	1.20E-09	rs1252309C	T	0.7227	Age at firs
5	24921398	-0.017	0.0024	2.50E-12	rs435538	G	0.7744	Age at firs
5	46004640	-0.0149	0.0025	2.20E-09	rs1133382C	T	0.7863	Age at firs
5	1.67E+08	0.0128	0.0021	8.20E-10	rs4868800T	G	0.3926	Age at firs
6	67536056	-0.0163	0.0021	1.60E-14	rs7288733C	T	0.6312	Age at firs
6	1E+08	0.0149	0.0022	1.70E-11	rs9403187T	A	0.6362	Age at firs
6	1.52E+08	0.0275	0.0021	8.30E-38	rs1220471T	C	0.3201	Age at firs
6	396321	0.014	0.0026	3.60E-08	rs1220359T	C	0.8837	Age at firs
6	26319588	0.0135	0.0021	5.20E-10	rs766406	T	0.3539	Age at firs
6	50615935	0.0324	0.0038	1.40E-17	rs1415477A	G	0.8867	Age at firs
6	1.64E+08	-0.0138	0.0024	1.00E-08	rs4709807C	T	0.2306	Age at firs
6	23446691	-0.0171	0.0024	5.70E-13	rs767943	A	0.7127	Age at firs
6	52946320	0.017	0.0027	4.90E-10	rs222440	C	0.2038	Age at firs
6	87858691	0.0123	0.0021	7.30E-09	rs1925686A	G	0.6282	Age at firs
6	1.25E+08	-0.0128	0.0021	4.90E-10	rs7452074C	A	0.4334	Age at firs
7	1299334	0.0182	0.0033	1.90E-08	rs6966769G	A	0.8598	Age at firs
7	32373639	0.0131	0.0022	2.30E-09	rs215639	T	0.3211	Age at firs
7	99119110	0.0226	0.0029	2.90E-15	rs7804551G	A	0.837	Age at firs
7	1.14E+08	-0.0196	0.0021	1.40E-20	rs7783012A	G	0.4761	Age at firs
7	3424686	0.0142	0.0022	9.50E-11	rs7785195A	G	0.3429	Age at firs
7	21417556	-0.0155	0.0024	7.20E-11	rs6243969A	G	0.7485	Age at firs
7	31330785	-0.0247	0.0034	2.50E-13	rs3585155G	A	0.92644	Age at firs
7	1.4E+08	0.0156	0.0024	1.10E-10	rs1132471C	T	0.6879	Age at firs
7	75147801	0.0142	0.0021	1.40E-11	rs794375	C	0.5537	Age at firs
7	1.05E+08	0.0218	0.0034	4.70E-11	rs1330722A	G	0.1014	Age at firs
7	1966841	-0.0158	0.0021	2.70E-14	rs6978112T	C	0.6044	Age at firs
7	1.33E+08	-0.0219	0.0029	2.10E-14	rs4728298A	T	0.8231	Age at firs
7	1.22E+08	-0.0175	0.0028	1.60E-10	rs5893811T	G	0.8201	Age at firs
8	26334103	0.0116	0.0021	3.40E-08	rs7008955G	T	0.4771	Age at firs
8	51118559	-0.0155	0.0023	2.80E-11	rs7824756C	T	0.7247	Age at firs
8	87680112	0.0179	0.0027	3.30E-11	rs7815125A	T	0.1402	Age at firs
8	54396376	-0.0146	0.0026	1.30E-08	rs1585634C	G	0.1879	Age at firs
8	73889570	-0.0123	0.0021	6.70E-10	rs1010452C	T	0.4672	Age at firs
8	1.17E+08	-0.0134	0.0023	9.30E-09	rs1328059G	C	0.2575	Age at firs
8	10706411	0.0182	0.0021	1.70E-17	rs1991651G	C	0.3797	Age at firs
8	97825208	-0.0131	0.0021	2.50E-10	rs1095508T	C	0.4761	Age at firs
8	42455166	0.0131	0.0021	2.70E-10	rs2974311A	G	0.504	Age at firs
8	95489281	0.0137	0.0024	3.40E-08	rs7267482C	T	0.7018	Age at firs
8	1.15E+08	-0.0135	0.0021	9.40E-11	rs9643087T	C	0.4692	Age at firs
8	36842153	0.0123	0.0021	2.00E-08	rs1547351A	T	0.5915	Age at firs
8	1.43E+08	0.0122	0.0021	8.90E-10	rs8180995G	A	0.5378	Age at firs

9	86327243	0.0177	0.0029	3.70E-09	rs3447	G	C	0.8459	Age at firs
9	14529836	-0.0145	0.0024	7.90E-10	rs1237653	C	A	0.7396	Age at firs
9	23352293	0.0126	0.0021	1.20E-09	rs1255451	C	T	0.5736	Age at firs
9	81512820	0.0129	0.0022	5.40E-09	rs1074657	G	A	0.673	Age at firs
9	1.09E+08	-0.0151	0.0022	1.10E-11	rs2176337	T	A	0.673	Age at firs
9	96392182	0.0121	0.0022	1.70E-08	rs1099281	A	G	0.6352	Age at firs
9	16347927	0.013	0.0022	4.20E-09	rs4961705	C	G	0.6541	Age at firs
9	1.28E+08	0.0125	0.0022	1.40E-08	rs1912428	A	G	0.6918	Age at firs
9	1.35E+08	0.0144	0.0022	4.20E-11	rs4246175	A	T	0.3191	Age at firs
10	10922977	0.0139	0.0021	4.50E-11	rs2093623	A	G	0.5258	Age at firs
10	9973015	0.0125	0.0021	3.80E-09	rs7091634	G	A	0.6292	Age at firs
10	1.2E+08	0.0151	0.0028	2.70E-08	rs1128801	G	A	0.832	Age at firs
10	1.34E+08	-0.0165	0.0021	1.20E-15	rs7079070	A	G	0.5706	Age at firs
10	11205224	-0.0156	0.0028	2.90E-08	rs7909331	G	A	0.8459	Age at firs
10	1.19E+08	0.0175	0.0024	9.20E-13	rs1074923	C	G	0.2545	Age at firs
10	1.34E+08	0.0131	0.0024	1.70E-08	rs2130894	T	C	0.7008	Age at firs
10	63239803	-0.0166	0.0028	3.70E-09	rs2650705	G	A	0.1372	Age at firs
10	97941022	-0.0154	0.0022	5.70E-13	rs6185697	C	T	0.6928	Age at firs
10	1.05E+08	-0.0136	0.0022	5.80E-10	rs1224438	A	G	0.6372	Age at firs
10	1.06E+08	0.0198	0.0021	2.70E-21	rs3896224	G	A	0.5497	Age at firs
11	12875312	0.0148	0.0023	2.30E-10	rs1866710	G	A	0.2793	Age at firs
11	43771084	0.0151	0.0021	1.90E-13	rs3480422	G	A	0.6074	Age at firs
11	46342834	-0.014	0.0022	5.60E-10	rs7476	C	A	0.675	Age at firs
11	27734349	-0.0127	0.0022	1.10E-08	rs1229298	A	G	0.7058	Age at firs
11	79887549	0.0132	0.0021	1.10E-10	rs4439537	C	T	0.4523	Age at firs
11	1.13E+08	-0.0154	0.0021	5.00E-13	rs7110863	G	A	0.5666	Age at firs
11	28656064	0.0161	0.0022	6.60E-14	rs7942078	T	A	0.6561	Age at firs
11	1.06E+08	0.0135	0.0021	1.70E-10	rs590414	T	A	0.4911	Age at firs
11	1.27E+08	-0.0152	0.0021	4.90E-13	rs7927195	G	A	0.3718	Age at firs
12	23238326	0.0386	0.0058	5.20E-11	rs1126336	C	A	0.97018	Age at firs
12	41905017	0.016	0.0025	1.30E-10	rs1088008	A	G	0.8241	Age at firs
12	56468706	-0.0134	0.0022	8.40E-10	rs7955865	T	A	0.337	Age at firs
12	89745477	0.0119	0.0021	2.60E-08	rs2279574	A	C	0.4443	Age at firs
12	24195048	-0.0121	0.0021	4.50E-09	rs1995181	A	T	0.5457	Age at firs
12	84043146	-0.0149	0.0022	1.10E-11	rs7972441	A	C	0.3489	Age at firs
13	28104552	0.0199	0.003	1.50E-10	rs9581878	A	T	0.8449	Age at firs
13	55757388	0.0125	0.0022	4.20E-09	rs9536994	C	A	0.6571	Age at firs
13	69332015	-0.0128	0.0021	5.90E-10	rs2174752	T	G	0.5775	Age at firs
13	1.08E+08	-0.0114	0.0021	2.40E-08	rs9514600	G	C	0.494	Age at firs
13	60399045	-0.0159	0.0023	9.00E-13	rs341521	A	G	0.2972	Age at firs
13	59492828	-0.0159	0.0022	3.00E-13	rs9538248	A	C	0.669	Age at firs
14	41059928	-0.0202	0.0026	3.60E-14	rs1214746	A	G	0.837	Age at firs
14	58816212	0.0134	0.0021	5.30E-10	rs1287835	C	A	0.4751	Age at firs
14	1.03E+08	-0.0208	0.0026	4.00E-16	rs7151954	G	A	0.7833	Age at firs
14	93915929	-0.0135	0.0022	1.30E-09	rs4569188	A	G	0.3191	Age at firs

