

Biomedical consequences of elevated blood lipopro- teins and apolipoprotein concentration

Blood lipoproteins and apolipoprotein

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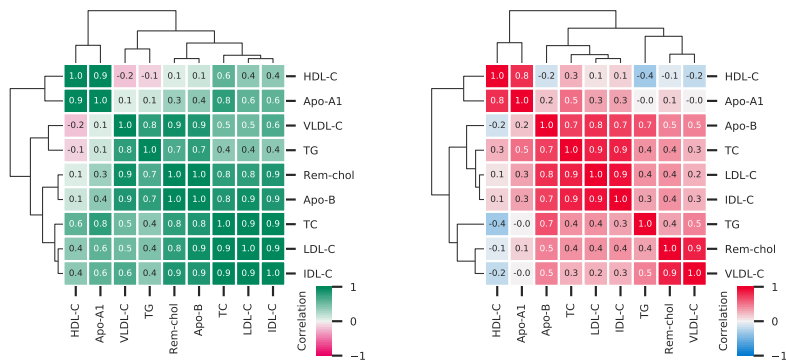


Figure S1: Spearman's pairwise correlation between the phenotypic NMR measured blood lipids (*left*: based on a n=14,834 UCLEB[1] sample) and between the genetic association with these blood lipids (*right*: based on a n=33,029 meta-analysis of UCLEB and Kettunen[2]); the margin order was based on hierarchical clustering of the Euclidean distance.

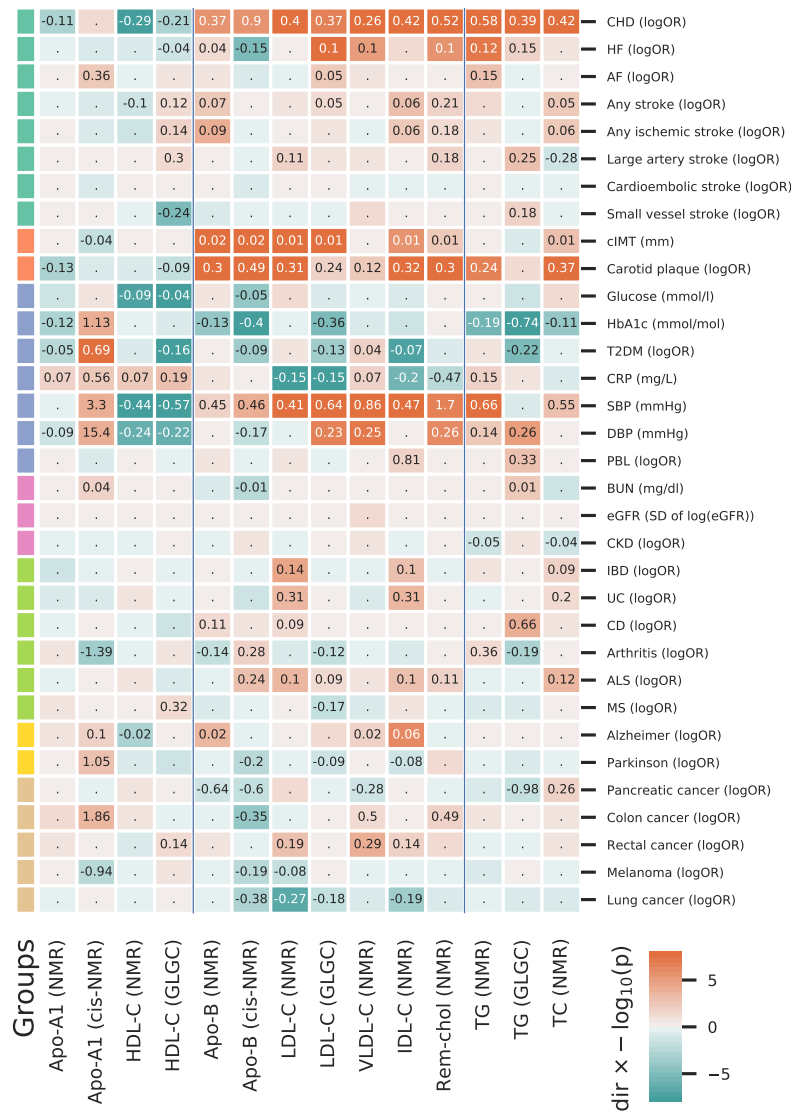


Figure S2: Mendelian randomization estimates of the total effects of a one SD increase in cholesterol-containing lipoprotein and apolipoprotein concentration. With independent replication data from the GLGC GWAS [3], and technical replication using *cis* MR analysis of Apo-A1 and Apo-B concentrations.

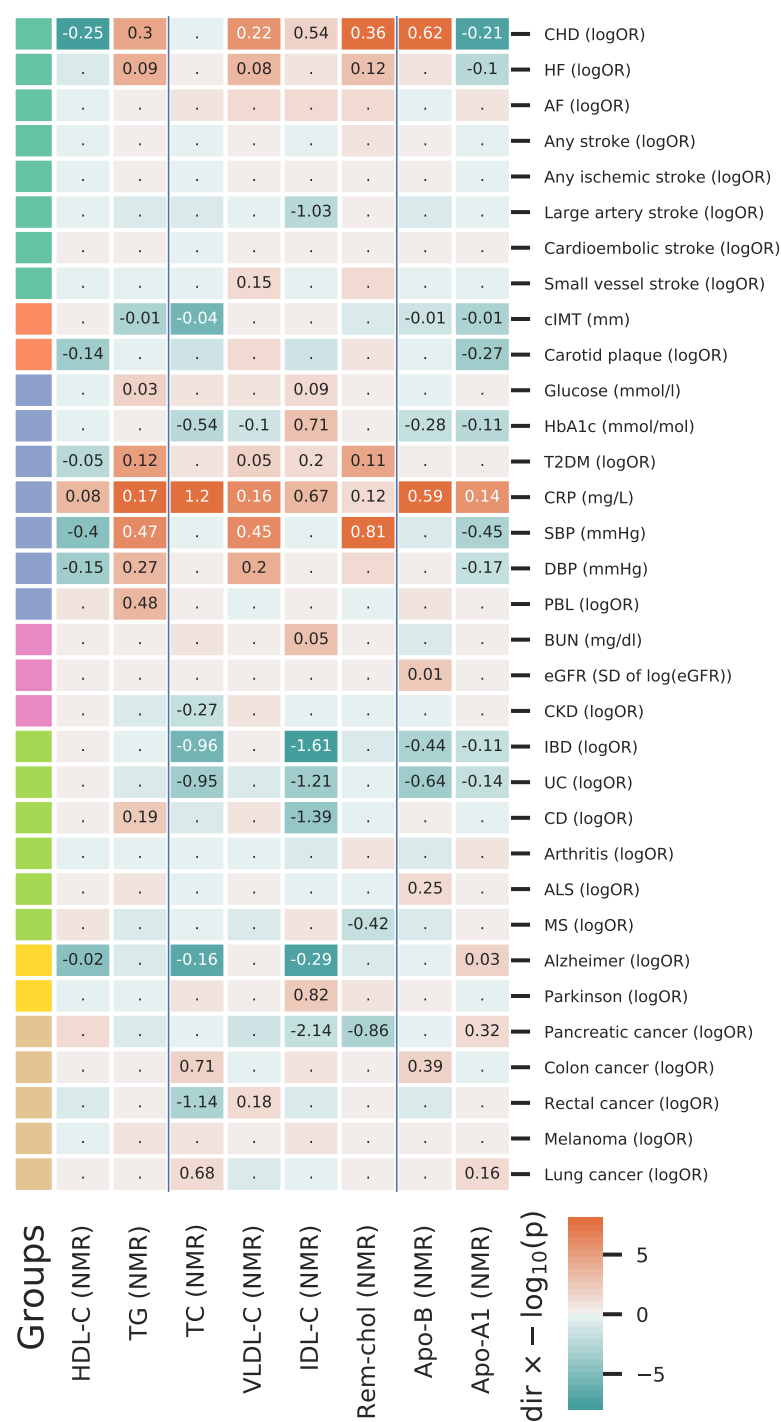


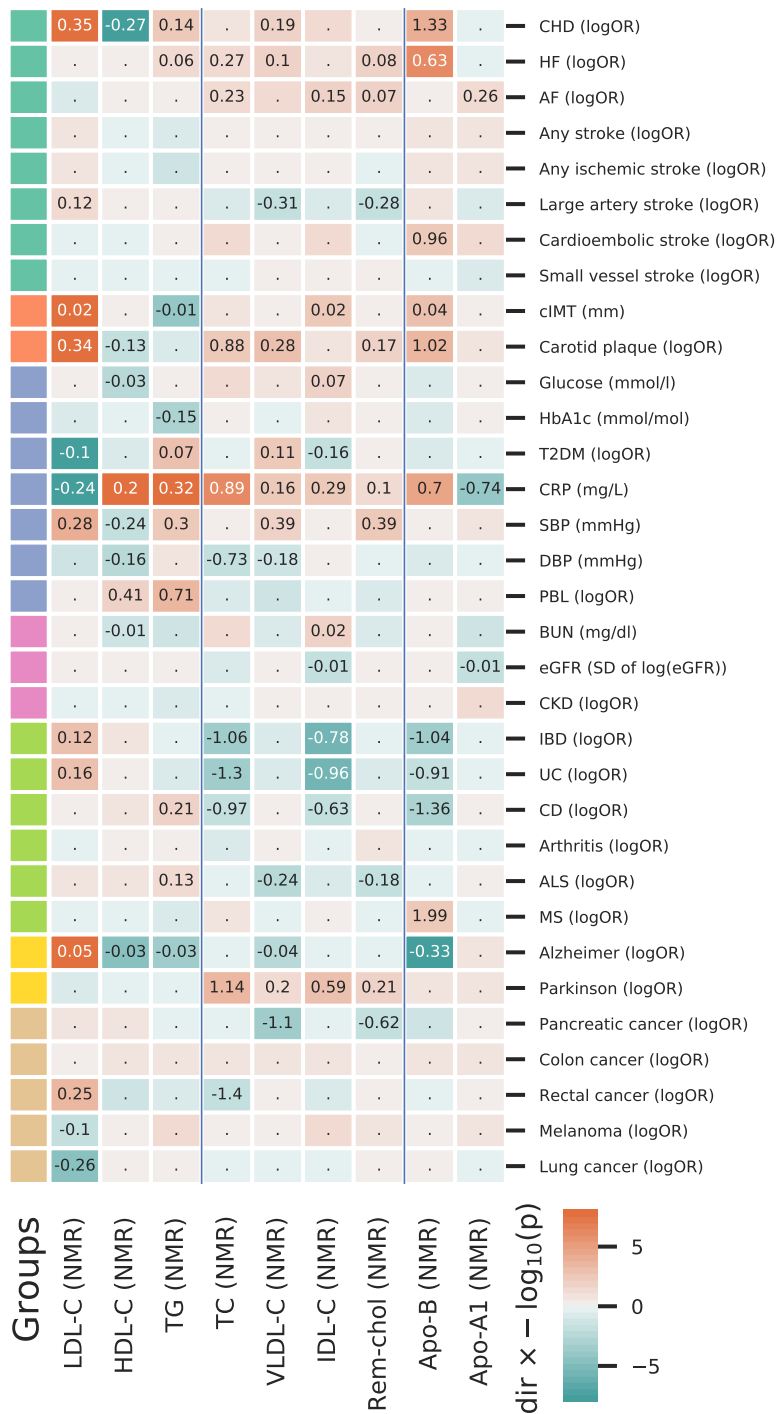
Figure S3: Multivariable Mendelian randomization estimates of the direct pathway effect of one SD change in blood lipid, conditional on LDL-C.



Figure S4: Multivariable Mendelian randomization estimates of the direct pathway effect of one SD change in blood lipid, conditional on HDL-C.



Figure S5: Multivariable Mendelian randomization estimates of the direct pathway effect of one SD change in blood lipid, conditional on Triglycerides.



Tables

Table S1: The standard deviation of NMR measured blood lipids in mmol/L (total cholesterol, triglycerides, lipoproteins) or g/L (apolipoproteins)

Blood lipid	Standard deviation
LDL-C	0.646
HDL-C	0.416
TG	0.613
VLDL-C	0.282
IDL-C	0.232
Rem-chol	0.461
Chol	1.238
Apo-B	0.238
Apo-A1	0.276

Table S2: (Multivariable) Mendelian randomization effect estimates for one standard deviation change in LDL-C

Outcome	Effect type	Point estimate (95%CI)	P-value	Estimator	Heterogeneity P-value	Precision	No. variants
CHD (OR)	Total	1.50 (1.41; 1.59)	< 0.001	IVW	< 0.001	1.1×10 ³	25
CHD (OR)	HDL-C independent	1.45 (1.36; 1.56)	< 0.001	MR Egger	< 0.001	8.1×10 ²	50
CHD (OR)	TG independent	1.28 (1.19; 1.37)	< 0.001	MR Egger	< 0.001	7.4×10 ²	45
CHD (OR)	HDL-C & TG independent	1.43 (1.34; 1.52)	< 0.001	IVW	< 0.001	9.5×10 ²	57
HF (OR)	Total	1.00 (0.95; 1.06)	0.926	MR Egger	< 0.001	1.2×10 ³	111
HF (OR)	HDL-C independent	1.01 (0.97; 1.05)	0.530	MR Egger	< 0.001	2.5×10 ³	185
HF (OR)	TG independent	0.96 (0.92; 1.01)	0.090	MR Egger	< 0.001	1.8×10 ³	162
HF (OR)	HDL-C & TG independent	1.00 (0.96; 1.03)	0.848	IVW	< 0.001	2.8×10 ³	216

Table S2: (Multivariable) Mendelian randomization effect estimates for one standard deviation change in LDL-C (*continued*)

Outcome	Effect type	Point estimate (95%CI)	P-value	Estimator	Heterogeneity P-value	Precision	No. variants
AF (OR)	Total	0.99 (0.96; 1.02)	0.476	IVW	0.080	5.0×10 ³	121
AF (OR)	HDL-C independent	1.00 (0.97; 1.02)	0.875	IVW	0.067	5.5×10 ³	202
AF (OR)	TG independent	0.98 (0.95; 1.01)	0.285	IVW	< 0.001	4.2×10 ³	181
AF (OR)	HDL-C & TG independent	0.98 (0.95; 1.01)	0.178	IVW	< 0.001	4.0×10 ³	238
Any stroke (OR)	Total	1.04 (0.97; 1.12)	0.261	MR Egger	0.004	7.5×10 ²	112
Any stroke (OR)	HDL-C independent	1.03 (0.99; 1.07)	0.106	IVW	< 0.001	3.1×10 ³	192
Any stroke (OR)	TG independent	1.01 (0.95; 1.07)	0.722	MR Egger	< 0.001	1.2×10 ³	167
Any stroke (OR)	HDL-C & TG independent	1.04 (0.99; 1.09)	0.089	IVW	< 0.001	1.9×10 ³	228
Any ischemic stroke (OR)	Total	1.02 (0.94; 1.11)	0.646	MR Egger	0.067	5.3×10 ²	111
Any ischemic stroke (OR)	HDL-C independent	1.02 (0.98; 1.06)	0.387	IVW	< 0.001	2.5×10 ³	189
Any ischemic stroke (OR)	TG independent	0.99 (0.93; 1.06)	0.843	MR Egger	0.096	8.7×10 ²	165
Any ischemic stroke (OR)	HDL-C & TG independent	1.03 (0.98; 1.08)	0.206	IVW	0.010	1.6×10 ³	226
Large artery stroke (OR)	Total	1.12 (1.02; 1.23)	0.018	IVW	< 0.001	4.2×10 ²	113
Large artery stroke (OR)	HDL-C independent	1.12 (1.02; 1.23)	0.015	IVW	< 0.001	4.4×10 ²	192
Large artery stroke (OR)	TG independent	1.02 (0.88; 1.19)	0.768	MR Egger	< 0.001	1.6×10 ²	168
Large artery stroke (OR)	HDL-C & TG independent	1.13 (1.00; 1.27)	0.046	IVW	< 0.001	2.7×10 ²	229
Cardioembolic stroke (OR)	Total	1.00 (0.93; 1.08)	0.994	IVW	0.026	6.9×10 ²	114
Cardioembolic stroke (OR)	HDL-C independent	0.98 (0.91; 1.06)	0.650	IVW	0.039	6.8×10 ²	191
Cardioembolic stroke (OR)	TG independent	1.02 (0.89; 1.17)	0.775	MR Egger	0.054	2.2×10 ²	167
Cardioembolic stroke (OR)	HDL-C & TG independent	0.99 (0.90; 1.08)	0.769	IVW	0.041	4.4×10 ²	228
Small vessel stroke (OR)	Total	0.99 (0.90; 1.08)	0.758	IVW	0.070	4.2×10 ²	116
Small vessel stroke (OR)	HDL-C independent	0.95 (0.87; 1.04)	0.254	IVW	0.008	5.1×10 ²	195
Small vessel stroke (OR)	TG independent	0.86 (0.75; 0.99)	0.042	MR Egger	0.006	1.9×10 ²	170
Small vessel stroke (OR)	HDL-C & TG independent	0.97 (0.87; 1.08)	0.572	IVW	0.007	3.2×10 ²	232
cIMT (mm)	Total	0.01 (0.01; 0.02)	< 0.001	IVW	< 0.001	5.1×10 ⁵	116
cIMT (mm)	HDL-C independent	0.02 (0.01; 0.02)	< 0.001	MR Egger	< 0.001	2.7×10 ⁵	193
cIMT (mm)	TG independent	0.01 (0.01; 0.02)	< 0.001	MR Egger	< 0.001	2.0×10 ⁵	172
cIMT (mm)	HDL-C & TG independent	0.02 (0.01; 0.02)	< 0.001	MR Egger	< 0.001	2.7×10 ⁵	234
Carotid plaque (OR)	Total	1.37 (1.28; 1.46)	< 0.001	IVW	0.009	8.7×10 ²	111
Carotid plaque (OR)	HDL-C independent	1.27 (1.15; 1.40)	< 0.001	MR Egger	< 0.001	4.3×10 ²	187
Carotid plaque (OR)	TG independent	1.22 (1.09; 1.36)	< 0.001	MR Egger	0.013	3.1×10 ²	162
Carotid plaque (OR)	HDL-C & TG independent	1.40 (1.29; 1.52)	< 0.001	IVW	0.004	5.6×10 ²	222
Glucose (mmol/l)	Total	0.02 (-0.00; 0.04)	0.075	MR Egger	0.049	9.2×10 ³	115
Glucose (mmol/l)	HDL-C independent	-0.01 (-0.02; 0.00)	0.097	IVW	< 0.001	4.1×10 ⁴	191
Glucose (mmol/l)	TG independent	0.01 (-0.01; 0.02)	0.361	MR Egger	< 0.001	1.7×10 ⁴	172
Glucose (mmol/l)	HDL-C & TG independent	0.01 (-0.01; 0.02)	0.449	MR Egger	< 0.001	2.0×10 ⁴	226
HbA1c (mmol/mol)	Total	-0.03 (-0.14; 0.07)	0.520	MR Egger	< 0.001	3.4×10 ²	113
HbA1c (mmol/mol)	HDL-C independent	-0.09 (-0.16; -0.02)	0.013	MR Egger	< 0.001	7.7×10 ²	187
HbA1c (mmol/mol)	TG independent	0.02 (-0.06; 0.10)	0.587	MR Egger	< 0.001	6.2×10 ²	169

Table S2: (Multivariable) Mendelian randomization effect estimates for one standard deviation change in LDL-C (*continued*)

Outcome	Effect type	Point estimate (95%CI)	P-value	Estimator	Heterogeneity P-value	Precision	No. variants
HbA1c (mmol/mol)	HDL-C & TG independent	-0.04 (-0.11; 0.03)	0.248	MR Egger	< 0.001	7.8×10 ²	223
T2DM (OR)	Total	1.03 (0.98; 1.08)	0.205	MR Egger	< 0.001	1.9×10 ³	105
T2DM (OR)	HDL-C independent	0.94 (0.92; 0.96)	< 0.001	IVW	< 0.001	7.7×10 ³	171
T2DM (OR)	TG independent	0.91 (0.88; 0.94)	< 0.001	IVW	< 0.001	4.6×10 ³	149
T2DM (OR)	HDL-C & TG independent	0.90 (0.88; 0.93)	< 0.001	IVW	< 0.001	4.4×10 ³	202
CRP (mg/L)	Total	-0.15 (-0.19; -0.11)	< 0.001	IVW	< 0.001	2.3×10 ³	93
CRP (mg/L)	HDL-C independent	-0.21 (-0.26; -0.16)	< 0.001	MR Egger	< 0.001	1.5×10 ³	173
CRP (mg/L)	TG independent	-0.15 (-0.21; -0.10)	< 0.001	MR Egger	< 0.001	1.2×10 ³	155
CRP (mg/L)	HDL-C & TG independent	-0.24 (-0.29; -0.19)	< 0.001	IVW	< 0.001	1.7×10 ³	210
SBP (mmHg)	Total	0.41 (0.29; 0.54)	< 0.001	IVW	< 0.001	2.4×10 ²	90
SBP (mmHg)	HDL-C independent	0.38 (0.26; 0.50)	< 0.001	IVW	< 0.001	2.6×10 ²	156
SBP (mmHg)	TG independent	0.22 (0.08; 0.37)	0.002	IVW	< 0.001	1.9×10 ²	140
SBP (mmHg)	HDL-C & TG independent	0.28 (0.13; 0.43)	< 0.001	IVW	< 0.001	1.8×10 ²	185
DBP (mmHg)	Total	-0.03 (-0.11; 0.04)	0.356	IVW	< 0.001	7.5×10 ²	91
DBP (mmHg)	HDL-C independent	-0.04 (-0.10; 0.03)	0.306	IVW	< 0.001	8.1×10 ²	156
DBP (mmHg)	TG independent	-0.11 (-0.19; -0.03)	0.007	IVW	< 0.001	5.8×10 ²	139
DBP (mmHg)	HDL-C & TG independent	-0.07 (-0.16; 0.01)	0.080	IVW	< 0.001	5.6×10 ²	187
PBL (OR)	Total	1.18 (0.96; 1.44)	0.108	IVW	0.084	9.5×10 ¹	51
PBL (OR)	HDL-C independent	1.18 (0.97; 1.43)	0.089	IVW	0.157	1.0×10 ²	91
PBL (OR)	TG independent	1.13 (0.81; 1.58)	0.467	MR Egger	0.023	3.4×10 ¹	81
PBL (OR)	HDL-C & TG independent	1.03 (0.78; 1.36)	0.814	MR Egger	0.041	5.0×10 ¹	113
BUN (mg/dl)	Total	-0.00 (-0.01; 0.00)	0.481	MR Egger	< 0.001	7.7×10 ⁴	110
BUN (mg/dl)	HDL-C independent	0.00 (-0.00; 0.01)	0.130	IVW	< 0.001	3.5×10 ⁵	181
BUN (mg/dl)	TG independent	0.00 (-0.00; 0.01)	0.340	MR Egger	< 0.001	1.4×10 ⁵	165
BUN (mg/dl)	HDL-C & TG independent	0.00 (-0.00; 0.01)	0.071	IVW	< 0.001	2.1×10 ⁵	219
eGFR (SD of log(eGFR))	Total	0.00 (0.00; 0.01)	0.026	MR Egger	< 0.001	5.6×10 ⁵	107
eGFR (SD of log(eGFR))	HDL-C independent	0.00 (-0.00; 0.00)	0.649	MR Egger	< 0.001	1.3×10 ⁶	183
eGFR (SD of log(eGFR))	TG independent	-0.00 (-0.00; 0.00)	0.151	IVW	< 0.001	1.6×10 ⁶	161
eGFR (SD of log(eGFR))	HDL-C & TG independent	-0.00 (-0.00; 0.00)	0.239	IVW	< 0.001	1.5×10 ⁶	214
CKD (OR)	Total	0.99 (0.95; 1.03)	0.614	IVW	0.058	2.8×10 ³	116
CKD (OR)	HDL-C independent	0.99 (0.95; 1.02)	0.434	IVW	0.027	3.5×10 ³	190
CKD (OR)	TG independent	1.00 (0.94; 1.05)	0.942	MR Egger	0.005	1.3×10 ³	171
CKD (OR)	HDL-C & TG independent	0.99 (0.95; 1.04)	0.720	IVW	< 0.001	2.1×10 ³	227
IBD (OR)	Total	1.15 (1.07; 1.22)	< 0.001	IVW	0.008	9.4×10 ²	117
IBD (OR)	HDL-C independent	1.15 (1.08; 1.22)	< 0.001	IVW	< 0.001	9.9×10 ²	196
IBD (OR)	TG independent	1.16 (1.05; 1.29)	0.003	MR Egger	< 0.001	3.7×10 ²	171
IBD (OR)	HDL-C & TG independent	1.13 (1.05; 1.23)	0.002	IVW	< 0.001	6.1×10 ²	232
UC (OR)	Total	1.37 (1.15; 1.63)	< 0.001	MR Egger	0.196	1.3×10 ²	117

Table S2: (Multivariable) Mendelian randomization effect estimates for one standard deviation change in LDL-C (*continued*)

Outcome	Effect type	Point estimate (95%CI)	P-value	Estimator	Heterogeneity P-value	Precision	No. variants
UC (OR)	HDL-C independent	1.24 (1.11; 1.38)	< 0.001	MR Egger	0.008	3.3×10 ²	196
UC (OR)	TG independent	1.15 (1.04; 1.27)	0.006	IVW	0.002	4.0×10 ²	176
UC (OR)	HDL-C & TG independent	1.17 (1.06; 1.30)	0.002	IVW	< 0.001	3.8×10 ²	233
CD (OR)	Total	1.10 (1.00; 1.20)	0.042	IVW	0.497	5.0×10 ²	117
CD (OR)	HDL-C independent	1.09 (1.00; 1.19)	0.054	IVW	0.395	5.2×10 ²	197
CD (OR)	TG independent	1.01 (0.87; 1.17)	0.928	MR Egger	0.051	1.8×10 ²	173
CD (OR)	HDL-C & TG independent	1.00 (0.89; 1.13)	0.967	IVW	0.056	2.8×10 ²	233
Arthritis (OR)	Total	0.93 (0.84; 1.03)	0.158	IVW	0.060	4.0×10 ²	91
Arthritis (OR)	HDL-C independent	0.95 (0.87; 1.04)	0.262	IVW	0.212	5.3×10 ²	157
Arthritis (OR)	TG independent	1.05 (0.90; 1.23)	0.520	MR Egger	0.181	1.6×10 ²	141
Arthritis (OR)	HDL-C & TG independent	0.97 (0.85; 1.11)	0.693	MR Egger	0.186	2.2×10 ²	185
ALS (OR)	Total	1.11 (1.04; 1.17)	< 0.001	IVW	0.612	1.1×10 ³	119
ALS (OR)	HDL-C independent	1.09 (1.03; 1.15)	0.002	IVW	0.487	1.3×10 ³	200
ALS (OR)	TG independent	1.03 (0.94; 1.13)	0.547	MR Egger	0.292	4.5×10 ²	175
ALS (OR)	HDL-C & TG independent	1.05 (0.97; 1.13)	0.196	IVW	0.210	6.8×10 ²	231
MS (OR)	Total	1.07 (0.92; 1.24)	0.381	IVW	0.106	1.8×10 ²	19
MS (OR)	HDL-C independent	0.86 (0.71; 1.04)	0.119	MR Egger	0.008	1.0×10 ²	32
MS (OR)	TG independent	1.11 (0.94; 1.31)	0.209	IVW	0.115	1.5×10 ²	33
MS (OR)	HDL-C & TG independent	0.92 (0.77; 1.10)	0.366	MR Egger	0.004	1.2×10 ²	39
Alzheimer (OR)	Total	1.01 (0.99; 1.03)	0.484	MR Egger	< 0.001	8.6×10 ³	82
Alzheimer (OR)	HDL-C independent	1.05 (1.04; 1.07)	< 0.001	MR Egger	< 0.001	1.8×10 ⁴	156
Alzheimer (OR)	TG independent	1.05 (1.03; 1.06)	< 0.001	IVW	< 0.001	2.2×10 ⁴	135
Alzheimer (OR)	HDL-C & TG independent	1.05 (1.04; 1.07)	< 0.001	MR Egger	< 0.001	1.9×10 ⁴	198
Parkinson (OR)	Total	0.93 (0.81; 1.07)	0.315	MR Egger	0.216	1.9×10 ²	117
Parkinson (OR)	HDL-C independent	0.93 (0.87; 1.00)	0.050	IVW	0.082	7.9×10 ²	189
Parkinson (OR)	TG independent	0.94 (0.86; 1.02)	0.133	IVW	0.002	5.6×10 ²	174
Parkinson (OR)	HDL-C & TG independent	0.93 (0.85; 1.01)	0.096	IVW	< 0.001	5.3×10 ²	230
Pancreatic cancer (OR)	Total	1.20 (0.99; 1.46)	0.066	IVW	0.002	1.0×10 ²	117
Pancreatic cancer (OR)	HDL-C independent	1.11 (0.91; 1.34)	0.305	IVW	0.003	1.0×10 ²	192
Pancreatic cancer (OR)	TG independent	1.34 (1.06; 1.69)	0.014	IVW	0.021	7.1×10 ¹	177
Pancreatic cancer (OR)	HDL-C & TG independent	1.14 (0.90; 1.45)	0.269	IVW	< 0.001	6.8×10 ¹	233
Colon cancer (OR)	Total	0.95 (0.79; 1.13)	0.548	MR Egger	0.087	1.2×10 ²	118
Colon cancer (OR)	HDL-C independent	0.99 (0.89; 1.11)	0.890	MR Egger	< 0.001	3.2×10 ²	198
Colon cancer (OR)	TG independent	1.03 (0.93; 1.14)	0.580	IVW	< 0.001	3.9×10 ²	177
Colon cancer (OR)	HDL-C & TG independent	1.02 (0.92; 1.12)	0.754	IVW	< 0.001	3.9×10 ²	236
Rectal cancer (OR)	Total	1.21 (1.08; 1.35)	< 0.001	IVW	0.833	3.1×10 ²	116
Rectal cancer (OR)	HDL-C independent	1.17 (1.05; 1.30)	0.005	IVW	0.500	3.3×10 ²	193
Rectal cancer (OR)	TG independent	1.20 (1.05; 1.37)	0.009	IVW	0.840	2.1×10 ²	176

Table S2: (Multivariable) Mendelian randomization effect estimates for one standard deviation change in LDL-C (*continued*)

Outcome	Effect type	Point estimate (95%CI)	P-value	Estimator	Heterogeneity P-value	Precision	No. variants
Rectal cancer (OR)	HDL-C & TG independent	1.28 (1.12; 1.47)	< 0.001	IVW	0.586	2.1×10 ²	231
Melanoma (OR)	Total	0.92 (0.86; 0.99)	0.018	IVW	0.171	8.6×10 ²	117
Melanoma (OR)	HDL-C independent	0.93 (0.87; 0.99)	0.024	IVW	0.014	9.9×10 ²	191
Melanoma (OR)	TG independent	0.90 (0.84; 0.97)	0.008	IVW	0.024	6.6×10 ²	176
Melanoma (OR)	HDL-C & TG independent	0.90 (0.83; 0.97)	0.008	IVW	< 0.001	6.5×10 ²	231
Lung cancer (OR)	Total	0.76 (0.69; 0.84)	< 0.001	IVW	0.045	3.6×10 ²	116
Lung cancer (OR)	HDL-C independent	0.78 (0.70; 0.86)	< 0.001	IVW	0.017	3.8×10 ²	194
Lung cancer (OR)	TG independent	0.77 (0.68; 0.88)	< 0.001	IVW	0.061	2.2×10 ²	177
Lung cancer (OR)	HDL-C & TG independent	0.77 (0.68; 0.87)	< 0.001	IVW	0.022	2.5×10 ²	235

Table S3: (Multivariable) Mendelian randomization effect estimates for one standard deviation change in HDL-C

Outcome	Effect type	Point estimate (95%CI)	P-value	Estimator	Heterogeneity P-value	Precision	No. variants
CHD (OR)	Total	0.75 (0.70; 0.80)	< 0.001	IVW	< 0.001	8.1×10 ²	26
CHD (OR)	LDL-C independent	0.78 (0.73; 0.83)	< 0.001	IVW	< 0.001	9.4×10 ²	50
CHD (OR)	TG independent	0.84 (0.78; 0.91)	< 0.001	IVW	< 0.001	5.7×10 ²	37
CHD (OR)	TG & LDL-C independent	0.76 (0.70; 0.84)	< 0.001	IVW	< 0.001	4.4×10 ²	57
HF (OR)	Total	0.97 (0.94; 1.01)	0.165	IVW	< 0.001	2.9×10 ³	81
HF (OR)	LDL-C independent	0.98 (0.95; 1.02)	0.272	IVW	< 0.001	3.2×10 ³	185
HF (OR)	TG independent	1.01 (0.97; 1.05)	0.682	IVW	< 0.001	2.1×10 ³	129
HF (OR)	TG & LDL-C independent	1.01 (0.96; 1.05)	0.786	IVW	< 0.001	2.0×10 ³	216
AF (OR)	Total	0.99 (0.96; 1.02)	0.490	IVW	0.251	3.7×10 ³	86
AF (OR)	LDL-C independent	0.99 (0.96; 1.02)	0.509	IVW	0.067	3.8×10 ³	202
AF (OR)	TG independent	1.01 (0.97; 1.05)	0.579	IVW	0.008	2.8×10 ³	139
AF (OR)	TG & LDL-C independent	1.01 (0.98; 1.05)	0.440	IVW	< 0.001	2.9×10 ³	238
Any stroke (OR)	Total	0.91 (0.83; 0.99)	0.036	MR Egger	0.002	4.5×10 ²	85
Any stroke (OR)	LDL-C independent	0.98 (0.94; 1.02)	0.429	IVW	< 0.001	2.3×10 ³	192
Any stroke (OR)	TG independent	0.98 (0.94; 1.03)	0.535	IVW	0.029	1.6×10 ³	138
Any stroke (OR)	TG & LDL-C independent	0.98 (0.93; 1.03)	0.426	IVW	< 0.001	1.5×10 ³	228
Any ischemic stroke (OR)	Total	0.91 (0.83; 1.01)	0.067	MR Egger	< 0.001	3.9×10 ²	85
Any ischemic stroke (OR)	LDL-C independent	0.99 (0.95; 1.04)	0.753	IVW	< 0.001	2.0×10 ³	189
Any ischemic stroke (OR)	TG independent	1.00 (0.94; 1.06)	0.967	IVW	0.058	1.1×10 ³	137
Any ischemic stroke (OR)	TG & LDL-C independent	0.98 (0.93; 1.04)	0.483	IVW	0.010	1.2×10 ³	226
Large artery stroke (OR)	Total	1.01 (0.89; 1.15)	0.856	IVW	0.052	2.2×10 ²	85
Large artery stroke (OR)	LDL-C independent	0.98 (0.88; 1.10)	0.752	IVW	< 0.001	3.1×10 ²	192
Large artery stroke (OR)	TG independent	1.04 (0.90; 1.21)	0.580	IVW	0.068	1.8×10 ²	140

Table S3: (Multivariable) Mendelian randomization effect estimates for one standard deviation change in HDL-C (*continued*)

Outcome	Effect type	Point estimate (95%CI)	P-value	Estimator	Heterogeneity P-value	Precision	No. variants
Large artery stroke (OR)	TG & LDL-C independent	1.03 (0.90; 1.18)	0.679	IVW	< 0.001	2.0×10 ²	229
Cardioembolic stroke (OR)	Total	1.00 (0.91; 1.10)	0.986	IVW	0.424	4.5×10 ²	85
Cardioembolic stroke (OR)	LDL-C independent	1.00 (0.91; 1.09)	0.930	IVW	0.039	5.1×10 ²	191
Cardioembolic stroke (OR)	TG independent	1.00 (0.90; 1.11)	0.961	IVW	0.509	3.5×10 ²	139
Cardioembolic stroke (OR)	TG & LDL-C independent	0.98 (0.88; 1.09)	0.722	IVW	0.041	3.5×10 ²	228
Small vessel stroke (OR)	Total	0.93 (0.73; 1.18)	0.533	MR Egger	0.302	6.5×10 ¹	84
Small vessel stroke (OR)	LDL-C independent	0.96 (0.83; 1.11)	0.581	MR Egger	0.017	1.9×10 ²	195
Small vessel stroke (OR)	TG independent	0.99 (0.88; 1.12)	0.886	IVW	0.046	2.5×10 ²	138
Small vessel stroke (OR)	TG & LDL-C independent	0.95 (0.81; 1.11)	0.506	MR Egger	0.011	1.6×10 ²	232
cIMT (mm)	Total	0.00 (-0.00; 0.00)	0.781	IVW	0.006	3.5×10 ⁵	84
cIMT (mm)	LDL-C independent	-0.00 (-0.00; 0.00)	0.696	IVW	< 0.001	3.9×10 ⁵	196
cIMT (mm)	TG independent	-0.00 (-0.00; 0.00)	0.859	IVW	< 0.001	2.6×10 ⁵	138
cIMT (mm)	TG & LDL-C independent	-0.00 (-0.01; 0.00)	0.319	MR Egger	< 0.001	1.7×10 ⁵	232
Carotid plaque (OR)	Total	0.87 (0.73; 1.04)	0.130	MR Egger	0.039	1.2×10 ²	83
Carotid plaque (OR)	LDL-C independent	0.87 (0.80; 0.94)	< 0.001	IVW	< 0.001	6.8×10 ²	188
Carotid plaque (OR)	TG independent	0.99 (0.90; 1.09)	0.836	IVW	0.006	4.1×10 ²	132
Carotid plaque (OR)	TG & LDL-C independent	0.88 (0.80; 0.97)	0.008	IVW	0.004	4.3×10 ²	222
Glucose (mmol/l)	Total	-0.09 (-0.12; -0.05)	< 0.001	MR Egger	0.115	4.0×10 ³	79
Glucose (mmol/l)	LDL-C independent	-0.01 (-0.02; 0.01)	0.291	IVW	< 0.001	2.2×10 ⁴	191
Glucose (mmol/l)	TG independent	-0.05 (-0.07; -0.03)	< 0.001	MR Egger	< 0.001	8.4×10 ³	131
Glucose (mmol/l)	TG & LDL-C independent	-0.03 (-0.05; -0.01)	0.003	MR Egger	< 0.001	1.2×10 ⁴	229
HbA1c (mmol/mol)	Total	-0.03 (-0.10; 0.04)	0.352	IVW	0.008	7.8×10 ²	76
HbA1c (mmol/mol)	LDL-C independent	-0.03 (-0.09; 0.04)	0.439	IVW	< 0.001	8.6×10 ²	187
HbA1c (mmol/mol)	TG independent	-0.33 (-0.44; -0.22)	< 0.001	MR Egger	< 0.001	3.3×10 ²	127
HbA1c (mmol/mol)	TG & LDL-C independent	-0.05 (-0.13; 0.04)	0.279	IVW	< 0.001	5.7×10 ²	220
T2DM (OR)	Total	0.97 (0.94; 1.00)	0.087	IVW	< 0.001	4.2×10 ³	71
T2DM (OR)	LDL-C independent	0.95 (0.91; 0.99)	0.007	MR Egger	< 0.001	2.6×10 ³	171
T2DM (OR)	TG independent	0.96 (0.93; 0.99)	0.016	IVW	< 0.001	3.3×10 ³	118
T2DM (OR)	TG & LDL-C independent	0.97 (0.93; 1.01)	0.165	MR Egger	< 0.001	2.2×10 ³	204
CRP (mg/L)	Total	0.07 (0.02; 0.12)	0.003	IVW	0.002	1.7×10 ³	78
CRP (mg/L)	LDL-C independent	0.08 (0.03; 0.13)	< 0.001	IVW	< 0.001	1.9×10 ³	174
CRP (mg/L)	TG independent	0.13 (0.07; 0.19)	< 0.001	IVW	< 0.001	1.2×10 ³	124
CRP (mg/L)	TG & LDL-C independent	0.20 (0.14; 0.26)	< 0.001	IVW	< 0.001	1.2×10 ³	210
SBP (mmHg)	Total	-0.44 (-0.58; -0.29)	< 0.001	IVW	< 0.001	1.8×10 ²	70
SBP (mmHg)	LDL-C independent	-0.40 (-0.58; -0.21)	< 0.001	MR Egger	< 0.001	1.1×10 ²	159
SBP (mmHg)	TG independent	-0.25 (-0.42; -0.07)	0.006	IVW	< 0.001	1.2×10 ²	112
SBP (mmHg)	TG & LDL-C independent	-0.24 (-0.42; -0.05)	0.011	MR Egger	< 0.001	1.1×10 ²	190
DBP (mmHg)	Total	-0.24 (-0.33; -0.15)	< 0.001	IVW	0.054	4.4×10 ²	70

Table S3: (Multivariable) Mendelian randomization effect estimates for one standard deviation change in HDL-C (*continued*)

Outcome	Effect type	Point estimate (95%CI)	P-value	Estimator	Heterogeneity P-value	Precision	No. variants
DBP (mmHg)	LDL-C independent	-0.15 (-0.23; -0.07)	< 0.001	IVW	< 0.001	5.9×10 ²	156
DBP (mmHg)	TG independent	-0.24 (-0.34; -0.13)	< 0.001	IVW	< 0.001	3.7×10 ²	111
DBP (mmHg)	TG & LDL-C independent	-0.16 (-0.26; -0.05)	0.004	MR Egger	< 0.001	3.4×10 ²	189
PBL (OR)	Total	1.03 (0.59; 1.80)	0.910	MR Egger	0.661	1.2×10 ¹	44
PBL (OR)	LDL-C independent	1.15 (0.92; 1.44)	0.212	IVW	0.157	7.9×10 ¹	91
PBL (OR)	TG independent	1.34 (1.03; 1.75)	0.029	IVW	0.007	5.5×10 ¹	70
PBL (OR)	TG & LDL-C independent	1.51 (1.10; 2.08)	0.011	MR Egger	0.015	3.8×10 ¹	112
BUN (mg/dl)	Total	-0.00 (-0.01; 0.00)	0.182	IVW	0.293	1.9×10 ⁵	76
BUN (mg/dl)	LDL-C independent	-0.00 (-0.01; 0.00)	0.150	IVW	< 0.001	2.2×10 ⁵	181
BUN (mg/dl)	TG independent	-0.01 (-0.01; -0.00)	0.009	IVW	0.003	1.9×10 ⁵	131
BUN (mg/dl)	TG & LDL-C independent	-0.01 (-0.01; -0.00)	0.031	IVW	< 0.001	1.6×10 ⁵	219
eGFR (SD of log(eGFR))	Total	0.00 (-0.00; 0.00)	0.828	IVW	< 0.001	1.4×10 ⁶	78
eGFR (SD of log(eGFR))	LDL-C independent	0.00 (-0.00; 0.00)	0.542	IVW	< 0.001	1.5×10 ⁶	183
eGFR (SD of log(eGFR))	TG independent	0.00 (-0.00; 0.00)	0.909	IVW	< 0.001	8.6×10 ⁵	124
eGFR (SD of log(eGFR))	TG & LDL-C independent	-0.00 (-0.00; 0.00)	0.521	IVW	< 0.001	9.4×10 ⁵	214
CKD (OR)	Total	0.99 (0.95; 1.04)	0.816	IVW	0.118	1.6×10 ³	80
CKD (OR)	LDL-C independent	1.00 (0.96; 1.04)	0.984	IVW	0.027	2.2×10 ³	190
CKD (OR)	TG independent	0.98 (0.93; 1.03)	0.407	IVW	< 0.001	1.4×10 ³	134
CKD (OR)	TG & LDL-C independent	0.98 (0.93; 1.03)	0.397	IVW	< 0.001	1.4×10 ³	227
IBD (OR)	Total	1.03 (0.94; 1.12)	0.561	IVW	0.095	5.2×10 ²	84
IBD (OR)	LDL-C independent	1.01 (0.94; 1.09)	0.742	IVW	< 0.001	7.0×10 ²	196
IBD (OR)	TG independent	1.03 (0.93; 1.13)	0.601	IVW	0.004	4.4×10 ²	136
IBD (OR)	TG & LDL-C independent	1.06 (0.95; 1.18)	0.277	MR Egger	< 0.001	3.3×10 ²	233
UC (OR)	Total	1.06 (0.96; 1.16)	0.273	IVW	0.023	4.0×10 ²	85
UC (OR)	LDL-C independent	1.04 (0.94; 1.14)	0.458	IVW	0.005	4.5×10 ²	197
UC (OR)	TG independent	1.02 (0.91; 1.14)	0.769	IVW	0.007	2.8×10 ²	138
UC (OR)	TG & LDL-C independent	1.07 (0.93; 1.22)	0.338	MR Egger	0.006	2.1×10 ²	234
CD (OR)	Total	0.99 (0.89; 1.10)	0.842	IVW	0.595	3.3×10 ²	84
CD (OR)	LDL-C independent	1.00 (0.90; 1.10)	0.957	IVW	0.395	3.6×10 ²	197
CD (OR)	TG independent	1.06 (0.92; 1.21)	0.443	IVW	0.096	2.0×10 ²	137
CD (OR)	TG & LDL-C independent	1.07 (0.94; 1.23)	0.311	IVW	0.056	2.1×10 ²	233
Arthritis (OR)	Total	0.98 (0.88; 1.10)	0.733	IVW	0.666	3.2×10 ²	66
Arthritis (OR)	LDL-C independent	0.98 (0.88; 1.09)	0.682	IVW	0.212	3.3×10 ²	157
Arthritis (OR)	TG independent	1.05 (0.92; 1.19)	0.449	IVW	0.395	2.3×10 ²	108
Arthritis (OR)	TG & LDL-C independent	1.06 (0.92; 1.22)	0.397	IVW	0.143	2.0×10 ²	187
ALS (OR)	Total	1.05 (0.97; 1.14)	0.192	IVW	0.465	6.1×10 ²	84
ALS (OR)	LDL-C independent	1.04 (0.96; 1.12)	0.355	IVW	0.487	6.8×10 ²	200
ALS (OR)	TG independent	1.08 (0.97; 1.19)	0.156	IVW	0.053	3.7×10 ²	135

Table S3: (Multivariable) Mendelian randomization effect estimates for one standard deviation change in HDL-C (*continued*)

Outcome	Effect type	Point estimate (95%CI)	P-value	Estimator	Heterogeneity P-value	Precision	No. variants
ALS (OR)	TG & LDL-C independent	1.07 (0.98; 1.18)	0.143	IVW	0.210	4.2×10 ²	231
MS (OR)	Total	1.06 (0.93; 1.21)	0.346	IVW	0.013	2.2×10 ²	15
MS (OR)	LDL-C independent	1.07 (0.94; 1.22)	0.292	IVW	0.006	2.4×10 ²	33
MS (OR)	TG independent	1.08 (0.91; 1.28)	0.351	IVW	0.020	1.3×10 ²	24
MS (OR)	TG & LDL-C independent	0.97 (0.77; 1.21)	0.762	MR Egger	0.002	7.6×10 ¹	40
Alzheimer (OR)	Total	0.98 (0.97; 0.99)	< 0.001	IVW	0.151	2.9×10 ⁴	82
Alzheimer (OR)	LDL-C independent	0.98 (0.97; 0.99)	< 0.001	IVW	< 0.001	3.4×10 ⁴	159
Alzheimer (OR)	TG independent	0.98 (0.97; 1.00)	0.013	IVW	0.003	2.1×10 ⁴	130
Alzheimer (OR)	TG & LDL-C independent	0.97 (0.96; 0.98)	< 0.001	IVW	< 0.001	2.0×10 ⁴	195
Parkinson (OR)	Total	0.94 (0.86; 1.04)	0.225	IVW	0.351	4.6×10 ²	79
Parkinson (OR)	LDL-C independent	0.96 (0.87; 1.05)	0.345	IVW	0.082	4.5×10 ²	189
Parkinson (OR)	TG independent	0.95 (0.85; 1.05)	0.286	IVW	0.008	3.7×10 ²	136
Parkinson (OR)	TG & LDL-C independent	0.95 (0.86; 1.05)	0.314	IVW	< 0.001	3.8×10 ²	230
Pancreatic cancer (OR)	Total	1.19 (0.92; 1.55)	0.178	IVW	0.030	5.7×10 ¹	82
Pancreatic cancer (OR)	LDL-C independent	1.26 (0.98; 1.61)	0.069	IVW	0.003	6.3×10 ¹	192
Pancreatic cancer (OR)	TG independent	1.18 (0.87; 1.60)	0.296	IVW	0.017	4.1×10 ¹	136
Pancreatic cancer (OR)	TG & LDL-C independent	1.25 (0.93; 1.69)	0.138	IVW	< 0.001	4.3×10 ¹	233
Colon cancer (OR)	Total	1.07 (0.96; 1.19)	0.205	IVW	0.047	3.3×10 ²	83
Colon cancer (OR)	LDL-C independent	1.05 (0.95; 1.16)	0.342	IVW	< 0.001	3.7×10 ²	195
Colon cancer (OR)	TG independent	1.13 (0.99; 1.28)	0.061	IVW	< 0.001	2.4×10 ²	137
Colon cancer (OR)	TG & LDL-C independent	1.10 (0.98; 1.25)	0.118	IVW	< 0.001	2.6×10 ²	236
Rectal cancer (OR)	Total	0.92 (0.79; 1.07)	0.262	IVW	0.353	1.7×10 ²	80
Rectal cancer (OR)	LDL-C independent	0.91 (0.79; 1.04)	0.177	IVW	0.500	2.0×10 ²	193
Rectal cancer (OR)	TG independent	0.96 (0.81; 1.15)	0.679	IVW	0.356	1.2×10 ²	134
Rectal cancer (OR)	TG & LDL-C independent	0.85 (0.72; 1.01)	0.070	IVW	0.586	1.3×10 ²	231
Melanoma (OR)	Total	0.98 (0.90; 1.07)	0.678	IVW	0.008	5.5×10 ²	79
Melanoma (OR)	LDL-C independent	0.99 (0.92; 1.07)	0.866	IVW	0.014	6.2×10 ²	191
Melanoma (OR)	TG independent	1.03 (0.93; 1.13)	0.600	IVW	< 0.001	4.1×10 ²	134
Melanoma (OR)	TG & LDL-C independent	1.03 (0.93; 1.13)	0.590	IVW	< 0.001	4.2×10 ²	231
Lung cancer (OR)	Total	0.99 (0.85; 1.14)	0.861	IVW	0.126	1.9×10 ²	83
Lung cancer (OR)	LDL-C independent	1.01 (0.89; 1.15)	0.857	IVW	0.017	2.4×10 ²	194
Lung cancer (OR)	TG independent	0.92 (0.78; 1.09)	0.331	IVW	0.173	1.4×10 ²	137
Lung cancer (OR)	TG & LDL-C independent	1.00 (0.86; 1.16)	0.972	IVW	0.022	1.7×10 ²	235

Table S4: (Multivariable) Mendelian randomization effect estimates for one standard deviation change in TG

Outcome	Effect type	Point estimate (95%CI)	P-value	Estimator	Heterogeneity P-value	Precision	No. variants
CHD (OR)	Total	1.78 (1.65; 1.92)	< 0.001	IVW	< 0.001	6.5×10 ²	23
CHD (OR)	LDL-C independent	1.35 (1.18; 1.55)	< 0.001	MR Egger	< 0.001	2.0×10 ²	46
CHD (OR)	HDL-C independent	1.39 (1.27; 1.52)	< 0.001	IVW	< 0.001	4.6×10 ²	37
CHD (OR)	LDL-C & HDL-C & TG independent	1.15 (1.04; 1.28)	0.007	IVW	< 0.001	3.5×10 ²	57
HF (OR)	Total	1.12 (1.08; 1.17)	< 0.001	IVW	< 0.001	2.2×10 ³	71
HF (OR)	LDL-C independent	1.09 (1.04; 1.14)	< 0.001	IVW	< 0.001	1.9×10 ³	166
HF (OR)	HDL-C independent	1.09 (1.04; 1.14)	< 0.001	IVW	< 0.001	1.8×10 ³	129
HF (OR)	LDL-C & HDL-C & TG independent	1.06 (1.00; 1.12)	0.040	IVW	< 0.001	1.3×10 ³	216
AF (OR)	Total	1.16 (1.06; 1.27)	< 0.001	MR Egger	0.009	4.8×10 ²	76
AF (OR)	LDL-C independent	1.01 (0.98; 1.05)	0.466	IVW	< 0.001	2.8×10 ³	181
AF (OR)	HDL-C independent	1.02 (0.98; 1.06)	0.353	IVW	0.008	2.7×10 ³	139
AF (OR)	LDL-C & HDL-C & TG independent	1.02 (0.97; 1.06)	0.443	IVW	< 0.001	2.0×10 ³	238
Any stroke (OR)	Total	1.05 (1.00; 1.10)	0.067	IVW	0.431	1.6×10 ³	77
Any stroke (OR)	LDL-C independent	1.00 (0.95; 1.06)	0.891	IVW	< 0.001	1.4×10 ³	172
Any stroke (OR)	HDL-C independent	0.98 (0.93; 1.03)	0.415	IVW	0.029	1.3×10 ³	138
Any stroke (OR)	LDL-C & HDL-C & TG independent	0.95 (0.90; 1.02)	0.144	IVW	< 0.001	9.9×10 ²	228
Any ischemic stroke (OR)	Total	1.04 (0.99; 1.10)	0.117	IVW	0.636	1.4×10 ³	77
Any ischemic stroke (OR)	LDL-C independent	1.00 (0.94; 1.07)	0.912	IVW	0.075	1.0×10 ³	170
Any ischemic stroke (OR)	HDL-C independent	0.98 (0.92; 1.05)	0.545	IVW	0.058	8.9×10 ²	137
Any ischemic stroke (OR)	LDL-C & HDL-C & TG independent	0.94 (0.88; 1.01)	0.080	IVW	0.010	8.4×10 ²	226
Large artery stroke (OR)	Total	1.06 (0.92; 1.23)	0.411	IVW	0.054	1.8×10 ²	78
Large artery stroke (OR)	LDL-C independent	0.86 (0.70; 1.06)	0.153	MR Egger	< 0.001	9.2×10 ¹	170
Large artery stroke (OR)	HDL-C independent	1.04 (0.88; 1.21)	0.668	IVW	0.068	1.5×10 ²	140
Large artery stroke (OR)	LDL-C & HDL-C & TG independent	1.04 (0.88; 1.23)	0.623	IVW	< 0.001	1.4×10 ²	229
Cardioembolic stroke (OR)	Total	1.04 (0.94; 1.15)	0.477	IVW	0.701	3.7×10 ²	77
Cardioembolic stroke (OR)	LDL-C independent	1.06 (0.94; 1.19)	0.371	IVW	0.062	2.7×10 ²	172
Cardioembolic stroke (OR)	HDL-C independent	1.03 (0.92; 1.15)	0.656	IVW	0.509	3.0×10 ²	139
Cardioembolic stroke (OR)	LDL-C & HDL-C & TG independent	1.00 (0.88; 1.13)	0.960	IVW	0.041	2.3×10 ²	228
Small vessel stroke (OR)	Total	1.09 (0.77; 1.54)	0.640	MR Egger	0.108	3.1×10 ¹	75
Small vessel stroke (OR)	LDL-C independent	0.96 (0.79; 1.16)	0.651	MR Egger	0.007	1.1×10 ²	173
Small vessel stroke (OR)	HDL-C independent	1.00 (0.87; 1.14)	0.985	IVW	0.046	2.1×10 ²	138
Small vessel stroke (OR)	LDL-C & HDL-C & TG independent	0.98 (0.84; 1.14)	0.789	IVW	0.007	1.7×10 ²	232
cIMT (mm)	Total	0.00 (-0.00; 0.01)	0.336	IVW	0.025	2.9×10 ⁵	77
cIMT (mm)	LDL-C independent	-0.01 (-0.02; -0.00)	< 0.001	MR Egger	< 0.001	1.2×10 ⁵	174
cIMT (mm)	HDL-C independent	0.00 (-0.00; 0.01)	0.400	IVW	< 0.001	2.3×10 ⁵	138
cIMT (mm)	LDL-C & HDL-C & TG independent	-0.01 (-0.01; -0.00)	< 0.001	IVW	< 0.001	1.8×10 ⁵	233
Carotid plaque (OR)	Total	1.27 (1.16; 1.39)	< 0.001	IVW	0.043	4.6×10 ²	71
Carotid plaque (OR)	LDL-C independent	0.98 (0.85; 1.14)	0.827	MR Egger	0.012	1.7×10 ²	163

Table S4: (Multivariable) Mendelian randomization effect estimates for one standard deviation change in TG (*continued*)

Outcome	Effect type	Point estimate (95%CI)	P-value	Estimator	Heterogeneity P-value	Precision	No. variants
Carotid plaque (OR)	HDL-C independent	1.18 (1.07; 1.31)	< 0.001	IVW	0.006	3.6×10 ²	132
Carotid plaque (OR)	LDL-C & HDL-C & TG independent	0.91 (0.81; 1.03)	0.125	IVW	0.004	2.9×10 ²	222
Glucose (mmol/l)	Total	0.01 (-0.03; 0.04)	0.702	MR Egger	< 0.001	2.8×10 ³	73
Glucose (mmol/l)	LDL-C independent	0.03 (0.01; 0.05)	0.009	MR Egger	< 0.001	8.7×10 ³	174
Glucose (mmol/l)	HDL-C independent	-0.02 (-0.03; 0.00)	0.077	IVW	< 0.001	1.3×10 ⁴	128
Glucose (mmol/l)	LDL-C & HDL-C & TG independent	0.00 (-0.02; 0.02)	0.961	IVW	< 0.001	1.1×10 ⁴	225
HbA1c (mmol/mol)	Total	-0.19 (-0.27; -0.11)	< 0.001	IVW	< 0.001	6.3×10 ²	71
HbA1c (mmol/mol)	LDL-C independent	0.01 (-0.10; 0.11)	0.915	MR Egger	< 0.001	3.2×10 ²	170
HbA1c (mmol/mol)	HDL-C independent	-0.25 (-0.34; -0.16)	< 0.001	IVW	< 0.001	4.8×10 ²	125
HbA1c (mmol/mol)	LDL-C & HDL-C & TG independent	-0.15 (-0.25; -0.06)	0.002	IVW	< 0.001	4.1×10 ²	220
T2DM (OR)	Total	1.02 (0.98; 1.06)	0.313	IVW	< 0.001	3.0×10 ³	61
T2DM (OR)	LDL-C independent	1.13 (1.07; 1.19)	< 0.001	MR Egger	< 0.001	1.4×10 ³	145
T2DM (OR)	HDL-C independent	0.98 (0.94; 1.01)	0.221	IVW	< 0.001	2.5×10 ³	118
T2DM (OR)	LDL-C & HDL-C & TG independent	1.07 (1.03; 1.12)	0.002	IVW	< 0.001	1.9×10 ³	202
CRP (mg/L)	Total	0.15 (0.02; 0.28)	0.025	MR Egger	0.002	2.3×10 ²	69
CRP (mg/L)	LDL-C independent	0.17 (0.11; 0.23)	< 0.001	IVW	< 0.001	1.1×10 ³	154
CRP (mg/L)	HDL-C independent	0.14 (0.08; 0.20)	< 0.001	IVW	< 0.001	1.0×10 ³	124
CRP (mg/L)	LDL-C & HDL-C & TG independent	0.32 (0.25; 0.38)	< 0.001	IVW	< 0.001	8.3×10 ²	210
SBP (mmHg)	Total	0.66 (0.50; 0.82)	< 0.001	IVW	0.006	1.4×10 ²	63
SBP (mmHg)	LDL-C independent	0.47 (0.29; 0.66)	< 0.001	IVW	< 0.001	1.1×10 ²	140
SBP (mmHg)	HDL-C independent	0.42 (0.23; 0.61)	< 0.001	IVW	< 0.001	1.0×10 ²	112
SBP (mmHg)	LDL-C & HDL-C & TG independent	0.30 (0.08; 0.53)	0.007	IVW	< 0.001	7.8×10 ¹	185
DBP (mmHg)	Total	0.14 (0.05; 0.24)	0.003	IVW	< 0.001	4.3×10 ²	62
DBP (mmHg)	LDL-C independent	0.27 (0.13; 0.42)	< 0.001	MR Egger	< 0.001	1.8×10 ²	138
DBP (mmHg)	HDL-C independent	-0.02 (-0.13; 0.09)	0.729	IVW	< 0.001	3.0×10 ²	111
DBP (mmHg)	LDL-C & HDL-C & TG independent	0.10 (-0.03; 0.22)	0.139	IVW	< 0.001	2.4×10 ²	187
PBL (OR)	Total	1.34 (0.37; 4.80)	0.653	MR Egger	0.011	2.4	37
PBL (OR)	LDL-C independent	1.62 (1.25; 2.09)	< 0.001	IVW	0.003	5.9×10 ¹	84
PBL (OR)	HDL-C independent	1.84 (1.21; 2.80)	0.004	MR Egger	0.041	2.2×10 ¹	71
PBL (OR)	LDL-C & HDL-C & TG independent	2.04 (1.40; 2.99)	< 0.001	MR Egger	0.016	2.6×10 ¹	112
BUN (mg/dl)	Total	-0.00 (-0.01; 0.00)	0.333	IVW	0.003	1.7×10 ⁵	73
BUN (mg/dl)	LDL-C independent	-0.00 (-0.01; 0.00)	0.311	IVW	< 0.001	1.5×10 ⁵	167
BUN (mg/dl)	HDL-C independent	-0.01 (-0.01; -0.00)	0.035	IVW	0.003	1.3×10 ⁵	131
BUN (mg/dl)	LDL-C & HDL-C & TG independent	-0.01 (-0.01; 0.00)	0.056	IVW	< 0.001	1.0×10 ⁵	219
eGFR (SD of log(eGFR))	Total	0.00 (0.00; 0.00)	0.011	IVW	< 0.001	1.1×10 ⁶	69
eGFR (SD of log(eGFR))	LDL-C independent	0.00 (0.00; 0.01)	0.004	MR Egger	< 0.001	5.1×10 ⁵	159
eGFR (SD of log(eGFR))	HDL-C independent	0.00 (0.00; 0.00)	0.029	IVW	< 0.001	7.9×10 ⁵	124
eGFR (SD of log(eGFR))	LDL-C & HDL-C & TG independent	0.00 (-0.00; 0.00)	0.067	IVW	< 0.001	6.4×10 ⁵	214

Table S4: (Multivariable) Mendelian randomization effect estimates for one standard deviation change in TG (*continued*)

Outcome	Effect type	Point estimate (95%CI)	P-value	Estimator	Heterogeneity P-value	Precision	No. variants
CKD (OR)	Total	0.95 (0.91; 1.00)	0.032	IVW	0.002	1.7×10^3	77
CKD (OR)	LDL-C independent	0.95 (0.88; 1.02)	0.187	MR Egger	0.004	7.0×10^2	172
CKD (OR)	HDL-C independent	0.95 (0.90; 1.01)	0.106	IVW	< 0.001	1.2×10^3	134
CKD (OR)	LDL-C & HDL-C & TG independent	0.96 (0.90; 1.02)	0.216	IVW	< 0.001	9.5×10^2	227
IBD (OR)	Total	1.14 (0.91; 1.43)	0.240	MR Egger	0.036	7.8×10^1	75
IBD (OR)	LDL-C independent	0.99 (0.90; 1.08)	0.773	IVW	< 0.001	4.5×10^2	175
IBD (OR)	HDL-C independent	1.00 (0.91; 1.11)	0.961	IVW	0.004	4.0×10^2	136
IBD (OR)	LDL-C & HDL-C & TG independent	0.96 (0.86; 1.07)	0.476	IVW	< 0.001	3.2×10^2	232
UC (OR)	Total	0.96 (0.86; 1.07)	0.481	IVW	0.024	3.3×10^2	78
UC (OR)	LDL-C independent	0.93 (0.83; 1.04)	0.193	IVW	0.002	2.9×10^2	176
UC (OR)	HDL-C independent	0.95 (0.84; 1.07)	0.383	IVW	0.007	2.6×10^2	138
UC (OR)	LDL-C & HDL-C & TG independent	0.89 (0.78; 1.02)	0.099	IVW	< 0.001	2.0×10^2	233
CD (OR)	Total	1.15 (0.82; 1.61)	0.426	MR Egger	0.055	3.3×10^1	76
CD (OR)	LDL-C independent	1.21 (1.07; 1.37)	0.003	IVW	0.043	2.4×10^2	176
CD (OR)	HDL-C independent	1.17 (1.01; 1.35)	0.034	IVW	0.096	1.8×10^2	137
CD (OR)	LDL-C & HDL-C & TG independent	1.24 (1.05; 1.45)	0.009	IVW	0.056	1.5×10^2	233
Arthritis (OR)	Total	1.43 (1.04; 1.96)	0.029	MR Egger	0.299	3.8×10^1	64
Arthritis (OR)	LDL-C independent	0.96 (0.85; 1.09)	0.563	IVW	0.086	2.6×10^2	144
Arthritis (OR)	HDL-C independent	1.02 (0.90; 1.16)	0.716	IVW	0.395	2.4×10^2	108
Arthritis (OR)	LDL-C & HDL-C & TG independent	1.06 (0.90; 1.23)	0.490	IVW	0.143	1.6×10^2	187
ALS (OR)	Total	0.91 (0.72; 1.17)	0.473	MR Egger	0.182	6.5×10^1	75
ALS (OR)	LDL-C independent	1.08 (0.98; 1.19)	0.114	IVW	0.171	4.0×10^2	175
ALS (OR)	HDL-C independent	1.13 (1.01; 1.26)	0.030	IVW	0.053	3.2×10^2	135
ALS (OR)	LDL-C & HDL-C & TG independent	1.14 (1.01; 1.28)	0.029	IVW	0.210	2.9×10^2	231
MS (OR)	Total	0.90 (0.79; 1.03)	0.126	IVW	0.941	2.2×10^2	17
MS (OR)	LDL-C independent	0.87 (0.73; 1.04)	0.136	IVW	0.115	1.2×10^2	33
MS (OR)	HDL-C independent	1.15 (0.86; 1.54)	0.342	MR Egger	0.089	4.5×10^1	24
MS (OR)	LDL-C & HDL-C & TG independent	0.90 (0.75; 1.07)	0.227	IVW	< 0.001	1.2×10^2	40
Alzheimer (OR)	Total	1.00 (0.99; 1.02)	0.611	IVW	0.053	2.2×10^4	71
Alzheimer (OR)	LDL-C independent	0.98 (0.96; 1.00)	0.127	MR Egger	< 0.001	9.0×10^3	129
Alzheimer (OR)	HDL-C independent	0.99 (0.98; 1.01)	0.312	IVW	0.003	2.0×10^4	130
Alzheimer (OR)	LDL-C & HDL-C & TG independent	0.97 (0.95; 0.99)	< 0.001	IVW	< 0.001	1.4×10^4	195
Parkinson (OR)	Total	0.88 (0.67; 1.15)	0.347	MR Egger	0.076	5.1×10^1	75
Parkinson (OR)	LDL-C independent	0.95 (0.86; 1.06)	0.388	IVW	0.002	3.3×10^2	174
Parkinson (OR)	HDL-C independent	0.93 (0.83; 1.04)	0.215	IVW	0.008	3.1×10^2	136
Parkinson (OR)	LDL-C & HDL-C & TG independent	0.99 (0.87; 1.12)	0.843	IVW	< 0.001	2.4×10^2	230
Pancreatic cancer (OR)	Total	0.81 (0.61; 1.07)	0.143	IVW	0.378	4.7×10^1	79
Pancreatic cancer (OR)	LDL-C independent	0.77 (0.56; 1.04)	0.088	IVW	0.021	4.1×10^1	177
Pancreatic cancer (OR)	HDL-C independent	0.76 (0.55; 1.05)	0.092	IVW	0.017	3.8×10^1	136

Table S4: (Multivariable) Mendelian randomization effect estimates for one standard deviation change in TG (*continued*)

Outcome	Effect type	Point estimate (95%CI)	P-value	Estimator	Heterogeneity P-value	Precision	No. variants
Pancreatic cancer (OR)	LDL-C & HDL-C & TG independent	0.84 (0.59; 1.19)	0.322	IVW	< 0.001	3.2×10 ¹	233
Colon cancer (OR)	Total	1.30 (0.95; 1.80)	0.106	MR Egger	0.060	3.7×10 ¹	77
Colon cancer (OR)	LDL-C independent	1.03 (0.87; 1.22)	0.712	MR Egger	0.006	1.4×10 ²	181
Colon cancer (OR)	HDL-C independent	1.12 (0.98; 1.27)	0.102	IVW	< 0.001	2.2×10 ²	137
Colon cancer (OR)	LDL-C & HDL-C & TG independent	1.10 (0.95; 1.27)	0.207	IVW	< 0.001	1.8×10 ²	236
Rectal cancer (OR)	Total	0.98 (0.67; 1.44)	0.936	MR Egger	0.663	2.7×10 ¹	78
Rectal cancer (OR)	LDL-C independent	1.06 (0.89; 1.26)	0.517	IVW	0.840	1.3×10 ²	176
Rectal cancer (OR)	HDL-C independent	0.97 (0.80; 1.16)	0.706	IVW	0.356	1.2×10 ²	134
Rectal cancer (OR)	LDL-C & HDL-C & TG independent	0.85 (0.70; 1.04)	0.109	IVW	0.586	9.8×10 ¹	231
Melanoma (OR)	Total	0.82 (0.65; 1.04)	0.103	MR Egger	0.196	6.7×10 ¹	77
Melanoma (OR)	LDL-C independent	1.07 (0.97; 1.18)	0.183	IVW	0.024	3.9×10 ²	176
Melanoma (OR)	HDL-C independent	1.08 (0.97; 1.19)	0.143	IVW	< 0.001	3.8×10 ²	134
Melanoma (OR)	LDL-C & HDL-C & TG independent	1.11 (0.99; 1.24)	0.075	IVW	< 0.001	3.0×10 ²	231
Lung cancer (OR)	Total	0.88 (0.62; 1.24)	0.459	MR Egger	0.854	3.3×10 ¹	78
Lung cancer (OR)	LDL-C independent	1.04 (0.88; 1.23)	0.651	IVW	0.061	1.3×10 ²	177
Lung cancer (OR)	HDL-C independent	0.87 (0.73; 1.03)	0.111	IVW	0.173	1.3×10 ²	137
Lung cancer (OR)	LDL-C & HDL-C & TG independent	1.06 (0.88; 1.26)	0.548	IVW	0.022	1.2×10 ²	235

Table S5: (Multivariable) Mendelian randomization effect estimates for one standard deviation change in VLDL-C

Outcome	Effect type	Point estimate (95%CI)	P-value	Estimator	Heterogeneity P-value	Precision	No. variants
CHD (OR)	Total	1.29 (1.19; 1.41)	< 0.001	IVW	0.120	5.2×10 ²	11
CHD (OR)	LDL-C independent	1.25 (1.14; 1.37)	< 0.001	IVW	< 0.001	4.6×10 ²	33
CHD (OR)	HDL-C independent	1.21 (1.10; 1.32)	< 0.001	IVW	0.138	4.7×10 ²	29
CHD (OR)	TG independent	1.16 (0.93; 1.46)	0.191	IVW	< 0.001	7.6×10 ¹	21
CHD (OR)	LDL-C & HDL-C & TG independent	1.21 (1.04; 1.40)	0.014	IVW	< 0.001	1.7×10 ²	58
HF (OR)	Total	1.10 (1.06; 1.15)	< 0.001	IVW	< 0.001	2.3×10 ³	27
HF (OR)	LDL-C independent	1.08 (1.04; 1.13)	< 0.001	IVW	< 0.001	1.9×10 ³	103
HF (OR)	HDL-C independent	1.10 (1.06; 1.15)	< 0.001	IVW	< 0.001	2.1×10 ³	89
HF (OR)	TG independent	1.11 (0.95; 1.29)	0.186	IVW	0.006	1.7×10 ²	67
HF (OR)	LDL-C & HDL-C & TG independent	1.10 (1.02; 1.19)	0.012	IVW	< 0.001	6.7×10 ²	188
AF (OR)	Total	1.03 (0.99; 1.06)	0.186	IVW	0.198	2.7×10 ³	28
AF (OR)	LDL-C independent	1.04 (1.00; 1.08)	0.064	IVW	0.017	2.6×10 ³	107
AF (OR)	HDL-C independent	1.01 (0.97; 1.05)	0.628	IVW	0.443	3.0×10 ³	93
AF (OR)	TG independent	1.08 (0.95; 1.22)	0.239	IVW	0.030	2.4×10 ²	69
AF (OR)	LDL-C & HDL-C & TG independent	1.06 (0.99; 1.13)	0.083	IVW	0.002	9.2×10 ²	195

Table S5: (Multivariable) Mendelian randomization effect estimates for one standard deviation change in VLDL-C (*continued*)

Outcome	Effect type	Point estimate (95%CI)	P-value	Estimator	Heterogeneity P-value	Precision	No. variants
Any stroke (OR)	Total	1.02 (0.97; 1.07)	0.403	IVW	0.501	1.8×10 ³	27
Any stroke (OR)	LDL-C independent	1.02 (0.97; 1.08)	0.400	IVW	0.002	1.4×10 ³	103
Any stroke (OR)	HDL-C independent	1.03 (0.96; 1.11)	0.366	MR Egger	0.008	7.9×10 ²	92
Any stroke (OR)	TG independent	0.90 (0.75; 1.08)	0.258	IVW	0.335	1.1×10 ²	70
Any stroke (OR)	LDL-C & HDL-C & TG independent	1.02 (0.93; 1.12)	0.612	IVW	< 0.001	4.5×10 ²	193
Any ischemic stroke (OR)	Total	0.90 (0.74; 1.10)	0.309	MR Egger	0.756	9.4×10 ¹	26
Any ischemic stroke (OR)	LDL-C independent	1.01 (0.95; 1.07)	0.769	IVW	0.010	1.2×10 ³	102
Any ischemic stroke (OR)	HDL-C independent	0.99 (0.94; 1.05)	0.807	IVW	0.013	1.3×10 ³	91
Any ischemic stroke (OR)	TG independent	0.89 (0.73; 1.08)	0.229	IVW	0.503	1.0×10 ²	70
Any ischemic stroke (OR)	LDL-C & HDL-C & TG independent	1.00 (0.91; 1.11)	0.926	IVW	0.006	3.8×10 ²	192
Large artery stroke (OR)	Total	1.10 (0.97; 1.25)	0.140	IVW	0.339	2.3×10 ²	28
Large artery stroke (OR)	LDL-C independent	0.97 (0.85; 1.12)	0.726	IVW	< 0.001	1.9×10 ²	105
Large artery stroke (OR)	HDL-C independent	1.02 (0.89; 1.17)	0.766	IVW	0.006	2.2×10 ²	92
Large artery stroke (OR)	TG independent	1.28 (0.78; 2.09)	0.324	IVW	0.320	1.6×10 ¹	72
Large artery stroke (OR)	LDL-C & HDL-C & TG independent	0.74 (0.57; 0.94)	0.015	IVW	0.006	6.3×10 ¹	194
Cardioembolic stroke (OR)	Total	0.98 (0.89; 1.08)	0.698	IVW	0.621	4.1×10 ²	28
Cardioembolic stroke (OR)	LDL-C independent	1.02 (0.91; 1.14)	0.724	IVW	0.028	3.1×10 ²	104
Cardioembolic stroke (OR)	HDL-C independent	1.01 (0.91; 1.12)	0.845	IVW	0.732	3.6×10 ²	92
Cardioembolic stroke (OR)	TG independent	0.82 (0.57; 1.19)	0.297	IVW	0.714	2.9×10 ¹	72
Cardioembolic stroke (OR)	LDL-C & HDL-C & TG independent	1.00 (0.82; 1.21)	0.981	IVW	0.009	1.0×10 ²	195
Small vessel stroke (OR)	Total	1.11 (0.99; 1.25)	0.068	IVW	0.737	3.0×10 ²	28
Small vessel stroke (OR)	LDL-C independent	1.16 (1.01; 1.34)	0.035	IVW	0.156	2.0×10 ²	106
Small vessel stroke (OR)	HDL-C independent	1.17 (0.98; 1.39)	0.086	MR Egger	0.270	1.3×10 ²	94
Small vessel stroke (OR)	TG independent	0.73 (0.50; 1.07)	0.109	MR Egger	0.009	2.7×10 ¹	73
Small vessel stroke (OR)	LDL-C & HDL-C & TG independent	1.03 (0.82; 1.29)	0.803	IVW	0.002	7.5×10 ¹	196
cIMT (mm)	Total	0.00 (-0.00; 0.01)	0.111	IVW	0.005	3.0×10 ⁵	26
cIMT (mm)	LDL-C independent	-0.00 (-0.01; 0.00)	0.183	IVW	< 0.001	2.4×10 ⁵	105
cIMT (mm)	HDL-C independent	-0.01 (-0.01; -0.00)	0.025	MR Egger	< 0.001	1.4×10 ⁵	92
cIMT (mm)	TG independent	0.01 (-0.01; 0.02)	0.310	IVW	< 0.001	2.5×10 ⁴	72
cIMT (mm)	LDL-C & HDL-C & TG independent	0.00 (-0.01; 0.01)	0.891	IVW	< 0.001	7.8×10 ⁴	194
Carotid plaque (OR)	Total	1.13 (1.04; 1.23)	0.003	IVW	0.014	5.6×10 ²	26
Carotid plaque (OR)	LDL-C independent	1.11 (0.99; 1.23)	0.069	IVW	0.083	3.2×10 ²	103
Carotid plaque (OR)	HDL-C independent	1.14 (1.04; 1.26)	0.008	IVW	0.094	4.0×10 ²	89
Carotid plaque (OR)	TG independent	1.35 (0.99; 1.85)	0.062	IVW	0.031	3.9×10 ¹	70
Carotid plaque (OR)	LDL-C & HDL-C & TG independent	1.32 (1.12; 1.56)	< 0.001	IVW	0.019	1.4×10 ²	192
Glucose (mmol/l)	Total	-0.01 (-0.08; 0.05)	0.652	MR Egger	< 0.001	9.3×10 ²	23
Glucose (mmol/l)	LDL-C independent	0.01 (-0.01; 0.03)	0.192	IVW	0.002	1.2×10 ⁴	98
Glucose (mmol/l)	HDL-C independent	0.01 (-0.01; 0.02)	0.460	IVW	< 0.001	1.4×10 ⁴	83
Glucose (mmol/l)	TG independent	0.11 (0.06; 0.17)	< 0.001	IVW	< 0.001	1.2×10 ³	66
Glucose (mmol/l)	LDL-C & HDL-C & TG independent	0.02 (-0.01; 0.06)	0.144	MR Egger	< 0.001	3.7×10 ³	180

Table S5: (Multivariable) Mendelian randomization effect estimates for one standard deviation change in VLDL-C (*continued*)

Outcome	Effect type	Point estimate (95%CI)	P-value	Estimator	Heterogeneity P-value	Precision	No. variants
HbA1c (mmol/mol)	Total	-0.07 (-0.15; 0.01)	0.103	IVW	< 0.001	5.7×10 ²	22
HbA1c (mmol/mol)	LDL-C independent	-0.10 (-0.19; -0.01)	0.036	IVW	< 0.001	4.6×10 ²	97
HbA1c (mmol/mol)	HDL-C independent	-0.18 (-0.29; -0.06)	0.002	MR Egger	< 0.001	2.9×10 ²	82
HbA1c (mmol/mol)	TG independent	0.28 (-0.02; 0.58)	0.069	IVW	< 0.001	4.2×10 ¹	59
HbA1c (mmol/mol)	LDL-C & HDL-C & TG independent	-0.02 (-0.18; 0.13)	0.746	IVW	< 0.001	1.7×10 ²	178
T2DM (OR)	Total	1.04 (1.01; 1.08)	0.024	IVW	< 0.001	2.8×10 ³	19
T2DM (OR)	LDL-C independent	1.05 (1.01; 1.09)	0.008	IVW	< 0.001	2.6×10 ³	87
T2DM (OR)	HDL-C independent	1.04 (1.00; 1.08)	0.043	IVW	< 0.001	2.9×10 ³	79
T2DM (OR)	TG independent	1.31 (1.16; 1.49)	< 0.001	IVW	< 0.001	2.4×10 ²	58
T2DM (OR)	LDL-C & HDL-C & TG independent	1.11 (1.04; 1.20)	0.003	MR Egger	< 0.001	7.5×10 ²	170
CRP (mg/L)	Total	0.07 (0.01; 0.13)	0.014	IVW	0.014	1.1×10 ³	21
CRP (mg/L)	LDL-C independent	0.16 (0.10; 0.22)	< 0.001	IVW	< 0.001	9.6×10 ²	87
CRP (mg/L)	HDL-C independent	0.04 (-0.04; 0.11)	0.369	MR Egger	0.014	6.3×10 ²	85
CRP (mg/L)	TG independent	0.09 (-0.14; 0.31)	0.458	IVW	< 0.001	7.5×10 ¹	58
CRP (mg/L)	LDL-C & HDL-C & TG independent	0.16 (0.05; 0.27)	0.003	IVW	< 0.001	3.4×10 ²	168
SBP (mmHg)	Total	0.86 (0.71; 1.02)	< 0.001	IVW	< 0.001	1.6×10 ²	24
SBP (mmHg)	LDL-C independent	0.45 (0.27; 0.63)	< 0.001	IVW	< 0.001	1.2×10 ²	91
SBP (mmHg)	HDL-C independent	0.53 (0.36; 0.69)	< 0.001	IVW	< 0.001	1.3×10 ²	81
SBP (mmHg)	TG independent	0.23 (-0.42; 0.88)	0.488	IVW	0.004	9.1	60
SBP (mmHg)	LDL-C & HDL-C & TG independent	0.39 (0.09; 0.69)	0.011	IVW	< 0.001	4.2×10 ¹	172
DBP (mmHg)	Total	0.25 (0.16; 0.34)	< 0.001	IVW	< 0.001	4.6×10 ²	23
DBP (mmHg)	LDL-C independent	0.20 (0.10; 0.30)	< 0.001	IVW	< 0.001	3.6×10 ²	89
DBP (mmHg)	HDL-C independent	0.12 (0.03; 0.22)	0.013	IVW	0.034	4.2×10 ²	80
DBP (mmHg)	TG independent	-0.04 (-0.41; 0.33)	0.825	IVW	< 0.001	2.8×10 ¹	58
DBP (mmHg)	LDL-C & HDL-C & TG independent	-0.18 (-0.36; -0.00)	0.044	IVW	< 0.001	1.2×10 ²	166
PBL (OR)	Total	1.76 (0.41; 7.55)	0.446	MR Egger	0.103	1.8	17
PBL (OR)	LDL-C independent	0.97 (0.77; 1.23)	0.825	IVW	0.023	7.2×10 ¹	62
PBL (OR)	HDL-C independent	1.14 (0.89; 1.46)	0.294	IVW	0.170	6.3×10 ¹	53
PBL (OR)	TG independent	0.81 (0.41; 1.62)	0.559	IVW	0.003	8.0	41
PBL (OR)	LDL-C & HDL-C & TG independent	0.73 (0.51; 1.04)	0.084	IVW	< 0.001	3.1×10 ¹	115
BUN (mg/dl)	Total	-0.00 (-0.01; 0.00)	0.301	IVW	< 0.001	1.7×10 ⁵	23
BUN (mg/dl)	LDL-C independent	-0.00 (-0.01; 0.00)	0.212	IVW	< 0.001	1.3×10 ⁵	98
BUN (mg/dl)	HDL-C independent	-0.00 (-0.01; 0.00)	0.664	IVW	0.002	1.6×10 ⁵	87
BUN (mg/dl)	TG independent	-0.00 (-0.02; 0.01)	0.647	IVW	0.023	1.3×10 ⁴	68
BUN (mg/dl)	LDL-C & HDL-C & TG independent	-0.01 (-0.01; 0.00)	0.223	IVW	< 0.001	4.9×10 ⁴	186
eGFR (SD of log(eGFR))	Total	0.01 (-0.00; 0.01)	0.068	MR Egger	< 0.001	7.6×10 ⁴	24
eGFR (SD of log(eGFR))	LDL-C independent	0.00 (0.00; 0.01)	0.004	MR Egger	< 0.001	5.6×10 ⁵	98
eGFR (SD of log(eGFR))	HDL-C independent	0.00 (0.00; 0.01)	0.012	MR Egger	0.005	5.5×10 ⁵	85
eGFR (SD of log(eGFR))	TG independent	0.01 (-0.00; 0.01)	0.155	IVW	< 0.001	6.5×10 ⁴	63
eGFR (SD of log(eGFR))	LDL-C & HDL-C & TG independent	0.00 (0.00; 0.01)	0.021	IVW	< 0.001	3.0×10 ⁵	179

Table S5: (Multivariable) Mendelian randomization effect estimates for one standard deviation change in VLDL-C (*continued*)

Outcome	Effect type	Point estimate (95%CI)	P-value	Estimator	Heterogeneity P-value	Precision	No. variants
CKD (OR)	Total	1.03 (0.98; 1.07)	0.296	IVW	0.028	1.7×10 ³	26
CKD (OR)	LDL-C independent	1.03 (0.97; 1.09)	0.299	IVW	0.004	1.3×10 ³	103
CKD (OR)	HDL-C independent	1.02 (0.96; 1.08)	0.567	IVW	0.051	1.2×10 ³	87
CKD (OR)	TG independent	0.98 (0.82; 1.17)	0.803	IVW	0.002	1.2×10 ²	70
CKD (OR)	LDL-C & HDL-C & TG independent	1.01 (0.92; 1.11)	0.797	IVW	< 0.001	4.5×10 ²	191
IBD (OR)	Total	0.86 (0.63; 1.18)	0.358	MR Egger	0.031	3.8×10 ¹	26
IBD (OR)	LDL-C independent	1.00 (0.90; 1.10)	0.977	IVW	0.006	3.8×10 ²	102
IBD (OR)	HDL-C independent	0.99 (0.91; 1.08)	0.859	IVW	0.009	4.8×10 ²	90
IBD (OR)	TG independent	0.95 (0.70; 1.29)	0.722	IVW	< 0.001	4.1×10 ¹	71
IBD (OR)	LDL-C & HDL-C & TG independent	0.89 (0.76; 1.06)	0.193	IVW	< 0.001	1.4×10 ²	193
UC (OR)	Total	0.77 (0.52; 1.15)	0.201	MR Egger	0.032	2.4×10 ¹	27
UC (OR)	LDL-C independent	0.92 (0.81; 1.05)	0.209	IVW	0.008	2.4×10 ²	104
UC (OR)	HDL-C independent	0.98 (0.84; 1.15)	0.831	MR Egger	0.010	1.6×10 ²	92
UC (OR)	TG independent	0.90 (0.62; 1.32)	0.600	IVW	0.021	2.6×10 ¹	72
UC (OR)	LDL-C & HDL-C & TG independent	0.86 (0.70; 1.06)	0.161	IVW	< 0.001	8.7×10 ¹	195
CD (OR)	Total	1.02 (0.66; 1.56)	0.938	MR Egger	0.048	2.1×10 ¹	26
CD (OR)	LDL-C independent	1.11 (0.96; 1.27)	0.158	IVW	0.376	2.0×10 ²	102
CD (OR)	HDL-C independent	1.09 (0.95; 1.24)	0.235	IVW	0.077	2.1×10 ²	90
CD (OR)	TG independent	0.72 (0.48; 1.09)	0.122	IVW	0.039	2.2×10 ¹	72
CD (OR)	LDL-C & HDL-C & TG independent	1.00 (0.78; 1.28)	0.978	IVW	0.054	6.3×10 ¹	194
Arthritis (OR)	Total	0.97 (0.87; 1.09)	0.604	IVW	0.155	3.1×10 ²	26
Arthritis (OR)	LDL-C independent	0.99 (0.88; 1.10)	0.814	IVW	< 0.001	3.0×10 ²	95
Arthritis (OR)	HDL-C independent	1.02 (0.86; 1.22)	0.781	MR Egger	0.148	1.3×10 ²	79
Arthritis (OR)	TG independent	1.30 (0.84; 1.99)	0.235	IVW	0.234	2.1×10 ¹	62
Arthritis (OR)	LDL-C & HDL-C & TG independent	1.11 (0.89; 1.38)	0.344	IVW	0.022	8.3×10 ¹	166
ALS (OR)	Total	1.07 (0.98; 1.17)	0.131	IVW	0.510	5.1×10 ²	28
ALS (OR)	LDL-C independent	1.00 (0.90; 1.10)	0.970	IVW	0.491	3.9×10 ²	106
ALS (OR)	HDL-C independent	1.00 (0.91; 1.09)	0.924	IVW	0.259	4.3×10 ²	92
ALS (OR)	TG independent	0.81 (0.58; 1.15)	0.237	IVW	0.242	3.3×10 ¹	69
ALS (OR)	LDL-C & HDL-C & TG independent	0.78 (0.66; 0.93)	0.004	IVW	0.428	1.4×10 ²	191
MS (OR)	Total	0.92 (0.81; 1.03)	0.154	IVW	0.758	2.7×10 ²	11
MS (OR)	LDL-C independent	0.87 (0.73; 1.04)	0.129	IVW	0.155	1.2×10 ²	27
MS (OR)	HDL-C independent	0.89 (0.74; 1.06)	0.198	IVW	0.187	1.2×10 ²	19
MS (OR)	TG independent	1.23 (0.60; 2.53)	0.576	IVW	0.902	7.4	17
MS (OR)	LDL-C & HDL-C & TG independent	0.98 (0.65; 1.46)	0.910	IVW	0.007	2.4×10 ¹	38
Alzheimer (OR)	Total	1.02 (1.00; 1.03)	0.014	IVW	0.839	2.1×10 ⁴	22
Alzheimer (OR)	LDL-C independent	1.00 (0.98; 1.02)	0.792	MR Egger	< 0.001	9.9×10 ³	67
Alzheimer (OR)	HDL-C independent	1.01 (1.00; 1.03)	0.087	IVW	0.094	1.6×10 ⁴	86
Alzheimer (OR)	TG independent	1.02 (0.97; 1.08)	0.387	IVW	0.072	1.5×10 ³	63
Alzheimer (OR)	LDL-C & HDL-C & TG independent	0.96 (0.94; 0.99)	0.007	IVW	< 0.001	5.3×10 ³	150

Table S5: (Multivariable) Mendelian randomization effect estimates for one standard deviation change in VLDL-C (*continued*)

Outcome	Effect type	Point estimate (95%CI)	P-value	Estimator	Heterogeneity P-value	Precision	No. variants
Parkinson (OR)	Total	1.17 (0.80; 1.71)	0.424	MR Egger	0.781	2.6×10 ¹	24
Parkinson (OR)	LDL-C independent	1.05 (0.89; 1.23)	0.570	MR Egger	0.070	1.5×10 ²	102
Parkinson (OR)	HDL-C independent	1.02 (0.93; 1.13)	0.631	IVW	0.434	3.9×10 ²	89
Parkinson (OR)	TG independent	1.39 (0.99; 1.95)	0.059	IVW	0.021	3.3×10 ¹	71
Parkinson (OR)	LDL-C & HDL-C & TG independent	1.22 (1.02; 1.46)	0.029	IVW	0.005	1.2×10 ²	192
Pancreatic cancer (OR)	Total	0.76 (0.57; 1.00)	0.047	IVW	0.951	5.0×10 ¹	27
Pancreatic cancer (OR)	LDL-C independent	0.73 (0.53; 1.00)	0.052	IVW	0.003	3.7×10 ¹	104
Pancreatic cancer (OR)	HDL-C independent	0.76 (0.55; 1.06)	0.103	IVW	0.248	3.7×10 ¹	87
Pancreatic cancer (OR)	TG independent	1.30 (0.41; 4.10)	0.650	IVW	0.234	2.9	70
Pancreatic cancer (OR)	LDL-C & HDL-C & TG independent	0.33 (0.18; 0.62)	< 0.001	MR Egger	< 0.001	1.0×10 ¹	192
Colon cancer (OR)	Total	1.64 (1.02; 2.64)	0.041	MR Egger	0.823	1.7×10 ¹	25
Colon cancer (OR)	LDL-C independent	0.94 (0.82; 1.07)	0.350	IVW	0.020	2.1×10 ²	101
Colon cancer (OR)	HDL-C independent	1.13 (0.94; 1.37)	0.192	MR Egger	0.261	1.1×10 ²	90
Colon cancer (OR)	TG independent	1.77 (1.14; 2.75)	0.011	IVW	0.017	2.0×10 ¹	70
Colon cancer (OR)	LDL-C & HDL-C & TG independent	1.13 (0.90; 1.43)	0.303	IVW	0.011	7.0×10 ¹	188
Rectal cancer (OR)	Total	1.34 (1.15; 1.56)	< 0.001	IVW	0.485	1.6×10 ²	27
Rectal cancer (OR)	LDL-C independent	1.20 (1.00; 1.43)	0.049	IVW	0.870	1.2×10 ²	102
Rectal cancer (OR)	HDL-C independent	1.48 (1.15; 1.91)	0.002	MR Egger	0.265	6.0×10 ¹	89
Rectal cancer (OR)	TG independent	1.74 (0.95; 3.16)	0.071	IVW	0.463	1.1×10 ¹	70
Rectal cancer (OR)	LDL-C & HDL-C & TG independent	1.16 (0.84; 1.58)	0.372	IVW	0.358	3.8×10 ¹	188
Melanoma (OR)	Total	0.99 (0.68; 1.43)	0.937	MR Egger	0.339	2.8×10 ¹	26
Melanoma (OR)	LDL-C independent	1.00 (0.90; 1.10)	0.945	IVW	0.038	3.7×10 ²	103
Melanoma (OR)	HDL-C independent	1.05 (0.95; 1.16)	0.314	IVW	< 0.001	4.1×10 ²	88
Melanoma (OR)	TG independent	1.10 (0.79; 1.55)	0.573	IVW	0.002	3.4×10 ¹	70
Melanoma (OR)	LDL-C & HDL-C & TG independent	1.00 (0.84; 1.19)	0.971	IVW	< 0.001	1.2×10 ²	191
Lung cancer (OR)	Total	0.89 (0.77; 1.02)	0.104	IVW	0.505	2.0×10 ²	27
Lung cancer (OR)	LDL-C independent	0.90 (0.76; 1.08)	0.251	IVW	0.262	1.2×10 ²	102
Lung cancer (OR)	HDL-C independent	0.96 (0.82; 1.13)	0.642	IVW	0.016	1.5×10 ²	88
Lung cancer (OR)	TG independent	0.98 (0.60; 1.59)	0.938	IVW	0.906	1.6×10 ¹	71
Lung cancer (OR)	LDL-C & HDL-C & TG independent	0.98 (0.73; 1.32)	0.889	IVW	0.233	4.3×10 ¹	191

Table S6: (Multivariable) Mendelian randomization effect estimates for one standard deviation change in IDL-C

Outcome	Effect type	Point estimate (95%CI)	P-value	Estimator	Heterogeneity P-value	Precision	No. variants
CHD (OR)	Total	1.52 (1.44; 1.61)	< 0.001	IVW	< 0.001	1.2×10 ³	29
CHD (OR)	LDL-C independent	1.71 (1.09; 2.70)	0.020	IVW	< 0.001	1.9×10 ¹	32
CHD (OR)	HDL-C independent	1.57 (1.49; 1.66)	< 0.001	IVW	< 0.001	1.4×10 ³	51
CHD (OR)	TG independent	1.27 (1.18; 1.37)	< 0.001	MR Egger	< 0.001	6.4×10 ²	48

Table S6: (Multivariable) Mendelian randomization effect estimates for one standard deviation change in LDL-C (*continued*)