14	30726670	0.0353	0.0064	2.70E-08	rs7473773	T	A	0.98708	Age at firs
14	47367434	-0.0148	0.0021	1.50E-12	rs3007104	A	G	0.5885	Age at firs
14	94844947	0.0416	0.0074	1.20E-08	rs2892947	T	C	0.9831	Age at firs
14	98553482	-0.0156	0.0021	3.10E-13	rs7152323	G	A	0.5596	Age at firs
15	83240293	0.0148	0.0024	3.50E-10	rs783544	C	A	0.2406	Age at firs
15	91426560	0.0172	0.0021	1.10E-16	rs4702	A	G	0.4374	Age at firs
15	47684280	-0.0227	0.0025	2.10E-19	rs1290754	A	G	0.7932	Age at firs
15	97495941	-0.0138	0.0024	8.10E-09	rs7167444	T	G	0.7515	Age at firs
16	5825579	-0.0139	0.0023	3.80E-10	rs9923553	G	A	0.7207	Age at firs
16	75606878	0.0266	0.0045	5.50E-09	rs6564268	G	C	0.94732	Age at firs
16	735921	0.0163	0.0025	4.90E-11	rs763053	C	T	0.7326	Age at firs
16	12513797	0.0121	0.0023	2.70E-08	rs7201310	A	C	0.3012	Age at firs
16	24727064	-0.0146	0.0021	5.80E-12	rs7188873	G	A	0.3827	Age at firs
16	72505534	0.024	0.0031	4.90E-15	rs7651377	C	T	0.8897	Age at firs
16	90054704	-0.0168	0.0021	7.60E-16	rs1186642	G	C	0.34	Age at firs
16	49622284	-0.0179	0.003	2.10E-09	rs1244873	T	C	0.8658	Age at firs
17	47454507	-0.0165	0.0021	8.10E-15	rs2840636	T	C	0.6243	Age at firs
17	4938924	0.0113	0.0021	4.60E-08	rs410520	A	C	0.4851	Age at firs
17	65903326	-0.0149	0.0023	1.10E-10	rs6504551	G	T	0.7316	Age at firs
17	79095629	0.0129	0.0021	6.10E-10	rs7503604	A	C	0.5089	Age at firs
18	40231833	-0.0125	0.0021	3.40E-09	rs592278	A	G	0.5676	Age at firs
18	77579773	-0.0201	0.0025	3.90E-16	rs7236339	A	G	0.8161	Age at firs
18	44797697	0.0142	0.0021	1.80E-11	rs3415504	T	C	0.5596	Age at firs
18	50811573	0.0217	0.0038	1.50E-08	rs1046902	T	A	0.91252	Age at firs
18	53276589	-0.0153	0.0022	1.30E-12	rs1087158	T	G	0.6501	Age at firs
18	22647270	-0.0125	0.0021	4.60E-09	rs4800204	T	C	0.4135	Age at firs
19	4965064	-0.0123	0.0022	1.00E-08	rs1085398	A	G	0.6481	Age at firs
19	36252494	0.0122	0.0021	1.90E-09	rs807478	G	A	0.496	Age at firs
20	51510926	-0.0122	0.0022	3.30E-08	rs1609598	T	C	0.6859	Age at firs
20	62439274	0.0231	0.0039	2.50E-09	rs4809230	A	G	0.92744	Age at firs
20	14731057	-0.0356	0.0064	3.40E-08	rs1178311	T	C	0.98211	Age at firs
20	30864279	-0.0171	0.0028	1.80E-09	rs6058613	G	C	0.1312	Age at firs
21	40512129	-0.0275	0.005	3.20E-08	rs6517512	G	A	0.0388	Age at firs
1	7421139	0.029	0.005014	7.28E-09	rs845193	G	A	0.2515	Age at mer
1	8490320	-0.028	0.004663	1.91E-09	rs302719	G	T	0.6869	Age at mer
1	14138493	0.033	0.006022	4.26E-08	rs2744688	A	G	0.1402	Age at mer
1	21385436	-0.051	0.006796	6.18E-14	rs1212533	C	T	0.8459	Age at mer
1	41617914	0.044	0.0079	2.55E-08	rs2236129	G	C	0.92744	Age at mer
1	44029353	0.039	0.004777	3.26E-16	rs1121087	G	C	0.331	Age at mer
1	72733841	-0.034	0.004278	1.91E-15	rs1380995	T	A	0.5159	Age at mer
1	75002193	-0.048	0.004383	6.54E-28	rs1256698	A	G	0.4533	Age at mer
1	98375448	0.034	0.004692	4.27E-13	rs1116592	G	A	0.6918	Age at mer
1	1.03E+08	0.033	0.004379	4.86E-14	rs4908214	C	A	0.4553	Age at mer
1	1.51E+08	-0.082	0.014305	9.91E-09	rs1411643	T	C	0.96223	Age at mer
1	1.55E+08	0.026	0.004279	1.23E-09	rs9426832	G	A	0.5199	Age at mer