Outcome	Effect type	Point estimate (95%CI)	P-value	Estimator	Heterogeneity P-value	Precision	No. variants
CHD (OR)	LDL-C & HDL-C & TG independent	1.42 (0.98; 2.05)	0.062	IVW	< 0.001	2.9×10 ¹	62
HF (OR)	Total	1.03 (1.00; 1.06)	0.077	IVW	< 0.001	4.3×10 ³	107
HF (OR)	LDL-C independent	1.22 (0.97; 1.54)	0.095	MR Egger	< 0.001	7.2×10 ¹	130
HF (OR)	HDL-C independent	1.04 (1.01; 1.07)	0.011	IVW	< 0.001	4.7×10 ³	179
HF (OR)	TG independent	0.97 (0.92; 1.01)	0.168	MR Egger	< 0.001	1.7×10 ³	158
HF (OR)	LDL-C & HDL-C & TG independent	1.09 (0.93; 1.28)	0.267	IVW	< 0.001	1.6×10 ²	236
AF (OR)	Total	1.01 (0.98; 1.04)	0.495	IVW	0.100	4.6×10 ³	115
AF (OR)	LDL-C independent	1.20 (0.98; 1.47)	0.082	MR Egger	0.016	9.4×10 ¹	142
AF (OR)	HDL-C independent	1.02 (1.00; 1.05)	0.107	IVW	0.135	5.5×10 ³	191
AF (OR)	TG independent	1.01 (0.98; 1.04)	0.415	IVW	< 0.001	4.7×10 ³	176
AF (OR)	LDL-C & HDL-C & TG independent	1.16 (1.02; 1.32)	0.021	IVW	< 0.001	2.3×10 ²	256
Any stroke (OR)	Total	1.06 (1.02; 1.10)	< 0.001	IVW	< 0.001	3.1×10 ³	111
Any stroke (OR)	LDL-C independent	0.96 (0.73; 1.25)	0.764	IVW	< 0.001	5.4×10 ¹	132
Any stroke (OR)	HDL-C independent	1.05 (1.01; 1.09)	0.006	IVW	< 0.001	3.2×10 ³	185
Any stroke (OR)	TG independent	1.00 (0.95; 1.06)	0.897	MR Egger	< 0.001	1.4×10 ³	168
Any stroke (OR)	LDL-C & HDL-C & TG independent	1.04 (0.86; 1.26)	0.685	IVW	< 0.001	1.1×10 ²	242
Any ischemic stroke (OR)	Total	1.06 (1.02; 1.10)	0.003	IVW	< 0.001	2.7×10 ³	112
Any ischemic stroke (OR)	LDL-C independent	1.09 (0.82; 1.46)	0.544	IVW	< 0.001	4.6×10 ¹	133
Any ischemic stroke (OR)	HDL-C independent	1.04 (1.00; 1.08)	0.033	IVW	< 0.001	2.8×10 ³	187
Any ischemic stroke (OR)	TG independent	1.00 (0.95; 1.06)	0.866	MR Egger	< 0.001	1.2×10 ³	168
Any ischemic stroke (OR)	LDL-C & HDL-C & TG independent	1.00 (0.82; 1.23)	0.985	IVW	< 0.001	9.3×10 ¹	243
Large artery stroke (OR)	Total	1.05 (0.95; 1.16)	0.346	IVW	< 0.001	4.0×10 ²	108
Large artery stroke (OR)	LDL-C independent	0.36 (0.17; 0.74)	0.006	IVW	< 0.001	7.2	133
Large artery stroke (OR)	HDL-C independent	1.04 (0.94; 1.14)	0.437	IVW	< 0.001	4.2×10 ²	185
Large artery stroke (OR)	TG independent	1.08 (0.97; 1.21)	0.182	IVW	< 0.001	3.1×10 ²	166
Large artery stroke (OR)	LDL-C & HDL-C & TG independent	0.70 (0.42; 1.17)	0.177	IVW	< 0.001	1.5×10 ¹	244
Cardioembolic stroke (OR)	Total	0.96 (0.89; 1.04)	0.332	IVW	0.033	6.8×10 ²	111
Cardioembolic stroke (OR)	LDL-C independent	1.24 (0.71; 2.17)	0.458	IVW	0.006	1.2×10 ¹	135
Cardioembolic stroke (OR)	HDL-C independent	0.95 (0.89; 1.02)	0.189	IVW	0.006	7.2×10 ²	187
Cardioembolic stroke (OR)	TG independent	0.99 (0.90; 1.08)	0.753	IVW	0.092	4.6×10 ²	168
Cardioembolic stroke (OR)	LDL-C & HDL-C & TG independent	1.43 (0.95; 2.13)	0.083	IVW	0.004	2.4×10 ¹	244
Small vessel stroke (OR)	Total	1.00 (0.91; 1.10)	0.956	IVW	0.291	4.6×10 ²	112
Small vessel stroke (OR)	LDL-C independent	0.83 (0.40; 1.71)	0.608	IVW	0.054	7.3	137
Small vessel stroke (OR)	HDL-C independent	0.96 (0.84; 1.09)	0.543	MR Egger	0.099	2.2×10 ²	186
Small vessel stroke (OR)	TG independent	0.83 (0.72; 0.95)	0.008	MR Egger	0.024	2.0×10 ²	167
Small vessel stroke (OR)	LDL-C & HDL-C & TG independent	1.10 (0.68; 1.76)	0.702	IVW	0.002	1.7×10 ¹	245
cIMT (mm)	Total	0.01 (0.01; 0.02)	< 0.001	MR Egger	< 0.001	1.4×10 ⁵	117
cIMT (mm)	LDL-C independent	0.00 (-0.02; 0.02)	0.969	IVW	< 0.001	9.3×10 ³	137
cIMT (mm)	HDL-C independent	0.02 (0.01; 0.02)	< 0.001	IVW	< 0.001	5.4×10 ⁵	186

Table S6: (Multivariable) Mendelian randomization effect estimates for one standard deviation change in LDL-C (*continued*)

Outcome	Effect type	Point estimate (95%CI)	P-value	Estimator	Heterogeneity P-value	Precision	No. variants
cIMT (mm)	TG independent	0.02 (0.01; 0.02)	< 0.001	MR Egger	< 0.001	2.1×10 ⁵	169
cIMT (mm)	LDL-C & HDL-C & TG independent	0.02 (0.01; 0.03)	0.006	IVW	< 0.001	1.8×10 ⁴	247
Carotid plaque (OR)	Total	1.38 (1.29; 1.48)	< 0.001	IVW	0.008	8.4×10 ²	105
Carotid plaque (OR)	LDL-C independent	0.59 (0.35; 1.01)	0.052	MR Egger	0.023	1.4×10 ¹	129
Carotid plaque (OR)	HDL-C independent	1.41 (1.32; 1.51)	< 0.001	IVW	0.011	8.5×10 ²	178
Carotid plaque (OR)	TG independent	1.32 (1.18; 1.48)	< 0.001	MR Egger	0.002	3.1×10 ²	156
Carotid plaque (OR)	LDL-C & HDL-C & TG independent	1.22 (0.86; 1.73)	0.275	MR Egger	0.013	3.1×10 ¹	239
Glucose (mmol/l)	Total	-0.01 (-0.02; 0.00)	0.194	IVW	0.010	3.7×10 ⁴	110
Glucose (mmol/l)	LDL-C independent	0.09 (0.01; 0.17)	0.033	IVW	0.039	5.8×10 ²	135
Glucose (mmol/l)	HDL-C independent	-0.01 (-0.02; 0.00)	0.115	IVW	< 0.001	3.6×10 ⁴	179
Glucose (mmol/l)	TG independent	-0.01 (-0.02; 0.01)	0.487	MR Egger	< 0.001	1.5×10 ⁴	164
Glucose (mmol/l)	LDL-C & HDL-C & TG independent	0.07 (0.01; 0.12)	0.020	IVW	< 0.001	1.3×10 ³	241
HbA1c (mmol/mol)	Total	-0.10 (-0.21; 0.01)	0.083	MR Egger	< 0.001	3.2×10 ²	106
HbA1c (mmol/mol)	LDL-C independent	0.71 (0.30; 1.12)	< 0.001	MR Egger	< 0.001	2.3×10 ¹	132
HbA1c (mmol/mol)	HDL-C independent	-0.12 (-0.17; -0.06)	< 0.001	IVW	< 0.001	1.4×10 ³	174
HbA1c (mmol/mol)	TG independent	-0.02 (-0.08; 0.04)	0.535	IVW	< 0.001	1.0×10 ³	161
HbA1c (mmol/mol)	LDL-C & HDL-C & TG independent	0.18 (-0.10; 0.46)	0.215	IVW	< 0.001	4.9×10 ¹	237
T2DM (OR)	Total	0.93 (0.91; 0.96)	< 0.001	IVW	< 0.001	6.4×10 ³	96
T2DM (OR)	LDL-C independent	1.23 (1.01; 1.49)	0.039	MR Egger	< 0.001	1.0×10 ²	122
T2DM (OR)	HDL-C independent	0.93 (0.91; 0.95)	< 0.001	IVW	< 0.001	6.7×10 ³	159
T2DM (OR)	TG independent	0.93 (0.91; 0.96)	< 0.001	IVW	< 0.001	5.0×10 ³	142
T2DM (OR)	LDL-C & HDL-C & TG independent	0.85 (0.74; 0.97)	0.016	MR Egger	< 0.001	2.1×10 ²	215
CRP (mg/L)	Total	-0.20 (-0.28; -0.12)	< 0.001	MR Egger	< 0.001	5.7×10 ²	100
CRP (mg/L)	LDL-C independent	0.67 (0.31; 1.03)	< 0.001	MR Egger	< 0.001	2.9×10 ¹	114
CRP (mg/L)	HDL-C independent	-0.06 (-0.10; -0.02)	0.002	IVW	< 0.001	2.4×10 ³	164
CRP (mg/L)	TG independent	-0.10 (-0.16; -0.04)	0.002	MR Egger	< 0.001	1.0×10 ³	149
CRP (mg/L)	LDL-C & HDL-C & TG independent	0.29 (0.08; 0.50)	0.007	IVW	< 0.001	8.7×10 ¹	226
SBP (mmHg)	Total	0.47 (0.35; 0.60)	< 0.001	IVW	< 0.001	2.5×10 ²	85
SBP (mmHg)	LDL-C independent	-0.20 (-1.25; 0.86)	0.717	MR Egger	< 0.001	3.4	99
SBP (mmHg)	HDL-C independent	0.49 (0.37; 0.61)	< 0.001	IVW	< 0.001	2.6×10 ²	145
SBP (mmHg)	TG independent	0.24 (0.10; 0.39)	< 0.001	IVW	< 0.001	1.8×10 ²	130
SBP (mmHg)	LDL-C & HDL-C & TG independent	0.11 (-0.54; 0.77)	0.733	IVW	< 0.001	9.0	191
DBP (mmHg)	Total	0.03 (-0.04; 0.10)	0.436	IVW	< 0.001	7.4×10 ²	83
DBP (mmHg)	LDL-C independent	0.16 (-0.45; 0.77)	0.611	MR Egger	< 0.001	1.0×10 ¹	104
DBP (mmHg)	HDL-C independent	0.05 (-0.06; 0.15)	0.367	MR Egger	< 0.001	3.5×10 ²	146
DBP (mmHg)	TG independent	-0.15 (-0.27; -0.03)	0.012	MR Egger	< 0.001	2.7×10 ²	127
DBP (mmHg)	LDL-C & HDL-C & TG independent	0.06 (-0.32; 0.44)	0.761	IVW	< 0.001	2.7×10 ¹	191
PBL (OR)	Total	2.25 (1.23; 4.14)	0.009	MR Egger	0.519	1.0×10 ¹	59
PBL (OR)	LDL-C independent	1.20 (0.32; 4.48)	0.784	IVW	0.029	2.2	63

Table S6: (Multivariable) Mendelian randomization effect estimates for one standard deviation change in LDL-C (*continued*)

Outcome	Effect type	Point estimate (95%CI)	P-value	Estimator	Heterogeneity P-value	Precision	No. variants
PBL (OR)	HDL-C independent	1.15 (0.95; 1.39)	0.150	IVW	0.247	1.1×10 ²	92
PBL (OR)	TG independent	0.97 (0.78; 1.21)	0.794	IVW	0.027	8.2×10 ¹	86
PBL (OR)	LDL-C & HDL-C & TG independent	0.60 (0.22; 1.64)	0.316	MR Egger	0.057	3.8	119
BUN (mg/dl)	Total	0.00 (-0.00; 0.01)	0.230	IVW	< 0.001	3.2×10 ⁵	108
BUN (mg/dl)	LDL-C independent	0.05 (0.02; 0.07)	< 0.001	IVW	< 0.001	5.4×10 ³	130
BUN (mg/dl)	HDL-C independent	0.00 (-0.00; 0.01)	0.071	IVW	< 0.001	3.3×10 ⁵	174
BUN (mg/dl)	TG independent	0.00 (-0.01; 0.01)	0.895	MR Egger	< 0.001	1.3×10 ⁵	164
BUN (mg/dl)	LDL-C & HDL-C & TG independent	0.02 (0.00; 0.04)	0.019	IVW	< 0.001	1.1×10 ⁴	230
eGFR (SD of log(eGFR))	Total	-0.00 (-0.00; 0.00)	0.479	IVW	< 0.001	2.0×10 ⁶	97
eGFR (SD of log(eGFR))	LDL-C independent	-0.00 (-0.01; 0.01)	0.729	IVW	< 0.001	3.7×10 ⁴	125
eGFR (SD of log(eGFR))	HDL-C independent	0.00 (0.00; 0.00)	0.032	MR Egger	< 0.001	1.1×10 ⁶	168
eGFR (SD of log(eGFR))	TG independent	0.00 (-0.00; 0.00)	0.868	IVW	< 0.001	1.6×10 ⁶	155
eGFR (SD of log(eGFR))	LDL-C & HDL-C & TG independent	-0.01 (-0.02; -0.00)	0.022	IVW	< 0.001	7.5×10 ⁴	226
CKD (OR)	Total	0.99 (0.95; 1.02)	0.500	IVW	0.006	3.0×10 ³	111
CKD (OR)	LDL-C independent	0.92 (0.70; 1.19)	0.510	IVW	0.005	5.5×10 ¹	134
CKD (OR)	HDL-C independent	0.92 (0.88; 0.97)	0.003	MR Egger	0.091	1.4×10 ³	182
CKD (OR)	TG independent	0.98 (0.94; 1.02)	0.315	IVW	< 0.001	2.4×10 ³	169
CKD (OR)	LDL-C & HDL-C & TG independent	1.09 (0.91; 1.32)	0.348	IVW	< 0.001	1.1×10 ²	242
IBD (OR)	Total	1.11 (1.04; 1.18)	0.002	IVW	< 0.001	9.0×10 ²	109
IBD (OR)	LDL-C independent	0.20 (0.12; 0.34)	< 0.001	MR Egger	0.036	1.4×10 ¹	133
IBD (OR)	HDL-C independent	1.12 (1.05; 1.20)	< 0.001	IVW	< 0.001	9.0×10 ²	182
IBD (OR)	TG independent	1.20 (1.09; 1.32)	< 0.001	MR Egger	< 0.001	4.2×10 ²	168
IBD (OR)	LDL-C & HDL-C & TG independent	0.46 (0.33; 0.64)	< 0.001	IVW	< 0.001	3.6×10 ¹	245
UC (OR)	Total	1.37 (1.15; 1.63)	< 0.001	MR Egger	0.170	1.3×10 ²	117
UC (OR)	LDL-C independent	0.30 (0.15; 0.59)	< 0.001	MR Egger	0.323	8.4	134
UC (OR)	HDL-C independent	1.07 (0.98; 1.15)	0.121	IVW	< 0.001	6.0×10 ²	188
UC (OR)	TG independent	1.09 (1.00; 1.19)	0.051	IVW	< 0.001	4.9×10 ²	173
UC (OR)	LDL-C & HDL-C & TG independent	0.38 (0.25; 0.57)	< 0.001	IVW	0.011	2.3×10 ¹	248
CD (OR)	Total	1.04 (0.86; 1.25)	0.698	MR Egger	0.002	1.1×10 ²	111
CD (OR)	LDL-C independent	0.25 (0.12; 0.51)	< 0.001	IVW	0.160	7.6	136
CD (OR)	HDL-C independent	1.14 (1.04; 1.24)	0.005	IVW	0.033	4.9×10 ²	184
CD (OR)	TG independent	1.11 (1.01; 1.23)	0.032	IVW	< 0.001	4.0×10 ²	171
CD (OR)	LDL-C & HDL-C & TG independent	0.53 (0.33; 0.86)	0.010	IVW	0.067	1.7×10 ¹	248
Arthritis (OR)	Total	0.93 (0.86; 1.02)	0.123	IVW	0.008	5.1×10 ²	91
Arthritis (OR)	LDL-C independent	0.67 (0.34; 1.33)	0.249	IVW	0.014	8.1	107
Arthritis (OR)	HDL-C independent	0.96 (0.89; 1.04)	0.351	IVW	0.042	5.8×10 ²	151
Arthritis (OR)	TG independent	0.96 (0.87; 1.07)	0.458	IVW	0.040	3.6×10 ²	137
Arthritis (OR)	LDL-C & HDL-C & TG independent	0.97 (0.61; 1.55)	0.915	IVW	0.084	1.8×10 ¹	195
ALS (OR)	Total	1.10 (1.04; 1.17)	0.002	IVW	0.368	9.8×10 ²	114

Table S6: (Multivariable) Mendelian randomization effect estimates for one standard deviation change in LDL-C (*continued*)

Outcome	Effect type	Point estimate (95%CI)	P-value	Estimator	Heterogeneity P-value	Precision	No. variants
ALS (OR)	LDL-C independent	0.87 (0.52; 1.44)	0.578	IVW	0.367	1.5×10 ¹	139
ALS (OR)	HDL-C independent	1.06 (1.00; 1.13)	0.053	IVW	0.543	1.1×10 ³	187
ALS (OR)	TG independent	1.05 (0.97; 1.13)	0.192	IVW	0.079	6.7×10 ²	168
ALS (OR)	LDL-C & HDL-C & TG independent	0.76 (0.53; 1.08)	0.122	IVW	0.083	3.1×10 ¹	250
MS (OR)	Total	1.08 (0.95; 1.22)	0.264	IVW	0.165	2.3×10 ²	25
MS (OR)	LDL-C independent	1.73 (0.84; 3.59)	0.138	IVW	0.296	7.3	24
MS (OR)	HDL-C independent	1.09 (0.97; 1.23)	0.135	IVW	0.016	2.9×10 ²	33
MS (OR)	TG independent	1.09 (0.95; 1.26)	0.229	IVW	0.095	1.9×10 ²	37
MS (OR)	LDL-C & HDL-C & TG independent	1.09 (0.52; 2.28)	0.814	MR Egger	0.005	7.1	40
Alzheimer (OR)	Total	1.06 (1.04; 1.08)	< 0.001	MR Egger	< 0.001	7.9×10 ³	90
Alzheimer (OR)	LDL-C independent	0.75 (0.67; 0.83)	< 0.001	MR Egger	< 0.001	3.5×10 ²	96
Alzheimer (OR)	HDL-C independent	1.02 (1.01; 1.03)	< 0.001	IVW	< 0.001	3.5×10 ⁴	153
Alzheimer (OR)	TG independent	1.03 (1.02; 1.04)	< 0.001	IVW	< 0.001	2.5×10 ⁴	133
Alzheimer (OR)	LDL-C & HDL-C & TG independent	0.98 (0.93; 1.04)	0.573	MR Egger	< 0.001	1.2×10 ³	208
Parkinson (OR)	Total	0.92 (0.86; 0.99)	0.025	IVW	0.012	8.1×10 ²	112
Parkinson (OR)	LDL-C independent	2.28 (1.34; 3.88)	0.002	IVW	0.209	1.4×10 ¹	134
Parkinson (OR)	HDL-C independent	0.93 (0.87; 1.00)	0.046	IVW	0.018	8.4×10 ²	181
Parkinson (OR)	TG independent	0.92 (0.85; 1.00)	0.056	IVW	< 0.001	5.9×10 ²	168
Parkinson (OR)	LDL-C & HDL-C & TG independent	1.81 (1.25; 2.62)	0.002	IVW	0.009	2.8×10 ¹	239
Pancreatic cancer (OR)	Total	1.04 (0.67; 1.61)	0.859	MR Egger	0.080	2.0×10 ¹	115
Pancreatic cancer (OR)	LDL-C independent	0.12 (0.02; 0.58)	0.009	MR Egger	0.004	1.5	140
Pancreatic cancer (OR)	HDL-C independent	1.01 (0.84; 1.23)	0.884	IVW	< 0.001	1.0×10 ²	187
Pancreatic cancer (OR)	TG independent	1.30 (1.01; 1.68)	0.041	IVW	0.056	5.9×10 ¹	172
Pancreatic cancer (OR)	LDL-C & HDL-C & TG independent	0.92 (0.32; 2.69)	0.886	IVW	< 0.001	3.4	247
Colon cancer (OR)	Total	1.04 (0.85; 1.26)	0.722	MR Egger	0.068	1.0×10 ²	115
Colon cancer (OR)	LDL-C independent	1.51 (0.76; 3.00)	0.235	MR Egger	0.024	8.2	140
Colon cancer (OR)	HDL-C independent	1.12 (1.04; 1.22)	0.005	IVW	0.002	5.9×10 ²	188
Colon cancer (OR)	TG independent	1.10 (0.99; 1.21)	0.063	IVW	0.002	4.0×10 ²	172
Colon cancer (OR)	LDL-C & HDL-C & TG independent	1.33 (0.86; 2.06)	0.202	IVW	< 0.001	2.0×10 ¹	251
Rectal cancer (OR)	Total	1.15 (1.03; 1.29)	0.016	IVW	0.823	2.9×10 ²	114
Rectal cancer (OR)	LDL-C independent	0.58 (0.23; 1.44)	0.237	MR Egger	0.792	4.6	139
Rectal cancer (OR)	HDL-C independent	1.19 (1.07; 1.33)	0.002	IVW	0.477	3.3×10 ²	186
Rectal cancer (OR)	TG independent	1.10 (0.97; 1.26)	0.136	IVW	0.621	2.3×10 ²	174
Rectal cancer (OR)	LDL-C & HDL-C & TG independent	0.72 (0.40; 1.30)	0.271	IVW	0.481	1.1×10 ¹	249
Melanoma (OR)	Total	0.97 (0.90; 1.04)	0.341	IVW	0.155	8.2×10 ²	115
Melanoma (OR)	LDL-C independent	1.43 (0.85; 2.39)	0.177	IVW	0.007	1.4×10 ¹	140
Melanoma (OR)	HDL-C independent	0.98 (0.92; 1.04)	0.514	IVW	0.004	1.0×10 ³	185
Melanoma (OR)	TG independent	0.96 (0.88; 1.03)	0.265	IVW	0.074	6.1×10 ²	172
Melanoma (OR)	LDL-C & HDL-C & TG independent	1.35 (0.96; 1.88)	0.082	IVW	< 0.001	3.4×10 ¹	249

Table S6: (Multivariable) Mendelian randomization effect estimates for one standard deviation change in LDL-C (*continued*)

Outcome	Effect type	Point estimate (95%CI)	P-value	Estimator	Heterogeneity P-value	Precision	No. variants
Lung cancer (OR)	Total	0.83 (0.75; 0.92)	< 0.001	IVW	0.338	3.4×10 ²	115
Lung cancer (OR)	LDL-C independent	0.80 (0.34; 1.87)	0.608	IVW	0.190	5.3	141
Lung cancer (OR)	HDL-C independent	0.85 (0.76; 0.94)	0.002	IVW	0.100	3.3×10 ²	188
Lung cancer (OR)	TG independent	0.84 (0.74; 0.95)	0.006	IVW	0.185	2.4×10 ²	172
Lung cancer (OR)	LDL-C & HDL-C & TG independent	0.97 (0.54; 1.73)	0.908	IVW	0.062	1.1×10 ¹	251

Table S7: (Multivariable) Mendelian randomization effect estimates for one standard deviation change in Rem-chol

Outcome	Effect type	Point estimate (95%CI)	P-value	Estimator	Heterogeneity P-value	Precision	No. variants
CHD (OR)	Total	1.67 (1.57; 1.79)	< 0.001	IVW	< 0.001	9.0×10 ²	14
CHD (OR)	LDL-C independent	1.43 (1.28; 1.58)	< 0.001	IVW	< 0.001	3.5×10 ²	34
CHD (OR)	HDL-C independent	1.45 (1.36; 1.54)	< 0.001	IVW	< 0.001	9.3×10 ²	32
CHD (OR)	TG independent	1.44 (1.28; 1.62)	< 0.001	IVW	< 0.001	2.8×10 ²	25
CHD (OR)	LDL-C & HDL-C & TG independent	1.04 (0.91; 1.20)	0.534	IVW	< 0.001	2.0×10 ²	55
HF (OR)	Total	1.11 (1.06; 1.16)	< 0.001	IVW	< 0.001	2.0×10 ³	24
HF (OR)	LDL-C independent	1.12 (1.04; 1.21)	0.002	IVW	< 0.001	7.2×10 ²	90
HF (OR)	HDL-C independent	1.05 (0.99; 1.11)	0.131	MR Egger	< 0.001	1.1×10 ³	92
HF (OR)	TG independent	0.94 (0.87; 1.02)	0.162	MR Egger	< 0.001	5.4×10 ²	71
HF (OR)	LDL-C & HDL-C & TG independent	1.09 (1.02; 1.16)	0.014	IVW	< 0.001	8.6×10 ²	184
AF (OR)	Total	1.01 (0.97; 1.05)	0.588	IVW	0.287	2.2×10 ³	24
AF (OR)	LDL-C independent	1.06 (1.00; 1.13)	0.050	IVW	0.004	1.1×10 ³	95
AF (OR)	HDL-C independent	1.02 (0.98; 1.06)	0.265	IVW	0.102	2.7×10 ³	94
AF (OR)	TG independent	1.03 (0.96; 1.10)	0.410	MR Egger	0.006	8.4×10 ²	77
AF (OR)	LDL-C & HDL-C & TG independent	1.07 (1.01; 1.13)	0.015	IVW	< 0.001	1.2×10 ³	191
Any stroke (OR)	Total	1.23 (1.04; 1.45)	0.014	MR Egger	0.254	1.4×10 ²	25
Any stroke (OR)	LDL-C independent	1.08 (0.99; 1.18)	0.089	IVW	0.004	4.8×10 ²	89
Any stroke (OR)	HDL-C independent	1.03 (0.98; 1.08)	0.241	IVW	< 0.001	1.6×10 ³	94
Any stroke (OR)	TG independent	1.07 (0.96; 1.19)	0.200	MR Egger	0.130	3.4×10 ²	77
Any stroke (OR)	LDL-C & HDL-C & TG independent	1.00 (0.93; 1.09)	0.952	IVW	< 0.001	6.1×10 ²	190
Any ischemic stroke (OR)	Total	1.19 (1.00; 1.42)	0.044	MR Egger	0.379	1.3×10 ²	25
Any ischemic stroke (OR)	LDL-C independent	1.03 (0.94; 1.14)	0.485	IVW	0.014	4.2×10 ²	88
Any ischemic stroke (OR)	HDL-C independent	1.04 (0.98; 1.09)	0.191	IVW	< 0.001	1.4×10 ³	95
Any ischemic stroke (OR)	TG independent	1.07 (0.96; 1.19)	0.243	MR Egger	0.712	3.4×10 ²	76
Any ischemic stroke (OR)	LDL-C & HDL-C & TG independent	0.98 (0.90; 1.07)	0.719	IVW	0.005	5.2×10 ²	189
Large artery stroke (OR)	Total	1.20 (1.03; 1.39)	0.020	IVW	0.221	1.7×10 ²	25
Large artery stroke (OR)	LDL-C independent	1.09 (0.86; 1.38)	0.473	IVW	< 0.001	6.9×10 ¹	90
Large artery stroke (OR)	HDL-C independent	1.09 (0.95; 1.24)	0.218	IVW	0.003	2.2×10 ²	94
Large artery stroke (OR)	TG independent	1.35 (1.02; 1.77)	0.035	IVW	0.069	5.0×10 ¹	77

Table S7: (Multivariable) Mendelian randomization effect estimates for one standard deviation change in Rem-cholesterol (*continued*)

Outcome	Effect type	Point estimate (95%CI)	P-value	Estimator	Heterogeneity P-value	Precision	No. variants
Large artery stroke (OR)	LDL-C & HDL-C & TG independent	0.76 (0.61; 0.93)	0.010	IVW	0.012	8.5×10 ¹	191
Cardioembolic stroke (OR)	Total	0.99 (0.89; 1.10)	0.876	IVW	0.652	3.3×10 ²	25
Cardioembolic stroke (OR)	LDL-C independent	1.09 (0.91; 1.30)	0.335	IVW	0.006	1.2×10 ²	91
Cardioembolic stroke (OR)	HDL-C independent	0.99 (0.90; 1.10)	0.920	IVW	0.735	3.7×10 ²	95
Cardioembolic stroke (OR)	TG independent	0.94 (0.78; 1.14)	0.544	IVW	0.730	1.1×10 ²	78
Cardioembolic stroke (OR)	LDL-C & HDL-C & TG independent	0.98 (0.83; 1.16)	0.782	IVW	0.008	1.4×10 ²	191
Small vessel stroke (OR)	Total	1.05 (0.92; 1.19)	0.460	IVW	0.842	2.4×10 ²	25
Small vessel stroke (OR)	LDL-C independent	1.24 (0.98; 1.57)	0.069	IVW	0.142	7.0×10 ¹	92
Small vessel stroke (OR)	HDL-C independent	0.96 (0.84; 1.09)	0.501	IVW	0.186	2.3×10 ²	95
Small vessel stroke (OR)	TG independent	0.85 (0.67; 1.08)	0.189	MR Egger	0.026	6.8×10 ¹	78
Small vessel stroke (OR)	LDL-C & HDL-C & TG independent	1.10 (0.90; 1.34)	0.357	IVW	0.002	9.9×10 ¹	193
cIMT (mm)	Total	0.01 (0.00; 0.01)	0.003	IVW	< 0.001	2.5×10 ⁵	23
cIMT (mm)	LDL-C independent	-0.01 (-0.01; 0.00)	0.096	IVW	0.007	1.0×10 ⁵	93
cIMT (mm)	HDL-C independent	0.00 (0.00; 0.01)	0.012	IVW	< 0.001	2.7×10 ⁵	93
cIMT (mm)	TG independent	0.02 (0.01; 0.02)	< 0.001	IVW	0.002	8.8×10 ⁴	79
cIMT (mm)	LDL-C & HDL-C & TG independent	-0.00 (-0.01; 0.01)	0.676	MR Egger	< 0.001	8.9×10 ⁴	194
Carotid plaque (OR)	Total	1.34 (1.23; 1.47)	< 0.001	IVW	0.016	4.5×10 ²	24
Carotid plaque (OR)	LDL-C independent	1.12 (0.97; 1.29)	0.110	IVW	0.031	1.9×10 ²	93
Carotid plaque (OR)	HDL-C independent	1.30 (1.18; 1.42)	< 0.001	IVW	0.010	4.7×10 ²	92
Carotid plaque (OR)	TG independent	1.56 (1.32; 1.83)	< 0.001	IVW	0.042	1.5×10 ²	75
Carotid plaque (OR)	LDL-C & HDL-C & TG independent	1.18 (1.02; 1.36)	0.022	IVW	0.012	1.9×10 ²	189
Glucose (mmol/l)	Total	-0.00 (-0.02; 0.01)	0.781	IVW	0.040	1.5×10 ⁴	25
Glucose (mmol/l)	LDL-C independent	0.00 (-0.03; 0.03)	0.853	IVW	0.060	4.5×10 ³	87
Glucose (mmol/l)	HDL-C independent	0.01 (-0.00; 0.03)	0.180	IVW	< 0.001	1.7×10 ⁴	89
Glucose (mmol/l)	TG independent	-0.03 (-0.06; -0.00)	0.028	IVW	< 0.001	5.2×10 ³	73
Glucose (mmol/l)	LDL-C & HDL-C & TG independent	0.00 (-0.02; 0.03)	0.736	IVW	< 0.001	6.3×10 ³	178
HbA1c (mmol/mol)	Total	0.08 (-0.19; 0.36)	0.545	MR Egger	< 0.001	5.2×10 ¹	21
HbA1c (mmol/mol)	LDL-C independent	0.02 (-0.11; 0.16)	0.727	IVW	< 0.001	2.1×10 ²	85
HbA1c (mmol/mol)	HDL-C independent	-0.03 (-0.11; 0.05)	0.430	IVW	< 0.001	6.0×10 ²	85
HbA1c (mmol/mol)	TG independent	-0.19 (-0.34; -0.05)	0.008	IVW	< 0.001	1.9×10 ²	69
HbA1c (mmol/mol)	LDL-C & HDL-C & TG independent	-0.00 (-0.13; 0.13)	0.987	IVW	< 0.001	2.3×10 ²	175
T2DM (OR)	Total	0.97 (0.94; 1.01)	0.166	IVW	0.007	2.9×10 ³	22
T2DM (OR)	LDL-C independent	1.12 (1.06; 1.18)	< 0.001	MR Egger	< 0.001	1.3×10 ³	83
T2DM (OR)	HDL-C independent	1.02 (0.99; 1.05)	0.243	IVW	< 0.001	3.5×10 ³	84
T2DM (OR)	TG independent	0.87 (0.81; 0.93)	< 0.001	IVW	< 0.001	8.5×10 ²	57
T2DM (OR)	LDL-C & HDL-C & TG independent	1.00 (0.95; 1.06)	0.939	IVW	< 0.001	1.3×10 ³	165
CRP (mg/L)	Total	-0.47 (-0.78; -0.16)	0.003	MR Egger	< 0.001	4.0×10 ¹	14
CRP (mg/L)	LDL-C independent	0.12 (0.01; 0.23)	0.030	IVW	< 0.001	3.2×10 ²	65
CRP (mg/L)	HDL-C independent	-0.00 (-0.09; 0.08)	0.910	MR Egger	0.005	5.5×10 ²	82

Table S7: (Multivariable) Mendelian randomization effect estimates for one standard deviation change in Rem-cholesterol (*continued*)

Outcome	Effect type	Point estimate (95%CI)	P-value	Estimator	Heterogeneity P-value	Precision	No. variants
CRP (mg/L)	TG independent	-0.19 (-0.30; -0.08)	< 0.001	IVW	< 0.001	3.1×10 ²	61
CRP (mg/L)	LDL-C & HDL-C & TG independent	0.10 (0.01; 0.19)	0.031	IVW	< 0.001	4.5×10 ²	165
SBP (mmHg)	Total	1.70 (1.06; 2.34)	< 0.001	MR Egger	0.106	9.3	21
SBP (mmHg)	LDL-C independent	0.81 (0.54; 1.09)	< 0.001	IVW	< 0.001	5.1×10 ¹	79
SBP (mmHg)	HDL-C independent	0.52 (0.36; 0.69)	< 0.001	IVW	< 0.001	1.3×10 ²	84
SBP (mmHg)	TG independent	0.62 (0.32; 0.92)	< 0.001	IVW	0.006	4.2×10 ¹	66
SBP (mmHg)	LDL-C & HDL-C & TG independent	0.39 (0.12; 0.65)	0.005	MR Egger	< 0.001	5.3×10 ¹	171
DBP (mmHg)	Total	0.26 (0.16; 0.37)	< 0.001	IVW	< 0.001	3.5×10 ²	20
DBP (mmHg)	LDL-C independent	0.15 (-0.02; 0.31)	0.078	IVW	< 0.001	1.4×10 ²	76
DBP (mmHg)	HDL-C independent	0.04 (-0.06; 0.13)	0.451	IVW	< 0.001	4.2×10 ²	81
DBP (mmHg)	TG independent	-0.12 (-0.31; 0.06)	0.198	MR Egger	< 0.001	1.1×10 ²	64
DBP (mmHg)	LDL-C & HDL-C & TG independent	-0.08 (-0.22; 0.07)	0.291	IVW	< 0.001	1.9×10 ²	163
PBL (OR)	Total	1.03 (0.36; 2.95)	0.963	MR Egger	0.004	3.4	17
PBL (OR)	LDL-C independent	0.87 (0.63; 1.19)	0.367	IVW	0.002	3.9×10 ¹	55
PBL (OR)	HDL-C independent	1.01 (0.83; 1.23)	0.908	IVW	0.005	9.9×10 ¹	58
PBL (OR)	TG independent	0.69 (0.47; 1.02)	0.064	IVW	0.019	2.6×10 ¹	46
PBL (OR)	LDL-C & HDL-C & TG independent	0.80 (0.56; 1.15)	0.226	IVW	0.003	3.0×10 ¹	112
BUN (mg/dl)	Total	-0.00 (-0.01; 0.00)	0.168	IVW	< 0.001	1.6×10 ⁵	24
BUN (mg/dl)	LDL-C independent	-0.00 (-0.01; 0.01)	0.859	IVW	< 0.001	7.0×10 ⁴	89
BUN (mg/dl)	HDL-C independent	-0.00 (-0.01; 0.00)	0.555	IVW	< 0.001	1.7×10 ⁵	89
BUN (mg/dl)	TG independent	-0.01 (-0.02; -0.00)	0.025	IVW	< 0.001	5.8×10 ⁴	76
BUN (mg/dl)	LDL-C & HDL-C & TG independent	-0.01 (-0.01; 0.00)	0.159	IVW	< 0.001	6.9×10 ⁴	185
eGFR (SD of log(eGFR))	Total	0.00 (-0.00; 0.00)	0.503	IVW	< 0.001	9.9×10 ⁵	23
eGFR (SD of log(eGFR))	LDL-C independent	0.00 (-0.00; 0.01)	0.103	MR Egger	< 0.001	4.0×10 ⁵	87
eGFR (SD of log(eGFR))	HDL-C independent	-0.00 (-0.00; 0.00)	0.244	IVW	< 0.001	1.1×10 ⁶	89
eGFR (SD of log(eGFR))	TG independent	0.00 (0.00; 0.01)	0.011	IVW	< 0.001	2.9×10 ⁵	68
eGFR (SD of log(eGFR))	LDL-C & HDL-C & TG independent	0.00 (0.00; 0.01)	0.013	MR Egger	< 0.001	3.6×10 ⁵	178
CKD (OR)	Total	1.00 (0.95; 1.05)	0.994	IVW	0.040	1.5×10 ³	25
CKD (OR)	LDL-C independent	0.98 (0.91; 1.07)	0.700	IVW	0.009	5.9×10 ²	92
CKD (OR)	HDL-C independent	1.01 (0.94; 1.08)	0.838	MR Egger	0.032	8.4×10 ²	92
CKD (OR)	TG independent	0.92 (0.84; 1.01)	0.087	IVW	< 0.001	4.6×10 ²	76
CKD (OR)	LDL-C & HDL-C & TG independent	1.02 (0.94; 1.11)	0.571	IVW	< 0.001	6.0×10 ²	188
IBD (OR)	Total	0.97 (0.88; 1.06)	0.460	IVW	0.009	4.5×10 ²	25
IBD (OR)	LDL-C independent	0.92 (0.79; 1.06)	0.224	IVW	0.012	1.9×10 ²	93
IBD (OR)	HDL-C independent	0.97 (0.89; 1.05)	0.429	IVW	0.004	5.5×10 ²	95
IBD (OR)	TG independent	1.07 (0.91; 1.27)	0.419	IVW	< 0.001	1.4×10 ²	77
IBD (OR)	LDL-C & HDL-C & TG independent	0.93 (0.80; 1.07)	0.292	IVW	< 0.001	1.8×10 ²	190
UC (OR)	Total	1.04 (0.92; 1.18)	0.520	IVW	0.772	2.5×10 ²	24
UC (OR)	LDL-C independent	0.98 (0.80; 1.21)	0.863	MR Egger	0.095	9.1×10 ¹	94

Table S7: (Multivariable) Mendelian randomization effect estimates for one standard deviation change in Rem-cholesterol (*continued*)

Outcome	Effect type	Point estimate (95%CI)	P-value	Estimator	Heterogeneity P-value	Precision	No. variants
UC (OR)	HDL-C independent	0.99 (0.89; 1.10)	0.813	IVW	0.008	3.5×10^2	96
UC (OR)	TG independent	1.04 (0.84; 1.28)	0.748	IVW	0.005	8.7×10^1	78
UC (OR)	LDL-C & HDL-C & TG independent	0.88 (0.73; 1.05)	0.151	IVW	< 0.001	1.2×10^2	192
CD (OR)	Total	1.00 (0.88; 1.14)	0.967	IVW	0.009	2.4×10^2	25
CD (OR)	LDL-C independent	0.91 (0.74; 1.12)	0.382	IVW	0.384	9.2×10^1	92
CD (OR)	HDL-C independent	1.02 (0.89; 1.16)	0.796	IVW	0.135	2.3×10^2	94
CD (OR)	TG independent	1.04 (0.83; 1.30)	0.762	IVW	0.003	7.5×10^1	78
CD (OR)	LDL-C & HDL-C & TG independent	1.06 (0.87; 1.29)	0.582	IVW	0.049	9.5×10^1	189
Arthritis (OR)	Total	1.02 (0.89; 1.17)	0.782	IVW	0.081	2.1×10^2	23
Arthritis (OR)	LDL-C independent	1.10 (0.92; 1.31)	0.302	MR Egger	0.013	1.2×10^2	82
Arthritis (OR)	HDL-C independent	1.05 (0.94; 1.19)	0.368	IVW	0.375	2.8×10^2	80
Arthritis (OR)	TG independent	1.14 (0.94; 1.39)	0.184	IVW	0.267	9.9×10^1	71
Arthritis (OR)	LDL-C & HDL-C & TG independent	1.14 (0.95; 1.37)	0.170	MR Egger	0.035	1.1×10^2	167
ALS (OR)	Total	1.12 (1.02; 1.23)	0.022	IVW	0.683	4.3×10^2	25
ALS (OR)	LDL-C independent	0.94 (0.81; 1.09)	0.431	MR Egger	0.517	1.7×10^2	94
ALS (OR)	HDL-C independent	1.02 (0.93; 1.11)	0.666	IVW	0.662	4.9×10^2	95
ALS (OR)	TG independent	1.12 (0.93; 1.35)	0.234	IVW	0.104	1.1×10^2	75
ALS (OR)	LDL-C & HDL-C & TG independent	0.83 (0.72; 0.96)	0.013	IVW	0.471	1.8×10^2	188
MS (OR)	Total	0.93 (0.80; 1.07)	0.320	IVW	0.669	1.8×10^2	9
MS (OR)	LDL-C independent	0.66 (0.49; 0.90)	0.008	MR Egger	0.309	4.0×10^1	24
MS (OR)	HDL-C independent	0.92 (0.79; 1.08)	0.320	IVW	0.133	1.5×10^2	21
MS (OR)	TG independent	1.12 (0.86; 1.48)	0.397	IVW	0.941	5.2×10^1	19
MS (OR)	LDL-C & HDL-C & TG independent	0.91 (0.63; 1.30)	0.592	IVW	0.007	3.0×10^1	38
Alzheimer (OR)	Total	0.99 (0.89; 1.10)	0.854	MR Egger	0.220	3.6×10^2	15
Alzheimer (OR)	LDL-C independent	0.98 (0.94; 1.01)	0.205	IVW	< 0.001	3.1×10^3	52
Alzheimer (OR)	HDL-C independent	1.00 (0.98; 1.01)	0.865	IVW	0.434	2.0×10^4	83
Alzheimer (OR)	TG independent	1.02 (1.00; 1.05)	0.105	IVW	0.177	5.6×10^3	69
Alzheimer (OR)	LDL-C & HDL-C & TG independent	0.99 (0.97; 1.02)	0.650	MR Egger	< 0.001	4.9×10^3	146
Parkinson (OR)	Total	1.37 (1.00; 1.88)	0.051	MR Egger	0.480	3.8×10^1	24
Parkinson (OR)	LDL-C independent	1.12 (0.95; 1.33)	0.183	IVW	0.076	1.3×10^2	92
Parkinson (OR)	HDL-C independent	1.09 (0.99; 1.20)	0.076	IVW	0.548	4.3×10^2	92
Parkinson (OR)	TG independent	1.24 (1.05; 1.47)	0.013	IVW	0.044	1.3×10^2	78
Parkinson (OR)	LDL-C & HDL-C & TG independent	1.23 (1.05; 1.44)	0.009	IVW	0.005	1.6×10^2	190
Pancreatic cancer (OR)	Total	0.89 (0.66; 1.20)	0.447	IVW	0.565	4.2×10^1	25
Pancreatic cancer (OR)	LDL-C independent	0.42 (0.26; 0.70)	< 0.001	IVW	0.003	1.5×10^1	91
Pancreatic cancer (OR)	HDL-C independent	0.71 (0.52; 0.96)	0.029	IVW	0.058	4.0×10^1	92
Pancreatic cancer (OR)	TG independent	1.17 (0.69; 1.99)	0.564	IVW	0.611	1.4×10^1	76
Pancreatic cancer (OR)	LDL-C & HDL-C & TG independent	0.54 (0.33; 0.88)	0.014	IVW	< 0.001	1.6×10^1	186
Colon cancer (OR)	Total	1.63 (1.06; 2.51)	0.026	MR Egger	0.301	2.1×10^1	24

Table S7: (Multivariable) Mendelian randomization effect estimates for one standard deviation change in Rem-cholesterol (*continued*)

Outcome	Effect type	Point estimate (95%CI)	P-value	Estimator	Heterogeneity P-value	Precision	No. variants
Colon cancer (OR)	LDL-C independent	1.02 (0.83; 1.27)	0.829	MR Egger	0.010	8.5×10 ¹	90
Colon cancer (OR)	HDL-C independent	1.03 (0.90; 1.18)	0.617	IVW	0.115	2.1×10 ²	92
Colon cancer (OR)	TG independent	1.26 (0.98; 1.62)	0.069	IVW	0.072	6.2×10 ¹	76
Colon cancer (OR)	LDL-C & HDL-C & TG independent	1.09 (0.88; 1.34)	0.424	IVW	0.010	9.0×10 ¹	185
Rectal cancer (OR)	Total	1.18 (1.00; 1.40)	0.055	IVW	0.469	1.3×10 ²	25
Rectal cancer (OR)	LDL-C independent	1.05 (0.80; 1.38)	0.722	IVW	0.908	5.3×10 ¹	91
Rectal cancer (OR)	HDL-C independent	1.11 (0.93; 1.33)	0.257	IVW	0.081	1.2×10 ²	91
Rectal cancer (OR)	TG independent	1.22 (0.91; 1.64)	0.190	IVW	0.591	4.3×10 ¹	76
Rectal cancer (OR)	LDL-C & HDL-C & TG independent	1.02 (0.77; 1.34)	0.903	IVW	0.375	5.0×10 ¹	186
Melanoma (OR)	Total	0.97 (0.88; 1.07)	0.504	IVW	0.007	4.1×10 ²	25
Melanoma (OR)	LDL-C independent	1.05 (0.90; 1.22)	0.547	IVW	0.048	1.7×10 ²	92
Melanoma (OR)	HDL-C independent	1.05 (0.96; 1.14)	0.329	IVW	0.002	4.8×10 ²	90
Melanoma (OR)	TG independent	0.78 (0.65; 0.92)	0.003	IVW	0.040	1.3×10 ²	75
Melanoma (OR)	LDL-C & HDL-C & TG independent	1.12 (0.96; 1.31)	0.152	IVW	< 0.001	1.6×10 ²	187
Lung cancer (OR)	Total	0.88 (0.76; 1.03)	0.118	IVW	0.675	1.6×10 ²	25
Lung cancer (OR)	LDL-C independent	1.01 (0.78; 1.30)	0.954	IVW	0.317	5.9×10 ¹	92
Lung cancer (OR)	HDL-C independent	0.92 (0.79; 1.06)	0.242	IVW	0.016	1.9×10 ²	93
Lung cancer (OR)	TG independent	0.67 (0.50; 0.90)	0.008	MR Egger	0.939	4.5×10 ¹	76
Lung cancer (OR)	LDL-C & HDL-C & TG independent	1.11 (0.85; 1.44)	0.449	IVW	0.275	5.5×10 ¹	187

Table S8: (Multivariable) Mendelian randomization effect estimates for one standard deviation change in TC