1	1.65E+08	0.08	0.006312	8.11E-37	rs3767357G	A	0.8767	Age at mer
1	1.78E+08	0.069	0.005342	3.60E-38	rs506589 C	T	0.8131	Age at mer
1	2E+08	-0.031	0.00431	6.35E-13	rs1209136T	C	0.504	Age at mer
1	2.06E+08	0.025	0.004321	7.24E-09	rs4951261C	A	0.5974	Age at mer
2	466003	-0.11	0.01153	1.42E-21	rs6210418A	G	0.95229	Age at mer
2	625029	0.071	0.005596	6.83E-37	rs7576624T	C	0.17	Age at mer
2	25145173	0.029	0.004481	9.70E-11	rs5908689A	T	0.5338	Age at mer
2	42984340	0.028	0.00512	4.52E-08	rs7605368A	G	0.7545	Age at mer
2	56596394	-0.071	0.005656	3.80E-36	rs6704684A	G	0.827	Age at mer
2	60456933	0.039	0.007152	4.96E-08	rs1188980T	G	0.8847	Age at mer
2	61612865	-0.042	0.006196	1.21E-11	rs3463521G	A	0.8549	Age at mer
2	69704941	0.033	0.005547	2.70E-09	rs2312205G	A	0.8052	Age at mer
2	73536689	-0.11	0.013221	8.79E-17	rs5907224T	C	0.97316	Age at mer
2	1.06E+08	0.047	0.004687	1.14E-23	rs2438086G	A	0.4433	Age at mer
2	1.42E+08	-0.042	0.005961	1.85E-12	rs3593505T	G	0.8598	Age at mer
2	1.54E+08	-0.041	0.0071	7.72E-09	rs1732864G	T	0.8926	Age at mer
2	1.57E+08	-0.071	0.005724	2.51E-35	rs1420588G	C	0.8469	Age at mer
2	1.65E+08	0.03	0.005051	2.87E-09	rs883208 A	C	0.7326	Age at mer
2	1.84E+08	0.04	0.005674	1.80E-12	rs1093107T	C	0.2167	Age at mer
2	2E+08	0.053	0.00453	1.27E-31	rs1093183T	C	0.6402	Age at mer
2	2E+08	0.032	0.005169	5.99E-10	rs6710368C	T	0.7157	Age at mer
2	2.03E+08	0.047	0.006632	1.37E-12	rs6714523A	G	0.8588	Age at mer
2	2.1E+08	-0.056	0.006933	6.62E-16	rs1356379T	C	0.8986	Age at mer
3	18442437	0.029	0.004484	1.00E-10	rs9867904C	G	0.6461	Age at mer
3	24206463	-0.1	0.012783	5.15E-15	rs7303599C	T	0.9662	Age at mer
3	24715135	-0.042	0.004446	3.47E-21	rs1984870T	G	0.504	Age at mer
3	49559485	-0.027	0.004574	3.57E-09	rs1306242G	A	0.333	Age at mer
3	51333959	-0.15	0.016218	2.27E-20	rs1386257C	G	0.9841	Age at mer
3	86910133	-0.045	0.004422	2.54E-24	rs6225727T	C	0.3917	Age at mer
3	88224304	0.039	0.006879	1.43E-08	rs4858934C	T	0.1064	Age at mer
3	1.15E+08	0.046	0.007349	3.87E-10	rs7644997G	A	0.0915	Age at mer
3	1.18E+08	-0.053	0.004197	1.47E-36	rs1093442C	T	0.4821	Age at mer
3	1.28E+08	-0.034	0.004867	2.83E-12	rs2461794A	G	0.7366	Age at mer
3	1.33E+08	-0.033	0.005836	1.56E-08	rs1735103C	T	0.8469	Age at mer
3	1.37E+08	-0.038	0.005728	3.26E-11	rs6675297A	C	0.8419	Age at mer
3	1.57E+08	0.034	0.004399	1.08E-14	rs900399 G	A	0.6103	Age at mer
3	1.72E+08	0.025	0.004515	3.08E-08	rs582780 G	A	0.6213	Age at mer
3	1.86E+08	-0.043	0.004315	2.18E-23	rs2300922T	C	0.5954	Age at mer
4	3267668	-0.028	0.004241	4.04E-11	rs2798224A	G	0.4245	Age at mer
4	28746210	-0.038	0.004928	1.25E-14	rs4473643C	T	0.2435	Age at mer
4	45182527	0.041	0.004353	4.59E-21	rs1093839G	A	0.5795	Age at mer
4	95143122	-0.037	0.004322	1.12E-17	rs3113862G	A	0.6143	Age at mer
4	1.05E+08	-0.054	0.00579	1.10E-20	rs3733632G	A	0.834	Age at mer
4	1.06E+08	0.035	0.005992	5.17E-09	rs1703531C	A	0.837	Age at mer
4	1.31E+08	-0.027	0.004889	3.34E-08	rs3111740A	C	0.2813	Age at mer