Outcome	Effect type	Point estimate (95%CI)	P-value	Estimator	Heterogeneity P-value	Precision	No. variants
CHD (OR)	Total	1.53 (1.43; 1.63)	< 0.001	IVW	< 0.001	9.2×10 ²	24
CHD (OR)	LDL-C independent	0.88 (0.62; 1.25)	0.491	IVW	< 0.001	3.2×10 ¹	32
CHD (OR)	HDL-C independent	1.62 (1.53; 1.72)	< 0.001	IVW	< 0.001	1.1×10 ³	46
CHD (OR)	TG independent	1.32 (1.20; 1.44)	< 0.001	MR Egger	< 0.001	4.7×10 ²	37
CHD (OR)	LDL-C & HDL-C & TG independent	1.73 (0.89; 3.37)	0.104	MR Egger	< 0.001	8.7	57
HF (OR)	Total	1.03 (1.00; 1.06)	0.090	IVW	< 0.001	4.0×10 ³	101
HF (OR)	LDL-C independent	1.03 (0.85; 1.24)	0.779	IVW	< 0.001	1.1×10 ²	126
HF (OR)	HDL-C independent	1.06 (1.02; 1.09)	< 0.001	IVW	< 0.001	3.7×10 ³	167
HF (OR)	TG independent	0.97 (0.92; 1.02)	0.253	MR Egger	< 0.001	1.5×10 ³	147
HF (OR)	LDL-C & HDL-C & TG independent	1.31 (1.01; 1.70)	0.042	IVW	< 0.001	5.7×10 ¹	226
AF (OR)	Total	1.01 (0.98; 1.04)	0.650	IVW	0.068	4.4×10 ³	111
AF (OR)	LDL-C independent	1.11 (0.95; 1.30)	0.204	IVW	0.005	1.5×10 ²	138
AF (OR)	HDL-C independent	1.01 (0.98; 1.04)	0.448	IVW	0.133	4.7×10 ³	181
AF (OR)	TG independent	0.98 (0.94; 1.03)	0.459	MR Egger	< 0.001	2.1×10 ³	164

Table S8: (Multivariable) Mendelian randomization effect estimates for one standard deviation change in TC (*continued*)

Outcome	Effect type	Point estimate (95%CI)	P-value	Estimator	Heterogeneity P-value	Precision	No. variants
AF (OR)	LDL-C & HDL-C & TG independent	1.26 (1.02; 1.57)	0.036	IVW	< 0.001	8.1×10 ¹	248
Any stroke (OR)	Total	1.06 (1.02; 1.10)	0.004	IVW	0.033	2.7×10 ³	103
Any stroke (OR)	LDL-C independent	0.93 (0.75; 1.15)	0.489	IVW	< 0.001	8.5×10 ¹	130
Any stroke (OR)	HDL-C independent	1.06 (1.01; 1.10)	0.007	IVW	< 0.001	2.5×10 ³	172
Any stroke (OR)	TG independent	1.02 (0.96; 1.08)	0.477	MR Egger	0.027	1.1×10 ³	155
Any stroke (OR)	LDL-C & HDL-C & TG independent	1.06 (0.78; 1.45)	0.699	MR Egger	< 0.001	4.0×10 ¹	235
Any ischemic stroke (OR)	Total	1.07 (1.02; 1.11)	0.002	IVW	0.009	2.3×10 ³	103
Any ischemic stroke (OR)	LDL-C independent	0.98 (0.78; 1.23)	0.860	IVW	0.004	7.2×10 ¹	128
Any ischemic stroke (OR)	HDL-C independent	1.05 (1.01; 1.10)	0.017	IVW	< 0.001	2.1×10 ³	172
Any ischemic stroke (OR)	TG independent	1.02 (0.95; 1.09)	0.611	MR Egger	0.052	7.7×10 ²	155
Any ischemic stroke (OR)	LDL-C & HDL-C & TG independent	1.06 (0.76; 1.48)	0.744	IVW	0.004	3.4×10 ¹	234
Large artery stroke (OR)	Total	0.76 (0.59; 0.97)	0.026	MR Egger	0.024	6.3×10 ¹	102
Large artery stroke (OR)	LDL-C independent	0.70 (0.38; 1.29)	0.256	MR Egger	< 0.001	1.0×10 ¹	127
Large artery stroke (OR)	HDL-C independent	1.06 (0.96; 1.18)	0.251	IVW	< 0.001	3.5×10 ²	174
Large artery stroke (OR)	TG independent	1.02 (0.87; 1.21)	0.772	MR Egger	< 0.001	1.4×10 ²	154
Large artery stroke (OR)	LDL-C & HDL-C & TG independent	0.50 (0.22; 1.16)	0.106	MR Egger	< 0.001	5.4	236
Cardioembolic stroke (OR)	Total	0.92 (0.75; 1.13)	0.452	MR Egger	0.121	9.3×10 ¹	106
Cardioembolic stroke (OR)	LDL-C independent	0.91 (0.57; 1.44)	0.677	MR Egger	0.040	1.8×10 ¹	129
Cardioembolic stroke (OR)	HDL-C independent	1.02 (0.94; 1.10)	0.705	IVW	0.026	6.1×10 ²	176
Cardioembolic stroke (OR)	TG independent	0.99 (0.90; 1.09)	0.857	IVW	0.234	4.1×10 ²	159
Cardioembolic stroke (OR)	LDL-C & HDL-C & TG independent	1.78 (0.92; 3.43)	0.085	IVW	0.027	8.9	236
Small vessel stroke (OR)	Total	0.97 (0.88; 1.07)	0.584	IVW	0.145	4.0×10 ²	106
Small vessel stroke (OR)	LDL-C independent	0.94 (0.55; 1.59)	0.804	IVW	0.022	1.4×10 ¹	133
Small vessel stroke (OR)	HDL-C independent	0.91 (0.78; 1.06)	0.236	MR Egger	0.115	1.7×10 ²	174
Small vessel stroke (OR)	TG independent	0.88 (0.75; 1.03)	0.112	MR Egger	0.057	1.5×10 ²	156
Small vessel stroke (OR)	LDL-C & HDL-C & TG independent	0.75 (0.35; 1.63)	0.469	IVW	< 0.001	6.4	239
cIMT (mm)	Total	0.01 (0.00; 0.02)	< 0.001	MR Egger	< 0.001	9.2×10 ⁴	105
cIMT (mm)	LDL-C independent	-0.04 (-0.05; -0.02)	< 0.001	IVW	0.002	1.5×10 ⁴	135
cIMT (mm)	HDL-C independent	0.02 (0.01; 0.02)	< 0.001	IVW	< 0.001	4.8×10 ⁵	176
cIMT (mm)	TG independent	0.02 (0.01; 0.02)	< 0.001	MR Egger	< 0.001	1.9×10 ⁵	158
cIMT (mm)	LDL-C & HDL-C & TG independent	0.02 (-0.01; 0.04)	0.215	IVW	< 0.001	6.8×10 ³	239
Carotid plaque (OR)	Total	1.44 (1.35; 1.55)	< 0.001	IVW	< 0.001	8.1×10 ²	99
Carotid plaque (OR)	LDL-C independent	0.69 (0.46; 1.02)	0.066	MR Egger	0.008	2.4×10 ¹	126
Carotid plaque (OR)	HDL-C independent	1.34 (1.20; 1.50)	< 0.001	MR Egger	0.002	3.0×10 ²	167
Carotid plaque (OR)	TG independent	1.45 (1.29; 1.64)	< 0.001	MR Egger	< 0.001	2.6×10 ²	145
Carotid plaque (OR)	LDL-C & HDL-C & TG independent	2.41 (1.35; 4.30)	0.003	MR Egger	0.017	1.1×10 ¹	228
Glucose (mmol/l)	Total	0.02 (-0.00; 0.05)	0.062	MR Egger	0.364	6.2×10 ³	102
Glucose (mmol/l)	LDL-C independent	0.04 (-0.02; 0.11)	0.210	MR Egger	< 0.001	9.0×10 ²	133
Glucose (mmol/l)	HDL-C independent	-0.00 (-0.01; 0.01)	0.518	IVW	< 0.001	3.8×10 ⁴	168

Table S8: (Multivariable) Mendelian randomization effect estimates for one standard deviation change in TC (*continued*)

Outcome	Effect type	Point estimate (95%CI)	P-value	Estimator	Heterogeneity P-value	Precision	No. variants
Glucose (mmol/l)	TG independent	-0.01 (-0.03; -0.00)	0.038	IVW	< 0.001	2.3×10 ⁴	157
Glucose (mmol/l)	LDL-C & HDL-C & TG independent	0.09 (-0.00; 0.19)	0.061	IVW	< 0.001	4.3×10 ²	229
HbA1c (mmol/mol)	Total	-0.11 (-0.16; -0.05)	< 0.001	IVW	< 0.001	1.3×10 ³	99
HbA1c (mmol/mol)	LDL-C independent	-0.54 (-0.90; -0.19)	0.003	IVW	< 0.001	3.0×10 ¹	127
HbA1c (mmol/mol)	HDL-C independent	-0.11 (-0.16; -0.06)	< 0.001	IVW	< 0.001	1.4×10 ³	164
HbA1c (mmol/mol)	TG independent	0.02 (-0.07; 0.10)	0.701	MR Egger	< 0.001	5.0×10 ²	153
HbA1c (mmol/mol)	LDL-C & HDL-C & TG independent	0.15 (-0.34; 0.64)	0.553	IVW	< 0.001	1.6×10 ¹	224
T2DM (OR)	Total	0.99 (0.94; 1.05)	0.778	MR Egger	< 0.001	1.2×10 ³	91
T2DM (OR)	LDL-C independent	1.10 (0.94; 1.29)	0.219	MR Egger	< 0.001	1.6×10 ²	118
T2DM (OR)	HDL-C independent	0.98 (0.95; 1.00)	0.075	IVW	< 0.001	5.5×10 ³	153
T2DM (OR)	TG independent	0.92 (0.89; 0.95)	< 0.001	IVW	< 0.001	3.5×10 ³	134
T2DM (OR)	LDL-C & HDL-C & TG independent	0.89 (0.71; 1.10)	0.283	IVW	< 0.001	7.9×10 ¹	209
CRP (mg/L)	Total	-0.03 (-0.07; 0.01)	0.137	IVW	< 0.001	2.2×10 ³	88
CRP (mg/L)	LDL-C independent	1.20 (0.94; 1.46)	< 0.001	MR Egger	< 0.001	5.7×10 ¹	118
CRP (mg/L)	HDL-C independent	-0.11 (-0.15; -0.07)	< 0.001	IVW	< 0.001	2.1×10 ³	148
CRP (mg/L)	TG independent	-0.14 (-0.20; -0.08)	< 0.001	MR Egger	< 0.001	9.2×10 ²	139
CRP (mg/L)	LDL-C & HDL-C & TG independent	0.89 (0.53; 1.24)	< 0.001	IVW	< 0.001	3.0×10 ¹	219
SBP (mmHg)	Total	0.55 (0.20; 0.90)	0.002	MR Egger	< 0.001	3.1×10 ¹	80
SBP (mmHg)	LDL-C independent	-0.07 (-0.84; 0.69)	0.853	IVW	< 0.001	6.6	106
SBP (mmHg)	HDL-C independent	0.71 (0.51; 0.91)	< 0.001	MR Egger	< 0.001	9.5×10 ¹	143
SBP (mmHg)	TG independent	0.14 (-0.02; 0.30)	0.093	IVW	< 0.001	1.5×10 ²	127
SBP (mmHg)	LDL-C & HDL-C & TG independent	0.35 (-0.69; 1.40)	0.509	IVW	< 0.001	3.5	193
DBP (mmHg)	Total	-0.00 (-0.08; 0.07)	0.948	IVW	< 0.001	7.0×10 ²	81
DBP (mmHg)	LDL-C independent	0.22 (-0.24; 0.67)	0.354	IVW	< 0.001	1.8×10 ¹	103
DBP (mmHg)	HDL-C independent	0.02 (-0.06; 0.10)	0.652	IVW	< 0.001	6.4×10 ²	138
DBP (mmHg)	TG independent	-0.19 (-0.28; -0.10)	< 0.001	IVW	< 0.001	4.4×10 ²	124
DBP (mmHg)	LDL-C & HDL-C & TG independent	-0.73 (-1.36; -0.11)	0.021	IVW	< 0.001	9.9	191
PBL (OR)	Total	1.09 (0.87; 1.37)	0.458	IVW	0.053	7.5×10 ¹	51
PBL (OR)	LDL-C independent	1.15 (0.59; 2.22)	0.686	IVW	0.016	8.8	64
PBL (OR)	HDL-C independent	1.16 (0.94; 1.43)	0.169	IVW	0.202	8.7×10 ¹	83
PBL (OR)	TG independent	1.64 (1.07; 2.53)	0.023	MR Egger	0.114	2.1×10 ¹	74
PBL (OR)	LDL-C & HDL-C & TG independent	0.41 (0.11; 1.62)	0.205	IVW	0.019	2.1	115
BUN (mg/dl)	Total	-0.01 (-0.02; 0.00)	0.055	MR Egger	0.007	5.1×10 ⁴	102
BUN (mg/dl)	LDL-C independent	0.02 (-0.00; 0.04)	0.119	IVW	< 0.001	9.1×10 ³	127
BUN (mg/dl)	HDL-C independent	0.00 (0.00; 0.01)	0.014	IVW	< 0.001	2.7×10 ⁵	165
BUN (mg/dl)	TG independent	0.00 (-0.00; 0.01)	0.293	MR Egger	< 0.001	1.1×10 ⁵	153
BUN (mg/dl)	LDL-C & HDL-C & TG independent	0.03 (-0.00; 0.06)	0.077	MR Egger	< 0.001	4.3×10 ³	229
eGFR (SD of log(eGFR))	Total	0.00 (-0.00; 0.01)	0.186	MR Egger	< 0.001	3.7×10 ⁵	95
eGFR (SD of log(eGFR))	LDL-C independent	0.00 (-0.01; 0.01)	0.704	IVW	< 0.001	5.4×10 ⁴	124

Table S8: (Multivariable) Mendelian randomization effect estimates for one standard deviation change in TC (*continued*)

Outcome	Effect type	Point estimate (95%CI)	P-value	Estimator	Heterogeneity P-value	Precision	No. variants
eGFR (SD of log(eGFR))	HDL-C independent	-0.00 (-0.00; 0.00)	0.800	IVW	< 0.001	1.9×10 ⁶	162
eGFR (SD of log(eGFR))	TG independent	-0.00 (-0.00; 0.00)	0.694	IVW	< 0.001	1.4×10 ⁶	146
eGFR (SD of log(eGFR))	LDL-C & HDL-C & TG independent	-0.01 (-0.02; 0.01)	0.263	IVW	< 0.001	2.8×10 ⁴	222
CKD (OR)	Total	0.96 (0.92; 1.00)	0.030	IVW	< 0.001	2.7×10 ³	104
CKD (OR)	LDL-C independent	0.77 (0.61; 0.95)	0.017	MR Egger	0.011	8.0×10 ¹	131
CKD (OR)	HDL-C independent	0.99 (0.95; 1.03)	0.495	IVW	0.005	2.7×10 ³	172
CKD (OR)	TG independent	0.99 (0.94; 1.06)	0.850	MR Egger	< 0.001	1.1×10 ³	157
CKD (OR)	LDL-C & HDL-C & TG independent	0.93 (0.68; 1.26)	0.624	IVW	< 0.001	4.0×10 ¹	236
IBD (OR)	Total	1.09 (1.02; 1.16)	0.010	IVW	< 0.001	8.8×10 ²	107
IBD (OR)	LDL-C independent	0.38 (0.26; 0.57)	< 0.001	IVW	0.011	2.5×10 ¹	134
IBD (OR)	HDL-C independent	1.22 (1.10; 1.35)	< 0.001	MR Egger	< 0.001	3.6×10 ²	175
IBD (OR)	TG independent	1.22 (1.10; 1.35)	< 0.001	MR Egger	< 0.001	3.5×10 ²	158
IBD (OR)	LDL-C & HDL-C & TG independent	0.35 (0.20; 0.60)	< 0.001	MR Egger	< 0.001	1.2×10 ¹	241
UC (OR)	Total	1.22 (1.01; 1.48)	0.036	MR Egger	0.010	1.1×10 ²	109
UC (OR)	LDL-C independent	0.39 (0.23; 0.65)	< 0.001	IVW	0.303	1.5×10 ¹	133
UC (OR)	HDL-C independent	1.06 (0.98; 1.16)	0.150	IVW	< 0.001	5.3×10 ²	178
UC (OR)	TG independent	1.09 (0.99; 1.20)	0.077	IVW	0.005	4.1×10 ²	163
UC (OR)	LDL-C & HDL-C & TG independent	0.27 (0.13; 0.55)	< 0.001	IVW	0.005	7.8	240
CD (OR)	Total	1.08 (0.99; 1.18)	0.089	IVW	0.019	4.7×10 ²	107
CD (OR)	LDL-C independent	0.69 (0.39; 1.21)	0.192	IVW	0.060	1.2×10 ¹	135
CD (OR)	HDL-C independent	1.14 (1.04; 1.25)	0.006	IVW	0.024	4.4×10 ²	176
CD (OR)	TG independent	1.12 (0.97; 1.30)	0.119	MR Egger	0.003	1.8×10 ²	160
CD (OR)	LDL-C & HDL-C & TG independent	0.38 (0.17; 0.87)	0.022	IVW	0.077	5.6	238
Arthritis (OR)	Total	1.05 (0.80; 1.38)	0.740	MR Egger	0.070	5.1×10 ¹	85
Arthritis (OR)	LDL-C independent	0.90 (0.51; 1.60)	0.719	IVW	0.061	1.2×10 ¹	108
Arthritis (OR)	HDL-C independent	0.90 (0.81; 0.99)	0.031	IVW	0.069	3.9×10 ²	143
Arthritis (OR)	TG independent	1.12 (0.96; 1.30)	0.156	MR Egger	0.044	1.6×10 ²	132
Arthritis (OR)	LDL-C & HDL-C & TG independent	0.61 (0.28; 1.35)	0.226	IVW	0.041	6.2	191
ALS (OR)	Total	1.12 (1.05; 1.20)	< 0.001	IVW	0.228	9.3×10 ²	107
ALS (OR)	LDL-C independent	0.98 (0.66; 1.46)	0.926	MR Egger	0.282	2.4×10 ¹	136
ALS (OR)	HDL-C independent	1.11 (1.05; 1.18)	< 0.001	IVW	0.336	1.0×10 ³	178
ALS (OR)	TG independent	1.07 (0.99; 1.17)	0.087	IVW	0.074	5.7×10 ²	159
ALS (OR)	LDL-C & HDL-C & TG independent	0.94 (0.53; 1.68)	0.839	IVW	0.178	1.1×10 ¹	239
MS (OR)	Total	1.01 (0.89; 1.15)	0.831	IVW	0.901	2.3×10 ²	21
MS (OR)	LDL-C independent	0.64 (0.28; 1.46)	0.288	MR Egger	0.250	5.6	23
MS (OR)	HDL-C independent	1.00 (0.88; 1.14)	0.974	IVW	0.038	2.3×10 ²	30
MS (OR)	TG independent	1.04 (0.90; 1.21)	0.576	IVW	0.980	1.7×10 ²	31
MS (OR)	LDL-C & HDL-C & TG independent	2.08 (0.65; 6.71)	0.218	MR Egger	0.005	2.8	41
Alzheimer (OR)	Total	1.00 (0.98; 1.03)	0.772	MR Egger	0.009	7.4×10 ³	88

Table S8: (Multivariable) Mendelian randomization effect estimates for one standard deviation change in TC (*continued*)

Outcome	Effect type	Point estimate (95%CI)	P-value	Estimator	Heterogeneity P-value	Precision	No. variants
Alzheimer (OR)	LDL-C independent	0.86 (0.81; 0.91)	< 0.001	IVW	< 0.001	1.1×10 ³	101
Alzheimer (OR)	HDL-C independent	1.02 (1.00; 1.03)	0.024	MR Egger	< 0.001	1.5×10 ⁴	144
Alzheimer (OR)	TG independent	1.02 (1.01; 1.04)	0.003	IVW	0.003	2.0×10 ⁴	129
Alzheimer (OR)	LDL-C & HDL-C & TG independent	0.96 (0.88; 1.05)	0.352	IVW	< 0.001	5.4×10 ²	199
Parkinson (OR)	Total	0.97 (0.80; 1.19)	0.787	MR Egger	0.081	9.6×10 ¹	103
Parkinson (OR)	LDL-C independent	1.45 (0.94; 2.24)	0.093	IVW	0.084	2.0×10 ¹	132
Parkinson (OR)	HDL-C independent	0.95 (0.84; 1.07)	0.404	MR Egger	0.034	2.7×10 ²	168
Parkinson (OR)	TG independent	0.98 (0.90; 1.08)	0.705	IVW	< 0.001	4.5×10 ²	158
Parkinson (OR)	LDL-C & HDL-C & TG independent	3.13 (1.64; 5.99)	< 0.001	IVW	0.004	9.1	233
Pancreatic cancer (OR)	Total	1.29 (1.04; 1.62)	0.023	IVW	0.104	7.8×10 ¹	109
Pancreatic cancer (OR)	LDL-C independent	0.96 (0.27; 3.36)	0.948	IVW	< 0.001	2.4	137
Pancreatic cancer (OR)	HDL-C independent	1.18 (0.96; 1.45)	0.119	IVW	0.002	8.9×10 ¹	176
Pancreatic cancer (OR)	TG independent	1.47 (1.12; 1.94)	0.005	IVW	0.062	5.1×10 ¹	165
Pancreatic cancer (OR)	LDL-C & HDL-C & TG independent	0.63 (0.10; 4.07)	0.629	IVW	< 0.001	1.1	238
Colon cancer (OR)	Total	1.11 (0.92; 1.34)	0.283	MR Egger	0.366	1.1×10 ²	109
Colon cancer (OR)	LDL-C independent	2.04 (1.16; 3.57)	0.013	IVW	0.010	1.2×10 ¹	136
Colon cancer (OR)	HDL-C independent	1.13 (1.03; 1.23)	0.008	IVW	0.021	5.0×10 ²	176
Colon cancer (OR)	TG independent	1.10 (0.99; 1.23)	0.083	IVW	0.024	3.3×10 ²	165
Colon cancer (OR)	LDL-C & HDL-C & TG independent	1.65 (0.76; 3.59)	0.204	IVW	< 0.001	6.4	240
Rectal cancer (OR)	Total	1.14 (0.89; 1.45)	0.300	MR Egger	0.807	6.6×10 ¹	110
Rectal cancer (OR)	LDL-C independent	0.32 (0.16; 0.65)	0.002	IVW	0.648	7.7	137
Rectal cancer (OR)	HDL-C independent	1.18 (0.99; 1.41)	0.066	MR Egger	0.692	1.2×10 ²	177
Rectal cancer (OR)	TG independent	1.04 (0.89; 1.20)	0.644	IVW	0.476	1.8×10 ²	165
Rectal cancer (OR)	LDL-C & HDL-C & TG independent	0.25 (0.09; 0.72)	0.010	IVW	0.689	3.4	236
Melanoma (OR)	Total	0.95 (0.82; 1.09)	0.452	MR Egger	0.037	1.9×10 ²	107
Melanoma (OR)	LDL-C independent	1.37 (0.91; 2.04)	0.129	MR Egger	0.206	2.4×10 ¹	139
Melanoma (OR)	HDL-C independent	0.98 (0.92; 1.05)	0.633	IVW	0.003	8.6×10 ²	173
Melanoma (OR)	TG independent	0.91 (0.84; 0.98)	0.016	IVW	< 0.001	5.9×10 ²	164
Melanoma (OR)	LDL-C & HDL-C & TG independent	1.26 (0.70; 2.25)	0.439	IVW	< 0.001	1.1×10 ¹	238
Lung cancer (OR)	Total	0.84 (0.65; 1.07)	0.158	MR Egger	0.190	6.1×10 ¹	108
Lung cancer (OR)	LDL-C independent	1.97 (1.02; 3.80)	0.044	MR Egger	0.073	8.8	140
Lung cancer (OR)	HDL-C independent	0.81 (0.69; 0.95)	0.012	MR Egger	0.169	1.4×10 ²	180
Lung cancer (OR)	TG independent	0.82 (0.69; 0.98)	0.033	MR Egger	0.104	1.2×10 ²	165
Lung cancer (OR)	LDL-C & HDL-C & TG independent	0.93 (0.35; 2.43)	0.878	IVW	0.018	4.2	241

Table S9: (Multivariable) Mendelian randomization effect estimates for one standard deviation change in Apo-B

Outcome	Effect type	Point estimate (95%CI)	P-value	Estimator	Heterogeneity P-value	Precision	No. variants
CHD (OR)	Total	1.45 (1.24; 1.68)	< 0.001	MR Egger	< 0.001	1.7×10 ²	29
CHD (OR)	LDL-C independent	1.87 (1.55; 2.25)	< 0.001	IVW	< 0.001	1.1×10 ²	36
CHD (OR)	HDL-C independent	1.71 (1.56; 1.88)	< 0.001	MR Egger	< 0.001	4.3×10 ²	49
CHD (OR)	TG independent	1.56 (1.39; 1.74)	< 0.001	MR Egger	< 0.001	3.1×10 ²	39
CHD (OR)	LDL-C & HDL-C & TG independent	3.80 (1.96; 7.38)	< 0.001	IVW	< 0.001	8.7	59
HF (OR)	Total	1.04 (1.00; 1.07)	0.036	IVW	0.050	3.2×10 ³	92
HF (OR)	LDL-C independent	1.08 (0.95; 1.22)	0.241	IVW	< 0.001	2.4×10 ²	132
HF (OR)	HDL-C independent	1.06 (1.03; 1.10)	< 0.001	IVW	0.002	3.2×10 ³	162
HF (OR)	TG independent	0.98 (0.92; 1.04)	0.472	IVW	0.003	1.0×10 ³	127
HF (OR)	LDL-C & HDL-C & TG independent	1.89 (1.46; 2.43)	< 0.001	IVW	< 0.001	5.9×10 ¹	230
AF (OR)	Total	1.02 (0.99; 1.05)	0.288	IVW	0.148	4.0×10 ³	99
AF (OR)	LDL-C independent	0.97 (0.87; 1.08)	0.559	IVW	0.022	3.5×10 ²	144
AF (OR)	HDL-C independent	1.02 (0.99; 1.06)	0.137	IVW	0.088	4.1×10 ³	175
AF (OR)	TG independent	1.03 (0.98; 1.08)	0.304	IVW	0.003	1.4×10 ³	140
AF (OR)	LDL-C & HDL-C & TG independent	1.00 (0.81; 1.25)	0.978	IVW	< 0.001	8.0×10 ¹	251
Any stroke (OR)	Total	1.07 (1.02; 1.12)	0.003	IVW	0.127	2.0×10 ³	93
Any stroke (OR)	LDL-C independent	1.02 (0.88; 1.18)	0.799	IVW	< 0.001	1.8×10 ²	132
Any stroke (OR)	HDL-C independent	1.05 (1.01; 1.09)	0.011	IVW	0.002	2.5×10 ³	167
Any stroke (OR)	TG independent	1.07 (1.00; 1.16)	0.052	IVW	0.017	7.3×10 ²	133
Any stroke (OR)	LDL-C & HDL-C & TG independent	1.28 (0.94; 1.75)	0.121	IVW	< 0.001	4.0×10 ¹	239
Any ischemic stroke (OR)	Total	1.09 (1.04; 1.15)	< 0.001	IVW	0.157	1.7×10 ³	92
Any ischemic stroke (OR)	LDL-C independent	1.00 (0.85; 1.17)	0.972	IVW	0.002	1.5×10 ²	131
Any ischemic stroke (OR)	HDL-C independent	1.06 (1.02; 1.11)	0.004	IVW	< 0.001	2.2×10 ³	169
Any ischemic stroke (OR)	TG independent	1.05 (0.95; 1.15)	0.347	MR Egger	0.090	4.2×10 ²	135
Any ischemic stroke (OR)	LDL-C & HDL-C & TG independent	1.27 (0.90; 1.78)	0.171	IVW	< 0.001	3.3×10 ¹	237
Large artery stroke (OR)	Total	1.05 (0.94; 1.17)	0.371	IVW	0.005	3.2×10 ²	95
Large artery stroke (OR)	LDL-C independent	0.74 (0.51; 1.07)	0.114	MR Egger	< 0.001	2.8×10 ¹	138
Large artery stroke (OR)	HDL-C independent	0.92 (0.78; 1.07)	0.272	MR Egger	0.009	1.5×10 ²	170
Large artery stroke (OR)	TG independent	1.05 (0.86; 1.28)	0.638	IVW	0.002	9.9×10 ¹	135
Large artery stroke (OR)	LDL-C & HDL-C & TG independent	1.62 (0.69; 3.79)	0.269	IVW	< 0.001	5.3	240
Cardioembolic stroke (OR)	Total	1.04 (0.96; 1.13)	0.367	IVW	0.004	5.4×10 ²	95
Cardioembolic stroke (OR)	LDL-C independent	1.09 (0.80; 1.47)	0.601	IVW	< 0.001	4.1×10 ¹	134
Cardioembolic stroke (OR)	HDL-C independent	1.01 (0.93; 1.10)	0.772	IVW	0.006	5.8×10 ²	171
Cardioembolic stroke (OR)	TG independent	1.07 (0.92; 1.25)	0.366	IVW	0.009	1.6×10 ²	134
Cardioembolic stroke (OR)	LDL-C & HDL-C & TG independent	2.61 (1.33; 5.11)	0.005	IVW	0.008	8.5	237
Small vessel stroke (OR)	Total	0.84 (0.64; 1.10)	0.201	MR Egger	0.108	5.3×10 ¹	96
Small vessel stroke (OR)	LDL-C independent	0.98 (0.69; 1.38)	0.894	IVW	0.022	3.3×10 ¹	137
Small vessel stroke (OR)	HDL-C independent	0.99 (0.86; 1.14)	0.923	MR Egger	0.044	2.0×10 ²	173
Small vessel stroke (OR)	TG independent	0.73 (0.59; 0.90)	0.003	MR Egger	0.014	9.1×10 ¹	137

Table S9: (Multivariable) Mendelian randomization effect estimates for one standard deviation change in Apo-B (*continued*)

Outcome	Effect type	Point estimate (95%CI)	P-value	Estimator	Heterogeneity P-value	Precision	No. variants
Small vessel stroke (OR)	LDL-C & HDL-C & TG independent	0.84 (0.39; 1.84)	0.672	IVW	0.003	6.3	241
cIMT (mm)	Total	0.02 (0.01; 0.02)	< 0.001	IVW	< 0.001	4.2×10 ⁵	95
cIMT (mm)	LDL-C independent	-0.01 (-0.02; -0.00)	0.033	IVW	< 0.001	3.4×10 ⁴	138
cIMT (mm)	HDL-C independent	0.01 (0.01; 0.02)	< 0.001	IVW	< 0.001	4.3×10 ⁵	168
cIMT (mm)	TG independent	0.03 (0.02; 0.03)	< 0.001	IVW	0.008	1.4×10 ⁵	138
cIMT (mm)	LDL-C & HDL-C & TG independent	0.04 (0.02; 0.06)	< 0.001	IVW	< 0.001	6.9×10 ³	241
Carotid plaque (OR)	Total	1.35 (1.25; 1.46)	< 0.001	IVW	0.025	6.7×10 ²	89
Carotid plaque (OR)	LDL-C independent	0.99 (0.74; 1.32)	0.922	MR Egger	0.050	4.5×10 ¹	133
Carotid plaque (OR)	HDL-C independent	1.35 (1.25; 1.45)	< 0.001	IVW	0.003	7.3×10 ²	163
Carotid plaque (OR)	TG independent	1.40 (1.22; 1.60)	< 0.001	IVW	0.029	2.0×10 ²	125
Carotid plaque (OR)	LDL-C & HDL-C & TG independent	2.76 (1.54; 4.93)	< 0.001	IVW	0.006	1.1×10 ¹	231
Glucose (mmol/l)	Total	0.02 (-0.01; 0.06)	0.157	MR Egger	0.002	3.2×10 ³	90
Glucose (mmol/l)	LDL-C independent	-0.01 (-0.05; 0.04)	0.765	IVW	0.008	2.0×10 ³	134
Glucose (mmol/l)	HDL-C independent	-0.00 (-0.02; 0.01)	0.517	IVW	< 0.001	2.6×10 ⁴	159
Glucose (mmol/l)	TG independent	-0.02 (-0.04; 0.01)	0.163	IVW	< 0.001	8.3×10 ³	135
Glucose (mmol/l)	LDL-C & HDL-C & TG independent	-0.06 (-0.15; 0.03)	0.215	MR Egger	< 0.001	4.3×10 ²	236
HbA1c (mmol/mol)	Total	-0.13 (-0.19; -0.07)	< 0.001	IVW	< 0.001	9.4×10 ²	86
HbA1c (mmol/mol)	LDL-C independent	-0.28 (-0.50; -0.07)	0.011	IVW	< 0.001	8.1×10 ¹	135
HbA1c (mmol/mol)	HDL-C independent	-0.13 (-0.20; -0.07)	< 0.001	IVW	< 0.001	9.2×10 ²	151
HbA1c (mmol/mol)	TG independent	-0.10 (-0.21; 0.01)	0.078	IVW	< 0.001	3.1×10 ²	129
HbA1c (mmol/mol)	LDL-C & HDL-C & TG independent	-0.40 (-0.88; 0.09)	0.107	MR Egger	< 0.001	1.6×10 ¹	232
T2DM (OR)	Total	1.00 (0.93; 1.07)	0.987	MR Egger	< 0.001	7.8×10 ²	82
T2DM (OR)	LDL-C independent	1.05 (0.94; 1.16)	0.404	MR Egger	< 0.001	3.4×10 ²	122
T2DM (OR)	HDL-C independent	0.94 (0.92; 0.97)	< 0.001	IVW	< 0.001	5.0×10 ³	144
T2DM (OR)	TG independent	0.89 (0.85; 0.94)	< 0.001	IVW	< 0.001	1.4×10 ³	111
T2DM (OR)	LDL-C & HDL-C & TG independent	0.87 (0.72; 1.06)	0.176	IVW	< 0.001	9.8×10 ¹	212
CRP (mg/L)	Total	0.02 (-0.02; 0.07)	0.289	IVW	< 0.001	1.9×10 ³	83
CRP (mg/L)	LDL-C independent	0.59 (0.41; 0.76)	< 0.001	IVW	< 0.001	1.2×10 ²	116
CRP (mg/L)	HDL-C independent	0.06 (0.01; 0.11)	0.014	IVW	< 0.001	1.8×10 ³	144
CRP (mg/L)	TG independent	-0.19 (-0.29; -0.10)	< 0.001	MR Egger	< 0.001	4.0×10 ²	121
CRP (mg/L)	LDL-C & HDL-C & TG independent	0.70 (0.36; 1.04)	< 0.001	IVW	< 0.001	3.4×10 ¹	223
SBP (mmHg)	Total	0.45 (0.10; 0.81)	0.012	MR Egger	< 0.001	3.0×10 ¹	78
SBP (mmHg)	LDL-C independent	-0.36 (-0.89; 0.17)	0.180	IVW	< 0.001	1.4×10 ¹	107
SBP (mmHg)	HDL-C independent	0.39 (0.18; 0.61)	< 0.001	MR Egger	< 0.001	8.0×10 ¹	138
SBP (mmHg)	TG independent	0.14 (-0.10; 0.38)	0.256	IVW	< 0.001	6.5×10 ¹	113
SBP (mmHg)	LDL-C & HDL-C & TG independent	0.12 (-0.88; 1.11)	0.815	IVW	< 0.001	3.9	197
DBP (mmHg)	Total	0.03 (-0.06; 0.11)	0.526	IVW	< 0.001	5.7×10 ²	76
DBP (mmHg)	LDL-C independent	0.09 (-0.18; 0.37)	0.506	IVW	< 0.001	4.9×10 ¹	111
DBP (mmHg)	HDL-C independent	-0.03 (-0.11; 0.06)	0.531	IVW	< 0.001	5.8×10 ²	135

Table S9: (Multivariable) Mendelian randomization effect estimates for one standard deviation change in Apo-B (*continued*)

Outcome	Effect type	Point estimate (95%CI)	P-value	Estimator	Heterogeneity P-value	Precision	No. variants
DBP (mmHg)	TG independent	-0.22 (-0.37; -0.07)	0.004	IVW	< 0.001	1.7×10 ²	109
DBP (mmHg)	LDL-C & HDL-C & TG independent	-0.37 (-0.97; 0.24)	0.232	IVW	< 0.001	1.1×10 ¹	198
PBL (OR)	Total	1.12 (0.92; 1.35)	0.262	IVW	0.002	1.1×10 ²	48
PBL (OR)	LDL-C independent	1.36 (0.85; 2.18)	0.197	IVW	0.015	1.7×10 ¹	66
PBL (OR)	HDL-C independent	1.08 (0.89; 1.32)	0.411	IVW	0.014	1.0×10 ²	85
PBL (OR)	TG independent	1.00 (0.72; 1.39)	0.993	IVW	0.002	3.5×10 ¹	69
PBL (OR)	LDL-C & HDL-C & TG independent	1.03 (0.19; 5.45)	0.975	IVW	0.007	1.4	114
BUN (mg/dl)	Total	-0.01 (-0.02; 0.00)	0.266	MR Egger	< 0.001	3.3×10 ⁴	90
BUN (mg/dl)	LDL-C independent	-0.01 (-0.02; 0.00)	0.149	IVW	< 0.001	1.9×10 ⁴	130
BUN (mg/dl)	HDL-C independent	-0.00 (-0.01; 0.01)	0.941	MR Egger	< 0.001	9.1×10 ⁴	155
BUN (mg/dl)	TG independent	0.00 (-0.00; 0.01)	0.225	IVW	< 0.001	8.1×10 ⁴	133
BUN (mg/dl)	LDL-C & HDL-C & TG independent	0.00 (-0.02; 0.03)	0.752	IVW	< 0.001	4.5×10 ³	230
eGFR (SD of log(eGFR))	Total	0.00 (-0.00; 0.00)	0.359	IVW	< 0.001	1.7×10 ⁶	88
eGFR (SD of log(eGFR))	LDL-C independent	0.01 (0.00; 0.01)	0.003	IVW	< 0.001	1.2×10 ⁵	127
eGFR (SD of log(eGFR))	HDL-C independent	0.00 (-0.00; 0.00)	0.580	IVW	< 0.001	1.6×10 ⁶	155
eGFR (SD of log(eGFR))	TG independent	0.00 (-0.00; 0.00)	0.830	IVW	< 0.001	5.4×10 ⁵	125
eGFR (SD of log(eGFR))	LDL-C & HDL-C & TG independent	0.00 (-0.01; 0.01)	0.603	MR Egger	< 0.001	2.9×10 ⁴	225
CKD (OR)	Total	0.98 (0.94; 1.02)	0.419	IVW	0.018	2.3×10 ³	91
CKD (OR)	LDL-C independent	0.94 (0.81; 1.07)	0.344	IVW	0.013	2.0×10 ²	135
CKD (OR)	HDL-C independent	0.98 (0.95; 1.02)	0.439	IVW	0.006	2.4×10 ³	162
CKD (OR)	TG independent	0.96 (0.90; 1.03)	0.286	IVW	0.002	7.7×10 ²	135
CKD (OR)	LDL-C & HDL-C & TG independent	1.00 (0.74; 1.35)	0.999	IVW	< 0.001	4.2×10 ¹	238
IBD (OR)	Total	1.04 (0.87; 1.24)	0.659	MR Egger	0.006	1.2×10 ²	95
IBD (OR)	LDL-C independent	0.64 (0.49; 0.84)	< 0.001	IVW	0.007	5.4×10 ¹	136
IBD (OR)	HDL-C independent	1.06 (0.98; 1.14)	0.127	IVW	0.011	7.4×10 ²	167
IBD (OR)	TG independent	1.15 (1.01; 1.30)	0.035	IVW	< 0.001	2.4×10 ²	135
IBD (OR)	LDL-C & HDL-C & TG independent	0.35 (0.20; 0.62)	< 0.001	IVW	< 0.001	1.2×10 ¹	241
UC (OR)	Total	1.00 (0.90; 1.10)	0.971	IVW	0.051	3.7×10 ²	96
UC (OR)	LDL-C independent	0.53 (0.37; 0.76)	< 0.001	IVW	0.075	2.9×10 ¹	136
UC (OR)	HDL-C independent	1.03 (0.94; 1.13)	0.554	IVW	0.006	4.7×10 ²	170
UC (OR)	TG independent	1.09 (0.92; 1.30)	0.324	IVW	0.079	1.3×10 ²	137
UC (OR)	LDL-C & HDL-C & TG independent	0.40 (0.20; 0.82)	0.012	IVW	0.008	7.6	241
CD (OR)	Total	1.12 (1.00; 1.25)	0.045	IVW	0.081	3.2×10 ²	93
CD (OR)	LDL-C independent	1.15 (0.77; 1.70)	0.501	IVW	0.097	2.4×10 ¹	134
CD (OR)	HDL-C independent	1.11 (1.00; 1.23)	0.051	IVW	0.111	3.5×10 ²	167
CD (OR)	TG independent	1.06 (0.89; 1.26)	0.524	IVW	0.008	1.3×10 ²	135
CD (OR)	LDL-C & HDL-C & TG independent	0.26 (0.12; 0.56)	< 0.001	IVW	0.040	6.2	240
Arthritis (OR)	Total	0.87 (0.78; 0.96)	0.008	IVW	0.131	3.5×10 ²	77
Arthritis (OR)	LDL-C independent	0.80 (0.56; 1.13)	0.202	IVW	0.067	3.2×10 ¹	113

Table S9: (Multivariable) Mendelian randomization effect estimates for one standard deviation change in Apo-B (*continued*)

Outcome	Effect type	Point estimate (95%CI)	P-value	Estimator	Heterogeneity P-value	Precision	No. variants
Arthritis (OR)	HDL-C independent	0.88 (0.79; 0.97)	0.008	IVW	0.191	4.0×10 ²	135
Arthritis (OR)	TG independent	1.19 (0.96; 1.46)	0.113	MR Egger	0.546	8.7×10 ¹	111
Arthritis (OR)	LDL-C & HDL-C & TG independent	0.67 (0.30; 1.50)	0.330	MR Egger	0.158	6.0	198
ALS (OR)	Total	0.94 (0.78; 1.13)	0.486	MR Egger	0.720	1.1×10 ²	93
ALS (OR)	LDL-C independent	1.29 (1.00; 1.65)	0.046	IVW	0.477	6.3×10 ¹	139
ALS (OR)	HDL-C independent	1.05 (0.99; 1.13)	0.124	IVW	0.433	8.3×10 ²	171
ALS (OR)	TG independent	1.10 (0.97; 1.24)	0.128	IVW	0.030	2.6×10 ²	135
ALS (OR)	LDL-C & HDL-C & TG independent	0.87 (0.50; 1.52)	0.624	IVW	0.043	1.2×10 ¹	244
MS (OR)	Total	0.74 (0.52; 1.06)	0.106	MR Egger	0.346	3.0×10 ¹	25
MS (OR)	LDL-C independent	0.72 (0.41; 1.26)	0.248	MR Egger	0.136	1.2×10 ¹	27
MS (OR)	HDL-C independent	1.07 (0.94; 1.20)	0.299	IVW	0.045	2.6×10 ²	34
MS (OR)	TG independent	1.20 (0.97; 1.49)	0.101	IVW	0.269	8.1×10 ¹	31
MS (OR)	LDL-C & HDL-C & TG independent	7.29 (1.92; 27.70)	0.004	IVW	0.007	2.2	40
Alzheimer (OR)	Total	1.02 (1.01; 1.03)	< 0.001	IVW	< 0.001	3.0×10 ⁴	79
Alzheimer (OR)	LDL-C independent	0.98 (0.94; 1.03)	0.500	IVW	< 0.001	1.9×10 ³	93
Alzheimer (OR)	HDL-C independent	1.04 (1.02; 1.06)	< 0.001	MR Egger	0.013	1.0×10 ⁴	137
Alzheimer (OR)	TG independent	1.04 (1.02; 1.06)	< 0.001	IVW	< 0.001	9.0×10 ³	121
Alzheimer (OR)	LDL-C & HDL-C & TG independent	0.72 (0.66; 0.78)	< 0.001	IVW	< 0.001	5.1×10 ²	201
Parkinson (OR)	Total	0.98 (0.78; 1.24)	0.887	MR Egger	0.264	6.9×10 ¹	92
Parkinson (OR)	LDL-C independent	1.11 (0.84; 1.47)	0.475	IVW	0.392	4.8×10 ¹	135
Parkinson (OR)	HDL-C independent	0.89 (0.77; 1.02)	0.098	MR Egger	0.061	2.0×10 ²	163
Parkinson (OR)	TG independent	0.99 (0.82; 1.19)	0.878	MR Egger	0.005	1.1×10 ²	134
Parkinson (OR)	LDL-C & HDL-C & TG independent	1.67 (0.90; 3.13)	0.105	IVW	0.005	9.9	238
Pancreatic cancer (OR)	Total	0.53 (0.30; 0.94)	0.031	MR Egger	0.295	1.1×10 ¹	93
Pancreatic cancer (OR)	LDL-C independent	0.73 (0.32; 1.66)	0.455	MR Egger	0.016	5.7	141
Pancreatic cancer (OR)	HDL-C independent	0.94 (0.74; 1.20)	0.621	IVW	0.050	6.4×10 ¹	167
Pancreatic cancer (OR)	TG independent	0.86 (0.54; 1.36)	0.510	MR Egger	0.432	1.8×10 ¹	140
Pancreatic cancer (OR)	LDL-C & HDL-C & TG independent	0.20 (0.03; 1.23)	0.082	IVW	< 0.001	1.2	244
Colon cancer (OR)	Total	0.97 (0.74; 1.26)	0.796	MR Egger	0.255	5.4×10 ¹	93
Colon cancer (OR)	LDL-C independent	1.48 (1.06; 2.08)	0.023	IVW	0.017	3.3×10 ¹	138
Colon cancer (OR)	HDL-C independent	1.15 (1.04; 1.26)	0.005	IVW	0.020	4.3×10 ²	168
Colon cancer (OR)	TG independent	1.08 (0.92; 1.28)	0.358	IVW	0.036	1.4×10 ²	140
Colon cancer (OR)	LDL-C & HDL-C & TG independent	1.49 (0.70; 3.19)	0.299	IVW	< 0.001	6.7	244
Rectal cancer (OR)	Total	1.31 (0.93; 1.85)	0.124	MR Egger	0.156	3.2×10 ¹	93
Rectal cancer (OR)	LDL-C independent	0.69 (0.44; 1.09)	0.111	IVW	0.472	1.9×10 ¹	140
Rectal cancer (OR)	HDL-C independent	1.21 (0.99; 1.49)	0.067	MR Egger	0.203	8.9×10 ¹	166
Rectal cancer (OR)	TG independent	1.32 (1.01; 1.74)	0.045	MR Egger	0.379	5.1×10 ¹	140
Rectal cancer (OR)	LDL-C & HDL-C & TG independent	0.76 (0.27; 2.11)	0.592	IVW	0.313	3.6	245
Melanoma (OR)	Total	0.94 (0.78; 1.13)	0.531	MR Egger	0.025	1.1×10 ²	93

Table S9: (Multivariable) Mendelian randomization effect estimates for one standard deviation change in Apo-B (*continued*)

Outcome	Effect type	Point estimate (95%CI)	P-value	Estimator	Heterogeneity P-value	Precision	No. variants
Melanoma (OR)	LDL-C independent	1.13 (0.86; 1.48)	0.368	IVW	0.138	5.3×10 ¹	140
Melanoma (OR)	HDL-C independent	1.05 (0.98; 1.13)	0.140	IVW	< 0.001	7.7×10 ²	166
Melanoma (OR)	TG independent	0.91 (0.79; 1.06)	0.235	MR Egger	< 0.001	1.8×10 ²	140
Melanoma (OR)	LDL-C & HDL-C & TG independent	1.22 (0.68; 2.18)	0.511	IVW	< 0.001	1.1×10 ¹	242
Lung cancer (OR)	Total	0.96 (0.70; 1.32)	0.813	MR Egger	0.392	3.8×10 ¹	93
Lung cancer (OR)	LDL-C independent	1.24 (0.79; 1.93)	0.351	IVW	0.080	1.9×10 ¹	140
Lung cancer (OR)	HDL-C independent	0.87 (0.77; 0.97)	0.013	IVW	0.031	3.0×10 ²	170
Lung cancer (OR)	TG independent	0.83 (0.68; 1.02)	0.072	IVW	0.035	9.6×10 ¹	141
Lung cancer (OR)	LDL-C & HDL-C & TG independent	1.03 (0.40; 2.64)	0.953	IVW	0.007	4.3	247