4	1.33E+08	-0.038	0.005823	6.77E-11	rs6231679A	C	0.827	Age at mer
4	1.53E+08	-0.026	0.004652	2.29E-08	rs1001117A	G	0.659	Age at mer
4	1.77E+08	-0.025	0.004485	2.49E-08	rs1312003T	C	0.671	Age at mer
5	43134752	0.034	0.004697	4.51E-13	rs1007685A	G	0.3231	Age at mer
5	52909927	-0.029	0.004287	1.34E-11	rs813301 T	C	0.3549	Age at mer
5	64020316	-0.067	0.012028	2.54E-08	rs8017094G	T	0.95129	Age at mer
5	1.11E+08	0.038	0.005129	1.27E-13	rs247520 C	T	0.7624	Age at mer
5	1.34E+08	-0.065	0.006091	1.38E-26	rs6237997G	T	0.834	Age at mer
5	1.38E+08	0.036	0.005611	1.40E-10	rs2240330T	C	0.7763	Age at mer
5	1.54E+08	-0.028	0.004257	4.78E-11	rs7719067G	A	0.4414	Age at mer
5	1.57E+08	0.035	0.00574	1.08E-09	rs437836 C	T	0.162	Age at mer
5	1.67E+08	-0.037	0.006117	1.46E-09	rs9647570G	T	0.8668	Age at mer
5	1.69E+08	0.037	0.005151	6.80E-13	rs6864818C	T	0.2256	Age at mer
5	1.79E+08	-0.025	0.004537	3.58E-08	rs4701140A	G	0.4761	Age at mer
5	1.81E+08	0.034	0.0052	6.20E-11	rs2770957G	C	0.7793	Age at mer
6	28441634	-0.042	0.006441	7.02E-11	rs1266300T	C	0.8718	Age at mer
6	41893323	0.037	0.004213	1.61E-18	rs9349203A	G	0.4573	Age at mer
6	54720275	-0.035	0.00421	9.35E-17	rs9475046C	G	0.5408	Age at mer
6	56862310	0.038	0.005205	2.85E-13	rs6901192G	C	0.7565	Age at mer
6	76449917	-0.032	0.004374	2.56E-13	rs6241476C	G	0.674	Age at mer
6	76928081	-0.026	0.004473	6.16E-09	rs1321933T	C	0.3887	Age at mer
6	77713859	0.041	0.005316	1.23E-14	rs1414186T	G	0.8131	Age at mer
6	1E+08	-0.061	0.006289	3.04E-22	rs6931884T	C	0.8986	Age at mer
6	1.01E+08	0.034	0.004821	1.76E-12	rs9376867A	G	0.6988	Age at mer
6	1.01E+08	0.028	0.004371	1.49E-10	rs240788 G	T	0.4205	Age at mer
6	1.05E+08	0.12	0.004471	1.20E-158	rs395962 G	T	0.3429	Age at mer
6	1.27E+08	0.04	0.004377	6.36E-20	rs4897178G	T	0.5447	Age at mer
6	1.28E+08	0.029	0.00489	3.03E-09	rs1321857C	T	0.6869	Age at mer
6	1.48E+08	-0.031	0.005107	1.28E-09	rs9497905A	C	0.7913	Age at mer
6	1.52E+08	0.033	0.004547	3.93E-13	rs6933660A	C	0.669	Age at mer
7	41470093	-0.072	0.006231	7.02E-31	rs1079866G	C	0.8598	Age at mer
7	74138121	0.041	0.005572	1.87E-13	rs2267812C	A	0.8062	Age at mer
7	75191602	-0.027	0.004435	1.14E-09	rs794361 A	T	0.5288	Age at mer
7	93312679	0.026	0.004402	3.49E-09	rs6968642T	C	0.6123	Age at mer
7	94186064	-0.024	0.004346	3.34E-08	rs15671 C	A	0.4066	Age at mer
7	1.22E+08	-0.029	0.004445	6.85E-11	rs1023730T	G	0.6233	Age at mer
7	1.33E+08	-0.028	0.004288	6.56E-11	rs2042067C	T	0.5408	Age at mer
8	3766880	0.035	0.004815	3.64E-13	rs2688318G	C	0.3032	Age at mer
8	4560227	-0.048	0.004287	4.23E-29	rs2724961C	T	0.4334	Age at mer
8	4845681	0.028	0.004896	1.07E-08	rs3441542C	T	0.7147	Age at mer
8	25280800	-0.029	0.004857	2.37E-09	rs6185 G	C	0.7575	Age at mer
8	53877882	0.05	0.006665	6.30E-14	rs1691837C	T	0.8678	Age at mer
8	54024806	-0.038	0.00529	6.79E-13	rs1254942T	G	0.7614	Age at mer
8	78097805	0.042	0.004482	7.16E-21	rs4735765T	A	0.664	Age at mer
8	78854425	0.027	0.004481	1.69E-09	rs4739183T	C	0.3827	Age at mer

8	87319950	0.041	0.005187	2.70E-15	rs7465046T	C	0.7435	Age at mer
8	1.05E+08	0.026	0.004502	7.68E-09	rs7775124G	T	0.3489	Age at mer
8	1.41E+08	-0.042	0.005688	1.54E-13	rs1469039A	G	0.836	Age at mer
9	1676170	0.03	0.004473	1.99E-11	rs2783994A	G	0.3191	Age at mer
9	7174673	0.037	0.004285	5.85E-18	rs913588 A	G	0.5249	Age at mer
9	10249081	-0.026	0.004677	2.72E-08	rs4741022T	A	0.328	Age at mer
9	11808441	0.034	0.005187	5.56E-11	rs2046549C	G	0.7624	Age at mer
9	73888674	-0.024	0.004199	1.09E-08	rs6560193T	C	0.4871	Age at mer
9	76832928	0.036	0.005387	2.34E-11	rs1086935C	T	0.164	Age at mer
9	83285190	0.032	0.004444	5.97E-13	rs7864983A	G	0.6203	Age at mer
9	86712623	0.042	0.004449	3.75E-21	rs1074673G	A	0.5507	Age at mer
9	96258838	0.027	0.004422	1.02E-09	rs1082114T	C	0.6382	Age at mer
9	1.09E+08	0.1	0.004548	3.70E-107	rs1015659T	A	0.674	Age at mer
9	1.14E+08	-0.1	0.00759	1.21E-39	rs7852169G	C	0.92048	Age at mer
9	1.27E+08	-0.031	0.004303	5.86E-13	rs6478680A	G	0.5189	Age at mer
10	1729026	-0.04	0.004458	2.88E-19	rs7896371T	C	0.5586	Age at mer
10	2718972	-0.039	0.007027	2.86E-08	rs928593 C	T	0.1093	Age at mer
10	51056858	0.027	0.004708	9.73E-09	rs6184690T	C	0.672	Age at mer
10	65191645	-0.025	0.004343	8.62E-09	rs7924036T	G	0.492	Age at mer
10	74071178	0.026	0.004679	2.75E-08	rs4746113A	G	0.67	Age at mer
10	97877320	0.042	0.004749	9.22E-19	rs1172955A	T	0.332	Age at mer
10	1.05E+08	-0.025	0.004339	8.31E-09	rs1119154G	A	0.5855	Age at mer
10	1.21E+08	0.028	0.004388	1.76E-10	rs1040013A	G	0.4254	Age at mer
10	1.24E+08	0.05	0.007869	2.10E-10	rs7077302G	C	0.0755	Age at mer
10	1.27E+08	-0.028	0.004253	4.57E-11	rs6597884C	T	0.5795	Age at mer
11	237087	0.031	0.004956	3.96E-10	rs1045288G	A	0.2684	Age at mer
11	8404501	-0.037	0.004385	3.23E-17	rs1693795G	A	0.6064	Age at mer
11	13324530	0.048	0.004714	2.40E-24	rs1083202A	G	0.2734	Age at mer
11	16786905	0.036	0.005857	7.94E-10	rs6137145A	G	0.8519	Age at mer
11	27686196	-0.034	0.004565	9.52E-14	rs1076765T	G	0.3032	Age at mer
11	29118542	0.032	0.005286	1.42E-09	rs7478970A	G	0.8101	Age at mer
11	30317733	-0.035	0.005713	9.00E-10	rs1103104G	T	0.839	Age at mer
11	43613426	-0.029	0.004465	8.27E-11	rs2625387A	G	0.4036	Age at mer
11	46064974	-0.036	0.004766	4.26E-14	rs953230 A	G	0.3191	Age at mer
11	65473798	0.029	0.004862	2.45E-09	rs1075076A	C	0.2903	Age at mer
11	78027488	-0.045	0.005865	1.68E-14	rs4945266G	A	0.8231	Age at mer
11	84780098	-0.032	0.00517	6.05E-10	rs4402316C	G	0.7167	Age at mer
11	94085099	0.044	0.007689	1.05E-08	rs1135575T	C	0.90457	Age at mer
11	1.01E+08	-0.047	0.004462	6.04E-26	rs1089514C	A	0.3628	Age at mer
11	1.23E+08	-0.06	0.004193	1.90E-46	rs7114175T	A	0.506	Age at mer
12	2475403	0.024	0.0044	4.91E-08	rs1106220C	T	0.5895	Age at mer
12	17126283	-0.12	0.01806	3.04E-11	rs7753042G	A	0.97117	Age at mer
12	49399132	0.077	0.01282	1.90E-09	rs1126930C	G	0.97614	Age at mer
12	50263148	0.041	0.004439	2.55E-20	rs7132908A	G	0.6431	Age at mer
12	97506357	-0.024	0.004237	1.47E-08	rs7979001A	G	0.5129	Age at mer

12	1.09E+08	0.028	0.005049	2.93E-08	rs3764002	T	0.7406	Age at mer
12	1.11E+08	0.024	0.00432	2.77E-08	rs2106404	C	0.4414	Age at mer
13	40238492	0.031	0.004436	2.78E-12	rs9548873	T	0.33	Age at mer
13	49475780	-0.033	0.005915	2.42E-08	rs9568123	G	0.8509	Age at mer
13	59833252	0.032	0.004527	1.57E-12	rs1327938	C	0.3509	Age at mer
13	74600274	-0.034	0.004579	1.13E-13	rs1925047	C	0.2942	Age at mer
13	1.12E+08	0.041	0.004441	2.65E-20	rs9522262	G	0.4801	Age at mer
14	30501371	0.064	0.011032	6.58E-09	rs1013433	T	0.95328	Age at mer
14	60943106	0.054	0.004616	1.31E-31	rs1013891	C	0.3072	Age at mer
14	78634174	-0.028	0.005103	4.10E-08	rs213558	A	0.2247	Age at mer
14	93909749	0.031	0.004526	7.42E-12	rs1008344	G	0.3191	Age at mer
14	1.01E+08	-0.051	0.005201	1.06E-22	rs732898	A	0.3082	Age at mer
14	1.01E+08	-0.045	0.008219	4.38E-08	rs7784850	G	0.9175	Age at mer
15	23794517	-0.048	0.004612	2.29E-25	rs7178532	A	0.3131	Age at mer
15	24540383	0.043	0.007472	8.68E-09	rs2853292	G	0.8479	Age at mer
15	47816374	-0.03	0.00471	1.90E-10	rs1107059	A	0.6839	Age at mer
15	54362745	0.024	0.004377	4.18E-08	rs1107102	G	0.3907	Age at mer
15	60749843	-0.059	0.007171	1.91E-16	rs1727015	A	0.9175	Age at mer
15	64625413	0.075	0.012694	3.46E-09	rs1170081	G	0.9672	Age at mer
15	67988133	0.042	0.004264	6.84E-23	rs3784692	T	0.4076	Age at mer
15	77799657	0.024	0.004307	2.51E-08	rs4886869	G	0.4076	Age at mer
15	83299364	-0.029	0.00432	1.90E-11	rs2837446	A	0.5934	Age at mer
15	89037134	0.04	0.004319	2.03E-20	rs752278	A	0.5875	Age at mer
16	3627358	0.029	0.004828	1.90E-09	rs758747	T	0.7197	Age at mer
16	14388750	-0.047	0.004485	1.07E-25	rs1704528	C	0.6531	Age at mer
16	19751210	-0.043	0.006493	3.54E-11	rs7276953	T	0.8807	Age at mer
16	20375776	-0.025	0.004273	4.89E-09	rs4483850	A	0.5408	Age at mer
16	29880874	0.042	0.004923	1.44E-17	rs3533097	T	0.6998	Age at mer
16	53814363	0.049	0.004311	6.23E-30	rs9972653	C	0.5865	Age at mer
16	69733460	0.053	0.004248	1.00E-35	rs7359336	A	0.4245	Age at mer
17	6034754	0.035	0.005068	4.97E-12	rs1260328	G	0.7624	Age at mer
17	7774047	-0.046	0.00836	3.74E-08	rs5568096	A	0.93042	Age at mer
17	43173273	-0.025	0.004352	9.24E-09	rs2301597	C	0.4911	Age at mer
17	49613785	-0.059	0.004637	4.39E-37	rs9635759	A	0.7048	Age at mer
17	53229345	-0.033	0.004392	5.76E-14	rs1994234	G	0.4105	Age at mer
17	78779665	0.032	0.005166	5.86E-10	rs5915309	C	0.7724	Age at mer
18	3813464	0.051	0.004816	3.32E-26	rs1187390	A	0.2823	Age at mer
18	44785302	-0.053	0.004257	1.40E-35	rs2668767	T	0.4026	Age at mer
19	1861023	-0.027	0.004391	7.82E-10	rs5628964	A	0.4682	Age at mer
19	4980864	-0.029	0.004562	2.05E-10	rs169080	C	0.3708	Age at mer
19	7891514	-0.03	0.005167	6.38E-09	rs610445	G	0.2406	Age at mer
19	10006795	-0.046	0.004366	5.95E-26	rs7256078	T	0.5417	Age at mer
19	18819060	-0.036	0.005266	8.16E-12	rs6002178	A	0.7604	Age at mer
19	31044844	0.032	0.005869	4.97E-08	rs1167313	C	0.827	Age at mer
19	34311481	0.028	0.004478	4.03E-10	rs29938	T	0.3449	Age at mer