Table S10: (Multivariable) Mendelian randomization effect estimates for one standard deviation change in Apo-A1

Outcome	Effect type	Point estimate (95%CI)	P-value	Estimator	Heterogeneity P-value	Precision	No. variants
CHD (OR)	Total	0.89 (0.83; 0.96)	0.002	IVW	0.008	7.6×10 ²	18
CHD (OR)	LDL-C independent	0.81 (0.75; 0.87)	< 0.001	IVW	< 0.001	6.2×10 ²	43
CHD (OR)	HDL-C independent	2.01 (1.62; 2.49)	< 0.001	MR Egger	0.002	8.2×10 ¹	31
CHD (OR)	TG independent	0.78 (0.70; 0.87)	< 0.001	MR Egger	< 0.001	3.5×10 ²	38
CHD (OR)	LDL-C & HDL-C & TG independent	0.76 (0.40; 1.44)	0.403	IVW	< 0.001	9.4	63
HF (OR)	Total	0.95 (0.86; 1.06)	0.394	MR Egger	0.039	3.2×10 ²	66
HF (OR)	LDL-C independent	0.91 (0.85; 0.97)	0.003	MR Egger	< 0.001	9.3×10 ²	166
HF (OR)	HDL-C independent	1.17 (1.01; 1.36)	0.042	IVW	< 0.001	1.7×10 ²	95
HF (OR)	TG independent	0.94 (0.88; 1.00)	0.069	MR Egger	< 0.001	8.5×10 ²	128
HF (OR)	LDL-C & HDL-C & TG independent	0.99 (0.73; 1.33)	0.922	IVW	< 0.001	4.3×10 ¹	227
AF (OR)	Total	1.00 (0.96; 1.03)	0.857	IVW	0.012	3.4×10 ³	71
AF (OR)	LDL-C independent	1.02 (0.99; 1.06)	0.215	IVW	0.002	3.1×10 ³	185
AF (OR)	HDL-C independent	1.25 (1.08; 1.44)	0.002	IVW	0.017	1.9×10 ²	100
AF (OR)	TG independent	1.01 (0.96; 1.06)	0.775	MR Egger	< 0.001	1.5×10 ³	141
AF (OR)	LDL-C & HDL-C & TG independent	1.30 (1.03; 1.64)	0.028	IVW	< 0.001	7.0×10 ¹	251
Any stroke (OR)	Total	0.98 (0.94; 1.02)	0.374	IVW	0.014	1.9×10 ³	70
Any stroke (OR)	LDL-C independent	0.97 (0.93; 1.02)	0.295	IVW	< 0.001	1.6×10 ³	173
Any stroke (OR)	HDL-C independent	1.04 (0.86; 1.25)	0.704	IVW	0.023	1.1×10 ²	98
Any stroke (OR)	TG independent	0.99 (0.95; 1.04)	0.755	IVW	0.051	1.7×10 ³	139
Any stroke (OR)	LDL-C & HDL-C & TG independent	1.34 (0.95; 1.89)	0.092	IVW	0.003	3.3×10 ¹	237
Any ischemic stroke (OR)	Total	1.00 (0.95; 1.04)	0.838	IVW	0.011	1.7×10 ³	71
Any ischemic stroke (OR)	LDL-C independent	0.98 (0.93; 1.03)	0.452	IVW	0.003	1.3×10 ³	171
Any ischemic stroke (OR)	HDL-C independent	1.09 (0.89; 1.34)	0.396	IVW	0.038	9.3×10 ¹	98
Any ischemic stroke (OR)	TG independent	1.01 (0.96; 1.06)	0.808	IVW	0.056	1.5×10 ³	139

Table S10: (Multivariable) Mendelian randomization effect estimates for one standard deviation change in Apo-A1 (*continued*)

Outcome	Effect type	Point estimate (95%CI)	P-value	Estimator	Heterogeneity P-value	Precision	No. variants
Any ischemic stroke (OR)	LDL-C & HDL-C & TG independent	1.31 (0.90; 1.90)	0.152	IVW	0.012	2.8×10 ¹	236
Large artery stroke (OR)	Total	1.04 (0.92; 1.17)	0.544	IVW	0.004	2.6×10 ²	71
Large artery stroke (OR)	LDL-C independent	0.90 (0.74; 1.09)	0.277	MR Egger	< 0.001	1.1×10 ²	173
Large artery stroke (OR)	HDL-C independent	1.07 (0.60; 1.88)	0.825	IVW	0.050	1.2×10 ¹	98
Large artery stroke (OR)	TG independent	1.10 (0.98; 1.24)	0.105	IVW	0.015	2.8×10 ²	140
Large artery stroke (OR)	LDL-C & HDL-C & TG independent	0.59 (0.23; 1.51)	0.268	IVW	0.002	4.3	237
Cardioembolic stroke (OR)	Total	1.01 (0.92; 1.12)	0.780	IVW	0.343	4.1×10 ²	71
Cardioembolic stroke (OR)	LDL-C independent	1.00 (0.85; 1.18)	0.968	MR Egger	0.067	1.4×10 ²	173
Cardioembolic stroke (OR)	HDL-C independent	0.91 (0.61; 1.35)	0.630	IVW	0.725	2.4×10 ¹	98
Cardioembolic stroke (OR)	TG independent	0.98 (0.90; 1.08)	0.744	IVW	0.403	4.5×10 ²	139
Cardioembolic stroke (OR)	LDL-C & HDL-C & TG independent	2.03 (0.99; 4.15)	0.052	IVW	0.043	7.5	237
Small vessel stroke (OR)	Total	1.06 (0.76; 1.48)	0.742	MR Egger	0.221	3.5×10 ¹	69
Small vessel stroke (OR)	LDL-C independent	0.98 (0.87; 1.11)	0.791	IVW	0.014	2.4×10 ²	176
Small vessel stroke (OR)	HDL-C independent	1.04 (0.67; 1.63)	0.852	IVW	0.024	2.0×10 ¹	99
Small vessel stroke (OR)	TG independent	1.00 (0.90; 1.11)	0.967	IVW	< 0.001	3.3×10 ²	139
Small vessel stroke (OR)	LDL-C & HDL-C & TG independent	0.59 (0.25; 1.41)	0.239	IVW	0.002	5.1	239
cIMT (mm)	Total	0.00 (-0.01; 0.01)	0.806	MR Egger	0.031	3.7×10 ⁴	67
cIMT (mm)	LDL-C independent	-0.01 (-0.01; -0.00)	< 0.001	MR Egger	< 0.001	1.3×10 ⁵	178
cIMT (mm)	HDL-C independent	0.01 (-0.01; 0.02)	0.390	IVW	0.007	1.9×10 ⁴	98
cIMT (mm)	TG independent	0.00 (-0.00; 0.00)	0.805	IVW	< 0.001	3.4×10 ⁵	139
cIMT (mm)	LDL-C & HDL-C & TG independent	0.01 (-0.02; 0.03)	0.529	IVW	< 0.001	6.1×10 ³	243
Carotid plaque (OR)	Total	0.87 (0.80; 0.95)	0.002	IVW	0.529	5.3×10 ²	66
Carotid plaque (OR)	LDL-C independent	0.76 (0.66; 0.88)	< 0.001	MR Egger	0.066	1.8×10 ²	168
Carotid plaque (OR)	HDL-C independent	1.37 (0.92; 2.04)	0.120	IVW	0.181	2.4×10 ¹	93
Carotid plaque (OR)	TG independent	0.93 (0.85; 1.00)	0.060	IVW	0.044	5.9×10 ²	132
Carotid plaque (OR)	LDL-C & HDL-C & TG independent	1.61 (0.85; 3.07)	0.146	IVW	0.009	9.3	231
Glucose (mmol/l)	Total	-0.01 (-0.03; 0.00)	0.065	IVW	0.343	1.7×10 ⁴	70
Glucose (mmol/l)	LDL-C independent	0.01 (-0.02; 0.03)	0.565	MR Egger	0.047	8.1×10 ³	180
Glucose (mmol/l)	HDL-C independent	-0.03 (-0.09; 0.03)	0.325	MR Egger	0.275	1.1×10 ³	95
Glucose (mmol/l)	TG independent	-0.01 (-0.03; 0.00)	0.086	IVW	< 0.001	2.0×10 ⁴	136
Glucose (mmol/l)	LDL-C & HDL-C & TG independent	0.01 (-0.10; 0.11)	0.920	IVW	< 0.001	3.8×10 ²	237
HbA1c (mmol/mol)	Total	-0.12 (-0.19; -0.05)	< 0.001	IVW	< 0.001	7.7×10 ²	72
HbA1c (mmol/mol)	LDL-C independent	-0.11 (-0.18; -0.03)	0.006	IVW	< 0.001	6.8×10 ²	177
HbA1c (mmol/mol)	HDL-C independent	0.03 (-0.26; 0.32)	0.836	IVW	< 0.001	4.5×10 ¹	93
HbA1c (mmol/mol)	TG independent	-0.10 (-0.22; 0.01)	0.073	MR Egger	< 0.001	3.0×10 ²	133
HbA1c (mmol/mol)	LDL-C & HDL-C & TG independent	0.06 (-0.43; 0.56)	0.797	MR Egger	< 0.001	1.6×10 ¹	236
T2DM (OR)	Total	0.95 (0.92; 0.98)	0.004	IVW	< 0.001	3.6×10 ³	63
T2DM (OR)	LDL-C independent	1.02 (0.97; 1.07)	0.373	MR Egger	< 0.001	1.6×10 ³	162
T2DM (OR)	HDL-C independent	1.16 (1.02; 1.32)	0.019	IVW	< 0.001	2.4×10 ²	89

Table S10: (Multivariable) Mendelian randomization effect estimates for one standard deviation change in Apo-A1 (*continued*)

Outcome	Effect type	Point estimate (95%CI)	P-value	Estimator	Heterogeneity P-value	Precision	No. variants
T2DM (OR)	TG independent	0.91 (0.89; 0.94)	< 0.001	IVW	< 0.001	4.3×10 ³	122
T2DM (OR)	LDL-C & HDL-C & TG independent	0.90 (0.72; 1.13)	0.379	IVW	< 0.001	7.3×10 ¹	216
CRP (mg/L)	Total	0.07 (0.02; 0.12)	0.009	IVW	0.002	1.5×10 ³	67
CRP (mg/L)	LDL-C independent	0.14 (0.08; 0.19)	< 0.001	IVW	< 0.001	1.2×10 ³	153
CRP (mg/L)	HDL-C independent	0.19 (-0.01; 0.38)	0.061	IVW	0.002	9.9×10 ¹	94
CRP (mg/L)	TG independent	0.06 (0.01; 0.11)	0.020	IVW	< 0.001	1.6×10 ³	125
CRP (mg/L)	LDL-C & HDL-C & TG independent	-0.74 (-1.10; -0.37)	< 0.001	IVW	< 0.001	2.9×10 ¹	224
SBP (mmHg)	Total	-0.17 (-0.58; 0.24)	0.420	MR Egger	< 0.001	2.3×10 ¹	60
SBP (mmHg)	LDL-C independent	-0.45 (-0.72; -0.19)	< 0.001	MR Egger	< 0.001	5.6×10 ¹	141
SBP (mmHg)	HDL-C independent	2.09 (1.49; 2.69)	< 0.001	IVW	< 0.001	1.1×10 ¹	85
SBP (mmHg)	TG independent	-0.10 (-0.25; 0.05)	0.182	IVW	< 0.001	1.7×10 ²	116
SBP (mmHg)	LDL-C & HDL-C & TG independent	0.66 (-0.57; 1.89)	0.292	IVW	< 0.001	2.5	192
DBP (mmHg)	Total	-0.09 (-0.18; -0.00)	0.043	IVW	0.017	4.8×10 ²	61
DBP (mmHg)	LDL-C independent	-0.17 (-0.32; -0.03)	0.020	MR Egger	< 0.001	1.9×10 ²	145
DBP (mmHg)	HDL-C independent	0.76 (0.40; 1.13)	< 0.001	IVW	0.181	2.9×10 ¹	85
DBP (mmHg)	TG independent	-0.05 (-0.13; 0.04)	0.288	IVW	< 0.001	5.1×10 ²	114
DBP (mmHg)	LDL-C & HDL-C & TG independent	-0.04 (-0.70; 0.63)	0.907	MR Egger	< 0.001	8.7	195
PBL (OR)	Total	1.04 (0.82; 1.32)	0.718	IVW	0.050	6.9×10 ¹	36
PBL (OR)	LDL-C independent	1.06 (0.83; 1.35)	0.627	IVW	0.010	6.6×10 ¹	83
PBL (OR)	HDL-C independent	0.95 (0.40; 2.22)	0.898	IVW	0.203	5.3	52
PBL (OR)	TG independent	1.13 (0.90; 1.42)	0.291	IVW	0.002	7.4×10 ¹	69
PBL (OR)	LDL-C & HDL-C & TG independent	1.49 (0.27; 8.22)	0.646	IVW	0.005	1.3	118
BUN (mg/dl)	Total	-0.00 (-0.01; 0.01)	0.711	MR Egger	0.003	2.6×10 ⁴	68
BUN (mg/dl)	LDL-C independent	-0.00 (-0.01; 0.01)	0.925	MR Egger	< 0.001	8.1×10 ⁴	172
BUN (mg/dl)	HDL-C independent	-0.00 (-0.02; 0.02)	0.990	IVW	0.005	1.2×10 ⁴	93
BUN (mg/dl)	TG independent	0.00 (-0.01; 0.01)	0.932	MR Egger	< 0.001	7.6×10 ⁴	133
BUN (mg/dl)	LDL-C & HDL-C & TG independent	-0.03 (-0.07; 0.00)	0.056	MR Egger	< 0.001	3.5×10 ³	231
eGFR (SD of log(eGFR))	Total	0.00 (-0.00; 0.00)	0.790	MR Egger	0.044	2.0×10 ⁵	68
eGFR (SD of log(eGFR))	LDL-C independent	-0.00 (-0.00; 0.00)	0.711	MR Egger	< 0.001	4.9×10 ⁵	164
eGFR (SD of log(eGFR))	HDL-C independent	-0.01 (-0.02; -0.00)	0.006	MR Egger	0.006	8.2×10 ⁴	94
eGFR (SD of log(eGFR))	TG independent	-0.00 (-0.00; 0.00)	0.620	IVW	< 0.001	1.3×10 ⁶	127
eGFR (SD of log(eGFR))	LDL-C & HDL-C & TG independent	-0.01 (-0.03; -0.00)	0.022	IVW	< 0.001	2.4×10 ⁴	225
CKD (OR)	Total	0.98 (0.86; 1.12)	0.793	MR Egger	0.200	2.2×10 ²	70
CKD (OR)	LDL-C independent	1.00 (0.93; 1.08)	0.979	MR Egger	0.007	7.0×10 ²	174
CKD (OR)	HDL-C independent	1.03 (0.85; 1.26)	0.741	IVW	0.372	9.7×10 ¹	97
CKD (OR)	TG independent	0.98 (0.94; 1.03)	0.473	IVW	< 0.001	2.0×10 ³	138
CKD (OR)	LDL-C & HDL-C & TG independent	1.40 (1.00; 1.97)	0.052	IVW	0.003	3.3×10 ¹	240
IBD (OR)	Total	0.92 (0.85; 1.00)	0.057	IVW	< 0.001	5.5×10 ²	70
IBD (OR)	LDL-C independent	0.89 (0.82; 0.97)	0.010	IVW	< 0.001	5.1×10 ²	180

Table S10: (Multivariable) Mendelian randomization effect estimates for one standard deviation change in Apo-A1 (*continued*)

Outcome	Effect type	Point estimate (95%CI)	P-value	Estimator	Heterogeneity P-value	Precision	No. variants
IBD (OR)	HDL-C independent	1.02 (0.72; 1.43)	0.930	IVW	0.011	3.3×10 ¹	98
IBD (OR)	TG independent	0.98 (0.90; 1.06)	0.568	IVW	< 0.001	6.3×10 ²	139
IBD (OR)	LDL-C & HDL-C & TG independent	0.83 (0.45; 1.54)	0.552	IVW	< 0.001	1.0×10 ¹	240
UC (OR)	Total	0.94 (0.84; 1.04)	0.222	IVW	< 0.001	3.5×10 ²	70
UC (OR)	LDL-C independent	0.87 (0.78; 0.97)	0.015	IVW	< 0.001	3.2×10 ²	179
UC (OR)	HDL-C independent	0.97 (0.63; 1.49)	0.892	IVW	0.005	2.1×10 ¹	98
UC (OR)	TG independent	0.96 (0.87; 1.06)	0.417	IVW	< 0.001	3.8×10 ²	139
UC (OR)	LDL-C & HDL-C & TG independent	0.90 (0.41; 1.95)	0.781	IVW	0.002	6.3	240
CD (OR)	Total	0.85 (0.61; 1.18)	0.338	MR Egger	0.205	3.5×10 ¹	68
CD (OR)	LDL-C independent	0.99 (0.87; 1.12)	0.884	IVW	0.479	2.5×10 ²	178
CD (OR)	HDL-C independent	1.37 (0.85; 2.19)	0.194	IVW	0.844	1.7×10 ¹	96
CD (OR)	TG independent	0.94 (0.77; 1.14)	0.520	MR Egger	0.066	1.0×10 ²	138
CD (OR)	LDL-C & HDL-C & TG independent	1.02 (0.43; 2.42)	0.966	IVW	0.133	5.1	241
Arthritis (OR)	Total	1.09 (0.95; 1.24)	0.231	IVW	0.075	2.1×10 ²	60
Arthritis (OR)	LDL-C independent	1.07 (0.94; 1.23)	0.311	IVW	0.068	2.1×10 ²	147
Arthritis (OR)	HDL-C independent	1.20 (0.75; 1.91)	0.454	MR Egger	0.519	1.8×10 ¹	82
Arthritis (OR)	TG independent	1.12 (0.99; 1.25)	0.064	IVW	0.107	2.8×10 ²	114
Arthritis (OR)	LDL-C & HDL-C & TG independent	0.62 (0.26; 1.52)	0.297	IVW	0.074	4.9	196
ALS (OR)	Total	0.96 (0.75; 1.23)	0.751	MR Egger	0.292	6.4×10 ¹	72
ALS (OR)	LDL-C independent	1.04 (0.95; 1.14)	0.382	IVW	0.376	4.8×10 ²	186
ALS (OR)	HDL-C independent	0.94 (0.66; 1.35)	0.745	MR Egger	0.324	2.9×10 ¹	98
ALS (OR)	TG independent	1.09 (1.01; 1.18)	0.025	IVW	0.022	6.3×10 ²	139
ALS (OR)	LDL-C & HDL-C & TG independent	1.21 (0.65; 2.25)	0.552	IVW	0.113	9.9	242
MS (OR)	Total	1.10 (0.95; 1.27)	0.213	IVW	0.040	1.8×10 ²	13
MS (OR)	LDL-C independent	1.02 (0.86; 1.21)	0.840	IVW	0.021	1.3×10 ²	31
MS (OR)	HDL-C independent	0.97 (0.67; 1.41)	0.885	IVW	0.041	2.8×10 ¹	20
MS (OR)	TG independent	1.07 (0.91; 1.26)	0.406	IVW	0.198	1.5×10 ²	26
MS (OR)	LDL-C & HDL-C & TG independent	0.73 (0.19; 2.74)	0.640	IVW	< 0.001	2.2	43
Alzheimer (OR)	Total	1.02 (0.99; 1.05)	0.218	MR Egger	0.006	4.1×10 ³	70
Alzheimer (OR)	LDL-C independent	1.03 (1.01; 1.05)	0.008	MR Egger	< 0.001	8.2×10 ³	135
Alzheimer (OR)	HDL-C independent	1.03 (0.98; 1.08)	0.215	MR Egger	0.155	1.7×10 ³	93
Alzheimer (OR)	TG independent	1.00 (0.99; 1.01)	0.752	IVW	< 0.001	3.0×10 ⁴	132
Alzheimer (OR)	LDL-C & HDL-C & TG independent	1.08 (0.98; 1.18)	0.102	MR Egger	< 0.001	4.5×10 ²	199
Parkinson (OR)	Total	1.02 (0.92; 1.13)	0.698	IVW	0.165	4.0×10 ²	71
Parkinson (OR)	LDL-C independent	0.99 (0.86; 1.14)	0.840	MR Egger	0.105	1.9×10 ²	178
Parkinson (OR)	HDL-C independent	1.62 (1.11; 2.37)	0.013	MR Egger	0.633	2.7×10 ¹	95
Parkinson (OR)	TG independent	1.02 (0.93; 1.11)	0.684	IVW	0.008	5.0×10 ²	140
Parkinson (OR)	LDL-C & HDL-C & TG independent	1.63 (0.83; 3.20)	0.159	IVW	< 0.001	8.4	241
Pancreatic cancer (OR)	Total	1.04 (0.54; 1.99)	0.913	MR Egger	0.562	9.1	75

Table S10: (Multivariable) Mendelian randomization effect estimates for one standard deviation change in Apo-A1 (*continued*)

Outcome	Effect type	Point estimate (95%CI)	P-value	Estimator	Heterogeneity P-value	Precision	No. variants
Pancreatic cancer (OR)	LDL-C independent	1.38 (1.03; 1.84)	0.030	IVW	0.010	4.6×10 ¹	182
Pancreatic cancer (OR)	HDL-C independent	0.26 (0.08; 0.81)	0.020	IVW	0.214	3.0	101
Pancreatic cancer (OR)	TG independent	1.18 (0.89; 1.55)	0.249	IVW	0.162	5.0×10 ¹	143
Pancreatic cancer (OR)	LDL-C & HDL-C & TG independent	1.66 (0.27; 10.27)	0.583	MR Egger	0.017	1.2	250
Colon cancer (OR)	Total	1.13 (0.99; 1.28)	0.061	IVW	0.131	2.4×10 ²	74
Colon cancer (OR)	LDL-C independent	0.98 (0.82; 1.16)	0.807	MR Egger	0.008	1.3×10 ²	185
Colon cancer (OR)	HDL-C independent	1.59 (0.98; 2.57)	0.060	IVW	0.022	1.7×10 ¹	100
Colon cancer (OR)	TG independent	1.05 (0.94; 1.17)	0.371	IVW	0.004	3.2×10 ²	142
Colon cancer (OR)	LDL-C & HDL-C & TG independent	1.79 (0.83; 3.88)	0.137	IVW	< 0.001	6.5	250
Rectal cancer (OR)	Total	1.30 (0.84; 2.01)	0.231	MR Egger	0.051	2.0×10 ¹	72
Rectal cancer (OR)	LDL-C independent	1.00 (0.83; 1.19)	0.984	IVW	0.142	1.2×10 ²	179
Rectal cancer (OR)	HDL-C independent	0.94 (0.49; 1.80)	0.858	IVW	0.026	9.2	100
Rectal cancer (OR)	TG independent	1.08 (0.92; 1.27)	0.351	IVW	0.054	1.4×10 ²	141
Rectal cancer (OR)	LDL-C & HDL-C & TG independent	1.19 (0.39; 3.68)	0.760	IVW	0.401	3.0	245
Melanoma (OR)	Total	1.02 (0.94; 1.12)	0.580	IVW	0.012	5.0×10 ²	73
Melanoma (OR)	LDL-C independent	1.03 (0.94; 1.13)	0.539	IVW	0.011	4.6×10 ²	183
Melanoma (OR)	HDL-C independent	1.31 (0.90; 1.90)	0.162	IVW	0.012	2.7×10 ¹	98
Melanoma (OR)	TG independent	1.01 (0.93; 1.10)	0.745	IVW	< 0.001	5.4×10 ²	140
Melanoma (OR)	LDL-C & HDL-C & TG independent	1.37 (0.75; 2.51)	0.300	IVW	< 0.001	1.1×10 ¹	247
Lung cancer (OR)	Total	0.91 (0.64; 1.28)	0.580	MR Egger	0.449	3.1×10 ¹	74
Lung cancer (OR)	LDL-C independent	1.17 (1.01; 1.36)	0.036	IVW	0.015	1.7×10 ²	184
Lung cancer (OR)	HDL-C independent	1.06 (0.56; 2.01)	0.861	IVW	0.091	9.3	100
Lung cancer (OR)	TG independent	1.03 (0.90; 1.18)	0.678	IVW	0.553	2.1×10 ²	143
Lung cancer (OR)	LDL-C & HDL-C & TG independent	0.66 (0.23; 1.87)	0.434	IVW	0.058	3.5	248

Table S11: *cis* Mendelian randomization effect estimates for one standard deviation change in Apo-B

Outcome	Effect type	Point estimate (95%CI)	P-value	Estimator	Heterogeneity P-value	Precision	No. variants
CHD (OR)	Total	2.46 (1.68; 3.61)	< 0.001	MR Egger	0.331	2.6×10 ¹	3
HF (OR)	Total	0.86 (0.81; 0.92)	< 0.001	IVW	0.379	9.4×10 ²	8
AF (OR)	Total	0.97 (0.92; 1.02)	0.211	IVW	0.493	1.3×10 ³	8
Any stroke (OR)	Total	1.00 (0.77; 1.31)	0.988	MR Egger	0.591	5.5×10 ¹	8
Any ischemic stroke (OR)	Total	0.93 (0.70; 1.24)	0.642	MR Egger	0.496	4.7×10 ¹	8
Large artery stroke (OR)	Total	0.93 (0.76; 1.14)	0.478	IVW	0.743	9.1×10 ¹	8
Cardioembolic stroke (OR)	Total	0.68 (0.39; 1.18)	0.175	MR Egger	0.832	1.3×10 ¹	8
Small vessel stroke (OR)	Total	0.73 (0.33; 1.58)	0.418	MR Egger	0.226	6.4	8
cIMT (mm)	Total	0.02 (0.02; 0.03)	< 0.001	IVW	0.316	9.7×10 ⁴	8
Carotid plaque (OR)	Total	1.63 (1.42; 1.86)	< 0.001	IVW	0.545	2.0×10 ²	8

Table S11: *cis* Mendelian randomization effect estimates for one standard deviation change in Apo-B (*continued*)

Outcome	Effect type	Point estimate (95%CI)	P-value	Estimator	Heterogeneity P-value	Precision	No. variants
Glucose (mmol/l)	Total	-0.05 (-0.07; -0.02)	< 0.001	IVW	0.517	6.8×10 ³	8
HbA1c (mmol/mol)	Total	-0.40 (-0.53; -0.28)	< 0.001	IVW	0.998	2.6×10 ²	8
T2DM (OR)	Total	0.91 (0.87; 0.96)	< 0.001	IVW	0.854	1.5×10 ³	8
CRP (mg/L)	Total	0.02 (-0.06; 0.10)	0.660	IVW	0.898	5.5×10 ²	8
SBP (mmHg)	Total	0.46 (0.22; 0.70)	< 0.001	IVW	0.015	6.6×10 ¹	8
DBP (mmHg)	Total	-0.17 (-0.31; -0.03)	0.015	IVW	0.425	2.0×10 ²	8
PBL (OR)	Total	0.87 (0.33; 2.25)	0.771	IVW	0.971	4.2	4
BUN (mg/dl)	Total	-0.01 (-0.02; -0.00)	0.004	IVW	0.37	7.1×10 ⁴	8
eGFR (SD of log(eGFR))	Total	-0.00 (-0.01; -0.00)	0.047	IVW	0.828	5.2×10 ⁵	8
CKD (OR)	Total	1.06 (0.96; 1.16)	0.272	IVW	0.101	4.2×10 ²	8
IBD (OR)	Total	0.97 (0.84; 1.11)	0.662	IVW	0.585	2.0×10 ²	8
UC (OR)	Total	0.84 (0.71; 1.00)	0.052	IVW	0.547	1.3×10 ²	8
CD (OR)	Total	1.14 (0.94; 1.37)	0.188	IVW	0.767	1.1×10 ²	8
Arthritis (OR)	Total	1.32 (1.06; 1.63)	0.011	IVW	0.366	8.4×10 ¹	7
ALS (OR)	Total	1.27 (1.11; 1.46)	< 0.001	IVW	0.9	2.0×10 ²	8
MS (OR)	Total	0.91 (0.66; 1.25)	0.564	IVW	0.791	3.9×10 ¹	3
Alzheimer (OR)	Total	0.99 (0.98; 1.01)	0.348	IVW	0.484	1.3×10 ⁴	8
Parkinson (OR)	Total	0.82 (0.71; 0.94)	0.004	IVW	0.755	2.0×10 ²	8
Pancreatic cancer (OR)	Total	0.55 (0.34; 0.89)	0.015	IVW	0.302	1.6×10 ¹	8
Colon cancer (OR)	Total	0.70 (0.58; 0.84)	< 0.001	IVW	0.721	1.1×10 ²	8
Rectal cancer (OR)	Total	0.97 (0.72; 1.31)	0.834	IVW	0.161	4.3×10 ¹	8
Melanoma (OR)	Total	0.82 (0.71; 0.95)	0.007	IVW	0.664	1.9×10 ²	8
Lung cancer (OR)	Total	0.68 (0.54; 0.86)	< 0.001	IVW	0.981	7.4×10 ¹	8

Table S12: *cis* Mendelian randomization effect estimates for one standard deviation change in Apo-A1

Outcome	Effect type	Point estimate (95%CI)	P-value	Estimator	Heterogeneity P-value	Precision	No. variants
CHD (OR)	Total	1.76 (0.96; 3.22)	0.067	Wald	NA	1.1×10 ¹	1
HF (OR)	Total	0.79 (0.59; 1.05)	0.104	IVW	0.389	4.6×10 ¹	2
AF (OR)	Total	1.44 (1.12; 1.84)	0.004	IVW	0.833	6.2×10 ¹	2
Any stroke (OR)	Total	0.82 (0.58; 1.17)	0.269	IVW	0.949	3.1×10 ¹	2
Any ischemic stroke (OR)	Total	0.73 (0.49; 1.09)	0.126	IVW	0.932	2.4×10 ¹	2
Large artery stroke (OR)	Total	1.43 (0.57; 3.63)	0.448	IVW	0.48	4.5	2
Cardioembolic stroke (OR)	Total	0.62 (0.30; 1.28)	0.194	IVW	0.781	7.3	2
Small vessel stroke (OR)	Total	1.31 (0.55; 3.11)	0.546	IVW	0.602	5.1	2
cIMT (mm)	Total	-0.04 (-0.07; -0.01)	0.012	IVW	0.231	3.9×10 ³	2
Carotid plaque (OR)	Total	0.61 (0.33; 1.12)	0.114	IVW	0.769	1.0×10 ¹	2
Glucose (mmol/l)	Total	0.10 (-0.02; 0.21)	0.089	IVW	0.6	2.9×10 ²	2
HbA1c (mmol/mol)	Total	1.13 (0.55; 1.71)	< 0.001	IVW	0.853	1.1×10 ¹	2
T2DM (OR)	Total	2.00 (1.57; 2.54)	< 0.001	IVW	0.308	6.6×10 ¹	2
CRP (mg/L)	Total	0.56 (0.16; 0.96)	0.006	IVW	0.91	2.4×10 ¹	2
SBP (mmHg)	Total	3.30 (1.58; 5.03)	< 0.001	IVW	0.134	1.3	2

Table S12: *cis* Mendelian randomization effect estimates for one standard deviation change in Apo-A1 (*continued*)

Outcome	Effect type	Point estimate (95%CI)	P-value	Estimator	Heterogeneity P-value	Precision	No. variants
DBP (mmHg)	Total	15.45 (7.43; 23.47)	< 0.001	MR Egger	NA	6.0×10^{-2}	2
PBL (OR)	Total	0.42 (0.13; 1.37)	0.149	IVW	0.306	2.8	2
BUN (mg/dl)	Total	0.04 (0.00; 0.08)	0.026	IVW	0.469	3.1×10^3	2
eGFR (SD of log(eGFR))	Total	-0.00 (-0.02; 0.01)	0.616	IVW	0.568	2.2×10^4	2
CKD (OR)	Total	0.90 (0.63; 1.28)	0.559	IVW	0.703	3.0×10^1	2
IBD (OR)	Total	0.78 (0.42; 1.48)	0.453	IVW	0.947	9.6	2
UC (OR)	Total	0.57 (0.26; 1.27)	0.169	IVW	0.532	6.1	2
CD (OR)	Total	1.18 (0.45; 3.09)	0.734	IVW	0.267	4.1	2
Arthritis (OR)	Total	0.25 (0.11; 0.54)	< 0.001	IVW	0.834	6.3	2
ALS (OR)	Total	1.02 (0.53; 1.99)	0.943	IVW	0.384	8.7	2
MS (OR)	Total	NA	NA	NA	NA	NA	NA
Alzheimer (OR)	Total	1.11 (1.02; 1.20)	0.011	IVW	0.428	6.3×10^2	2
Parkinson (OR)	Total	2.86 (1.50; 5.43)	< 0.001	IVW	0.596	9.3	2
Pancreatic cancer (OR)	Total	0.41 (0.05; 3.36)	0.410	IVW	0.493	8.8×10^{-1}	2
Colon cancer (OR)	Total	6.45 (2.33; 17.87)	< 0.001	IVW	0.235	3.7	2
Rectal cancer (OR)	Total	1.51 (0.47; 4.86)	0.494	IVW	0.78	2.8	2
Melanoma (OR)	Total	0.39 (0.20; 0.76)	0.006	IVW	0.612	8.7	2
Lung cancer (OR)	Total	1.06 (0.36; 3.12)	0.917	IVW	0.535	3.3	2

Table S13: Multivariable Mendelian randomization effect estimates for one standard deviation change in HDL-C, TG or Apo-B

Exposure	Outcome	Effect type	Point estimate (95%CI)	P-value	Estimator	Heterogeneity P-value	Precision	No. variants
HDL-C	CHD (OR)	Conditional on Apo-B & TG	0.80 (0.74; 0.86)	< 0.001	IVW	< 0.001	6.9×10 ²	53
TG	CHD (OR)	Conditional on HDL-C & Apo-B	0.88 (0.78; 1.01)	0.065	IVW	< 0.001	2.2×10 ²	53
Apo-B	CHD (OR)	Conditional on TG & HDL-C	1.81 (1.64; 1.99)	< 0.001	IVW	< 0.001	4.2×10 ²	53
HDL-C	HF (OR)	Conditional on Apo-B & TG	1.00 (0.96; 1.05)	0.860	IVW	< 0.001	2.0×10 ³	184
TG	HF (OR)	Conditional on HDL-C & Apo-B	1.08 (1.00; 1.17)	0.065	IVW	< 0.001	6.2×10 ²	184
Apo-B	HF (OR)	Conditional on TG & HDL-C	1.01 (0.95; 1.08)	0.642	IVW	< 0.001	1.0×10 ³	184
HDL-C	AF (OR)	Conditional on Apo-B & TG	1.00 (0.97; 1.04)	0.809	IVW	0.008	2.7×10 ³	200
TG	AF (OR)	Conditional on HDL-C & Apo-B	0.98 (0.92; 1.04)	0.488	IVW	0.008	9.6×10 ²	200
Apo-B	AF (OR)	Conditional on TG & HDL-C	1.05 (1.00; 1.10)	0.068	IVW	0.008	1.5×10 ³	200
HDL-C	Any stroke (OR)	Conditional on Apo-B & TG	0.98 (0.93; 1.02)	0.323	IVW	< 0.001	1.6×10 ³	195
TG	Any stroke (OR)	Conditional on HDL-C & Apo-B	0.89 (0.81; 0.97)	0.011	IVW	< 0.001	4.7×10 ²	195
Apo-B	Any stroke (OR)	Conditional on TG & HDL-C	1.13 (1.05; 1.22)	< 0.001	IVW	< 0.001	7.5×10 ²	195
HDL-C	Any ischemic stroke (OR)	Conditional on Apo-B & TG	0.98 (0.93; 1.04)	0.526	IVW	< 0.001	1.3×10 ³	195
TG	Any ischemic stroke (OR)	Conditional on HDL-C & Apo-B	0.89 (0.80; 0.98)	0.023	IVW	< 0.001	3.8×10 ²	195
Apo-B	Any ischemic stroke (OR)	Conditional on TG & HDL-C	1.15 (1.06; 1.24)	< 0.001	IVW	< 0.001	6.0×10 ²	195
HDL-C	Large artery stroke (OR)	Conditional on Apo-B & TG	1.02 (0.89; 1.17)	0.774	IVW	0.002	2.1×10 ²	198
TG	Large artery stroke (OR)	Conditional on HDL-C & Apo-B	0.96 (0.76; 1.22)	0.744	IVW	0.002	6.8×10 ¹	198
Apo-B	Large artery stroke (OR)	Conditional on TG & HDL-C	1.08 (0.90; 1.31)	0.401	IVW	0.002	1.1×10 ²	198
HDL-C	Cardioembolic stroke (OR)	Conditional on Apo-B & TG	0.98 (0.88; 1.09)	0.733	IVW	0.003	3.5×10 ²	197
TG	Cardioembolic stroke (OR)	Conditional on HDL-C & Apo-B	0.93 (0.77; 1.12)	0.433	IVW	0.003	1.1×10 ²	197
Apo-B	Cardioembolic stroke (OR)	Conditional on TG & HDL-C	1.13 (0.97; 1.32)	0.103	IVW	0.003	1.7×10 ²	197
HDL-C	Small vessel stroke (OR)	Conditional on Apo-B & TG	0.97 (0.86; 1.10)	0.645	IVW	0.025	2.5×10 ²	195
TG	Small vessel stroke (OR)	Conditional on HDL-C & Apo-B	0.99 (0.79; 1.25)	0.954	IVW	0.025	7.5×10 ¹	195
Apo-B	Small vessel stroke (OR)	Conditional on TG & HDL-C	0.98 (0.82; 1.17)	0.804	IVW	0.025	1.2×10 ²	195
HDL-C	cIMT (mm)	Conditional on Apo-B & TG	-0.00 (-0.01; 0.00)	0.143	IVW	< 0.001	2.6×10 ⁵	199
TG	cIMT (mm)	Conditional on HDL-C & Apo-B	-0.02 (-0.03; -0.01)	< 0.001	IVW	< 0.001	8.7×10 ⁴	199
Apo-B	cIMT (mm)	Conditional on TG & HDL-C	0.03 (0.02; 0.03)	< 0.001	IVW	< 0.001	1.4×10 ⁵	199
HDL-C	Carotid plaque (OR)	Conditional on Apo-B & TG	0.91 (0.83; 1.00)	0.060	IVW	0.017	4.2×10 ²	187
TG	Carotid plaque (OR)	Conditional on HDL-C & Apo-B	0.74 (0.63; 0.88)	< 0.001	IVW	0.017	1.4×10 ²	187
Apo-B	Carotid plaque (OR)	Conditional on TG & HDL-C	1.60 (1.40; 1.82)	< 0.001	IVW	0.017	2.2×10 ²	187
HDL-C	Glucose (mmol/l)	Conditional on Apo-B & TG	-0.00 (-0.02; 0.01)	0.616	IVW	< 0.001	1.4×10 ⁴	187

Table S13: Multivariable Mendelian randomization effect estimates for one stand
(continued)

Exposure	Outcome	Effect type	Point estimate (95%CI)	P-value	Estimator	Heterogeneity P-value	Precision	No. variants
TG	Glucose (mmol/l)	Conditional on HDL-C & Apo-B	-0.01 (-0.04; 0.01)	0.338	IVW	< 0.001	4.5×10 ³	187
Apo-B	Glucose (mmol/l)	Conditional on TG & HDL-C	-0.01 (-0.03; 0.02)	0.625	IVW	< 0.001	7.7×10 ³	187
HDL-C	HbA1c (mmol/mol)	Conditional on Apo-B & TG	-0.05 (-0.14; 0.03)	0.213	IVW	< 0.001	5.2×10 ²	181
TG	HbA1c (mmol/mol)	Conditional on HDL-C & Apo-B	-0.09 (-0.24; 0.07)	0.262	IVW	< 0.001	1.7×10 ²	181
Apo-B	HbA1c (mmol/mol)	Conditional on TG & HDL-C	-0.10 (-0.21; 0.02)	0.097	IVW	< 0.001	2.9×10 ²	181
HDL-C	T2DM (OR)	Conditional on Apo-B & TG	0.98 (0.95; 1.02)	0.338	IVW	< 0.001	3.3×10 ³	169
TG	T2DM (OR)	Conditional on HDL-C & Apo-B	1.15 (1.07; 1.23)	< 0.001	IVW	< 0.001	8.8×10 ²	169
Apo-B	T2DM (OR)	Conditional on TG & HDL-C	0.88 (0.83; 0.92)	< 0.001	IVW	< 0.001	1.4×10 ³	169
HDL-C	CRP (mg/L)	Conditional on Apo-B & TG	0.17 (0.11; 0.23)	< 0.001	IVW	< 0.001	1.1×10 ³	174
TG	CRP (mg/L)	Conditional on HDL-C & Apo-B	0.31 (0.20; 0.42)	< 0.001	IVW	< 0.001	3.1×10 ²	174
Apo-B	CRP (mg/L)	Conditional on TG & HDL-C	-0.14 (-0.23; -0.05)	0.002	IVW	< 0.001	5.0×10 ²	174
HDL-C	SBP (mmHg)	Conditional on Apo-B & TG	-0.27 (-0.43; -0.10)	< 0.001	IVW	< 0.001	1.4×10 ²	164
TG	SBP (mmHg)	Conditional on HDL-C & Apo-B	0.25 (-0.06; 0.56)	0.108	IVW	< 0.001	4.1×10 ¹	164
Apo-B	SBP (mmHg)	Conditional on TG & HDL-C	0.32 (0.08; 0.56)	0.010	IVW	< 0.001	6.5×10 ¹	164
HDL-C	DBP (mmHg)	Conditional on Apo-B & TG	-0.13 (-0.23; -0.04)	0.006	IVW	< 0.001	4.3×10 ²	160
TG	DBP (mmHg)	Conditional on HDL-C & Apo-B	0.36 (0.17; 0.54)	< 0.001	IVW	< 0.001	1.1×10 ²	160
Apo-B	DBP (mmHg)	Conditional on TG & HDL-C	-0.23 (-0.39; -0.07)	0.004	MR Egger	< 0.001	1.5×10 ²	161
HDL-C	PBL (OR)	Conditional on Apo-B & TG	1.36 (1.06; 1.75)	0.016	IVW	0.003	6.2×10 ¹	97
TG	PBL (OR)	Conditional on HDL-C & Apo-B	1.53 (1.02; 2.30)	0.041	IVW	0.003	2.3×10 ¹	97
Apo-B	PBL (OR)	Conditional on TG & HDL-C	0.85 (0.59; 1.22)	0.382	IVW	0.003	2.9×10 ¹	97
HDL-C	BUN (mg/dl)	Conditional on Apo-B & TG	-0.00 (-0.01; -0.00)	0.032	IVW	< 0.001	1.9×10 ⁵	190
TG	BUN (mg/dl)	Conditional on HDL-C & Apo-B	-0.01 (-0.01; 0.00)	0.174	IVW	< 0.001	5.0×10 ⁴	190
Apo-B	BUN (mg/dl)	Conditional on TG & HDL-C	0.00 (-0.00; 0.01)	0.261	IVW	< 0.001	8.0×10 ⁴	190
HDL-C	eGFR (SD of log(eGFR))	Conditional on Apo-B & TG	-0.00 (-0.00; 0.00)	0.269	IVW	< 0.001	8.6×10 ⁵	180
TG	eGFR (SD of log(eGFR))	Conditional on HDL-C & Apo-B	0.00 (-0.00; 0.00)	0.883	IVW	< 0.001	2.9×10 ⁵	180
Apo-B	eGFR (SD of log(eGFR))	Conditional on TG & HDL-C	0.00 (-0.00; 0.00)	0.596	IVW	< 0.001	5.1×10 ⁵	180
HDL-C	CKD (OR)	Conditional on Apo-B & TG	0.99 (0.94; 1.04)	0.706	IVW	< 0.001	1.4×10 ³	192
TG	CKD (OR)	Conditional on HDL-C & Apo-B	1.02 (0.93; 1.11)	0.749	IVW	< 0.001	4.5×10 ²	192
Apo-B	CKD (OR)	Conditional on TG & HDL-C	0.96 (0.89; 1.03)	0.272	IVW	< 0.001	7.4×10 ²	192
HDL-C	IBD (OR)	Conditional on Apo-B & TG	0.98 (0.89; 1.08)	0.647	IVW	< 0.001	4.3×10 ²	194
TG	IBD (OR)	Conditional on HDL-C & Apo-B	0.87 (0.74; 1.02)	0.081	IVW	< 0.001	1.5×10 ²	194

Table S13: Multivariable Mendelian randomization effect estimates for one standa
(continued)

Exposure	Outcome	Effect type	Point estimate (95%CI)	P-value	Estimator	Heterogeneity P-value	Precision	No. variants
Apo-B	IBD (OR)	Conditional on TG & HDL-C	1.17 (1.03; 1.33)	0.016	IVW	< 0.001	2.3×10 ²	194
HDL-C	UC (OR)	Conditional on Apo-B & TG	0.97 (0.86; 1.09)	0.609	IVW	0.025	2.8×10 ²	198
TG	UC (OR)	Conditional on HDL-C & Apo-B	0.80 (0.65; 0.98)	0.031	IVW	0.025	9.2×10 ¹	198
Apo-B	UC (OR)	Conditional on TG & HDL-C	1.12 (0.96; 1.32)	0.152	IVW	0.025	1.5×10 ²	198
HDL-C	CD (OR)	Conditional on Apo-B & TG	1.04 (0.91; 1.19)	0.556	IVW	0.014	2.2×10 ²	194
TG	CD (OR)	Conditional on HDL-C & Apo-B	1.18 (0.94; 1.47)	0.153	IVW	0.014	7.7×10 ¹	194
Apo-B	CD (OR)	Conditional on TG & HDL-C	1.05 (0.88; 1.25)	0.614	IVW	0.014	1.3×10 ²	194
HDL-C	Arthritis (OR)	Conditional on Apo-B & TG	1.10 (0.98; 1.24)	0.112	IVW	0.321	2.7×10 ²	156
TG	Arthritis (OR)	Conditional on HDL-C & Apo-B	1.16 (0.95; 1.43)	0.150	MR Egger	0.465	9.2×10 ¹	155
Apo-B	Arthritis (OR)	Conditional on TG & HDL-C	0.96 (0.81; 1.15)	0.677	MR Egger	0.471	1.2×10 ²	156
HDL-C	ALS (OR)	Conditional on Apo-B & TG	1.09 (0.96; 1.23)	0.181	MR Egger	0.066	2.6×10 ²	198
TG	ALS (OR)	Conditional on HDL-C & Apo-B	1.09 (0.92; 1.28)	0.326	IVW	0.021	1.4×10 ²	194
Apo-B	ALS (OR)	Conditional on TG & HDL-C	1.02 (0.90; 1.15)	0.768	IVW	0.021	2.6×10 ²	194
HDL-C	MS (OR)	Conditional on Apo-B & TG	0.93 (0.74; 1.16)	0.507	MR Egger	0.012	7.3×10 ¹	38
TG	MS (OR)	Conditional on HDL-C & Apo-B	0.82 (0.64; 1.04)	0.100	IVW	0.004	6.6×10 ¹	38
Apo-B	MS (OR)	Conditional on TG & HDL-C	1.20 (0.99; 1.46)	0.062	IVW	0.004	1.0×10 ²	38
HDL-C	Alzheimer (OR)	Conditional on Apo-B & TG	0.99 (0.97; 1.01)	0.178	MR Egger	< 0.001	1.3×10 ⁴	184
TG	Alzheimer (OR)	Conditional on HDL-C & Apo-B	0.96 (0.94; 0.98)	< 0.001	IVW	< 0.001	6.9×10 ³	181
Apo-B	Alzheimer (OR)	Conditional on TG & HDL-C	1.05 (1.03; 1.07)	< 0.001	IVW	< 0.001	1.0×10 ⁴	181
HDL-C	Parkinson (OR)	Conditional on Apo-B & TG	0.95 (0.86; 1.06)	0.367	IVW	< 0.001	3.6×10 ²	194
TG	Parkinson (OR)	Conditional on HDL-C & Apo-B	1.04 (0.86; 1.26)	0.667	IVW	< 0.001	1.1×10 ²	194
Apo-B	Parkinson (OR)	Conditional on TG & HDL-C	0.90 (0.77; 1.04)	0.147	IVW	< 0.001	1.7×10 ²	194
HDL-C	Pancreatic cancer (OR)	Conditional on Apo-B & TG	1.11 (0.81; 1.51)	0.506	IVW	0.022	4.0×10 ¹	196
TG	Pancreatic cancer (OR)	Conditional on HDL-C & Apo-B	0.68 (0.40; 1.15)	0.149	IVW	0.022	1.4×10 ¹	196
Apo-B	Pancreatic cancer (OR)	Conditional on TG & HDL-C	1.19 (0.79; 1.79)	0.405	IVW	0.022	2.3×10 ¹	196
HDL-C	Colon cancer (OR)	Conditional on Apo-B & TG	1.13 (0.99; 1.28)	0.060	IVW	0.011	2.4×10 ²	198
TG	Colon cancer (OR)	Conditional on HDL-C & Apo-B	1.06 (0.86; 1.32)	0.575	IVW	0.011	8.3×10 ¹	198
Apo-B	Colon cancer (OR)	Conditional on TG & HDL-C	1.11 (0.94; 1.31)	0.227	IVW	0.011	1.4×10 ²	198
HDL-C	Rectal cancer (OR)	Conditional on Apo-B & TG	0.85 (0.71; 1.02)	0.089	IVW	0.213	1.2×10 ²	196
TG	Rectal cancer (OR)	Conditional on HDL-C & Apo-B	0.74 (0.55; 1.00)	0.051	IVW	0.213	4.2×10 ¹	196
Apo-B	Rectal cancer (OR)	Conditional on TG & HDL-C	1.31 (1.04; 1.66)	0.024	IVW	0.213	6.9×10 ¹	196