19	36204690	-0.029	0.004138	2.40E-12	rs107068	G	A	0.5209	Age at mer
19	47609223	0.044	0.0047	7.89E-21	rs4804025	A	G	0.3131	Age at mer
19	49209339	-0.024	0.004374	4.09E-08	rs2548459	C	T	0.5298	Age at mer
20	17109159	-0.035	0.004312	4.77E-16	rs852061	C	A	0.3817	Age at mer
20	20348962	0.036	0.00622	7.12E-09	rs1115583	T	C	0.8857	Age at mer
20	33456921	-0.031	0.00499	5.23E-10	rs7273470	C	G	0.8101	Age at mer
20	37297776	-0.035	0.005151	1.08E-11	rs6027163	A	G	0.7604	Age at mer
20	54823550	0.043	0.00678	2.26E-10	rs1157588	G	A	0.8767	Age at mer
20	62443239	-0.025	0.004487	2.52E-08	rs6011149	A	G	0.6382	Age at mer
21	37768628	-0.044	0.006522	1.52E-11	rs6222940	A	G	0.8588	Age at mer
21	40611442	0.032	0.004462	7.41E-13	rs4818008	A	T	0.6024	Age at mer
22	22162374	0.027	0.004204	1.34E-10	rs5749998	T	A	0.4771	Age at mer
22	31287711	0.032	0.004697	9.61E-12	rs1170556	A	G	0.7256	Age at mer
22	49678782	0.035	0.004848	5.23E-13	rs8136272	T	A	0.7485	Age at mer
6	1.06E+08	1.39652	0.303451	4.18E-06	rs1266374	T	C	0.065423	Diabetes o
8	84886337	2.25694	0.448782	4.93E-07	rs7675205	G	A	0.035588	Diabetes o
9	1.02E+08	2.24545	0.418003	7.79E-08	rs7671520	T	C	0.038279	Diabetes o
9	1.04E+08	0.899672	0.18758	1.62E-06	rs7274339	C	T	0.178398	Diabetes o
11	35565554	0.984161	0.215159	4.78E-06	rs7783474	C	T	0.137503	Diabetes o
16	79108940	0.653982	0.140948	3.49E-06	rs9937803	G	A	0.418518	Diabetes o
17	59518015	4.27399	0.844686	4.20E-07	rs1469446	A	G	0.01177	Diabetes o
1	94457196	1.3	0.26	6.40E-07	rs1711071	T	A	0.031	Illnesses o
1	2.12E+08	0.83	0.18	3.60E-06	rs1214328	T	C	0.061	Illnesses o
3	1.15E+08	1.6	0.33	2.90E-06	rs7913503	G	A	0.02	Illnesses o
4	1.13E+08	0.44	0.097	4.30E-06	rs1704409	T	G	0.24	Illnesses o
6	1.55E+08	0.74	0.15	1.90E-06	rs3930218	G	A	0.083	Illnesses o
12	26922895	0.49	0.1	3.00E-06	rs1050601	C	T	0.8	Illnesses o
12	1.26E+08	-0.43	0.093	3.00E-06	rs6194111	A	G	0.27	Illnesses o
22	27381298	0.77	0.14	3.40E-08	rs9613318	A	G	0.11	Illnesses o
1	44097438	-0.007673	0.001222	3.39E-10	rs1240597	T	G	0.347724	Maternal s
4	1.41E+08	-0.007357	0.001213	1.30E-09	rs1731480	T	C	0.360416	Maternal s
6	26159356	-0.008303	0.001393	2.50E-09	rs2183947	A	G	0.224611	Maternal s
8	92990029	-0.008132	0.001435	1.47E-08	rs2028652	C	T	0.228674	Maternal s
9	1.36E+08	0.012692	0.001854	7.64E-12	rs7559618	T	C	0.111233	Maternal s
15	78862762	-0.01034	0.001416	2.79E-13	rs664172	A	G	0.220438	Maternal s
20	61986949	0.012569	0.001659	3.51E-14	rs2273500	C	T	0.144147	Maternal s
1	3675002	0.015869	0.00322	8.33E-07	rs6682863	A	G	0.935965	Maternal s
1	51039654	0.017543	0.003306	1.12E-07	rs6669941	A	G	0.935605	Maternal s
1	2.15E+08	0.010602	0.002288	3.60E-06	rs3509078	T	C	0.86209	Maternal s
2	338364	0.007706	0.001602	1.52E-06	rs2203063	T	C	0.571303	Maternal s
2	1.65E+08	-0.008394	0.001783	2.52E-06	rs3556616	G	A	0.723995	Maternal s
3	51921338	0.033453	0.006691	5.74E-07	rs1442002	A	G	0.985124	Maternal s
3	68655281	-0.007669	0.00166	3.87E-06	rs4855340	C	T	0.662177	Maternal s
3	1.53E+08	0.008736	0.001635	9.14E-08	rs9874232	C	A	0.633656	Maternal s
4	96021973	0.00784	0.001636	1.65E-06	rs1343464	G	A	0.638435	Maternal s

4	1.41E+08	0.007735	0.001619	1.78E-06	rs3561272A	G	0.616756	Maternal s
4	1.44E+08	0.035074	0.006782	2.33E-07	rs1507913C	T	0.9853	Maternal s
5	1.04E+08	0.010142	0.002003	4.12E-07	rs7461386C	G	0.810427	Maternal s
6	26159356	0.009898	0.001876	1.33E-07	rs2183947A	G	0.775427	Maternal s
7	4948043	-0.009347	0.001996	2.83E-06	rs5637416C	G	0.786963	Maternal s
7	79884394	0.017847	0.003428	1.93E-07	rs306697 A	G	0.943186	Maternal s
7	1.37E+08	0.007477	0.001617	3.78E-06	rs322301 C	A	0.615097	Maternal s
8	16694516	0.00855	0.001871	4.91E-06	rs6999072A	C	0.6987	Maternal s
8	70914300	-0.008964	0.001866	1.56E-06	rs304600 C	A	0.768085	Maternal s
8	93111532	-0.009579	0.001909	5.22E-07	rs1484559C	T	0.78249	Maternal s
10	95595983	-0.028148	0.005781	1.12E-06	rs1414509T	C	0.978629	Maternal s
10	1.07E+08	-0.008079	0.001758	4.30E-06	rs2491365C	T	0.723487	Maternal s
11	29878815	0.014737	0.00299	8.26E-07	rs5631863A	C	0.924511	Maternal s
11	1.14E+08	-0.009921	0.001835	6.41E-08	rs1633547T	C	0.75882	Maternal s
12	23990983	-0.011634	0.002474	2.58E-06	rs9668905A	T	0.881608	Maternal s
12	50015942	0.014389	0.002984	1.42E-06	rs7408691A	G	0.925188	Maternal s
12	1.18E+08	0.019106	0.004183	4.93E-06	rs6193872T	C	0.958914	Maternal s
15	78870803	0.011467	0.001875	9.58E-10	rs576982 T	C	0.773641	Maternal s
16	88921493	-0.008022	0.001756	4.92E-06	rs1293258A	C	0.724108	Maternal s
18	1837007	-0.011438	0.002279	5.21E-07	rs1371274C	A	0.863287	Maternal s
20	50348811	-0.025661	0.005534	3.54E-06	rs7313565A	G	0.97867	Maternal s
20	61986949	-0.01195	0.00224	9.61E-08	rs2273500C	T	0.85632	Maternal s
1	44140075	-0.036768	0.005472	1.83E-11	rs1078944C	A	0.333704	Maternal s
4	1.41E+08	-0.034899	0.005304	4.73E-11	rs3607264A	T	0.381357	Maternal s
6	26159356	-0.037155	0.006143	1.47E-09	rs2183947A	G	0.225156	Maternal s
7	32315613	0.032439	0.005326	1.12E-09	rs1022622G	A	0.369832	Maternal s
8	93114414	-0.038054	0.006288	1.44E-09	rs7002049T	C	0.214316	Maternal s
9	1.36E+08	0.058657	0.008236	1.07E-12	rs1139274G	C	0.110208	Maternal s
10	1.05E+08	0.041761	0.007379	1.52E-08	rs1088380G	A	0.140893	Maternal s
15	78870803	-0.045361	0.006135	1.43E-13	rs576982 T	C	0.227239	Maternal s
16	24830866	-0.032253	0.005796	2.62E-08	rs1292094A	T	0.273445	Maternal s
17	32906373	0.034781	0.006297	3.33E-08	rs5632237T	G	0.230467	Maternal s
20	61984317	0.049234	0.006548	5.53E-14	rs6011779C	T	0.190062	Maternal s

mr_keep	epval_origi	id.exposur	data_sourc	samplesizer2	F	
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TRUE reported	mrqKhx	textfile	182416	0.000229	41.821
TRUE reported	mrqKhx	textfile	182416	0.000335	61.20168
TRUE reported	mrqKhx	textfile	182416	0.000489	89.25438
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TRUE reported	mrqKhx	textfile	182416	0.000567	103.5481
TRUE reported	mrqKhx	textfile	182416	0.000176	32.1458
TRUE reported	mrqKhx	textfile	182416	0.000215	39.17694
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TRUE reported	mrqKhx	textfile	182416	0.000175	31.97675
TRUE reported	mrqKhx	textfile	182416	0.000241	44.01372
TRUE reported	mrqKhx	textfile	182416	0.000327	59.74398
TRUE reported	mrqKhx	textfile	182416	0.000168	30.65612
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TRUE reported	mrqKhx	textfile	182416	0.000326	59.45628
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TRUE reported	mrqKhx	textfile	182416	0.000167	30.4989