Table S13: Multivariable Mendelian randomization effect estimates for one stand
(continued)

Exposure	Outcome	Effect type	Point estimate (95%CI)	P-value	Estimator	Heterogeneity P-value	Precision	No. variants
HDL-C	Melanoma (OR)	Conditional on Apo-B & TG	1.03 (0.93; 1.14)	0.554	IVW	< 0.001	4.0×10 ²	195
TG	Melanoma (OR)	Conditional on HDL-C & Apo-B	1.15 (0.98; 1.35)	0.091	IVW	< 0.001	1.4×10 ²	195
Apo-B	Melanoma (OR)	Conditional on TG & HDL-C	0.98 (0.87; 1.11)	0.761	IVW	< 0.001	2.5×10 ²	195
HDL-C	Lung cancer (OR)	Conditional on Apo-B & TG	0.89 (0.76; 1.05)	0.161	IVW	0.017	1.6×10 ²	199
TG	Lung cancer (OR)	Conditional on HDL-C & Apo-B	0.94 (0.72; 1.22)	0.630	IVW	0.017	5.7×10 ¹	199
Apo-B	Lung cancer (OR)	Conditional on TG & HDL-C	0.91 (0.75; 1.11)	0.366	IVW	0.017	9.6×10 ¹	199

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
LDL-C	11	116651115	T	C
LDL-C	11	116657561	T	C
LDL-C	11	61565908	T	C
LDL-C	11	61571382	G	A
LDL-C	11	61621194	G	A
LDL-C	12	111844218	G	A
LDL-C	12	111949394	T	C
LDL-C	12	111976776	T	C
LDL-C	12	111993886	G	A
LDL-C	14	94844947	T	C
LDL-C	14	94877868	T	C
LDL-C	16	72052348	G	A
LDL-C	16	72078989	TG	T
LDL-C	16	72108093	G	A
LDL-C	17	45422628	G	A
LDL-C	17	45485982	T	C
LDL-C	17	45498937	T	G
LDL-C	17	45537395	T	C
LDL-C	17	45540743	T	C
LDL-C	17	45735706	T	C
LDL-C	19	10504616	C	A
LDL-C	19	10516198	T	G
LDL-C	19	10633984	G	A
LDL-C	19	10634928	T	C
LDL-C	19	10639533	T	C
LDL-C	19	10643352	T	G
LDL-C	19	10643471	G	A
LDL-C	19	10645495	G	A
LDL-C	19	10646814	G	A
LDL-C	19	10689256	T	G
LDL-C	19	10703280	G	A
LDL-C	19	10734951	T	C
LDL-C	19	10739143	C	A
LDL-C	19	10741907	G	A
LDL-C	19	10742170	G	A
LDL-C	19	10742287	T	C
LDL-C	19	10784858	G	A
LDL-C	19	10798974	T	C
LDL-C	19	10802792	G	A
LDL-C	19	10813364	T	C
LDL-C	19	10901440	G	A
LDL-C	19	10903972	G	A
LDL-C	19	10904700	T	C

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
LDL-C	19	10909953	T	C
LDL-C	19	10916684	T	C
LDL-C	19	10926952	T	C
LDL-C	19	10947522	T	C
LDL-C	19	10948031	G	A
LDL-C	19	10952958	G	A
LDL-C	19	10965270	T	C
LDL-C	19	10967970	G	A
LDL-C	19	10981992	T	C
LDL-C	19	11027626	C	A
LDL-C	19	11054715	G	A
LDL-C	19	11055935	G	A
LDL-C	19	11059389	G	A
LDL-C	19	11065409	C	A
LDL-C	19	11065687	G	A
LDL-C	19	11104747	G	A
LDL-C	19	11105608	T	C
LDL-C	19	11113902	G	A
LDL-C	19	11126160	T	C
LDL-C	19	11128824	T	C
LDL-C	19	11132080	G	A
LDL-C	19	11136315	T	C
LDL-C	19	11139636	T	G
LDL-C	19	11140144	G	A
LDL-C	19	11146499	T	C
LDL-C	19	11159076	G	A
LDL-C	19	11159096	T	G
LDL-C	19	11159525	T	G
LDL-C	19	11163562	T	C
LDL-C	19	11163601	T	G
LDL-C	19	11163897	T	C
LDL-C	19	11164781	G	A
LDL-C	19	11166431	CT	C
LDL-C	19	11169947	T	C
LDL-C	19	11170839	T	C
LDL-C	19	11171281	C	A
LDL-C	19	11174229	CT	C
LDL-C	19	11174625	G	A
LDL-C	19	11174742	T	C
LDL-C	19	11177250	C	A
LDL-C	19	11180047	T	C
LDL-C	19	11183837	G	A
LDL-C	19	11184250	G	A
LDL-C	19	11184293	T	C

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
LDL-C	19	11185014	G	A
LDL-C	19	11185919	T	C
LDL-C	19	11186711	T	C
LDL-C	19	11187611	G	A
LDL-C	19	11188313	CTTTA	C
LDL-C	19	11188899	T	C
LDL-C	19	11189298	CG	C
LDL-C	19	11189764	T	C
LDL-C	19	11190544	T	C
LDL-C	19	11193065	T	C
LDL-C	19	11195030	G	A
LDL-C	19	11202306	T	G
LDL-C	19	11206575	G	A
LDL-C	19	11207102	T	C
LDL-C	19	11207516	G	A
LDL-C	19	11207982	T	C
LDL-C	19	11209757	CCAAA	C
LDL-C	19	11210912	T	C
LDL-C	19	11216617	G	A
LDL-C	19	11221180	G	A
LDL-C	19	11224181	T	C
LDL-C	19	11224265	G	A
LDL-C	19	11227480	C	A
LDL-C	19	11228965	C	A
LDL-C	19	11230881	T	C
LDL-C	19	11236180	C	A
LDL-C	19	11243445	G	A
LDL-C	19	11245071	GGAGT	G
LDL-C	19	11248104	G	A
LDL-C	19	11250139	G	A
LDL-C	19	11257169	T	C
LDL-C	19	11262477	T	G
LDL-C	19	11262969	T	G
LDL-C	19	11263098	T	C
LDL-C	19	11263968	CA	C
LDL-C	19	11266693	T	G
LDL-C	19	11269893	T	C
LDL-C	19	11271714	G	A
LDL-C	19	11274679	G	A
LDL-C	19	11275139	C	A
LDL-C	19	11275258	G	A
LDL-C	19	11276256	T	C
LDL-C	19	19130096	T	C
LDL-C	19	19380513	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
LDL-C	19	19458388	G	A
LDL-C	19	20217169	T	C
LDL-C	19	41087144	T	C
LDL-C	19	45041317	T	C
LDL-C	19	45121682	G	A
LDL-C	19	45134682	C	A
LDL-C	19	45135841	T	C
LDL-C	19	45138246	T	C
LDL-C	19	45147396	T	C
LDL-C	19	45150614	G	A
LDL-C	19	45156201	TA	T
LDL-C	19	45158411	T	C
LDL-C	19	45159023	T	C
LDL-C	19	45160086	C	A
LDL-C	19	45163671	T	C
LDL-C	19	45167544	T	C
LDL-C	19	45170097	G	A
LDL-C	19	45173951	C	A
LDL-C	19	45176340	T	C
LDL-C	19	45187163	G	A
LDL-C	19	45188471	T	C
LDL-C	19	45189000	G	A
LDL-C	19	45195313	T	G
LDL-C	19	45195744	CG	C
LDL-C	19	45196254	G	A
LDL-C	19	45196581	G	A
LDL-C	19	45196964	G	A
LDL-C	19	45197027	C	A
LDL-C	19	45198936	T	C
LDL-C	19	45220896	T	C
LDL-C	19	45220941	C	A
LDL-C	19	45222982	T	G
LDL-C	19	45223038	G	A
LDL-C	19	45224305	C	A
LDL-C	19	45225345	T	C
LDL-C	19	45232161	G	A
LDL-C	19	45232205	G	A
LDL-C	19	45232374	G	A
LDL-C	19	45233329	AAATTATAGA	
LDL-C	19	45237812	T	C
LDL-C	19	45237919	T	C
LDL-C	19	45237984	T	C
LDL-C	19	45239185	G	A
LDL-C	19	45239536	C	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
LDL-C	19	45241248	CA	C
LDL-C	19	45242107	G	A
LDL-C	19	45242173	G	A
LDL-C	19	45242740	G	A
LDL-C	19	45245884	G	A
LDL-C	19	45247627	G	A
LDL-C	19	45249661	T	C
LDL-C	19	45251156	C	A
LDL-C	19	45253491	T	C
LDL-C	19	45253542	CTTTG	C
LDL-C	19	45253611	ATTGGC	A
LDL-C	19	45276590	GTTA	G
LDL-C	19	45296364	G	A
LDL-C	19	45296806	T	C
LDL-C	19	45301942	G	A
LDL-C	19	45302504	G	A
LDL-C	19	45302778	G	A
LDL-C	19	45302949	GAA	G
LDL-C	19	45303122	AAAAG	A
LDL-C	19	45304061	G	A
LDL-C	19	45305345	GC	G
LDL-C	19	45309431	T	C
LDL-C	19	45313715	T	C
LDL-C	19	45315445	G	A
LDL-C	19	45319631	G	A
LDL-C	19	45323170	CCATCCCCA	CTCATCCT
LDL-C	19	45324138	G	A
LDL-C	19	45325738	T	G
LDL-C	19	45326664	T	C
LDL-C	19	45327459	T	C
LDL-C	19	45330999	G	A
LDL-C	19	45331103	G	A
LDL-C	19	45333834	T	C
LDL-C	19	45335676	G	A
LDL-C	19	45336035	T	C
LDL-C	19	45337918	G	A
LDL-C	19	45338250	AT	A
LDL-C	19	45342114	G	A
LDL-C	19	45347911	C	A
LDL-C	19	45351891	G	A
LDL-C	19	45356141	T	C
LDL-C	19	45356752	CT	C
LDL-C	19	45357939	G	A
LDL-C	19	45359706	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
LDL-C	19	45361646	G	A
LDL-C	19	45365447	G	A
LDL-C	19	45369203	G	A
LDL-C	19	45373565	G	A
LDL-C	19	45377334	G	A
LDL-C	19	45379060	C	A
LDL-C	19	45382034	G	A
LDL-C	19	45382675	G	A
LDL-C	19	45383061	T	G
LDL-C	19	45384105	T	C
LDL-C	19	45384405	T	C
LDL-C	19	45385356	C	A
LDL-C	19	45386467	GTAA	G
LDL-C	19	45386634	T	C
LDL-C	19	45387034	C	A
LDL-C	19	45388130	G	A
LDL-C	19	45388241	T	G
LDL-C	19	45388500	G	A
LDL-C	19	45389596	G	A
LDL-C	19	45392254	T	C
LDL-C	19	45393516	T	C
LDL-C	19	45395266	G	A
LDL-C	19	45395330	G	A
LDL-C	19	45395619	G	A
LDL-C	19	45395714	T	C
LDL-C	19	45395844	G	A
LDL-C	19	45396219	T	C
LDL-C	19	45396973	G	A
LDL-C	19	45397952	T	C
LDL-C	19	45400484	TG	T
LDL-C	19	45401868	T	C
LDL-C	19	45402262	T	G
LDL-C	19	45406673	G	A
LDL-C	19	45408628	T	C
LDL-C	19	45408836	T	G
LDL-C	19	45410002	G	A
LDL-C	19	45411941	T	C
LDL-C	19	45412079	T	C
LDL-C	19	45413576	T	C
LDL-C	19	45415640	G	A
LDL-C	19	45416291	T	C
LDL-C	19	45416831	T	G
LDL-C	19	45418486	G	A
LDL-C	19	45421254	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
LDL-C	19	45421877	G	A
LDL-C	19	45422946	G	A
LDL-C	19	45423944	T	C
LDL-C	19	45425178	G	A
LDL-C	19	45425460	G	A
LDL-C	19	45426792	G	A
LDL-C	19	45428234	G	A
LDL-C	19	45429543	T	C
LDL-C	19	45431897	G	A
LDL-C	19	45435466	CT	C
LDL-C	19	45436216	G	A
LDL-C	19	45436657	G	A
LDL-C	19	45440145	CTG	C
LDL-C	19	45441608	T	C
LDL-C	19	45447178	T	C
LDL-C	19	45447221	G	A
LDL-C	19	45450252	T	C
LDL-C	19	45450328	G	A
LDL-C	19	45451656	T	G
LDL-C	19	45452335	T	C
LDL-C	19	45453763	G	A
LDL-C	19	45455588	T	C
LDL-C	19	45460549	TTGAC	T
LDL-C	19	45464963	T	C
LDL-C	19	45475700	T	G
LDL-C	19	45477111	T	C
LDL-C	19	45478352	G	A
LDL-C	19	45491032	T	C
LDL-C	19	45496303	T	C
LDL-C	19	45514061	G	A
LDL-C	19	45515014	CTGTGTGTG	C
LDL-C	19	45531618	GT	G
LDL-C	19	45541782	G	A
LDL-C	19	45547583	G	A
LDL-C	19	45548255	G	A
LDL-C	19	45552587	T	C
LDL-C	19	45653883	TAGTC	T
LDL-C	19	45672478	G	A
LDL-C	19	45693752	T	C
LDL-C	19	45706865	G	A
LDL-C	19	45723379	T	C
LDL-C	19	45880690	T	C
LDL-C	19	45915038	T	C
LDL-C	19	45987013	T	C

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
LDL-C	19	46018119	G	A
LDL-C	19	46420463	AAAAAT	A
LDL-C	1	109715950	G	A
LDL-C	1	109757295	G	A
LDL-C	1	109776285	T	C
LDL-C	1	109792735	ACGC	A
LDL-C	1	109797763	T	C
LDL-C	1	109798721	G	A
LDL-C	1	109804646	G	A
LDL-C	1	109806442	C	A
LDL-C	1	109810200	G	A
LDL-C	1	109813485	T	C
LDL-C	1	109814880	T	C
LDL-C	1	109815214	TG	T
LDL-C	1	109815252	G	A
LDL-C	1	109818158	CT	C
LDL-C	1	109819615	T	C
LDL-C	1	109819981	T	C
LDL-C	1	109820884	G	A
LDL-C	1	109820919	T	G
LDL-C	1	109822166	G	A
LDL-C	1	109824250	G	A
LDL-C	1	109826760	TTCCTAACC	T
LDL-C	1	109827253	G	A
LDL-C	1	109834938	T	C
LDL-C	1	109839400	T	C
LDL-C	1	109841760	G	A
LDL-C	1	109955569	T	C
LDL-C	1	110019439	G	A
LDL-C	1	110033224	G	A
LDL-C	1	27284913	T	C
LDL-C	1	54598299	G	A
LDL-C	1	54703630	T	C
LDL-C	1	54703702	C	A
LDL-C	1	54708492	G	A
LDL-C	1	54714821	G	A
LDL-C	1	54715751	T	C
LDL-C	1	54717654	T	C
LDL-C	1	54721862	TC	T
LDL-C	1	54722625	T	C
LDL-C	1	54724389	G	A
LDL-C	1	54726703	G	A
LDL-C	1	54728029	T	C
LDL-C	1	54769277	T	G

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
LDL-C	1	54772869	C	A
LDL-C	1	54783595	T	C
LDL-C	1	54834840	T	C
LDL-C	1	54849397	T	C
LDL-C	1	54880705	T	C
LDL-C	1	54889174	T	C
LDL-C	1	54935900	G	A
LDL-C	1	54983266	T	C
LDL-C	1	55083647	G	A
LDL-C	1	55085141	G	A
LDL-C	1	55136356	T	C
LDL-C	1	55138291	G	A
LDL-C	1	55141339	C	A
LDL-C	1	55142111	T	G
LDL-C	1	55160482	T	G
LDL-C	1	55224773	C	A
LDL-C	1	55243587	G	A
LDL-C	1	55334001	G	A
LDL-C	1	55378724	G	A
LDL-C	1	55411580	G	A
LDL-C	1	55417370	T	C
LDL-C	1	55431933	T	C
LDL-C	1	55470153	T	C
LDL-C	1	55489542	T	C
LDL-C	1	55489960	G	A
LDL-C	1	55493584	C	A
LDL-C	1	55494017	T	C
LDL-C	1	55496039	T	C
LDL-C	1	55500025	C	A
LDL-C	1	55500429	G	A
LDL-C	1	55503448	G	A
LDL-C	1	55504650	G	A
LDL-C	1	55505647	T	G
LDL-C	1	55505861	G	A
LDL-C	1	55507649	T	C
LDL-C	1	55511623	TC	T
LDL-C	1	55511995	G	A
LDL-C	1	55518467	G	A
LDL-C	1	55518528	C	A
LDL-C	1	55519174	G	A
LDL-C	1	55519238	T	C
LDL-C	1	55520212	G	A
LDL-C	1	55520265	T	C
LDL-C	1	55520864	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
LDL-C	1	55521109	G	A
LDL-C	1	55522141	G	A
LDL-C	1	55522425	G	A
LDL-C	1	55523361	G	A
LDL-C	1	55524116	T	C
LDL-C	1	55524237	G	A
LDL-C	1	55524601	G	A
LDL-C	1	55527479	G	A
LDL-C	1	55527918	T	C
LDL-C	1	55538552	T	G
LDL-C	1	55636240	T	C
LDL-C	1	55656075	T	G
LDL-C	1	55711465	G	A
LDL-C	1	55713094	G	A
LDL-C	1	55713628	G	A
LDL-C	1	55716497	G	A
LDL-C	1	55719011	G	A
LDL-C	1	55719166	T	G
LDL-C	1	55719847	CAT	C
LDL-C	1	55720083	C	A
LDL-C	1	55720337	G	A
LDL-C	1	55723756	C	A
LDL-C	1	55726519	T	C
LDL-C	1	55730327	T	C
LDL-C	1	55731772	TC	T
LDL-C	1	55732596	ATTGT	A
LDL-C	1	55732837	T	C
LDL-C	1	55734875	T	C
LDL-C	1	55738663	T	C
LDL-C	1	55739925	T	C
LDL-C	1	55740015	T	C
LDL-C	1	55741377	G	A
LDL-C	1	55742091	G	A
LDL-C	1	55744167	T	C
LDL-C	1	55744966	G	A
LDL-C	1	55746330	G	A
LDL-C	1	55750138	T	C
LDL-C	1	55752440	T	C
LDL-C	1	55752699	TA	T
LDL-C	1	55754727	G	A
LDL-C	1	55767547	T	C
LDL-C	1	55785672	T	C
LDL-C	1	55785815	T	G
LDL-C	1	55786637	T	C

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
LDL-C	1	55793244	G	A
LDL-C	1	55795814	G	A
LDL-C	1	55796086	T	C
LDL-C	1	55808143	T	C
LDL-C	1	55814244	T	C
LDL-C	1	55815584	G	A
LDL-C	1	55820713	C	A
LDL-C	1	55837603	G	A
LDL-C	1	55843810	T	C
LDL-C	1	55847507	G	A
LDL-C	1	55960656	G	A
LDL-C	1	56035239	T	C
LDL-C	1	56258328	T	C
LDL-C	1	56261771	C	A
LDL-C	1	56267033	G	A
LDL-C	1	56321074	G	A
LDL-C	1	56387285	G	A
LDL-C	1	56413519	T	C
LDL-C	1	56414772	G	A
LDL-C	1	56415347	G	A
LDL-C	1	56625395	G	A
LDL-C	1	56763141	T	C
LDL-C	1	56823728	G	A
LDL-C	1	56885874	G	A
LDL-C	2	20705963	G	A
LDL-C	2	20709694	G	A
LDL-C	2	20902748	C	A
LDL-C	2	20903015	T	C
LDL-C	2	20928295	GCT	G
LDL-C	2	20928972	CT	C
LDL-C	2	20955032	AG	A
LDL-C	2	20991528	T	G
LDL-C	2	21050729	GA	G
LDL-C	2	21076264	TA	T
LDL-C	2	21083052	T	C
LDL-C	2	21085410	T	C
LDL-C	2	21087323	TCTC	T
LDL-C	2	21088464	G	A
LDL-C	2	21091409	C	A
LDL-C	2	21093112	G	A
LDL-C	2	21098248	C	A
LDL-C	2	21099311	T	C
LDL-C	2	21100426	T	C
LDL-C	2	21101046	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
LDL-C	2	21105335	G	A
LDL-C	2	21107494	T	G
LDL-C	2	21111034	T	C
LDL-C	2	21111763	G	A
LDL-C	2	21112689	G	A
LDL-C	2	21121464	T	C
LDL-C	2	21126936	G	A
LDL-C	2	21133883	G	A
LDL-C	2	21134011	T	C
LDL-C	2	21135187	G	A
LDL-C	2	21135577	G	A
LDL-C	2	21135723	T	G
LDL-C	2	21137425	T	C
LDL-C	2	21138066	T	C
LDL-C	2	21140540	T	C
LDL-C	2	21141725	G	A
LDL-C	2	21142994	T	C
LDL-C	2	21143289	T	C
LDL-C	2	21143329	G	A
LDL-C	2	21148274	C	A
LDL-C	2	21150787	T	C
LDL-C	2	21151408	G	A
LDL-C	2	21151917	T	C
LDL-C	2	21152755	G	A
LDL-C	2	21182116	G	A
LDL-C	2	21182710	G	A
LDL-C	2	21187599	G	A
LDL-C	2	21189091	T	C
LDL-C	2	21190024	T	C
LDL-C	2	21190209	T	C
LDL-C	2	21196112	G	A
LDL-C	2	21196346	T	G
LDL-C	2	21197159	T	C
LDL-C	2	21202959	C	A
LDL-C	2	21205920	T	C
LDL-C	2	21215645	T	C
LDL-C	2	21216815	C	A
LDL-C	2	21217490	T	C
LDL-C	2	21219001	T	G
LDL-C	2	21221133	G	A
LDL-C	2	21225753	T	C
LDL-C	2	21231524	G	A
LDL-C	2	21232804	G	A
LDL-C	2	21233972	T	C

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
LDL-C	2	21239667	T	C
LDL-C	2	21241744	T	C
LDL-C	2	21244000	T	G
LDL-C	2	21245367	G	A
LDL-C	2	21247211	T	C
LDL-C	2	21250914	G	A
LDL-C	2	21251040	T	G
LDL-C	2	21259562	T	C
LDL-C	2	21259612	G	A
LDL-C	2	21260601	G	A
LDL-C	2	21262427	G	A
LDL-C	2	21263639	T	G
LDL-C	2	21263900	G	A
LDL-C	2	21266774	GGCAGCGCCG	A
LDL-C	2	21267210	G	A
LDL-C	2	21267461	G	A
LDL-C	2	21270751	G	A
LDL-C	2	21271323	G	A
LDL-C	2	21273490	T	G
LDL-C	2	21277922	G	A
LDL-C	2	21281856	G	A
LDL-C	2	21286057	T	C
LDL-C	2	21288226	G	A
LDL-C	2	21290067	T	C
LDL-C	2	21292377	C	A
LDL-C	2	21294975	G	A
LDL-C	2	21303616	T	C
LDL-C	2	21309335	T	C
LDL-C	2	21311541	T	G
LDL-C	2	21311691	G	A
LDL-C	2	21313577	G	A
LDL-C	2	21313778	TC	T
LDL-C	2	21319986	GTGATGT	G
LDL-C	2	21323868	CTGT	C
LDL-C	2	21327635	G	A
LDL-C	2	21328825	G	A
LDL-C	2	21367696	TTGAAGAC	T
LDL-C	2	21368217	G	A
LDL-C	2	21371068	T	C
LDL-C	2	21378453	G	A
LDL-C	2	21381177	G	A
LDL-C	2	21381214	C	A
LDL-C	2	21381292	AAAAC	A
LDL-C	2	21383353	T	C

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
LDL-C	2	21383514	G	A
LDL-C	2	21389659	T	G
LDL-C	2	21393623	G	A
LDL-C	2	21396092	GAA	G
LDL-C	2	21397182	G	A
LDL-C	2	21401902	GAAAGAT	G
LDL-C	2	21404245	CTA	C
LDL-C	2	21406048	T	C
LDL-C	2	21411649	G	A
LDL-C	2	21413077	G	A
LDL-C	2	21414142	T	C
LDL-C	2	21415728	T	G
LDL-C	2	21419650	G	A
LDL-C	2	21420358	C	A
LDL-C	2	21423218	AT	A
LDL-C	2	21423532	G	A
LDL-C	2	21426683	AAAAG	A
LDL-C	2	21428049	C	A
LDL-C	2	21428185	G	A
LDL-C	2	21434580	G	A
LDL-C	2	21435700	C	A
LDL-C	2	21437321	T	G
LDL-C	2	21438738	G	A
LDL-C	2	21439329	T	G
LDL-C	2	21442944	TTGCTCCCCTCTGCTTAGCA	
LDL-C	2	21445569	G	A
LDL-C	2	21448511	G	A
LDL-C	2	21449034	T	C
LDL-C	2	21449987	G	A
LDL-C	2	21450714	G	A
LDL-C	2	21451604	T	C
LDL-C	2	21451687	G	A
LDL-C	2	21453733	G	A
LDL-C	2	21457324	G	A
LDL-C	2	21460176	T	C
LDL-C	2	21463922	T	C
LDL-C	2	21467872	ATT	A
LDL-C	2	21469336	T	C
LDL-C	2	21469738	T	G
LDL-C	2	21470596	G	A
LDL-C	2	21470987	T	C
LDL-C	2	21471603	T	C
LDL-C	2	21475944	T	C
LDL-C	2	21476247	C	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
LDL-C	2	21476634	G	A
LDL-C	2	21477012	T	G
LDL-C	2	21482889	TGCACTGAGT	
LDL-C	2	21524000	G	A
LDL-C	2	21530659	G	A
LDL-C	2	21534103	T	C
LDL-C	2	21534298	T	G
LDL-C	2	44052743	GTTA	G
LDL-C	2	44057570	C	A
LDL-C	2	44057825	TCTC	T
LDL-C	2	44058201	G	A
LDL-C	2	44073656	T	C
LDL-C	2	44073881	T	C
LDL-C	2	44074000	G	A
LDL-C	2	44074431	T	C
LDL-C	2	44080324	G	A
LDL-C	2	44088039	G	A
LDL-C	2	44088041	C	A
LDL-C	2	44096259	T	G
LDL-C	2	44096402	G	A
LDL-C	4	73240747	G	A
LDL-C	4	73406173	G	A
LDL-C	4	73412023	T	C
LDL-C	4	73542640	T	G
LDL-C	4	74720969	C	A
LDL-C	4	74805105	G	A
LDL-C	4	74970615	C	A
LDL-C	4	75012853	G	A
LDL-C	4	75128036	G	A
LDL-C	4	75242737	CT	C
LDL-C	4	75321980	T	C
LDL-C	4	75370891	T	C
LDL-C	4	75684215	T	C
LDL-C	5	74302658	G	A
LDL-C	5	74340327	C	A
LDL-C	5	74352180	G	A
LDL-C	5	74354875	T	G
LDL-C	5	74360981	ATCT	A
LDL-C	5	74368254	T	C
LDL-C	5	74372141	T	C
LDL-C	5	74384115	G	A
LDL-C	5	74389325	C	A
LDL-C	5	74413713	T	C
LDL-C	5	74420422	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
LDL-C	5	74443132	T	C
LDL-C	5	74461850	T	G
LDL-C	5	74476396	G	A
LDL-C	5	74477719	TA	T
LDL-C	5	74479238	T	C
LDL-C	5	74480288	T	C
LDL-C	5	74547484	C	A
LDL-C	5	74558893	G	A
LDL-C	5	74560652	T	C
LDL-C	5	74562564	T	C
LDL-C	5	74567359	G	A
LDL-C	5	74574984	G	A
LDL-C	5	74586866	CT	C
LDL-C	5	74587940	C	A
LDL-C	5	74596682	T	G
LDL-C	5	74602699	C	A
LDL-C	5	74604742	G	A
LDL-C	5	74605220	G	A
LDL-C	5	74611232	TG	T
LDL-C	5	74613943	T	C
LDL-C	5	74615021	T	C
LDL-C	5	74616843	T	C
LDL-C	5	74619639	T	C
LDL-C	5	74622121	TTA	T
LDL-C	5	74624234	G	A
LDL-C	5	74625512	G	A
LDL-C	5	74629162	CAT	C
LDL-C	5	74630189	T	C
LDL-C	5	74630277	T	G
LDL-C	5	74631352	T	C
LDL-C	5	74641090	CT	C
LDL-C	5	74643998	ATTC	A
LDL-C	5	74644785	TA	T
LDL-C	5	74651084	G	A
LDL-C	5	74652754	ATCCATCCGTATGTCCG	
LDL-C	5	74653462	T	G
LDL-C	5	74656539	T	C
LDL-C	5	74660064	ATTG	A
LDL-C	5	74660356	T	C
LDL-C	5	74673707	G	A
LDL-C	5	74692776	G	A
LDL-C	5	74697050	T	G
LDL-C	5	74717653	T	C
LDL-C	5	74717767	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
LDL-C	5	74736600	TA	T
LDL-C	5	74745228	T	G
LDL-C	5	74808237	T	G
LDL-C	5	74826735	G	A
LDL-C	5	74832919	T	C
LDL-C	5	74879890	G	A
LDL-C	5	74906963	C	A
LDL-C	5	74952861	C	A
LDL-C	5	74953504	T	C
LDL-C	5	74956517	T	C
LDL-C	5	74965122	G	A
LDL-C	5	74967386	T	C
LDL-C	5	75003056	G	A
LDL-C	5	75003678	T	C
LDL-C	5	75034387	T	C
LDL-C	5	75038267	G	A
LDL-C	6	31901264	G	A
LDL-C	6	32024234	G	A
LDL-C	6	32093029	T	C
LDL-C	7	100897350	G	A
LDL-C	7	100897643	T	G
LDL-C	7	21557854	G	A
LDL-C	7	21563471	T	C
LDL-C	7	21567331	T	C
LDL-C	7	21569089	G	A
LDL-C	7	21576905	T	C
LDL-C	7	21577960	T	C
LDL-C	7	21582917	T	C
LDL-C	7	21586595	T	C
LDL-C	7	21588243	C	A
LDL-C	7	21589030	T	C
LDL-C	7	21589243	G	A
LDL-C	7	21592217	G	A
LDL-C	7	21593289	T	C
LDL-C	7	21596006	G	A
LDL-C	7	21599807	C	A
LDL-C	7	21601659	GCTCT	G
LDL-C	7	21602065	G	A
LDL-C	7	21603601	G	A
LDL-C	7	21603678	G	A
LDL-C	7	21607352	T	C
LDL-C	7	21614216	T	C
LDL-C	7	21627909	G	A
LDL-C	7	21631827	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
LDL-C	7	21637976	G	A
LDL-C	7	21643513	T	C
LDL-C	7	21647114	T	G
LDL-C	7	21650595	G	A
LDL-C	7	21653877	G	A
LDL-C	7	21670593	G	A
LDL-C	7	21670846	G	A
LDL-C	7	44580876	T	G
LDL-C	8	108336960	T	G
LDL-C	8	108341989	G	A
LDL-C	8	108352779	T	C
LDL-C	8	108354035	G	A
LDL-C	8	126476873	T	C
LDL-C	8	126479362	T	C
LDL-C	8	126486409	G	A
LDL-C	8	126488930	G	A
LDL-C	8	126495818	T	C
LDL-C	8	126506694	G	A
LDL-C	8	144974963	G	A
LDL-C	8	144976572	G	A
LDL-C	8	144976720	T	C
LDL-C	8	144978607	T	G
LDL-C	8	144984283	T	C
LDL-C	8	144992103	T	C
LDL-C	8	144997927	G	A
LDL-C	8	145003777	G	A
LDL-C	8	145004944	T	C
LDL-C	8	145013164	TC	T
LDL-C	8	145031265	G	A
LDL-C	8	145043543	G	A
LDL-C	8	145057868	G	A
LDL-C	8	145058037	G	A
LDL-C	8	145058986	G	A
LDL-C	8	145062020	T	C
LDL-C	8	145068489	AG	A
LDL-C	8	145071742	TC	T
LDL-C	8	145073663	T	C
LDL-C	8	145081248	G	A
LDL-C	8	9173358	G	A
LDL-C	8	9181395	G	A
LDL-C	8	9183596	G	A
LDL-C	8	9183664	G	A
LDL-C	8	9185146	T	C
LDL-C	8	9192423	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
LDL-C	8	9201787	T	C
LDL-C	8	9206069	G	A
LDL-C	8	9206678	G	A
LDL-C	8	9211723	G	A
LDL-C	9	136139907	GAAACTGCCG	
LDL-C	9	136145425	C	A
LDL-C	9	136146597	T	C
LDL-C	9	136149399	G	A
LDL-C	9	136153875	T	C
LDL-C	9	136154168	T	C
LDL-C	9	136184782	G	A
LDL-C	9	2644315	T	C
HDL-C	10	49910599	T	C
HDL-C	11	116499500	G	A
HDL-C	11	116521316	G	A
HDL-C	11	116522854	G	A
HDL-C	11	116525867	T	C
HDL-C	11	116526322	C	A
HDL-C	11	116586283	T	C
HDL-C	11	116598988	G	A
HDL-C	11	116603724	C	A
HDL-C	11	116606766	G	A
HDL-C	11	116607368	C	A
HDL-C	11	116611985	G	A
HDL-C	11	116614863	T	C
HDL-C	11	116621963	T	G
HDL-C	11	116629949	T	C
HDL-C	11	116631707	T	C
HDL-C	11	116632975	G	A
HDL-C	11	116633862	G	A
HDL-C	11	116639104	G	A
HDL-C	11	116639692	T	C
HDL-C	11	116645275	T	C
HDL-C	11	116651115	T	C
HDL-C	11	116652423	G	A
HDL-C	11	116657561	T	C
HDL-C	11	116660686	G	A
HDL-C	11	116660813	G	A
HDL-C	11	116661826	T	C
HDL-C	11	116662579	T	C
HDL-C	11	116664040	G	A
HDL-C	11	116699395	C	A
HDL-C	11	116705278	T	C
HDL-C	11	116708413	T	C

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
HDL-C	11	116869217	T	C
HDL-C	11	116883665	T	C
HDL-C	11	116933363	GA	G
HDL-C	11	116963312	T	C
HDL-C	11	117027942	T	C
HDL-C	11	117071505	T	C
HDL-C	11	117095283	T	C
HDL-C	11	47246397	G	A
HDL-C	11	47290984	T	G
HDL-C	11	61547237	T	C
HDL-C	11	61564299	T	G
HDL-C	11	61580635	T	C
HDL-C	11	61581656	G	A
HDL-C	11	61581764	T	C
HDL-C	11	61586328	CT	C
HDL-C	11	61589481	G	A
HDL-C	11	61591995	GAA	G
HDL-C	11	61594920	CT	C
HDL-C	11	61597212	T	C
HDL-C	11	61597972	G	A
HDL-C	11	61603237	T	C
HDL-C	11	61605215	G	A
HDL-C	11	61611216	T	C
HDL-C	11	61616012	G	A
HDL-C	11	61618012	T	C
HDL-C	11	61620628	AAACAAC	A
HDL-C	11	61620703	CTCTT	C
HDL-C	11	61621194	G	A
HDL-C	11	61623140	T	C
HDL-C	11	61624181	T	C
HDL-C	11	61624414	T	C
HDL-C	11	61625723	CA	C
HDL-C	11	61626206	G	A
HDL-C	11	61627811	T	C
HDL-C	11	61629122	G	A
HDL-C	11	61629666	G	A
HDL-C	11	61637587	T	C
HDL-C	11	61639488	T	C
HDL-C	11	61641542	T	G
HDL-C	11	61647427	T	G
HDL-C	11	61656117	G	A
HDL-C	11	61656182	C	A
HDL-C	11	61656995	T	C
HDL-C	11	61657110	T	C

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
HDL-C	12	109953417	G	A
HDL-C	12	125264293	G	A
HDL-C	12	125282882	G	A
HDL-C	12	125284748	G	A
HDL-C	12	125286037	T	C
HDL-C	12	125293619	T	C
HDL-C	12	125293686	G	A
HDL-C	12	125295383	T	C
HDL-C	12	125317391	C	A
HDL-C	12	125324197	G	A
HDL-C	12	125324798	C	A
HDL-C	12	125335510	C	A
HDL-C	12	125338336	T	C
HDL-C	12	125339095	G	A
HDL-C	12	125345448	G	A
HDL-C	12	125349480	G	A
HDL-C	12	125351116	T	C
HDL-C	12	125351149	G	A
HDL-C	12	125351772	T	C
HDL-C	12	125352603	T	C
HDL-C	12	125363987	C	A
HDL-C	12	125380232	G	A
HDL-C	15	58557062	G	A
HDL-C	15	58579369	TATCAC	T
HDL-C	15	58580525	G	A
HDL-C	15	58586129	T	C
HDL-C	15	58591415	T	C
HDL-C	15	58611859	T	G
HDL-C	15	58630019	T	G
HDL-C	15	58661083	T	C
HDL-C	15	58670135	T	C
HDL-C	15	58671178	C	A
HDL-C	15	58671721	G	A
HDL-C	15	58671765	T	G
HDL-C	15	58672134	T	C
HDL-C	15	58674051	G	A
HDL-C	15	58674308	G	A
HDL-C	15	58678512	T	C
HDL-C	15	58679668	G	A
HDL-C	15	58679807	CAGA	C
HDL-C	15	58680638	T	C
HDL-C	15	58680639	T	C
HDL-C	15	58680805	G	A
HDL-C	15	58680954	T	C

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
HDL-C	15	58682690	G	A
HDL-C	15	58683366	G	A
HDL-C	15	58683697	T	C
HDL-C	15	58684478	T	C
HDL-C	15	58684967	T	G
HDL-C	15	58686252	G	A
HDL-C	15	58686338	G	A
HDL-C	15	58687530	G	A
HDL-C	15	58687603	T	C
HDL-C	15	58687862	G	A
HDL-C	15	58687880	T	C
HDL-C	15	58688477	G	A
HDL-C	15	58688478	C	A
HDL-C	15	58689187	T	C
HDL-C	15	58690738	C	A
HDL-C	15	58690754	G	A
HDL-C	15	58692202	C	A
HDL-C	15	58692479	T	C
HDL-C	15	58692715	T	C
HDL-C	15	58693860	T	C
HDL-C	15	58694020	T	G
HDL-C	15	58696300	T	C
HDL-C	15	58698113	T	G
HDL-C	15	58698243	T	G
HDL-C	15	58698755	T	G
HDL-C	15	58699010	T	C
HDL-C	15	58699937	T	C
HDL-C	15	58700311	T	C
HDL-C	15	58702325	G	A
HDL-C	15	58703069	C	A
HDL-C	15	58704064	T	G
HDL-C	15	58705029	T	C
HDL-C	15	58705658	AC	A
HDL-C	15	58706797	G	A
HDL-C	15	58709181	T	C
HDL-C	15	58709182	G	A
HDL-C	15	58710627	C	A
HDL-C	15	58710736	T	C
HDL-C	15	58712203	T	G
HDL-C	15	58712945	C	A
HDL-C	15	58712973	T	C
HDL-C	15	58716044	G	A
HDL-C	15	58716257	G	A
HDL-C	15	58716615	T	G

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
HDL-C	15	58717919	T	C
HDL-C	15	58718529	CA	C
HDL-C	15	58719741	G	A
HDL-C	15	58720431	C	A
HDL-C	15	58721302	G	A
HDL-C	15	58721614	G	A
HDL-C	15	58722590	GC	G
HDL-C	15	58723479	T	C
HDL-C	15	58723675	T	C
HDL-C	15	58724371	T	C
HDL-C	15	58724706	G	A
HDL-C	15	58727279	T	C
HDL-C	15	58727325	G	A
HDL-C	15	58728067	G	A
HDL-C	15	58729144	T	C
HDL-C	15	58730498	T	C
HDL-C	15	58731395	T	C
HDL-C	15	58731455	T	C
HDL-C	15	58731567	G	A
HDL-C	15	58735222	C	A
HDL-C	15	58735638	T	G
HDL-C	15	58736778	T	C
HDL-C	15	58737341	T	G
HDL-C	15	58738423	T	C
HDL-C	15	58741891	G	A
HDL-C	15	58742418	G	A
HDL-C	15	58742731	T	G
HDL-C	15	58743022	T	G
HDL-C	15	58743709	T	C
HDL-C	15	58882792	T	C
HDL-C	15	58899609	T	C
HDL-C	15	58947292	T	C
HDL-C	15	59093625	G	A
HDL-C	15	59351989	G	A
HDL-C	15	59566385	T	C
HDL-C	15	59585013	T	C
HDL-C	15	59806496	T	G
HDL-C	16	56742475	G	A
HDL-C	16	56745752	T	C
HDL-C	16	56758596	G	A
HDL-C	16	56759532	G	A
HDL-C	16	56808843	G	A
HDL-C	16	56811400	G	A
HDL-C	16	56827946	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
HDL-C	16	56866054	AT	A
HDL-C	16	56898198	G	A
HDL-C	16	56899006	T	C
HDL-C	16	56900100	G	A
HDL-C	16	56900931	T	C
HDL-C	16	56909598	T	C
HDL-C	16	56910692	T	G
HDL-C	16	56920104	G	A
HDL-C	16	56920146	G	A
HDL-C	16	56922660	T	C
HDL-C	16	56927720	T	C
HDL-C	16	56929944	G	A
HDL-C	16	56930251	T	C
HDL-C	16	56932531	G	A
HDL-C	16	56933519	G	A
HDL-C	16	56938016	G	A
HDL-C	16	56938522	T	C
HDL-C	16	56938955	C	A
HDL-C	16	56939969	G	A
HDL-C	16	56940513	T	C
HDL-C	16	56940874	T	C
HDL-C	16	56942709	G	A
HDL-C	16	56945049	C	A
HDL-C	16	56952098	G	A
HDL-C	16	56953261	G	A
HDL-C	16	56960147	G	A
HDL-C	16	56972713	G	A
HDL-C	16	56980135	G	A
HDL-C	16	56982549	T	C
HDL-C	16	56984482	T	C
HDL-C	16	56984590	T	C
HDL-C	16	56984763	G	A
HDL-C	16	56985139	G	A
HDL-C	16	56985156	G	A
HDL-C	16	56985514	G	A
HDL-C	16	56985555	G	A
HDL-C	16	56985805	T	C
HDL-C	16	56986762	T	G
HDL-C	16	56988044	T	C
HDL-C	16	56988503	T	C
HDL-C	16	56990716	C	A
HDL-C	16	56991363	T	C
HDL-C	16	56991524	G	A
HDL-C	16	56991741	T	C

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
HDL-C	16	56992017	G	A
HDL-C	16	56993025	T	G
HDL-C	16	56993211	T	C
HDL-C	16	56993324	C	A
HDL-C	16	56993897	C	A
HDL-C	16	56993901	C	A
HDL-C	16	56993909	C	A
HDL-C	16	56994192	T	C
HDL-C	16	56994212	T	C
HDL-C	16	56994244	TA	T
HDL-C	16	56994894	G	A
HDL-C	16	56995038	T	C
HDL-C	16	56995236	C	A
HDL-C	16	56996158	T	C
HDL-C	16	56996211	G	A
HDL-C	16	56996645	GCC	G
HDL-C	16	56997233	G	A
HDL-C	16	56997349	CA	C
HDL-C	16	56998918	G	A
HDL-C	16	56999258	C	A
HDL-C	16	56999328	T	C
HDL-C	16	57000284	G	A
HDL-C	16	57000938	G	A
HDL-C	16	57001254	TCACA	T
HDL-C	16	57001274	AC	A
HDL-C	16	57002118	T	G
HDL-C	16	57002404	C	A
HDL-C	16	57002732	T	G
HDL-C	16	57003146	T	C
HDL-C	16	57004889	G	A
HDL-C	16	57005479	C	A
HDL-C	16	57006590	T	C
HDL-C	16	57007353	T	C
HDL-C	16	57007451	G	A
HDL-C	16	57008048	G	A
HDL-C	16	57009651	TC	T
HDL-C	16	57010232	T	C
HDL-C	16	57010382	T	G
HDL-C	16	57010486	T	C
HDL-C	16	57010948	T	G
HDL-C	16	57011185	G	A
HDL-C	16	57012699	G	A
HDL-C	16	57014610	T	C
HDL-C	16	57014875	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
HDL-C	16	57016092	G	A
HDL-C	16	57017002	T	G
HDL-C	16	57017319	G	A
HDL-C	16	57019392	T	C
HDL-C	16	57021433	G	A
HDL-C	16	57060097	T	C
HDL-C	16	68090982	TATATA	T
HDL-C	16	68229579	TGGTCGC	T
HDL-C	17	41840849	T	C
HDL-C	17	41926126	T	C
HDL-C	17	41999943	G	A
HDL-C	18	46529282	T	G
HDL-C	18	47049700	G	A
HDL-C	18	47066144	C	A
HDL-C	18	47093864	T	C
HDL-C	18	47096016	G	A
HDL-C	18	47109955	G	A
HDL-C	18	47128176	T	C
HDL-C	18	47129148	T	C
HDL-C	18	47131888	C	A
HDL-C	18	47133828	G	A
HDL-C	18	47134175	T	C
HDL-C	18	47147746	G	A
HDL-C	18	47148299	T	C
HDL-C	18	47148886	T	C
HDL-C	18	47149371	G	A
HDL-C	18	47149635	C	A
HDL-C	18	47156730	G	A
HDL-C	18	47157004	T	C
HDL-C	18	47158186	T	C
HDL-C	18	47158234	T	C
HDL-C	18	47159090	G	A
HDL-C	18	47160814	G	A
HDL-C	18	47161733	T	C
HDL-C	18	47161892	T	C
HDL-C	18	47166694	G	A
HDL-C	18	47168648	G	A
HDL-C	18	47169340	T	G
HDL-C	18	47170139	ACCTG	A
HDL-C	18	47176261	C	A
HDL-C	18	47176793	G	A
HDL-C	18	47179516	G	A
HDL-C	18	47182664	G	A
HDL-C	18	47183012	T	C