TRUE reported	mrqKhx	textfile	182416	0.000233	42.58386
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TRUE reported	mrqKhx	textfile	182416	0.00017	31.0688
TRUE reported	mrqKhx	textfile	182416	0.000287	52.40693
TRUE reported	mrqKhx	textfile	182416	0.000251	45.75461
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TRUE reported	mrqKhx	textfile	182416	0.000226	41.16323
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TRUE reported	mrqKhx	textfile	182416	0.000283	51.60063
TRUE reported	mrqKhx	textfile	182416	0.000166	30.36428
TRUE reported	mrqKhx	textfile	182416	0.000234	42.75589
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TRUE reported	mrqKhx	textfile	182416	0.000409	74.57007
TRUE reported	mrqKhx	textfile	182416	0.000169	30.89732
TRUE reported	mrqKhx	textfile	182416	0.000236	42.96903
TRUE reported	mrqKhx	textfile	182416	0.000179	32.67338
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TRUE reported	mrqKhx	textfile	182416	0.000201	36.64077
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TRUE reported	mrqKhx	textfile	182416	0.000169	30.86197
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TRUE reported	mrqKhx	textfile	182416	0.000171	31.12414
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TRUE reported	mrqKhx	textfile	182416	0.000302	55.12618
TRUE reported	mrqKhx	textfile	182416	0.000467	85.23355
TRUE reported	mrqKhx	textfile	182416	0.000184	33.65479
TRUE reported	mrqKhx	textfile	182416	0.00075	136.834
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TRUE reported	mrqKhx	textfile	182416	0.000527	96.15826
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TRUE reported	mrqKhx	textfile	182416	0.000182	33.11611
TRUE reported	mrqKhx	textfile	182416	0.000222	40.56643
TRUE reported	mrqKhx	textfile	182416	0.000165	30.06377
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TRUE reported	mrqKhx	textfile	182416	0.00017	31.05327
TRUE reported	mrqKhx	textfile	182416	0.000247	45.0707
TRUE reported	mrqKhx	textfile	182416	0.00047	85.76057
TRUE reported	mrqKhx	textfile	182416	0.000198	36.07324
TRUE reported	mrqKhx	textfile	182416	0.000602	109.8244
TRUE reported	mrqKhx	textfile	182416	0.00024	43.85245
TRUE reported	mrqKhx	textfile	182416	0.000188	34.23233
TRUE reported	mrqKhx	textfile	182416	0.000399	72.79201
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TRUE reported	mrqKhx	textfile	182416	0.000853	155.6673
TRUE reported	mrqKhx	textfile	182416	0.000261	47.69826
TRUE reported	mrqKhx	textfile	182416	0.000166	30.27947
TRUE reported	mrqKhx	textfile	182416	0.000181	32.99456
TRUE reported	mrqKhx	textfile	182416	0.000887	161.8802
TRUE reported	mrqKhx	textfile	182416	0.000309	56.45094
TRUE reported	mrqKhx	textfile	182416	0.00021	38.36709
TRUE reported	mrqKhx	textfile	182416	0.000614	112.1444
TRUE reported	mrqKhx	textfile	182416	0.000849	154.9986
TRUE reported	mrqKhx	textfile	182416	0.000207	37.80412
TRUE reported	mrqKhx	textfile	182416	0.000222	40.41797
TRUE reported	mrqKhx	textfile	182416	0.000185	33.71483
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TRUE reported	mrqKhx	textfile	182416	0.000256	46.72642
TRUE reported	mrqKhx	textfile	182416	0.000163	29.72813
TRUE reported	mrqKhx	textfile	182416	0.000214	39.09785

TRUE reported	mrqKhx	textfile	182416	0.000269	49.12577
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TRUE reported	mrqKhx	textfile	182416	0.000184	33.50138
TRUE reported	mrqKhx	textfile	182416	0.000212	38.58907
TRUE reported	mrqKhx	textfile	182416	0.000253	46.17719
TRUE reported	mrqKhx	textfile	182416	0.00022	40.22744
TRUE reported	mrqKhx	textfile	182416	0.00017	31.04555
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TRUE reported	mrqKhx	textfile	182416	0.000282	51.43197
TRUE reported	mrqKhx	textfile	182416	0.000226	41.24885
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TRUE reported	hzTFAg	textfile	113	0.182884	24.84355
TRUE reported	hzTFAg	textfile	113	0.203422	28.34605
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TRUE reported	hzTFAg	textfile	113	0.156228	20.55218
TRUE reported	hzTFAg	textfile	113	0.160029	21.14746
TRUE reported	hzTFAg	textfile	113	0.184717	25.14901
TRUE reported	93GFWQ	textfile	408154	6.12E-05	24.99988
TRUE reported	93GFWQ	textfile	408154	5.21E-05	21.26224
TRUE reported	93GFWQ	textfile	408154	5.76E-05	23.50769
TRUE reported	93GFWQ	textfile	408154	5.04E-05	20.57594
TRUE reported	93GFWQ	textfile	408154	5.96E-05	24.33766
TRUE reported	93GFWQ	textfile	408154	5.88E-05	24.00988
TRUE reported	93GFWQ	textfile	408154	5.24E-05	21.37809
TRUE reported	93GFWQ	textfile	408154	7.41E-05	30.24985
TRUE reported	gor4ow	textfile	309942	0.000127	39.43843
TRUE reported	gor4ow	textfile	309942	0.000119	36.80828
TRUE reported	gor4ow	textfile	309942	0.000115	35.54241
TRUE reported	gor4ow	textfile	309942	0.000104	32.09746
TRUE reported	gor4ow	textfile	309942	0.000151	46.85855
TRUE reported	gor4ow	textfile	309942	0.000172	53.35299
TRUE reported	gor4ow	textfile	309942	0.000185	57.43061
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TRUE reported	Xa9EyB	textfile	167814	0.000168	28.16407
TRUE reported	Xa9EyB	textfile	167814	0.000128	21.47036
TRUE reported	Xa9EyB	textfile	167814	0.000138	23.12497
TRUE reported	Xa9EyB	textfile	167814	0.000132	22.15332
TRUE reported	Xa9EyB	textfile	167814	0.000149	24.99888
TRUE reported	Xa9EyB	textfile	167814	0.000127	21.33053
TRUE reported	Xa9EyB	textfile	167814	0.00017	28.55059
TRUE reported	Xa9EyB	textfile	167814	0.000137	22.96279

TRUE reported	Xa9EyB	textfile	167814	0.000136	22.82465
TRUE reported	Xa9EyB	textfile	167814	0.000159	26.74219
TRUE reported	Xa9EyB	textfile	167814	0.000153	25.63728
TRUE reported	Xa9EyB	textfile	167814	0.000166	27.82738
TRUE reported	Xa9EyB	textfile	167814	0.000131	21.92902
TRUE reported	Xa9EyB	textfile	167814	0.000161	27.10531
TRUE reported	Xa9EyB	textfile	167814	0.000127	21.37282
TRUE reported	Xa9EyB	textfile	167814	0.000124	20.87383
TRUE reported	Xa9EyB	textfile	167814	0.000137	23.06961
TRUE reported	Xa9EyB	textfile	167814	0.00015	25.18155
TRUE reported	Xa9EyB	textfile	167814	0.000141	23.70977
TRUE reported	Xa9EyB	textfile	167814	0.000126	21.12582
TRUE reported	Xa9EyB	textfile	167814	0.000145	24.29711
TRUE reported	Xa9EyB	textfile	167814	0.000174	29.23652
TRUE reported	Xa9EyB	textfile	167814	0.000132	22.10577
TRUE reported	Xa9EyB	textfile	167814	0.000139	23.25193
TRUE reported	Xa9EyB	textfile	167814	0.000124	20.8654
TRUE reported	Xa9EyB	textfile	167814	0.000223	37.41357
TRUE reported	Xa9EyB	textfile	167814	0.000124	20.86879
TRUE reported	Xa9EyB	textfile	167814	0.00015	25.18609
TRUE reported	Xa9EyB	textfile	167814	0.000128	21.49858
TRUE reported	Xa9EyB	textfile	167814	0.00017	28.45337
TRUE reported	5PiVJS	textfile	391992	0.000115	45.1461
TRUE reported	5PiVJS	textfile	391992	0.00011	43.28546
TRUE reported	5PiVJS	textfile	391992	9.33E-05	36.57891
TRUE reported	5PiVJS	textfile	391992	9.46E-05	37.10228
TRUE reported	5PiVJS	textfile	391992	9.34E-05	36.61905
TRUE reported	5PiVJS	textfile	391992	0.000129	50.72015
TRUE reported	5PiVJS	textfile	391992	8.17E-05	32.02866
TRUE reported	5PiVJS	textfile	391992	0.000139	54.66
TRUE reported	5PiVJS	textfile	391992	7.90E-05	30.96692
TRUE reported	5PiVJS	textfile	391992	7.78E-05	30.50643
TRUE reported	5PiVJS	textfile	391992	0.000144	56.53142











































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































**Table S1. Information of included GWAS data**

<b>Trait</b>	<b>GWAS ID/PMID</b>	<b>case/control</b>	<b>SNPs Numbers</b>
Neonatal jaundice from other and unspecified causes	finn-b- P16_NEONTAL_JAUND_OTH_UNSP_CAUSES	133/218,608	16,380,466
Age at menarche	28436984	182 416	NA
Age at first birth	ebi-a-GCST90000048	418,758	10,766,720
Age at first sexual intercourse	ebi-a-GCST90000047	397,338	16,359,424
Illnesses of the mother: high blood pressure	PheCode : 642.1	NA	NA
Diabetes or abnormal glucose tolerance complicating pregnancy	GCST90044484	113/247427	NA
Maternal smoking around birth	GCST90041001-GCST90042000/GCST90041844/	391992	NA

**Table S2. The information of included IVs for exposure.**

**Table S3. The information of Proxy SNPs records**

Primary SNPs	Proxy SNPs
rs112282597	rs1864885
rs359240	rs359243
rs72704712	rs12588538
rs6744794	rs2341463
rs12714592	rs34007974
rs112523595	rs34495106
rs186723454	rs115882849
rs4728298	rs11772444
rs9643087	rs1039137
rs112880127	rs11198323
rs9581878	rs9581877
rs9536994	rs7984067
rs34155040	rs34939493
rs141164370	rs11587537
rs2461794	rs67451924
rs3111740	rs2952857
rs7465046	rs4464946
rs117008125	rs77796009
rs7256078	rs7254989
rs62229409	rs138792816
rs2028652	rs2920464
rs664172	rs667282
rs9668905	rs10842232

rs12920941

rs12599643

**Table S4 The results of MR-PRESSO Test**

Outcome	Exposure	Raw		Outlier corrected		Global <i>p</i>	No. of outliers	Distortion <i>p</i>
		ORCI	<i>P</i>	ORCI	<i>P</i>			
Neonatal jaundice	Age at first birth	0.8725 ( 0.6197 - 1.2285 )	0.43 76	NA ( NA - NA )	NA	0.109	NA	NA
	Age at first sexual intercourse	1.4587 ( 0.6028 - 3.5299 )	0.40 34	NA ( NA - NA )	NA	0.142	NA	NA
	Age at menarche	0.921 ( 0.6602 - 1.2849 )	0.62 86	NA ( NA - NA )	NA	0.195	NA	NA
	Diabetes or abnormal glucose tolerance complicating pregnancy	0.9843 ( 0.8987 - 1.078 )	0.74 66	NA ( NA - NA )	NA	0.444	NA	NA
	Illnesses of the mother high blood pressure	1.0812 ( 0.918 - 1.2735 )	0.38 09	NA ( NA - NA )	NA	0.12	NA	NA
	Maternal smoking around birth	8.5227 ( 2.2084 - 32.8914 )	0.011 1	NA ( NA - NA )	NA	0.615	NA	NA
	Maternal smoking around birth(both)	1943.7047 ( 0.1696 - 22280478.3427 )	0.16 34	NA ( NA - NA )	NA	0.267	NA	NA
	Maternal smoking around birth(female)	1.6148 ( 0.021 - 124.1448 )	0.83 02	NA ( NA - NA )	NA	0.076	NA	NA



**Table S5. Statistical power calculations for each exposure-outcome pair in the two-sample Mendelian randomization analysis.**

<b>Outco me</b>	<b>Exposure</b>	<b>IVW_ OR</b>	<b>Exposu re_R2</b>	<b>N</b>	<b>K</b>	<b>Pow er</b>
NJFO		0.8219	0.00568	218	0.0006	5.27
AUC	Age at first birth	54431	4177	741	08025	%
NJFO		8.5227	0.00115	218	0.0006	84.8
AUC	Maternal smoking around birth	06798	8507	741	08025	5%
NJFO	Illnesses of the mother high blood	1.0812	0.00045	218	0.0006	5.00
AUC	pressure	03071	5818	741	08025	%
NJFO	Diabetes or abnormal glucose tolerance	0.9842	0.00037	218	0.0006	5.00
AUC	complicating pregnancy	78545	1074	741	08025	%
NJFO		0.9060	0.06921	218	0.0006	7.28
AUC	Age at menarche	05959	1454	741	08025	%
NJFO		1.3322	0.02020	218	0.0006	8.46
AUC	Age at first sexual intercourse	9816	217	741	08025	%

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