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
HDL-C	18	47184006	G	A
HDL-C	18	47243912	C	A
HDL-C	18	47277223	T	C
HDL-C	19	11317744	T	C
HDL-C	19	11346550	T	C
HDL-C	19	11347493	T	C
HDL-C	19	45396665	T	G
HDL-C	19	45413576	T	C
HDL-C	19	8429323	G	A
HDL-C	1	182161829	T	C
HDL-C	1	182168885	G	A
HDL-C	1	182170792	T	C
HDL-C	1	220967683	G	A
HDL-C	1	220970028	G	A
HDL-C	1	220973563	T	C
HDL-C	1	230280696	T	C
HDL-C	1	230293530	T	C
HDL-C	1	230294989	C	A
HDL-C	1	230295245	T	C
HDL-C	1	230295691	G	A
HDL-C	1	230300481	T	C
HDL-C	1	230302521	T	G
HDL-C	1	230303512	T	C
HDL-C	1	230307182	T	C
HDL-C	1	230307222	T	G
HDL-C	1	230309619	G	A
HDL-C	1	230310568	T	C
HDL-C	1	230324067	T	G
HDL-C	1	230324119	G	A
HDL-C	1	230324801	G	A
HDL-C	20	43042364	T	C
HDL-C	20	44534651	G	A
HDL-C	20	44554015	T	C
HDL-C	20	44563007	T	C
HDL-C	20	44576502	T	C
HDL-C	2	136429366	T	C
HDL-C	2	136608646	G	A
HDL-C	2	136636324	G	A
HDL-C	2	136696138	G	A
HDL-C	2	21123352	C	A
HDL-C	2	21134011	T	C
HDL-C	2	21143982	T	C
HDL-C	2	21148274	C	A
HDL-C	2	21198900	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
HDL-C	2	21208211	G	A
HDL-C	2	21240031	C	A
HDL-C	2	21240364	G	A
HDL-C	2	21245329	T	G
HDL-C	2	21267782	T	C
HDL-C	2	21269809	G	A
HDL-C	2	227105921	T	C
HDL-C	2	227159867	G	A
HDL-C	4	103188709	T	C
HDL-C	4	103198082	G	A
HDL-C	4	69450464	T	C
HDL-C	8	19554301	T	C
HDL-C	8	19662458	G	A
HDL-C	8	19734951	G	A
HDL-C	8	19737157	G	A
HDL-C	8	19755175	C	A
HDL-C	8	19756592	T	C
HDL-C	8	19774890	C	A
HDL-C	8	19776981	C	A
HDL-C	8	19777695	T	C
HDL-C	8	19786891	T	C
HDL-C	8	19791071	T	C
HDL-C	8	19791346	T	C
HDL-C	8	19793581	T	C
HDL-C	8	19801530	T	G
HDL-C	8	19803093	T	C
HDL-C	8	19810787	C	A
HDL-C	8	19811901	T	C
HDL-C	8	19812812	T	C
HDL-C	8	19813180	G	A
HDL-C	8	19813529	G	A
HDL-C	8	19815098	T	C
HDL-C	8	19815189	T	C
HDL-C	8	19815556	G	A
HDL-C	8	19816078	TA	T
HDL-C	8	19816934	T	C
HDL-C	8	19818042	G	A
HDL-C	8	19819439	G	A
HDL-C	8	19820405	G	A
HDL-C	8	19824626	CTT	C
HDL-C	8	19826373	G	A
HDL-C	8	19827848	C	A
HDL-C	8	19830170	T	G
HDL-C	8	19830921	T	C

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
HDL-C	8	19838469	T	C
HDL-C	8	19839709	T	C
HDL-C	8	19843861	G	A
HDL-C	8	19843879	T	C
HDL-C	8	19844222	G	A
HDL-C	8	19849757	G	A
HDL-C	8	19849992	T	C
HDL-C	8	19852156	T	G
HDL-C	8	19852176	TTC	T
HDL-C	8	19855844	GTATTTT	G
HDL-C	8	19855853	TTTTTA	T
HDL-C	8	19856539	T	C
HDL-C	8	19862746	G	A
HDL-C	8	19865175	G	A
HDL-C	8	19865843	G	A
HDL-C	8	19866631	G	A
HDL-C	8	19867853	G	A
HDL-C	8	19868386	C	A
HDL-C	8	19868971	T	C
HDL-C	8	19870271	C	A
HDL-C	8	19870693	G	A
HDL-C	8	19870735	G	A
HDL-C	8	19871080	G	A
HDL-C	8	19871113	T	C
HDL-C	8	19874932	AAGAC	A
HDL-C	8	19875100	T	C
HDL-C	8	19876301	GA	G
HDL-C	8	19878356	T	C
HDL-C	8	19882950	T	C
HDL-C	8	19885726	T	C
HDL-C	8	19888586	T	C
HDL-C	8	19889125	T	G
HDL-C	8	19889399	T	G
HDL-C	8	19890612	G	A
HDL-C	8	19890776	C	A
HDL-C	8	19894504	T	C
HDL-C	8	19899046	T	C
HDL-C	8	19912370	G	A
HDL-C	8	19914598	C	A
HDL-C	8	19922610	G	A
HDL-C	8	19928160	G	A
HDL-C	8	19928582	G	A
HDL-C	8	19931193	T	C
HDL-C	8	19932088	T	C

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
HDL-C	8	19933896	T	C
HDL-C	8	19934339	T	C
HDL-C	8	19936687	G	A
HDL-C	8	19938922	T	C
HDL-C	8	19938946	T	C
HDL-C	8	19939049	T	C
HDL-C	8	19941145	C	A
HDL-C	8	19941448	T	C
HDL-C	8	19942181	T	G
HDL-C	8	19942806	G	A
HDL-C	8	19943027	G	A
HDL-C	8	19943308	G	A
HDL-C	8	9177732	T	G
HDL-C	8	9179298	T	G
HDL-C	8	9181611	G	A
HDL-C	8	9183596	G	A
HDL-C	8	9184691	T	C
HDL-C	8	9187242	G	A
HDL-C	8	9190564	T	C
HDL-C	8	9192423	G	A
HDL-C	8	9201787	T	C
HDL-C	8	9206069	G	A
HDL-C	8	9206678	G	A
HDL-C	8	9219868	G	A
HDL-C	8	9219869	G	A
HDL-C	9	107629336	T	C
HDL-C	9	107635869	T	C
HDL-C	9	107636707	C	A
HDL-C	9	107639180	G	A
HDL-C	9	107642287	T	C
HDL-C	9	107650345	T	G
HDL-C	9	107650355	T	G
HDL-C	9	107651526	G	A
HDL-C	9	107655426	T	G
HDL-C	9	107657070	G	A
HDL-C	9	107658910	C	A
HDL-C	9	107661742	C	A
HDL-C	9	107664301	T	C
HDL-C	9	107665739	G	A
HDL-C	9	107666414	T	C
HDL-C	9	107669073	T	C
HDL-C	9	107669241	T	C
HDL-C	9	107672526	T	G
HDL-C	9	117138278	T	C

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
HDL-C	9	15285329	T	C
HDL-C	9	15289578	T	C
HDL-C	9	15293513	T	C
HDL-C	9	15296034	C	A
HDL-C	9	15298666	T	C
TG	10	65340897	G	A
TG	11	116489979	T	C
TG	11	116493950	T	G
TG	11	116496360	T	C
TG	11	116499500	G	A
TG	11	116511028	G	A
TG	11	116515557	T	C
TG	11	116519655	T	C
TG	11	116519739	T	C
TG	11	116520398	T	C
TG	11	116522223	CT	C
TG	11	116522854	G	A
TG	11	116522961	T	C
TG	11	116522976	AAGTGG	A
TG	11	116524569	CTT	C
TG	11	116525867	T	C
TG	11	116526032	CCT	C
TG	11	116526322	C	A
TG	11	116527728	G	A
TG	11	116528544	T	C
TG	11	116528876	T	C
TG	11	116536418	G	A
TG	11	116552562	T	C
TG	11	116553025	G	A
TG	11	116555033	TA	T
TG	11	116557248	T	C
TG	11	116558427	G	A
TG	11	116559002	T	C
TG	11	116559553	T	G
TG	11	116560447	T	C
TG	11	116560667	T	G
TG	11	116561996	T	C
TG	11	116562580	C	A
TG	11	116567619	T	C
TG	11	116568168	G	A
TG	11	116570942	G	A
TG	11	116571284	T	C
TG	11	116571608	G	A
TG	11	116572089	T	C

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
TG	11	116574488	G	A
TG	11	116576400	T	C
TG	11	116576415	G	A
TG	11	116577441	G	A
TG	11	116578982	G	A
TG	11	116579663	T	C
TG	11	116580816	T	C
TG	11	116581259	T	C
TG	11	116583017	G	A
TG	11	116584987	T	C
TG	11	116585533	G	A
TG	11	116586283	T	C
TG	11	116586423	T	C
TG	11	116590787	G	A
TG	11	116592203	G	A
TG	11	116595756	T	C
TG	11	116596309	C	A
TG	11	116598315	T	C
TG	11	116598988	G	A
TG	11	116599392	T	C
TG	11	116601945	G	A
TG	11	116603677	G	A
TG	11	116603724	C	A
TG	11	116604449	AGGCTGG	A
TG	11	116606766	G	A
TG	11	116607368	C	A
TG	11	116610249	G	A
TG	11	116613660	T	C
TG	11	116613840	CTAAA	C
TG	11	116619605	G	A
TG	11	116620256	C	A
TG	11	116622722	T	C
TG	11	116623659	T	C
TG	11	116624601	C	A
TG	11	116624703	T	G
TG	11	116625875	T	G
TG	11	116631707	T	C
TG	11	116632798	T	C
TG	11	116634173	T	C
TG	11	116639104	G	A
TG	11	116639692	T	C
TG	11	116641028	T	C
TG	11	116645275	T	C
TG	11	116649135	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
TG	11	116650666	CTAGT	C
TG	11	116651115	T	C
TG	11	116651463	T	G
TG	11	116652301	T	C
TG	11	116654159	G	A
TG	11	116657561	T	C
TG	11	116657590	CA	C
TG	11	116660686	G	A
TG	11	116660813	G	A
TG	11	116662579	T	C
TG	11	116664040	G	A
TG	11	116666099	T	C
TG	11	116667083	G	A
TG	11	116668511	T	C
TG	11	116669828	G	A
TG	11	116670676	C	A
TG	11	116670738	G	A
TG	11	116673149	T	C
TG	11	116673315	T	G
TG	11	116673464	T	C
TG	11	116674818	G	A
TG	11	116684028	T	C
TG	11	116688765	C	A
TG	11	116691480	G	A
TG	11	116692334	T	C
TG	11	116694938	G	A
TG	11	116699389	G	A
TG	11	116700142	T	C
TG	11	116701535	T	C
TG	11	116701850	T	C
TG	11	116703146	T	C
TG	11	116703671	T	G
TG	11	116704178	C	A
TG	11	116705516	G	A
TG	11	116705568	T	G
TG	11	116707338	G	A
TG	11	116707583	G	A
TG	11	116707684	G	A
TG	11	116708020	G	A
TG	11	116710167	CAT	C
TG	11	116710968	G	A
TG	11	116711141	T	C
TG	11	116712615	G	A
TG	11	116718858	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
TG	11	116720089	T	C
TG	11	116722041	T	G
TG	11	116730638	G	A
TG	11	116732512	T	G
TG	11	116736679	G	A
TG	11	116741572	C	A
TG	11	116758101	G	A
TG	11	116763034	G	A
TG	11	116764021	T	C
TG	11	116772441	T	C
TG	11	116782202	G	A
TG	11	116784824	C	A
TG	11	116807970	G	A
TG	11	116864990	G	A
TG	11	116876621	T	C
TG	11	116896155	C	A
TG	11	116908283	G	A
TG	11	116969390	T	C
TG	11	116972894	C	A
TG	11	116979689	T	C
TG	11	116987046	G	A
TG	11	116990760	GAAAC	G
TG	11	116990851	G	A
TG	11	116991926	G	A
TG	11	116996539	G	A
TG	11	116998879	T	C
TG	11	117004656	T	C
TG	11	117005627	T	C
TG	11	117022352	C	A
TG	11	117026374	C	A
TG	11	117027183	G	A
TG	11	117042377	G	A
TG	11	117045335	T	C
TG	11	117045431	T	G
TG	11	117048367	T	C
TG	11	117049508	G	A
TG	11	117053675	G	A
TG	11	117059347	T	C
TG	11	117062370	T	C
TG	11	117075566	T	C
TG	11	117089628	G	A
TG	11	117141469	T	C
TG	11	117175658	G	A
TG	12	124380047	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
TG	15	58718998	T	C
TG	15	58719741	G	A
TG	15	58723675	T	C
TG	15	58727325	G	A
TG	15	58730498	T	C
TG	15	58731567	G	A
TG	15	58740094	T	C
TG	15	58742418	G	A
TG	15	58742731	T	G
TG	16	56985514	G	A
TG	16	56986762	T	G
TG	16	56987765	T	C
TG	16	56988044	T	C
TG	16	56990716	C	A
TG	16	56993324	C	A
TG	16	56994244	TA	T
TG	16	56995236	C	A
TG	16	56996211	G	A
TG	16	56997233	G	A
TG	16	56999328	T	C
TG	16	57000885	G	A
TG	16	57001216	T	C
TG	16	57001274	AC	A
TG	16	57001581	AAAC	A
TG	16	57002732	T	G
TG	16	57005479	C	A
TG	16	57006590	T	C
TG	17	41840849	T	C
TG	17	41926126	T	C
TG	19	11185919	T	C
TG	19	11186711	T	C
TG	19	11190544	T	C
TG	19	11195030	G	A
TG	19	11196356	AC	A
TG	19	11196886	T	C
TG	19	11197750	GA	G
TG	19	11198187	T	C
TG	19	11202306	T	G
TG	19	19083483	G	A
TG	19	19104843	C	A
TG	19	19130750	G	A
TG	19	19207229	G	A
TG	19	19262300	T	C
TG	19	19262698	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
TG	19	19268316	G	A
TG	19	19274869	G	A
TG	19	19283268	T	C
TG	19	19295875	G	A
TG	19	19297355	G	A
TG	19	19325963	T	G
TG	19	19329924	T	C
TG	19	19336608	T	C
TG	19	19366632	T	C
TG	19	19374061	T	C
TG	19	19380513	G	A
TG	19	19393714	G	A
TG	19	19394368	G	A
TG	19	19406869	T	C
TG	19	19407718	T	C
TG	19	19418916	T	C
TG	19	19432290	AG	A
TG	19	19456917	T	C
TG	19	19458388	G	A
TG	19	19461437	T	C
TG	19	19467545	T	C
TG	19	19479497	T	C
TG	19	19494483	G	A
TG	19	19503573	T	C
TG	19	19517169	G	A
TG	19	19525792	T	C
TG	19	19531910	G	A
TG	19	19539891	T	C
TG	19	19544644	T	C
TG	19	19610596	T	C
TG	19	19662220	T	C
TG	19	19685470	GT	G
TG	19	19695228	T	C
TG	19	19721722	G	A
TG	19	19746151	T	G
TG	19	19789528	G	A
TG	19	19819843	G	A
TG	19	19892796	G	A
TG	19	19919422	G	A
TG	19	20100542	G	A
TG	19	20112264	T	C
TG	19	20152519	T	G
TG	19	20162400	C	A
TG	19	20162695	C	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
TG	19	20175252	G	A
TG	19	20217169	T	C
TG	19	20495521	G	A
TG	19	23124745	C	A
TG	19	23126236	T	C
TG	19	23198437	G	A
TG	19	23228747	T	G
TG	19	23231399	G	A
TG	19	45386467	GTAA	G
TG	19	45388500	G	A
TG	19	45392254	T	C
TG	19	45394336	T	C
TG	19	45395266	G	A
TG	19	45395619	G	A
TG	19	45395714	T	C
TG	19	45395844	G	A
TG	19	45396219	T	C
TG	19	45404691	G	A
TG	19	45406673	G	A
TG	19	45410002	G	A
TG	19	45411941	T	C
TG	19	45413576	T	C
TG	19	45414451	T	C
TG	19	45416478	G	A
TG	19	45417638	CTTCG	C
TG	19	45421254	G	A
TG	19	45421877	G	A
TG	19	45422946	G	A
TG	19	45425175	T	G
TG	19	45428234	G	A
TG	19	45431658	G	A
TG	19	45443504	G	A
TG	19	45448465	T	G
TG	19	45466299	CA	C
TG	19	45467788	TAACTC	T
TG	19	45483438	C	A
TG	19	45493061	T	C
TG	19	45499388	T	C
TG	19	8429323	G	A
TG	19	8579319	ATT	A
TG	19	8582702	GC	G
TG	19	8596372	ACAG	A
TG	19	8627569	T	C
TG	1	230280696	T	C

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
TG	1	230285056	G	A
TG	1	230290254	G	A
TG	1	230291868	T	C
TG	1	230294989	C	A
TG	1	230295691	G	A
TG	1	230296492	G	A
TG	1	230300481	T	C
TG	1	230302521	T	G
TG	1	230302661	G	A
TG	1	230304914	G	A
TG	1	230304988	G	A
TG	1	230305312	G	A
TG	1	230305477	T	C
TG	1	230309771	T	C
TG	1	230326412	G	A
TG	1	230402624	G	A
TG	1	55505647	T	G
TG	1	55636240	T	C
TG	1	62900811	G	A
TG	1	62901807	C	A
TG	1	62913693	G	A
TG	1	62960250	T	C
TG	1	62960335	TG	T
TG	1	62960575	T	C
TG	1	62988972	T	C
TG	1	62999110	AT	A
TG	1	63018852	T	C
TG	1	63025942	T	G
TG	1	63028198	T	C
TG	1	63034363	C	A
TG	1	63034646	C	A
TG	1	63048276	C	A
TG	1	63085941	G	A
TG	1	63117328	G	A
TG	1	63119256	T	C
TG	1	63135127	G	A
TG	1	63158722	T	C
TG	1	63165761	G	A
TG	1	63167984	C	A
TG	1	63177365	T	C
TG	1	63191577	C	A
TG	1	63191777	T	C
TG	1	63193972	G	A
TG	1	63195692	T	C

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
TG	1	63199347	TG	T
TG	1	63203221	T	C
TG	1	63211706	T	C
TG	1	63248232	TA	T
TG	1	63310444	G	A
TG	1	63316517	G	A
TG	1	63332527	ATC	A
TG	1	63354972	G	A
TG	20	44534651	G	A
TG	20	44551855	T	C
TG	2	21074998	G	A
TG	2	21121464	T	C
TG	2	21123352	C	A
TG	2	21134011	T	C
TG	2	21135577	G	A
TG	2	21138066	T	C
TG	2	21140540	T	C
TG	2	21142994	T	C
TG	2	21145665	T	C
TG	2	21145932	AC	A
TG	2	21148274	C	A
TG	2	21148888	GA	G
TG	2	21150787	T	C
TG	2	21152239	TG	T
TG	2	21184764	G	A
TG	2	21186121	C	A
TG	2	21187641	T	C
TG	2	21188488	T	C
TG	2	21190024	T	C
TG	2	21190107	T	G
TG	2	21190209	T	C
TG	2	21205920	T	C
TG	2	21208211	G	A
TG	2	21216815	C	A
TG	2	21217490	T	C
TG	2	21231524	G	A
TG	2	21232804	G	A
TG	2	21233972	T	C
TG	2	21239667	T	C
TG	2	21240031	C	A
TG	2	21240364	G	A
TG	2	21244000	T	G
TG	2	21245329	T	G
TG	2	21250914	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
TG	2	21259562	T	C
TG	2	21259612	G	A
TG	2	21262427	G	A
TG	2	21263900	G	A
TG	2	21266774	GGCAGCGCCG	A
TG	2	21267461	G	A
TG	2	21300770	C	A
TG	2	21311541	T	G
TG	2	21345292	G	A
TG	2	21371068	T	C
TG	2	21381177	G	A
TG	2	21383353	T	C
TG	2	21389659	T	G
TG	2	21471603	T	C
TG	2	237756139	G	A
TG	2	23794857	G	A
TG	2	27444546	T	C
TG	2	27450763	T	G
TG	2	27493045	T	G
TG	2	27505758	T	C
TG	2	27525263	G	A
TG	2	27550967	G	A
TG	2	27556721	G	A
TG	2	27558252	G	A
TG	2	27574159	T	C
TG	2	27591804	T	C
TG	2	27598097	T	C
TG	2	27605983	G	A
TG	2	27635463	G	A
TG	2	27642734	C	A
TG	2	27649929	T	G
TG	2	27651693	T	C
TG	2	27685388	G	A
TG	2	27686480	G	A
TG	2	27697953	CAGA	C
TG	2	27702026	C	A
TG	2	27703495	G	A
TG	2	27706640	T	C
TG	2	27711631	T	C
TG	2	27711893	G	A
TG	2	27730940	T	C
TG	2	27731212	T	C
TG	2	27735033	G	A
TG	2	27736389	T	C

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
TG	2	27741105	G	A
TG	2	27742603	T	C
TG	2	27743154	G	A
TG	2	27743215	G	A
TG	2	27748597	C	A
TG	2	27748624	G	A
TG	2	27750545	G	A
TG	2	27751562	C	A
TG	2	27752296	G	A
TG	2	27752463	G	A
TG	2	27752871	T	C
TG	2	27753878	C	A
TG	2	27767488	GC	G
TG	2	27839369	T	C
TG	2	27839539	T	C
TG	2	27851918	G	A
TG	2	27860258	G	A
TG	2	27867573	GT	G
TG	2	27872312	AATAT	A
TG	2	27895073	T	C
TG	2	27928797	T	C
TG	2	27929023	C	A
TG	2	27934731	G	A
TG	2	27987046	C	A
TG	2	27988821	G	A
TG	2	27995781	C	A
TG	2	27995931	G	A
TG	2	28003174	T	G
TG	2	28066122	T	C
TG	2	28113911	G	A
TG	2	28268742	T	C
TG	2	28431037	T	C
TG	2	28443050	T	C
TG	2	28460985	G	A
TG	2	28469456	G	A
TG	5	74562564	T	C
TG	5	74567359	G	A
TG	5	74589385	T	C
TG	5	74596682	T	G
TG	5	74602699	C	A
TG	5	74625487	C	A
TG	5	74656539	T	C
TG	5	74879890	G	A
TG	6	160848743	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
TG	6	160853746	C	A
TG	6	31847012	C	A
TG	6	31861815	G	A
TG	6	43756169	T	C
TG	6	43758873	G	A
TG	6	52611118	C	A
TG	7	72809618	T	C
TG	7	72822848	C	A
TG	7	72823661	C	A
TG	7	72825125	G	A
TG	7	72829437	T	G
TG	7	72830546	T	C
TG	7	72839952	T	G
TG	7	72842267	T	C
TG	7	72846741	CTTT	C
TG	7	72850178	T	C
TG	7	72854549	T	C
TG	7	72856269	G	A
TG	7	72856430	T	C
TG	7	72857713	CA	C
TG	7	72864869	G	A
TG	7	72870211	G	A
TG	7	72878044	T	G
TG	7	72878645	G	A
TG	7	72881807	T	C
TG	7	72912032	AAAAAAG	A
TG	7	72934510	G	A
TG	7	72987354	T	C
TG	7	72989141	CA	C
TG	7	72993549	TACTTTTACTGCTGGTGGAGAA	
TG	7	72999043	G	A
TG	7	73003027	G	A
TG	7	73003303	C	A
TG	7	73012042	G	A
TG	7	73018524	T	C
TG	7	73022933	AAG	A
TG	7	73024762	TC	T
TG	7	73026378	T	C
TG	7	73032823	G	A
TG	7	73035857	T	C
TG	7	73042302	GCTTT	G
TG	7	73042443	T	C
TG	7	73046758	C	A
TG	7	73046779	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
TG	7	73047511	T	C
TG	7	73050599	G	A
TG	7	73050864	G	A
TG	7	73054746	G	A
TG	7	73055461	C	A
TG	7	73056750	T	C
TG	7	73058017	G	A
TG	7	73059019	T	C
TG	7	73059990	T	C
TG	7	73060006	T	C
TG	8	126447308	T	C
TG	8	126467230	T	G
TG	8	126474306	G	A
TG	8	126474356	G	A
TG	8	126474405	T	G
TG	8	126476873	T	C
TG	8	126478644	G	A
TG	8	126479362	T	C
TG	8	126484463	T	C
TG	8	126484526	T	G
TG	8	126486409	G	A
TG	8	126488930	G	A
TG	8	126491304	T	C
TG	8	126491733	T	G
TG	8	126495818	T	C
TG	8	126506694	G	A
TG	8	19550298	T	C
TG	8	19611230	G	A
TG	8	19611556	T	C
TG	8	19648079	T	C
TG	8	19648391	T	C
TG	8	19662458	G	A
TG	8	19664668	T	C
TG	8	19665214	C	A
TG	8	19666645	G	A
TG	8	19672040	T	G
TG	8	19673750	T	G
TG	8	19674033	T	C
TG	8	19678967	T	C
TG	8	19724434	T	G
TG	8	19734951	G	A
TG	8	19748448	T	C
TG	8	19756592	T	C
TG	8	19776981	C	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
TG	8	19777695	T	C
TG	8	19785656	G	A
TG	8	19791346	T	C
TG	8	19793581	T	C
TG	8	19803093	T	C
TG	8	19810787	C	A
TG	8	19811901	T	C
TG	8	19812812	T	C
TG	8	19813180	G	A
TG	8	19813529	G	A
TG	8	19815189	T	C
TG	8	19816078	TA	T
TG	8	19816934	T	C
TG	8	19817401	G	A
TG	8	19817476	T	G
TG	8	19818042	G	A
TG	8	19819439	G	A
TG	8	19824626	CTT	C
TG	8	19826373	G	A
TG	8	19826992	G	A
TG	8	19827848	C	A
TG	8	19830170	T	G
TG	8	19830921	T	C
TG	8	19838469	T	C
TG	8	19839709	T	C
TG	8	19843879	T	C
TG	8	19844222	G	A
TG	8	19844447	CT	C
TG	8	19848396	G	A
TG	8	19849757	G	A
TG	8	19849992	T	C
TG	8	19852156	T	G
TG	8	19852176	TTC	T
TG	8	19854773	T	C
TG	8	19855844	GTATTTT	G
TG	8	19855853	TTTTTA	T
TG	8	19856260	T	G
TG	8	19859120	T	C
TG	8	19863024	T	C
TG	8	19865175	G	A
TG	8	19865843	G	A
TG	8	19866631	G	A
TG	8	19867853	G	A
TG	8	19868386	C	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
TG	8	19868971	T	C
TG	8	19870693	G	A
TG	8	19870735	G	A
TG	8	19871080	G	A
TG	8	19871113	T	C
TG	8	19871637	T	C
TG	8	19874932	AAGAC	A
TG	8	19875100	T	C
TG	8	19876301	GA	G
TG	8	19878154	T	C
TG	8	19878356	T	C
TG	8	19881801	G	A
TG	8	19882950	T	C
TG	8	19885726	T	C
TG	8	19888586	T	C
TG	8	19889125	T	G
TG	8	19889399	T	G
TG	8	19890612	G	A
TG	8	19890654	T	C
TG	8	19890776	C	A
TG	8	19894504	T	C
TG	8	19899046	T	C
TG	8	19900474	T	C
TG	8	19912370	G	A
TG	8	19914598	C	A
TG	8	19922610	G	A
TG	8	19928160	G	A
TG	8	19928582	G	A
TG	8	19929197	TC	T
TG	8	19931193	T	C
TG	8	19931498	G	A
TG	8	19932863	T	C
TG	8	19933896	T	C
TG	8	19936687	G	A
TG	8	19938922	T	C
TG	8	19938946	T	C
TG	8	19939049	T	C
TG	8	19941145	C	A
TG	8	19941448	T	C
TG	8	19942700	T	C
TG	8	19942908	C	A
TG	8	19943308	G	A
TG	8	19943364	T	C
TG	8	19955382	T	C

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
TG	8	19985025	G	A
TC	10	14426847	G	A
TC	10	14426855	T	C
TC	10	14427327	C	A
TC	10	14428187	G	A
TC	10	14435680	C	A
TC	11	116586283	T	C
TC	11	116607437	T	C
TC	11	116610249	G	A
TC	11	116631707	T	C
TC	11	116639104	G	A
TC	11	116651115	T	C
TC	11	116652423	G	A
TC	11	116652491	G	A
TC	11	116657561	T	C
TC	11	116660686	G	A
TC	11	116662579	T	C
TC	11	116663707	G	A
TC	11	116670676	C	A
TC	11	116671476	T	C
TC	11	116684164	T	C
TC	11	116688765	C	A
TC	11	116692334	T	C
TC	11	116694938	G	A
TC	11	116701535	T	C
TC	11	116702123	T	C
TC	11	116703146	T	C
TC	11	116703671	T	G
TC	11	116704178	C	A
TC	11	116705516	G	A
TC	11	116705568	T	G
TC	11	116707338	G	A
TC	11	116707583	G	A
TC	11	116710968	G	A
TC	11	116711141	T	C
TC	11	116730638	G	A
TC	11	116752163	T	C
TC	11	116772787	C	A
TC	11	116793231	G	A
TC	11	116908283	G	A
TC	11	117045335	T	C
TC	11	117075566	T	C
TC	11	61547237	T	C
TC	11	61580635	T	C

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
TC	11	61581656	G	A
TC	11	61589481	G	A
TC	11	61597212	T	C
TC	11	61597972	G	A
TC	11	61604814	C	A
TC	11	61609750	T	C
TC	11	61621194	G	A
TC	11	61622227	T	C
TC	11	61626206	G	A
TC	11	61639488	T	C
TC	11	61641542	T	G
TC	11	61655305	G	A
TC	11	61656117	G	A
TC	11	61658800	T	C
TC	11	61663691	G	A
TC	11	61674118	T	C
TC	12	111949394	T	C
TC	15	58671178	C	A
TC	15	58671721	G	A
TC	15	58671765	T	G
TC	15	58672134	T	C
TC	15	58674051	G	A
TC	15	58674308	G	A
TC	15	58678512	T	C
TC	15	58679668	G	A
TC	15	58680638	T	C
TC	15	58680639	T	C
TC	15	58680643	T	G
TC	15	58680805	G	A
TC	15	58683366	G	A
TC	15	58683697	T	C
TC	15	58684057	G	A
TC	15	58684967	T	G
TC	15	58686252	G	A
TC	15	58686338	G	A
TC	15	58686939	T	C
TC	15	58687370	G	A
TC	15	58687603	T	C
TC	15	58687880	T	C
TC	15	58688477	G	A
TC	15	58688478	C	A
TC	15	58689187	T	C
TC	15	58690738	C	A
TC	15	58692148	T	G

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
TC	15	58695337	T	C
TC	15	58696300	T	C
TC	15	58698243	T	G
TC	15	58699937	T	C
TC	15	58700311	T	C
TC	15	58702325	G	A
TC	15	58702864	T	C
TC	15	58703069	C	A
TC	15	58705036	G	A
TC	15	58705658	AC	A
TC	15	58706797	G	A
TC	15	58709182	G	A
TC	15	58710627	C	A
TC	15	58712973	T	C
TC	15	58718529	CA	C
TC	15	58719741	G	A
TC	15	58720431	C	A
TC	15	58721614	G	A
TC	15	58722590	GC	G
TC	15	58723675	T	C
TC	15	58724524	G	A
TC	15	58724706	G	A
TC	15	58725839	G	A
TC	15	58727279	T	C
TC	15	58727325	G	A
TC	15	58729144	T	C
TC	15	58730498	T	C
TC	15	58731567	G	A
TC	15	58735005	G	A
TC	15	58737341	T	G
TC	15	58738423	T	C
TC	15	58738760	G	A
TC	15	58741891	G	A
TC	15	58742418	G	A
TC	15	58742731	T	G
TC	15	58743709	T	C
TC	16	72052348	G	A
TC	16	72078989	TG	T
TC	16	72108093	G	A
TC	17	45390472	T	C
TC	17	45402208	T	C
TC	17	45404916	T	C
TC	17	45422628	G	A
TC	17	45441804	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
TC	17	45443494	G	A
TC	17	45454883	G	A
TC	17	45547185	T	C
TC	17	45554786	G	A
TC	17	45698483	G	A
TC	17	45791123	T	G
TC	18	47106028	T	C
TC	19	10504616	C	A
TC	19	10633984	G	A
TC	19	10636904	T	C
TC	19	10639312	T	C
TC	19	10639533	T	C
TC	19	10640380	G	A
TC	19	10641291	AG	A
TC	19	10646814	G	A
TC	19	10663165	T	C
TC	19	10702970	T	C
TC	19	10703280	G	A
TC	19	10734951	T	C
TC	19	10784858	G	A
TC	19	10802792	G	A
TC	19	10813364	T	C
TC	19	10901440	G	A
TC	19	10903972	G	A
TC	19	10909953	T	C
TC	19	10916684	T	C
TC	19	10926952	T	C
TC	19	10952958	G	A
TC	19	10965270	T	C
TC	19	10967970	G	A
TC	19	11027626	C	A
TC	19	11053375	T	C
TC	19	11054715	G	A
TC	19	11085543	T	C
TC	19	11107133	T	C
TC	19	11113902	G	A
TC	19	11114206	T	C
TC	19	11114591	T	C
TC	19	11122710	T	G
TC	19	11127069	T	G
TC	19	11132080	G	A
TC	19	11136315	T	C
TC	19	11139636	T	G
TC	19	11140144	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
TC	19	11147694	T	G
TC	19	11159076	G	A
TC	19	11161537	C	A
TC	19	11163562	T	C
TC	19	11163601	T	G
TC	19	11163897	T	C
TC	19	11164460	G	A
TC	19	11164781	G	A
TC	19	11166431	CT	C
TC	19	11169947	T	C
TC	19	11170839	T	C
TC	19	11171281	C	A
TC	19	11172299	G	A
TC	19	11174625	G	A
TC	19	11174742	T	C
TC	19	11177250	C	A
TC	19	11180047	T	C
TC	19	11183837	G	A
TC	19	11184250	G	A
TC	19	11184293	T	C
TC	19	11185014	G	A
TC	19	11185919	T	C
TC	19	11186711	T	C
TC	19	11187611	G	A
TC	19	11188313	CTTTA	C
TC	19	11188899	T	C
TC	19	11189298	CG	C
TC	19	11190544	T	C
TC	19	11190873	T	C
TC	19	11193065	T	C
TC	19	11195030	G	A
TC	19	11202306	T	G
TC	19	11205975	G	A
TC	19	11206575	G	A
TC	19	11207102	T	C
TC	19	11207516	G	A
TC	19	11207982	T	C
TC	19	11209669	CA	C
TC	19	11209757	CCAAA	C
TC	19	11210912	T	C
TC	19	11243445	G	A
TC	19	11245071	GGAGT	G
TC	19	11257169	T	C
TC	19	11262969	T	G

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
TC	19	11277232	G	A
TC	19	11331354	T	G
TC	19	11350488	T	C
TC	19	11517032	T	C
TC	19	19130096	T	C
TC	19	19176612	G	A
TC	19	19329924	T	C
TC	19	19366632	T	C
TC	19	19380513	G	A
TC	19	19393714	G	A
TC	19	19394368	G	A
TC	19	19407718	T	C
TC	19	19432290	AG	A
TC	19	19456917	T	C
TC	19	19458388	G	A
TC	19	19479497	T	C
TC	19	19494483	G	A
TC	19	19544644	T	C
TC	19	19624481	G	A
TC	19	19658472	T	G
TC	19	19721722	G	A
TC	19	19855549	C	A
TC	19	19919422	G	A
TC	19	20217169	T	C
TC	19	45134682	C	A
TC	19	45160086	C	A
TC	19	45167544	T	C
TC	19	45176340	T	C
TC	19	45187163	G	A
TC	19	45190766	T	C
TC	19	45195313	T	G
TC	19	45196964	G	A
TC	19	45197027	C	A
TC	19	45198477	T	C
TC	19	45198936	T	C
TC	19	45220896	T	C
TC	19	45222982	T	G
TC	19	45223038	G	A
TC	19	45227742	T	C
TC	19	45232161	G	A
TC	19	45233329	AAATTATAGA	
TC	19	45237812	T	C
TC	19	45239536	C	A
TC	19	45242173	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
TC	19	45247627	G	A
TC	19	45249661	T	C
TC	19	45251156	C	A
TC	19	45253491	T	C
TC	19	45253542	CTTTG	C
TC	19	45253611	ATTGGC	A
TC	19	45276590	GTTA	G
TC	19	45296364	G	A
TC	19	45296806	T	C
TC	19	45302504	G	A
TC	19	45302778	G	A
TC	19	45302949	GAA	G
TC	19	45302951	G	A
TC	19	45303122	AAAAG	A
TC	19	45304061	G	A
TC	19	45315445	G	A
TC	19	45319631	G	A
TC	19	45323170	CCATCCCCA	CTCATCCT
TC	19	45324138	G	A
TC	19	45325738	T	G
TC	19	45326664	T	C
TC	19	45327459	T	C
TC	19	45328380	C	A
TC	19	45331103	G	A
TC	19	45333834	T	C
TC	19	45335676	G	A
TC	19	45336035	T	C
TC	19	45337918	G	A
TC	19	45347911	C	A
TC	19	45351891	G	A
TC	19	45356141	T	C
TC	19	45357377	T	C
TC	19	45357939	G	A
TC	19	45361646	G	A
TC	19	45365447	G	A
TC	19	45369203	G	A
TC	19	45373565	G	A
TC	19	45377334	G	A
TC	19	45379060	C	A
TC	19	45382034	G	A
TC	19	45382675	G	A
TC	19	45384405	T	C
TC	19	45386467	GTAA	G
TC	19	45386634	T	C

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
TC	19	45387034	C	A
TC	19	45388130	G	A
TC	19	45388241	T	G
TC	19	45388500	G	A
TC	19	45389596	G	A
TC	19	45392254	T	C
TC	19	45395266	G	A
TC	19	45395619	G	A
TC	19	45395714	T	C
TC	19	45395844	G	A
TC	19	45396219	T	C
TC	19	45396973	G	A
TC	19	45397952	T	C
TC	19	45400484	TG	T
TC	19	45401868	T	C
TC	19	45402262	T	G
TC	19	45408628	T	C
TC	19	45408836	T	G
TC	19	45410002	G	A
TC	19	45411941	T	C
TC	19	45412079	T	C
TC	19	45415640	G	A
TC	19	45416831	T	G
TC	19	45418486	G	A
TC	19	45421254	G	A
TC	19	45421650	G	A
TC	19	45421877	G	A
TC	19	45422846	G	A
TC	19	45422946	G	A
TC	19	45423944	T	C
TC	19	45425178	G	A
TC	19	45425460	G	A
TC	19	45426792	G	A
TC	19	45428234	G	A
TC	19	45429543	T	C
TC	19	45431897	G	A
TC	19	45435466	CT	C
TC	19	45436216	G	A
TC	19	45436657	G	A
TC	19	45441608	T	C
TC	19	45447178	T	C
TC	19	45447221	G	A
TC	19	45450252	T	C
TC	19	45453763	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
TC	19	45478352	G	A
TC	19	45491032	T	C
TC	19	45496303	T	C
TC	19	45531618	GT	G
TC	19	45541782	G	A
TC	19	45653883	TAGTC	T
TC	19	45672478	G	A
TC	19	45723379	T	C
TC	19	45880690	T	C
TC	1	109757295	G	A
TC	1	109792735	ACGC	A
TC	1	109798721	G	A
TC	1	109806442	C	A
TC	1	109813485	T	C
TC	1	109814880	T	C
TC	1	109815133	G	A
TC	1	109815252	G	A
TC	1	109818158	CT	C
TC	1	109819296	C	A
TC	1	109819615	T	C
TC	1	109819981	T	C
TC	1	109820884	G	A
TC	1	109822166	G	A
TC	1	109824250	G	A
TC	1	109826760	TTCCTAACC	T
TC	1	109827253	G	A
TC	1	109834938	T	C
TC	1	109839392	G	A
TC	1	109839400	T	C
TC	1	109955569	T	C
TC	1	110036634	T	C
TC	1	220970028	G	A
TC	1	220970593	T	G
TC	1	25762805	AT	A
TC	1	26987646	G	A
TC	1	54703630	T	C
TC	1	54703702	C	A
TC	1	54708492	G	A
TC	1	54714821	G	A
TC	1	54715751	T	C
TC	1	54717654	T	C
TC	1	54721862	TC	T
TC	1	54722625	T	C
TC	1	54724389	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
TC	1	54728029	T	C
TC	1	54769277	T	G
TC	1	54772869	C	A
TC	1	54834840	T	C
TC	1	54849397	T	C
TC	1	54880705	T	C
TC	1	54935900	G	A
TC	1	54983266	T	C
TC	1	55082656	GGT	G
TC	1	55138291	G	A
TC	1	55160482	T	G
TC	1	55224773	C	A
TC	1	55243587	G	A
TC	1	55334001	G	A
TC	1	55378724	G	A
TC	1	55411580	G	A
TC	1	55431933	T	C
TC	1	55489542	T	C
TC	1	55493584	C	A
TC	1	55494017	T	C
TC	1	55496039	T	C
TC	1	55503448	G	A
TC	1	55504650	G	A
TC	1	55505647	T	G
TC	1	55505861	G	A
TC	1	55511623	TC	T
TC	1	55518467	G	A
TC	1	55520212	G	A
TC	1	55521109	G	A
TC	1	55524601	G	A
TC	1	55538552	T	G
TC	1	55630151	T	C
TC	1	55636240	T	C
TC	1	55656075	T	G
TC	1	55711465	G	A
TC	1	55713094	G	A
TC	1	55713628	G	A
TC	1	55716497	G	A
TC	1	55719011	G	A
TC	1	55719847	CAT	C
TC	1	55720083	C	A
TC	1	55720337	G	A
TC	1	55723756	C	A
TC	1	55726519	T	C

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
TC	1	55730327	T	C
TC	1	55731772	TC	T
TC	1	55732240	T	C
TC	1	55734875	T	C
TC	1	55738663	T	C
TC	1	55739925	T	C
TC	1	55740015	T	C
TC	1	55741377	G	A
TC	1	55746330	G	A
TC	1	55750138	T	C
TC	1	55752440	T	C
TC	1	55752699	TA	T
TC	1	55767547	T	C
TC	1	55770565	T	C
TC	1	55785672	T	C
TC	1	55785815	T	G
TC	1	55788281	T	C
TC	1	55788609	T	C
TC	1	55793244	G	A
TC	1	55798859	T	C
TC	1	55806465	T	C
TC	1	55808143	T	C
TC	1	55831918	T	C
TC	1	55837603	G	A
TC	1	55960656	G	A
TC	1	56035239	T	C
TC	1	56414772	G	A
TC	1	56608087	T	C
TC	1	56625395	G	A
TC	1	56823728	G	A
TC	1	56885874	G	A
TC	1	62900811	G	A
TC	1	62901807	C	A
TC	1	62917913	G	A
TC	1	62931632	C	A
TC	1	62934002	G	A
TC	1	62936912	T	C
TC	1	62960250	T	C
TC	1	62960575	T	C
TC	1	63048276	C	A
TC	1	63135127	G	A
TC	1	63177539	T	G
TC	1	63179138	T	C
TC	1	63193972	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
TC	1	63195692	T	C
TC	1	63199936	T	G
TC	2	20896870	CACGG	C
TC	2	20899083	G	A
TC	2	20903015	T	C
TC	2	20928577	G	A
TC	2	20951740	T	C
TC	2	20955032	AG	A
TC	2	20991528	T	G
TC	2	21050729	GA	G
TC	2	21076264	TA	T
TC	2	21083052	T	C
TC	2	21085410	T	C
TC	2	21087323	TCTC	T
TC	2	21091409	C	A
TC	2	21092488	T	C
TC	2	21093112	G	A
TC	2	21100426	T	C
TC	2	21101046	G	A
TC	2	21107494	T	G
TC	2	21112689	G	A
TC	2	21121464	T	C
TC	2	21123352	C	A
TC	2	21126936	G	A
TC	2	21133883	G	A
TC	2	21134011	T	C
TC	2	21135577	G	A
TC	2	21135723	T	G
TC	2	21138066	T	C
TC	2	21140540	T	C
TC	2	21141725	G	A
TC	2	21142994	T	C
TC	2	21143677	C	A
TC	2	21144829	T	G
TC	2	21148274	C	A
TC	2	21150787	T	C
TC	2	21151917	T	C
TC	2	21152755	G	A
TC	2	21182116	G	A
TC	2	21182710	G	A
TC	2	21190024	T	C
TC	2	21190209	T	C
TC	2	21193946	G	A
TC	2	21196112	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
TC	2	21196346	T	G
TC	2	21197159	T	C
TC	2	21202959	C	A
TC	2	21205920	T	C
TC	2	21216815	C	A
TC	2	21217230	G	A
TC	2	21217490	T	C
TC	2	21231524	G	A
TC	2	21232804	G	A
TC	2	21233972	T	C
TC	2	21239667	T	C
TC	2	21244000	T	G
TC	2	21250914	G	A
TC	2	21251040	T	G
TC	2	21259562	T	C
TC	2	21259612	G	A
TC	2	21260601	G	A
TC	2	21262427	G	A
TC	2	21263900	G	A
TC	2	21266774	GGCAGCGCCAA	
TC	2	21267210	G	A
TC	2	21267461	G	A
TC	2	21270554	C	A
TC	2	21270751	G	A
TC	2	21271323	G	A
TC	2	21286057	T	C
TC	2	21288226	G	A
TC	2	21288321	G	A
TC	2	21299935	TATCCTGCA	T
TC	2	21300770	C	A
TC	2	21303616	T	C
TC	2	21309335	T	C
TC	2	21309856	G	A
TC	2	21311541	T	G
TC	2	21313778	TC	T
TC	2	21323868	CTGT	C
TC	2	21327042	GCTAGTGCCTA	
TC	2	21327635	G	A
TC	2	21328825	G	A
TC	2	21367696	TTGAAGAC	T
TC	2	21368217	G	A
TC	2	21371068	T	C
TC	2	21372014	G	A
TC	2	21374413	T	C

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
TC	2	21375346	G	A
TC	2	21378453	G	A
TC	2	21381177	G	A
TC	2	21381292	AAAAC	A
TC	2	21383353	T	C
TC	2	21383514	G	A
TC	2	21389659	T	G
TC	2	21396092	GAA	G
TC	2	21397182	G	A
TC	2	21401902	GAAAGAT	G
TC	2	21406048	T	C
TC	2	21410890	T	C
TC	2	21411649	G	A
TC	2	21413077	G	A
TC	2	21414142	T	C
TC	2	21415728	T	G
TC	2	21419650	G	A
TC	2	21420358	C	A
TC	2	21422928	T	C
TC	2	21423532	G	A
TC	2	21426683	AAAAG	A
TC	2	21428185	G	A
TC	2	21434580	G	A
TC	2	21435700	C	A
TC	2	21439329	T	G
TC	2	21442944	TTGCTCCCCTCTGCTTAGCA	
TC	2	21445569	G	A
TC	2	21448511	G	A
TC	2	21449034	T	C
TC	2	21449987	G	A
TC	2	21450714	G	A
TC	2	21451604	T	C
TC	2	21451687	G	A
TC	2	21453733	G	A
TC	2	21457324	G	A
TC	2	21463922	T	C
TC	2	21463986	T	C
TC	2	21467872	ATT	A
TC	2	21469336	T	C
TC	2	21471603	T	C
TC	2	21471750	G	A
TC	2	21476247	C	A
TC	2	21476634	G	A
TC	2	21524000	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
TC	2	21530659	G	A
TC	2	21534103	T	C
TC	2	21534298	T	G
TC	2	27598097	T	C
TC	2	27635463	G	A
TC	2	27730940	T	C
TC	2	27742603	T	C
TC	2	27748624	G	A
TC	2	27750545	G	A
TC	2	27752463	G	A
TC	2	27752871	T	C
TC	2	44052743	GTTA	G
TC	2	44057570	C	A
TC	2	44073656	T	C
TC	2	44073881	T	C
TC	2	44074000	G	A
TC	2	44074431	T	C
TC	2	44081627	T	G
TC	2	44084975	T	C
TC	2	44092066	T	C
TC	2	44096259	T	G
TC	2	44096402	G	A
TC	4	73232228	T	C
TC	4	73406173	G	A
TC	4	73412023	T	C
TC	4	73542640	T	G
TC	4	73660066	T	C
TC	4	74720969	C	A
TC	4	74805105	G	A
TC	4	74970615	C	A
TC	4	75128036	G	A
TC	4	75242737	CT	C
TC	4	75370891	T	C
TC	4	75684215	T	C
TC	5	156380067	T	G
TC	5	156390297	T	C
TC	5	156401862	G	A
TC	5	156443066	G	A
TC	5	74302658	G	A
TC	5	74340327	C	A
TC	5	74343769	G	A
TC	5	74352180	G	A
TC	5	74354422	G	A
TC	5	74372141	T	C

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
TC	5	74382081	G	A
TC	5	74384115	G	A
TC	5	74389325	C	A
TC	5	74442964	T	C
TC	5	74443132	T	C
TC	5	74446301	G	A
TC	5	74461850	T	G
TC	5	74461924	C	A
TC	5	74462866	TC	T
TC	5	74476396	G	A
TC	5	74477719	TA	T
TC	5	74491715	TTCA	T
TC	5	74536921	G	A
TC	5	74558893	G	A
TC	5	74562564	T	C
TC	5	74586866	CT	C
TC	5	74587940	C	A
TC	5	74596682	T	G
TC	5	74603479	G	A
TC	5	74604742	G	A
TC	5	74605220	G	A
TC	5	74611232	TG	T
TC	5	74613943	T	C
TC	5	74615021	T	C
TC	5	74622121	TTA	T
TC	5	74625512	G	A
TC	5	74629162	CAT	C
TC	5	74631352	T	C
TC	5	74643998	ATTC	A
TC	5	74644785	TA	T
TC	5	74651084	G	A
TC	5	74652754	ATCCATCCGTATGTCCG	
TC	5	74653462	T	G
TC	5	74656539	T	C
TC	5	74660064	ATTG	A
TC	5	74673707	G	A
TC	5	74692776	G	A
TC	5	74736065	C	A
TC	5	74736600	TA	T
TC	5	74745228	T	G
TC	5	74753736	T	C
TC	5	74806104	T	C
TC	5	74808237	T	G
TC	5	74808417	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
TC	5	74816841	CT	C
TC	5	74829947	T	C
TC	5	74879890	G	A
TC	5	74892002	T	C
TC	5	74906963	C	A
TC	5	74965122	G	A
TC	5	74967386	T	C
TC	5	74971846	G	A
TC	5	74974434	CT	C
TC	7	21567331	T	C
TC	7	21576905	T	C
TC	7	21577960	T	C
TC	7	21582917	T	C
TC	7	21589243	G	A
TC	7	21595043	C	A
TC	7	21595655	T	C
TC	7	21607352	T	C
TC	7	21650595	G	A
TC	8	126478450	T	C
TC	8	126479362	T	C
TC	8	126484526	T	G
TC	8	126485531	T	C
TC	8	126486409	G	A
TC	8	126488930	G	A
TC	8	126493392	G	A
TC	8	126495818	T	C
TC	8	126506694	G	A
TC	8	144985200	G	A
TC	8	144986103	T	C
TC	8	145040108	T	C
TC	8	9173358	G	A
TC	8	9177732	T	G
TC	8	9179298	T	G
TC	8	9181395	G	A
TC	8	9183596	G	A
TC	8	9183664	G	A
TC	8	9184691	T	C
TC	8	9185146	T	C
TC	8	9190564	T	C
TC	8	9192423	G	A
TC	8	9201787	T	C
TC	8	9206069	G	A
TC	8	9206678	G	A
TC	8	9219868	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
TC	8	9219869	G	A
TC	8	9220139	G	A
TC	8	9224224	G	A
TC	8	9224410	T	C
TC	8	9228403	C	A
TC	9	136145425	C	A
TC	9	136146597	T	C
TC	9	136149399	G	A
TC	9	136153875	T	C
TC	9	136154168	T	C
TC	9	136164593	T	G
TC	9	136184782	G	A
IDL-C	11	116657561	T	C
IDL-C	11	61547237	T	C
IDL-C	11	61580635	T	C
IDL-C	11	61581656	G	A
IDL-C	11	61597212	T	C
IDL-C	11	61597972	G	A
IDL-C	11	61605215	G	A
IDL-C	11	61609750	T	C
IDL-C	11	61618608	G	A
IDL-C	11	61619829	C	A
IDL-C	11	61621194	G	A
IDL-C	11	61622227	T	C
IDL-C	11	61623140	T	C
IDL-C	11	61627881	T	C
IDL-C	11	61629322	T	C
IDL-C	11	61629747	G	A
IDL-C	11	61639488	T	C
IDL-C	11	61641542	T	G
IDL-C	11	61656117	G	A
IDL-C	11	61656995	T	C
IDL-C	11	61657110	T	C
IDL-C	11	61657401	C	A
IDL-C	11	61657926	G	A
IDL-C	11	61663691	G	A
IDL-C	11	61677479	G	A
IDL-C	11	61678576	T	G
IDL-C	15	58671178	C	A
IDL-C	15	58671721	G	A
IDL-C	15	58671765	T	G
IDL-C	15	58672134	T	C
IDL-C	15	58674051	G	A
IDL-C	15	58674308	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
IDL-C	15	58678512	T	C
IDL-C	15	58679668	G	A
IDL-C	15	58680638	T	C
IDL-C	15	58680639	T	C
IDL-C	15	58680643	T	G
IDL-C	15	58681772	T	C
IDL-C	15	58683366	G	A
IDL-C	15	58683697	T	C
IDL-C	15	58684967	T	G
IDL-C	15	58686252	G	A
IDL-C	15	58686338	G	A
IDL-C	15	58686939	T	C
IDL-C	15	58687603	T	C
IDL-C	15	58687880	T	C
IDL-C	15	58688478	C	A
IDL-C	15	58689187	T	C
IDL-C	15	58693860	T	C
IDL-C	15	58696300	T	C
IDL-C	15	58698243	T	G
IDL-C	15	58699010	T	C
IDL-C	15	58699937	T	C
IDL-C	15	58701931	G	A
IDL-C	15	58702325	G	A
IDL-C	15	58703069	C	A
IDL-C	15	58705658	AC	A
IDL-C	15	58709182	G	A
IDL-C	15	58710627	C	A
IDL-C	15	58712203	T	G
IDL-C	15	58712973	T	C
IDL-C	15	58718529	CA	C
IDL-C	15	58719741	G	A
IDL-C	15	58720431	C	A
IDL-C	15	58721614	G	A
IDL-C	15	58723675	T	C
IDL-C	15	58727279	T	C
IDL-C	15	58727325	G	A
IDL-C	15	58729144	T	C
IDL-C	15	58731567	G	A
IDL-C	15	58736778	T	C
IDL-C	15	58737341	T	G
IDL-C	15	58738423	T	C
IDL-C	15	58738760	G	A
IDL-C	15	58741891	G	A
IDL-C	15	58742731	T	G

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
IDL-C	15	58743709	T	C
IDL-C	16	72052348	G	A
IDL-C	16	72078989	TG	T
IDL-C	16	72108093	G	A
IDL-C	17	45385012	T	C
IDL-C	17	45390472	T	C
IDL-C	17	45404916	T	C
IDL-C	17	45405144	G	A
IDL-C	17	45438952	T	C
IDL-C	17	45441804	G	A
IDL-C	17	45516667	T	C
IDL-C	17	45548958	C	A
IDL-C	17	45556945	G	A
IDL-C	17	45592266	G	A
IDL-C	17	45616332	T	C
IDL-C	17	45732774	C	A
IDL-C	17	45740805	G	A
IDL-C	17	45755810	G	A
IDL-C	17	45763073	C	A
IDL-C	17	45771816	T	C
IDL-C	17	45791123	T	G
IDL-C	19	10437297	T	G
IDL-C	19	10504616	C	A
IDL-C	19	10633984	G	A
IDL-C	19	10634928	T	C
IDL-C	19	10636904	T	C
IDL-C	19	10639312	T	C
IDL-C	19	10639533	T	C
IDL-C	19	10640380	G	A
IDL-C	19	10641291	AG	A
IDL-C	19	10643471	G	A
IDL-C	19	10646814	G	A
IDL-C	19	10654705	T	C
IDL-C	19	10663165	T	C
IDL-C	19	10703280	G	A
IDL-C	19	10715154	C	A
IDL-C	19	10734951	T	C
IDL-C	19	10739265	T	C
IDL-C	19	10784858	G	A
IDL-C	19	10798974	T	C
IDL-C	19	10802792	G	A
IDL-C	19	10813364	T	C
IDL-C	19	10901440	G	A
IDL-C	19	10903972	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
IDL-C	19	10904700	T	C
IDL-C	19	10909953	T	C
IDL-C	19	10914829	G	A
IDL-C	19	10916684	T	C
IDL-C	19	10926952	T	C
IDL-C	19	10947522	T	C
IDL-C	19	10948031	G	A
IDL-C	19	10952958	G	A
IDL-C	19	10965270	T	C
IDL-C	19	10967970	G	A
IDL-C	19	10981992	T	C
IDL-C	19	11027626	C	A
IDL-C	19	11054715	G	A
IDL-C	19	11055935	G	A
IDL-C	19	11059389	G	A
IDL-C	19	11065409	C	A
IDL-C	19	11065687	G	A
IDL-C	19	11104747	G	A
IDL-C	19	11105608	T	C
IDL-C	19	11113902	G	A
IDL-C	19	11126160	T	C
IDL-C	19	11128824	T	C
IDL-C	19	11132080	G	A
IDL-C	19	11133272	G	A
IDL-C	19	11135654	T	C
IDL-C	19	11139636	T	G
IDL-C	19	11140144	G	A
IDL-C	19	11140703	T	C
IDL-C	19	11146499	T	C
IDL-C	19	11159076	G	A
IDL-C	19	11159525	T	G
IDL-C	19	11163562	T	C
IDL-C	19	11163601	T	G
IDL-C	19	11163897	T	C
IDL-C	19	11164781	G	A
IDL-C	19	11166431	CT	C
IDL-C	19	11169947	T	C
IDL-C	19	11170839	T	C
IDL-C	19	11174229	CT	C
IDL-C	19	11174625	G	A
IDL-C	19	11174742	T	C
IDL-C	19	11177250	C	A
IDL-C	19	11180047	T	C
IDL-C	19	11183837	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
IDL-C	19	11184250	G	A
IDL-C	19	11184293	T	C
IDL-C	19	11185014	G	A
IDL-C	19	11185919	T	C
IDL-C	19	11186711	T	C
IDL-C	19	11187611	G	A
IDL-C	19	11188313	CTTTA	C
IDL-C	19	11188899	T	C
IDL-C	19	11189298	CG	C
IDL-C	19	11190544	T	C
IDL-C	19	11195030	G	A
IDL-C	19	11202306	T	G
IDL-C	19	11205975	G	A
IDL-C	19	11206575	G	A
IDL-C	19	11207102	T	C
IDL-C	19	11207516	G	A
IDL-C	19	11207982	T	C
IDL-C	19	11209669	CA	C
IDL-C	19	11209757	CCAAA	C
IDL-C	19	11210912	T	C
IDL-C	19	11227070	T	C
IDL-C	19	11227480	C	A
IDL-C	19	11228965	C	A
IDL-C	19	11230881	T	C
IDL-C	19	11243409	C	A
IDL-C	19	11243445	G	A
IDL-C	19	11245071	GGAGT	G
IDL-C	19	11248104	G	A
IDL-C	19	11250139	G	A
IDL-C	19	11250396	T	C
IDL-C	19	11257169	T	C
IDL-C	19	11262477	T	G
IDL-C	19	11262969	T	G
IDL-C	19	11263968	CA	C
IDL-C	19	11269893	T	C
IDL-C	19	11271714	G	A
IDL-C	19	11274679	G	A
IDL-C	19	11275139	C	A
IDL-C	19	11275258	G	A
IDL-C	19	11276256	T	C
IDL-C	19	11330942	G	A
IDL-C	19	11433021	AAAG	A
IDL-C	19	19130096	T	C
IDL-C	19	19176612	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
IDL-C	19	19380513	G	A
IDL-C	19	19393714	G	A
IDL-C	19	19407718	T	C
IDL-C	19	19432290	AG	A
IDL-C	19	19458388	G	A
IDL-C	19	19479497	T	C
IDL-C	19	19544644	T	C
IDL-C	19	19624481	G	A
IDL-C	19	20217169	T	C
IDL-C	19	45134682	C	A
IDL-C	19	45150614	G	A
IDL-C	19	45158411	T	C
IDL-C	19	45159023	T	C
IDL-C	19	45160086	C	A
IDL-C	19	45167544	T	C
IDL-C	19	45170097	G	A
IDL-C	19	45173951	C	A
IDL-C	19	45176340	T	C
IDL-C	19	45187163	G	A
IDL-C	19	45188620	GAA	G
IDL-C	19	45190766	T	C
IDL-C	19	45190773	T	G
IDL-C	19	45195313	T	G
IDL-C	19	45195744	CG	C
IDL-C	19	45196135	G	A
IDL-C	19	45196254	G	A
IDL-C	19	45196581	G	A
IDL-C	19	45196964	G	A
IDL-C	19	45197027	C	A
IDL-C	19	45198936	T	C
IDL-C	19	45220896	T	C
IDL-C	19	45222982	T	G
IDL-C	19	45223038	G	A
IDL-C	19	45225345	T	C
IDL-C	19	45232161	G	A
IDL-C	19	45232374	G	A
IDL-C	19	45233329	AAATTATAGA	
IDL-C	19	45237812	T	C
IDL-C	19	45239185	G	A
IDL-C	19	45239536	C	A
IDL-C	19	45242173	G	A
IDL-C	19	45242740	G	A
IDL-C	19	45247627	G	A
IDL-C	19	45249661	T	C

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
IDL-C	19	45251156	C	A
IDL-C	19	45253491	T	C
IDL-C	19	45253542	CTTTG	C
IDL-C	19	45253611	ATTGGC	A
IDL-C	19	45276590	GTTA	G
IDL-C	19	45296364	G	A
IDL-C	19	45296806	T	C
IDL-C	19	45297928	G	A
IDL-C	19	45302504	G	A
IDL-C	19	45302778	G	A
IDL-C	19	45302949	GAA	G
IDL-C	19	45303122	AAAAG	A
IDL-C	19	45304061	G	A
IDL-C	19	45309431	T	C
IDL-C	19	45311305	TAAC	T
IDL-C	19	45313715	T	C
IDL-C	19	45315445	G	A
IDL-C	19	45319631	G	A
IDL-C	19	45323170	CCATCCCCAATCATCCT	
IDL-C	19	45324138	G	A
IDL-C	19	45325738	T	G
IDL-C	19	45327459	T	C
IDL-C	19	45329214	T	G
IDL-C	19	45330999	G	A
IDL-C	19	45331103	G	A
IDL-C	19	45333834	T	C
IDL-C	19	45335676	G	A
IDL-C	19	45336035	T	C
IDL-C	19	45337918	G	A
IDL-C	19	45338250	AT	A
IDL-C	19	45345623	G	A
IDL-C	19	45347911	C	A
IDL-C	19	45351891	G	A
IDL-C	19	45356141	T	C
IDL-C	19	45357939	G	A
IDL-C	19	45359706	G	A
IDL-C	19	45361646	G	A
IDL-C	19	45365447	G	A
IDL-C	19	45369203	G	A
IDL-C	19	45373565	G	A
IDL-C	19	45377334	G	A
IDL-C	19	45379060	C	A
IDL-C	19	45382034	G	A
IDL-C	19	45382675	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
IDL-C	19	45384105	T	C
IDL-C	19	45384405	T	C
IDL-C	19	45386467	GTAA	G
IDL-C	19	45387034	C	A
IDL-C	19	45388130	G	A
IDL-C	19	45388241	T	G
IDL-C	19	45389596	G	A
IDL-C	19	45390333	G	A
IDL-C	19	45392254	T	C
IDL-C	19	45395266	G	A
IDL-C	19	45395619	G	A
IDL-C	19	45395844	G	A
IDL-C	19	45397952	T	C
IDL-C	19	45398785	T	C
IDL-C	19	45400484	TG	T
IDL-C	19	45401666	G	A
IDL-C	19	45401868	T	C
IDL-C	19	45402262	T	G
IDL-C	19	45408628	T	C
IDL-C	19	45408836	T	G
IDL-C	19	45410002	G	A
IDL-C	19	45410444	G	A
IDL-C	19	45411941	T	C
IDL-C	19	45412079	T	C
IDL-C	19	45413576	T	C
IDL-C	19	45414392	T	G
IDL-C	19	45415640	G	A
IDL-C	19	45415713	G	A
IDL-C	19	45416291	T	C
IDL-C	19	45418486	G	A
IDL-C	19	45418961	T	C
IDL-C	19	45421254	G	A
IDL-C	19	45421744	T	G
IDL-C	19	45422846	G	A
IDL-C	19	45422946	G	A
IDL-C	19	45423636	G	A
IDL-C	19	45423944	T	C
IDL-C	19	45425178	G	A
IDL-C	19	45425460	G	A
IDL-C	19	45426792	G	A
IDL-C	19	45428234	G	A
IDL-C	19	45429543	T	C
IDL-C	19	45431897	G	A
IDL-C	19	45435466	CT	C

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
IDL-C	19	45436216	G	A
IDL-C	19	45447178	T	C
IDL-C	19	45447221	G	A
IDL-C	19	45450252	T	C
IDL-C	19	45453763	G	A
IDL-C	19	45475700	T	G
IDL-C	19	45478352	G	A
IDL-C	19	45491032	T	C
IDL-C	19	45496303	T	C
IDL-C	19	45515014	CTGTGTGTG	C
IDL-C	19	45531618	GT	G
IDL-C	19	45541782	G	A
IDL-C	19	45653883	TAGTC	T
IDL-C	19	45672478	G	A
IDL-C	19	45693752	T	C
IDL-C	19	45706865	G	A
IDL-C	19	45708570	T	C
IDL-C	19	45713488	GTTTC	G
IDL-C	19	45723379	T	C
IDL-C	19	45880690	T	C
IDL-C	19	46018119	G	A
IDL-C	1	109715950	G	A
IDL-C	1	109757295	G	A
IDL-C	1	109776285	T	C
IDL-C	1	109792735	ACGC	A
IDL-C	1	109798721	G	A
IDL-C	1	109800321	T	C
IDL-C	1	109804646	G	A
IDL-C	1	109806442	C	A
IDL-C	1	109810201	G	A
IDL-C	1	109813485	T	C
IDL-C	1	109814880	T	C
IDL-C	1	109815214	TG	T
IDL-C	1	109815252	G	A
IDL-C	1	109818158	CT	C
IDL-C	1	109819615	T	C
IDL-C	1	109819981	T	C
IDL-C	1	109820884	G	A
IDL-C	1	109820919	T	G
IDL-C	1	109821797	G	A
IDL-C	1	109822166	G	A
IDL-C	1	109824250	G	A
IDL-C	1	109826760	TTCCTAACC	T
IDL-C	1	109827253	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
IDL-C	1	109834938	T	C
IDL-C	1	109839400	T	C
IDL-C	1	109955569	T	C
IDL-C	1	110019439	G	A
IDL-C	1	110033224	G	A
IDL-C	1	222832010	G	A
IDL-C	1	25721154	G	A
IDL-C	1	25752617	G	A
IDL-C	1	25755014	G	A
IDL-C	1	25768937	G	A
IDL-C	1	25780893	G	A
IDL-C	1	25800790	T	C
IDL-C	1	26987646	G	A
IDL-C	1	54380983	T	C
IDL-C	1	54598299	G	A
IDL-C	1	54602648	T	C
IDL-C	1	54703630	T	C
IDL-C	1	54703702	C	A
IDL-C	1	54708492	G	A
IDL-C	1	54714821	G	A
IDL-C	1	54715751	T	C
IDL-C	1	54717654	T	C
IDL-C	1	54721862	TC	T
IDL-C	1	54722625	T	C
IDL-C	1	54723658	T	C
IDL-C	1	54724389	G	A
IDL-C	1	54726703	G	A
IDL-C	1	54728029	T	C
IDL-C	1	54769277	T	G
IDL-C	1	54772869	C	A
IDL-C	1	54783595	T	C
IDL-C	1	54834840	T	C
IDL-C	1	54849397	T	C
IDL-C	1	54880705	T	C
IDL-C	1	54903630	C	A
IDL-C	1	54911365	T	C
IDL-C	1	54935900	G	A
IDL-C	1	54983266	T	C
IDL-C	1	55083647	G	A
IDL-C	1	55085141	G	A
IDL-C	1	55138291	G	A
IDL-C	1	55160482	T	G
IDL-C	1	55224773	C	A
IDL-C	1	55243587	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
IDL-C	1	55334001	G	A
IDL-C	1	55378724	G	A
IDL-C	1	55411580	G	A
IDL-C	1	55417370	T	C
IDL-C	1	55431933	T	C
IDL-C	1	55470153	T	C
IDL-C	1	55489542	T	C
IDL-C	1	55489960	G	A
IDL-C	1	55493584	C	A
IDL-C	1	55494017	T	C
IDL-C	1	55494735	T	C
IDL-C	1	55496039	T	C
IDL-C	1	55500025	C	A
IDL-C	1	55500429	G	A
IDL-C	1	55503448	G	A
IDL-C	1	55504650	G	A
IDL-C	1	55505647	T	G
IDL-C	1	55505861	G	A
IDL-C	1	55511995	G	A
IDL-C	1	55513061	T	C
IDL-C	1	55515481	T	C
IDL-C	1	55516508	G	A
IDL-C	1	55518166	G	A
IDL-C	1	55518467	G	A
IDL-C	1	55518528	C	A
IDL-C	1	55519174	G	A
IDL-C	1	55519238	T	C
IDL-C	1	55520212	G	A
IDL-C	1	55520265	T	C
IDL-C	1	55520864	G	A
IDL-C	1	55521109	G	A
IDL-C	1	55522425	G	A
IDL-C	1	55523361	G	A
IDL-C	1	55524116	T	C
IDL-C	1	55524237	G	A
IDL-C	1	55524387	T	C
IDL-C	1	55524601	G	A
IDL-C	1	55527479	G	A
IDL-C	1	55527918	T	C
IDL-C	1	55538552	T	G
IDL-C	1	55608005	T	C
IDL-C	1	55630151	T	C
IDL-C	1	55636240	T	C
IDL-C	1	55656075	T	G

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
IDL-C	1	55711465	G	A
IDL-C	1	55713094	G	A
IDL-C	1	55713628	G	A
IDL-C	1	55716497	G	A
IDL-C	1	55719011	G	A
IDL-C	1	55719166	T	G
IDL-C	1	55719847	CAT	C
IDL-C	1	55720083	C	A
IDL-C	1	55720337	G	A
IDL-C	1	55723756	C	A
IDL-C	1	55723817	G	A
IDL-C	1	55726519	T	C
IDL-C	1	55730327	T	C
IDL-C	1	55731772	TC	T
IDL-C	1	55732596	ATTGT	A
IDL-C	1	55732837	T	C
IDL-C	1	55734875	T	C
IDL-C	1	55738663	T	C
IDL-C	1	55739925	T	C
IDL-C	1	55740015	T	C
IDL-C	1	55741377	G	A
IDL-C	1	55750138	T	C
IDL-C	1	55750949	G	A
IDL-C	1	55752440	T	C
IDL-C	1	55752699	TA	T
IDL-C	1	55754727	G	A
IDL-C	1	55767547	T	C
IDL-C	1	55785672	T	C
IDL-C	1	55785815	T	G
IDL-C	1	55788281	T	C
IDL-C	1	55788609	T	C
IDL-C	1	55793244	G	A
IDL-C	1	55795814	G	A
IDL-C	1	55796086	T	C
IDL-C	1	55808143	T	C
IDL-C	1	55814244	T	C
IDL-C	1	55814595	T	C
IDL-C	1	55815284	T	G
IDL-C	1	55831918	T	C
IDL-C	1	55843810	T	C
IDL-C	1	55960656	G	A
IDL-C	1	56034852	G	A
IDL-C	1	56059000	CAA	C
IDL-C	1	56141726	T	C

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
IDL-C	1	56258328	T	C
IDL-C	1	56413519	T	C
IDL-C	1	56414772	G	A
IDL-C	1	56625395	G	A
IDL-C	1	56763141	T	C
IDL-C	1	56823728	G	A
IDL-C	1	56885874	G	A
IDL-C	1	63013134	G	A
IDL-C	1	63049551	C	A
IDL-C	20	39142516	G	A
IDL-C	2	20902748	C	A
IDL-C	2	20903015	T	C
IDL-C	2	20955032	AG	A
IDL-C	2	20991528	T	G
IDL-C	2	21050729	GA	G
IDL-C	2	21074998	G	A
IDL-C	2	21076264	TA	T
IDL-C	2	21085410	T	C
IDL-C	2	21087323	TCTC	T
IDL-C	2	21091409	C	A
IDL-C	2	21092488	T	C
IDL-C	2	21093112	G	A
IDL-C	2	21100426	T	C
IDL-C	2	21105335	G	A
IDL-C	2	21107494	T	G
IDL-C	2	21111034	T	C
IDL-C	2	21111763	G	A
IDL-C	2	21112689	G	A
IDL-C	2	21121464	T	C
IDL-C	2	21123352	C	A
IDL-C	2	21126936	G	A
IDL-C	2	21133883	G	A
IDL-C	2	21134011	T	C
IDL-C	2	21135187	G	A
IDL-C	2	21135577	G	A
IDL-C	2	21138066	T	C
IDL-C	2	21140540	T	C
IDL-C	2	21141725	G	A
IDL-C	2	21142994	T	C
IDL-C	2	21143329	G	A
IDL-C	2	21143677	C	A
IDL-C	2	21144829	T	G
IDL-C	2	21147179	T	C
IDL-C	2	21148274	C	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
IDL-C	2	21150787	T	C
IDL-C	2	21151408	G	A
IDL-C	2	21151917	T	C
IDL-C	2	21152755	G	A
IDL-C	2	21182116	G	A
IDL-C	2	21182710	G	A
IDL-C	2	21184847	G	A
IDL-C	2	21187599	G	A
IDL-C	2	21189091	T	C
IDL-C	2	21190024	T	C
IDL-C	2	21190209	T	C
IDL-C	2	21196112	G	A
IDL-C	2	21196346	T	G
IDL-C	2	21197159	T	C
IDL-C	2	21198900	G	A
IDL-C	2	21202959	C	A
IDL-C	2	21205920	T	C
IDL-C	2	21208484	T	G
IDL-C	2	21216815	C	A
IDL-C	2	21217490	T	C
IDL-C	2	21218805	T	C
IDL-C	2	21221133	G	A
IDL-C	2	21221357	T	G
IDL-C	2	21225753	T	C
IDL-C	2	21231524	G	A
IDL-C	2	21232804	G	A
IDL-C	2	21233972	T	C
IDL-C	2	21239667	T	C
IDL-C	2	21241744	T	C
IDL-C	2	21244000	T	G
IDL-C	2	21245367	G	A
IDL-C	2	21247211	T	C
IDL-C	2	21250914	G	A
IDL-C	2	21251040	T	G
IDL-C	2	21259562	T	C
IDL-C	2	21259612	G	A
IDL-C	2	21260601	G	A
IDL-C	2	21262427	G	A
IDL-C	2	21263639	T	G
IDL-C	2	21263900	G	A
IDL-C	2	21266774	GGCAGCGCCG	A
IDL-C	2	21267210	G	A
IDL-C	2	21267461	G	A
IDL-C	2	21270751	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
IDL-C	2	21271323	G	A
IDL-C	2	21272763	AG	A
IDL-C	2	21277922	G	A
IDL-C	2	21281856	G	A
IDL-C	2	21286057	T	C
IDL-C	2	21288226	G	A
IDL-C	2	21290067	T	C
IDL-C	2	21294975	G	A
IDL-C	2	21300770	C	A
IDL-C	2	21303616	T	C
IDL-C	2	21309335	T	C
IDL-C	2	21311541	T	G
IDL-C	2	21313577	G	A
IDL-C	2	21313778	TC	T
IDL-C	2	21319986	GTGATGT	G
IDL-C	2	21323868	CTGT	C
IDL-C	2	21327635	G	A
IDL-C	2	21328825	G	A
IDL-C	2	21337306	T	C
IDL-C	2	21367696	TTGAAGAC	T
IDL-C	2	21368217	G	A
IDL-C	2	21371068	T	C
IDL-C	2	21372014	G	A
IDL-C	2	21375346	G	A
IDL-C	2	21378453	G	A
IDL-C	2	21378805	G	A
IDL-C	2	21381177	G	A
IDL-C	2	21381292	AAAAC	A
IDL-C	2	21382786	C	A
IDL-C	2	21383353	T	C
IDL-C	2	21383514	G	A
IDL-C	2	21383536	G	A
IDL-C	2	21389659	T	G
IDL-C	2	21396092	GAA	G
IDL-C	2	21397182	G	A
IDL-C	2	21404245	CTA	C
IDL-C	2	21406048	T	C
IDL-C	2	21411649	G	A
IDL-C	2	21413077	G	A
IDL-C	2	21414142	T	C
IDL-C	2	21415728	T	G
IDL-C	2	21419650	G	A
IDL-C	2	21422928	T	C
IDL-C	2	21423218	AT	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
IDL-C	2	21423532	G	A
IDL-C	2	21426683	AAAAG	A
IDL-C	2	21434580	G	A
IDL-C	2	21435700	C	A
IDL-C	2	21437321	T	G
IDL-C	2	21438738	G	A
IDL-C	2	21439329	T	G
IDL-C	2	21445569	G	A
IDL-C	2	21448511	G	A
IDL-C	2	21449034	T	C
IDL-C	2	21449278	TA	T
IDL-C	2	21449987	G	A
IDL-C	2	21450714	G	A
IDL-C	2	21451604	T	C
IDL-C	2	21451687	G	A
IDL-C	2	21453733	G	A
IDL-C	2	21457324	G	A
IDL-C	2	21460176	T	C
IDL-C	2	21467872	ATT	A
IDL-C	2	21469336	T	C
IDL-C	2	21470596	G	A
IDL-C	2	21470987	T	C
IDL-C	2	21471603	T	C
IDL-C	2	21471750	G	A
IDL-C	2	21475944	T	C
IDL-C	2	21476247	C	A
IDL-C	2	21476634	G	A
IDL-C	2	21524000	G	A
IDL-C	2	21530659	G	A
IDL-C	2	21534103	T	C
IDL-C	2	21534298	T	G
IDL-C	2	44052743	GTTA	G
IDL-C	2	44055510	T	C
IDL-C	2	44057570	C	A
IDL-C	2	44063357	G	A
IDL-C	2	44065090	G	A
IDL-C	2	44072576	T	G
IDL-C	2	44073656	T	C
IDL-C	2	44074431	T	C
IDL-C	2	44080324	G	A
IDL-C	2	44088039	G	A
IDL-C	2	44088041	C	A
IDL-C	2	44096259	T	G
IDL-C	2	44096402	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
IDL-C	4	31423582	G	A
IDL-C	4	73406173	G	A
IDL-C	4	73499882	T	C
IDL-C	4	74720969	C	A
IDL-C	4	74805105	G	A
IDL-C	4	75242737	CT	C
IDL-C	4	75370891	T	C
IDL-C	4	75684215	T	C
IDL-C	5	123072033	T	C
IDL-C	5	156382308	G	A
IDL-C	5	156390297	T	C
IDL-C	5	156394093	T	C
IDL-C	5	156394441	G	A
IDL-C	5	156396003	T	C
IDL-C	5	74302658	G	A
IDL-C	5	74340327	C	A
IDL-C	5	74343769	G	A
IDL-C	5	74352180	G	A
IDL-C	5	74354875	T	G
IDL-C	5	74360981	ATCT	A
IDL-C	5	74372141	T	C
IDL-C	5	74380959	G	A
IDL-C	5	74384115	G	A
IDL-C	5	74389325	C	A
IDL-C	5	74443132	T	C
IDL-C	5	74461850	T	G
IDL-C	5	74476396	G	A
IDL-C	5	74477719	TA	T
IDL-C	5	74479238	T	C
IDL-C	5	74547484	C	A
IDL-C	5	74558893	G	A
IDL-C	5	74562564	T	C
IDL-C	5	74574984	G	A
IDL-C	5	74586866	CT	C
IDL-C	5	74587940	C	A
IDL-C	5	74596682	T	G
IDL-C	5	74602699	C	A
IDL-C	5	74604742	G	A
IDL-C	5	74605220	G	A
IDL-C	5	74611232	TG	T
IDL-C	5	74613943	T	C
IDL-C	5	74615021	T	C
IDL-C	5	74616843	T	C
IDL-C	5	74619639	T	C

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
IDL-C	5	74622121	TTA	T
IDL-C	5	74624234	G	A
IDL-C	5	74625512	G	A
IDL-C	5	74629162	CAT	C
IDL-C	5	74630189	T	C
IDL-C	5	74631352	T	C
IDL-C	5	74632133	C	A
IDL-C	5	74643670	T	C
IDL-C	5	74643998	ATTC	A
IDL-C	5	74644785	TA	T
IDL-C	5	74651084	G	A
IDL-C	5	74651909	G	A
IDL-C	5	74652754	ATCCATCCGTATGTCCG	
IDL-C	5	74653462	T	G
IDL-C	5	74656539	T	C
IDL-C	5	74660064	ATTG	A
IDL-C	5	74673707	G	A
IDL-C	5	74688688	G	A
IDL-C	5	74692776	G	A
IDL-C	5	74697050	T	G
IDL-C	5	74717653	T	C
IDL-C	5	74725609	T	C
IDL-C	5	74736600	TA	T
IDL-C	5	74745228	T	G
IDL-C	5	74808237	T	G
IDL-C	5	74808331	G	A
IDL-C	5	74816841	CT	C
IDL-C	5	74844362	G	A
IDL-C	5	74875642	T	C
IDL-C	5	74879890	G	A
IDL-C	5	74906963	C	A
IDL-C	5	74965122	G	A
IDL-C	5	74965554	G	A
IDL-C	5	74967386	T	C
IDL-C	5	74971846	G	A
IDL-C	6	32590735	T	C
IDL-C	6	32602483	T	G
IDL-C	7	21567331	T	C
IDL-C	7	21569089	G	A
IDL-C	7	21576905	T	C
IDL-C	7	21577960	T	C
IDL-C	7	21582917	T	C
IDL-C	7	21588243	C	A
IDL-C	7	21589243	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
IDL-C	7	21592217	G	A
IDL-C	7	21592949	G	A
IDL-C	7	21596006	G	A
IDL-C	7	21598254	T	C
IDL-C	7	21601659	GCTCT	G
IDL-C	7	21603601	G	A
IDL-C	7	21603678	G	A
IDL-C	7	21607352	T	C
IDL-C	7	21614216	T	C
IDL-C	7	21627909	G	A
IDL-C	7	21631827	G	A
IDL-C	7	21650595	G	A
IDL-C	8	126476873	T	C
IDL-C	8	126479362	T	C
IDL-C	8	126486409	G	A
IDL-C	8	126488930	G	A
IDL-C	8	126495818	T	C
IDL-C	8	126506694	G	A
IDL-C	8	144972454	T	C
IDL-C	8	144973902	T	C
IDL-C	8	144974963	G	A
IDL-C	8	144976572	G	A
IDL-C	8	144978607	T	G
IDL-C	8	144984283	T	C
IDL-C	8	144984956	G	A
IDL-C	8	144990528	G	A
IDL-C	8	144992361	T	C
IDL-C	8	145001031	T	C
IDL-C	8	145003777	G	A
IDL-C	8	145004944	T	C
IDL-C	8	145007187	G	A
IDL-C	8	145043543	G	A
IDL-C	8	145044749	G	A
IDL-C	8	145046662	T	C
IDL-C	8	145057868	G	A
IDL-C	8	145058986	G	A
IDL-C	8	145062020	T	C
IDL-C	8	145071742	TC	T
IDL-C	8	145079301	T	C
IDL-C	8	145081248	G	A
IDL-C	8	145082187	T	C
IDL-C	8	59377357	G	A
IDL-C	8	59388565	T	C
IDL-C	8	9173358	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
IDL-C	8	9181611	G	A
IDL-C	8	9183596	G	A
IDL-C	8	9183664	G	A
IDL-C	8	9184691	T	C
IDL-C	8	9185146	T	C
IDL-C	8	9192423	G	A
IDL-C	8	9194978	T	C
IDL-C	8	9194985	G	A
IDL-C	8	9200251	T	C
IDL-C	8	9201787	T	C
IDL-C	8	9206069	G	A
IDL-C	9	136137065	G	A
IDL-C	9	136138765	GCGCCCACCACTA	A
IDL-C	9	136139265	C	A
IDL-C	9	136139907	GAAACTGCCG	A
IDL-C	9	136142217	T	G
IDL-C	9	136143121	T	C
IDL-C	9	136144309	G	A
IDL-C	9	136145425	C	A
IDL-C	9	136145974	G	A
IDL-C	9	136146046	G	A
IDL-C	9	136146597	T	C
IDL-C	9	136149399	G	A
IDL-C	9	136153875	T	C
IDL-C	9	136153981	T	C
IDL-C	9	136154867	T	G
IDL-C	9	136157133	G	A
IDL-C	9	136164593	T	G
IDL-C	9	136184782	G	A
IDL-C	9	136237672	C	A
IDL-C	9	136267149	T	C
VLDL-C	11	116519655	T	C
VLDL-C	11	116519739	T	C
VLDL-C	11	116520398	T	C
VLDL-C	11	116521135	T	G
VLDL-C	11	116521748	G	A
VLDL-C	11	116523931	T	C
VLDL-C	11	116523988	T	C
VLDL-C	11	116525730	T	C
VLDL-C	11	116526322	C	A
VLDL-C	11	116528544	T	C
VLDL-C	11	116529442	T	C
VLDL-C	11	116536418	G	A
VLDL-C	11	116552562	T	C

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
VLDL-C	11	116552815	T	C
VLDL-C	11	116553025	G	A
VLDL-C	11	116558427	G	A
VLDL-C	11	116559553	T	G
VLDL-C	11	116559663	G	A
VLDL-C	11	116572089	T	C
VLDL-C	11	116574488	G	A
VLDL-C	11	116577441	G	A
VLDL-C	11	116578982	G	A
VLDL-C	11	116579663	T	C
VLDL-C	11	116581259	T	C
VLDL-C	11	116583017	G	A
VLDL-C	11	116584504	T	C
VLDL-C	11	116584987	T	C
VLDL-C	11	116586283	T	C
VLDL-C	11	116590787	G	A
VLDL-C	11	116596309	C	A
VLDL-C	11	116598315	T	C
VLDL-C	11	116603724	C	A
VLDL-C	11	116606766	G	A
VLDL-C	11	116607437	T	C
VLDL-C	11	116613660	T	C
VLDL-C	11	116623659	T	C
VLDL-C	11	116624601	C	A
VLDL-C	11	116624703	T	G
VLDL-C	11	116628396	T	C
VLDL-C	11	116631707	T	C
VLDL-C	11	116639104	G	A
VLDL-C	11	116640768	G	A
VLDL-C	11	116645275	T	C
VLDL-C	11	116646107	G	A
VLDL-C	11	116651115	T	C
VLDL-C	11	116652423	G	A
VLDL-C	11	116657561	T	C
VLDL-C	11	116658031	T	G
VLDL-C	11	116660686	G	A
VLDL-C	11	116662579	T	C
VLDL-C	11	116663707	G	A
VLDL-C	11	116664040	G	A
VLDL-C	11	116667083	G	A
VLDL-C	11	116670676	C	A
VLDL-C	11	116673464	T	C
VLDL-C	11	116680418	T	C
VLDL-C	11	116684028	T	C

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
VLDL-C	11	116692334	T	C
VLDL-C	11	116693464	T	C
VLDL-C	11	116695780	G	A
VLDL-C	11	116699389	G	A
VLDL-C	11	116701535	T	C
VLDL-C	11	116703146	T	C
VLDL-C	11	116703671	T	G
VLDL-C	11	116704178	C	A
VLDL-C	11	116705516	G	A
VLDL-C	11	116705568	T	G
VLDL-C	11	116707338	G	A
VLDL-C	11	116707583	G	A
VLDL-C	11	116710968	G	A
VLDL-C	11	116711141	T	C
VLDL-C	11	116722041	T	G
VLDL-C	11	116730638	G	A
VLDL-C	11	116731205	G	A
VLDL-C	11	116762028	G	A
VLDL-C	11	116764021	T	C
VLDL-C	11	116782202	G	A
VLDL-C	11	116807970	G	A
VLDL-C	11	116908283	G	A
VLDL-C	11	116979689	T	C
VLDL-C	11	116990851	G	A
VLDL-C	11	116998879	T	C
VLDL-C	11	117006383	G	A
VLDL-C	11	117037361	G	A
VLDL-C	11	117039325	T	G
VLDL-C	11	117045335	T	C
VLDL-C	11	117062370	T	C
VLDL-C	11	117071970	T	C
VLDL-C	11	117075566	T	C
VLDL-C	11	117085270	C	A
VLDL-C	11	117089628	G	A
VLDL-C	16	56945049	C	A
VLDL-C	16	56985139	G	A
VLDL-C	16	56985514	G	A
VLDL-C	16	56986762	T	G
VLDL-C	16	56988044	T	C
VLDL-C	16	56990716	C	A
VLDL-C	16	56993324	C	A
VLDL-C	16	56993886	G	A
VLDL-C	16	56995236	C	A
VLDL-C	16	56996158	T	C

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
VLDL-C	16	56997233	G	A
VLDL-C	16	56998918	G	A
VLDL-C	16	56999258	C	A
VLDL-C	16	57002732	T	G
VLDL-C	16	57005479	C	A
VLDL-C	16	57006378	G	A
VLDL-C	16	57006590	T	C
VLDL-C	19	11198502	T	C
VLDL-C	19	19329924	T	C
VLDL-C	19	19366632	T	C
VLDL-C	19	19394368	G	A
VLDL-C	19	19407718	T	C
VLDL-C	19	19456917	T	C
VLDL-C	19	19494483	G	A
VLDL-C	19	19544644	T	C
VLDL-C	19	19786099	G	A
VLDL-C	19	19789528	G	A
VLDL-C	19	45388130	G	A
VLDL-C	19	45388500	G	A
VLDL-C	19	45392254	T	C
VLDL-C	19	45395266	G	A
VLDL-C	19	45396219	T	C
VLDL-C	19	45396665	T	G
VLDL-C	19	45411941	T	C
VLDL-C	19	45414451	T	C
VLDL-C	19	45416478	G	A
VLDL-C	19	45418961	T	C
VLDL-C	19	45425175	T	G
VLDL-C	1	62900811	G	A
VLDL-C	1	62960250	T	C
VLDL-C	1	63034363	C	A
VLDL-C	1	63048276	C	A
VLDL-C	1	63049551	C	A
VLDL-C	1	63118196	C	A
VLDL-C	1	63165761	G	A
VLDL-C	1	63167984	C	A
VLDL-C	1	63171063	T	C
VLDL-C	1	63195692	T	C
VLDL-C	1	63199936	T	G
VLDL-C	2	21150787	T	C
VLDL-C	2	21216815	C	A
VLDL-C	2	21217490	T	C
VLDL-C	2	21231524	G	A
VLDL-C	2	21232195	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
VLDL-C	2	21239667	T	C
VLDL-C	2	21244000	T	G
VLDL-C	2	21259562	T	C
VLDL-C	2	21263900	G	A
VLDL-C	2	21267461	G	A
VLDL-C	2	21273490	T	G
VLDL-C	2	21292377	C	A
VLDL-C	2	21295832	G	A
VLDL-C	2	27598097	T	C
VLDL-C	2	27730940	T	C
VLDL-C	2	27741105	G	A
VLDL-C	2	27742603	T	C
VLDL-C	7	72822848	C	A
VLDL-C	7	72830546	T	C
VLDL-C	7	72850178	T	C
VLDL-C	7	72854549	T	C
VLDL-C	7	72856269	G	A
VLDL-C	7	72856430	T	C
VLDL-C	7	72864869	G	A
VLDL-C	7	72873420	G	A
VLDL-C	7	72878044	T	G
VLDL-C	7	72971231	T	C
VLDL-C	7	72971728	C	A
VLDL-C	7	72987354	T	C
VLDL-C	7	72989390	G	A
VLDL-C	7	72991592	T	C
VLDL-C	7	72995943	T	C
VLDL-C	7	73003027	G	A
VLDL-C	7	73003303	C	A
VLDL-C	7	73007943	G	A
VLDL-C	7	73016862	T	C
VLDL-C	7	73017005	G	A
VLDL-C	7	73018524	T	C
VLDL-C	7	73026378	T	C
VLDL-C	7	73035857	T	C
VLDL-C	7	73040814	T	G
VLDL-C	7	73042085	T	C
VLDL-C	7	73042443	T	C
VLDL-C	7	73046779	G	A
VLDL-C	7	73047551	T	C
VLDL-C	7	73050599	G	A
VLDL-C	7	73054746	G	A
VLDL-C	7	73056750	T	C
VLDL-C	7	73058017	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
VLDL-C	8	126447308	T	C
VLDL-C	8	126475770	G	A
VLDL-C	8	126478450	T	C
VLDL-C	8	126479315	G	A
VLDL-C	8	126479362	T	C
VLDL-C	8	126480367	T	C
VLDL-C	8	126484526	T	G
VLDL-C	8	126486409	G	A
VLDL-C	8	126488930	G	A
VLDL-C	8	126491304	T	C
VLDL-C	8	126493392	G	A
VLDL-C	8	126506694	G	A
VLDL-C	8	19720622	T	C
VLDL-C	8	19723503	T	C
VLDL-C	8	19734951	G	A
VLDL-C	8	19755977	T	G
VLDL-C	8	19797916	T	G
VLDL-C	8	19810787	C	A
VLDL-C	8	19811901	T	C
VLDL-C	8	19812812	T	C
VLDL-C	8	19813180	G	A
VLDL-C	8	19816371	T	C
VLDL-C	8	19816934	T	C
VLDL-C	8	19818042	G	A
VLDL-C	8	19819439	G	A
VLDL-C	8	19820405	G	A
VLDL-C	8	19824563	T	C
VLDL-C	8	19826373	G	A
VLDL-C	8	19830170	T	G
VLDL-C	8	19830921	T	C
VLDL-C	8	19838469	T	C
VLDL-C	8	19839709	T	C
VLDL-C	8	19843879	T	C
VLDL-C	8	19844222	G	A
VLDL-C	8	19849757	G	A
VLDL-C	8	19849992	T	C
VLDL-C	8	19856539	T	C
VLDL-C	8	19865175	G	A
VLDL-C	8	19865843	G	A
VLDL-C	8	19868971	T	C
VLDL-C	8	19870693	G	A
VLDL-C	8	19873556	C	A
VLDL-C	8	19873566	G	A
VLDL-C	8	19874153	T	C

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
VLDL-C	8	19875004	G	A
VLDL-C	8	19875100	T	C
VLDL-C	8	19882950	T	C
VLDL-C	8	19912060	G	A
VLDL-C	8	19912370	G	A
VLDL-C	8	19928160	G	A
VLDL-C	8	19928582	G	A
VLDL-C	8	19931087	T	C
VLDL-C	8	19931193	T	C
VLDL-C	8	19931498	G	A
VLDL-C	8	19932088	T	C
VLDL-C	8	19932863	T	C
VLDL-C	8	19936687	G	A
VLDL-C	8	19938946	T	C
VLDL-C	8	19939049	T	C
VLDL-C	8	19941448	T	C
Rem-Chol	11	116519739	T	C
Rem-Chol	11	116520398	T	C
Rem-Chol	11	116523931	T	C
Rem-Chol	11	116525730	T	C
Rem-Chol	11	116529442	T	C
Rem-Chol	11	116536418	G	A
Rem-Chol	11	116552815	T	C
Rem-Chol	11	116553025	G	A
Rem-Chol	11	116558427	G	A
Rem-Chol	11	116559553	T	G
Rem-Chol	11	116574488	G	A
Rem-Chol	11	116577441	G	A
Rem-Chol	11	116579663	T	C
Rem-Chol	11	116581259	T	C
Rem-Chol	11	116583017	G	A
Rem-Chol	11	116584504	T	C
Rem-Chol	11	116584987	T	C
Rem-Chol	11	116586283	T	C
Rem-Chol	11	116590787	G	A
Rem-Chol	11	116603724	C	A
Rem-Chol	11	116606766	G	A
Rem-Chol	11	116607437	T	C
Rem-Chol	11	116611457	T	C
Rem-Chol	11	116613660	T	C
Rem-Chol	11	116623659	T	C
Rem-Chol	11	116631707	T	C
Rem-Chol	11	116639104	G	A
Rem-Chol	11	116645275	T	C

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
Rem-Chol	11	116651115	T	C
Rem-Chol	11	116652423	G	A
Rem-Chol	11	116657561	T	C
Rem-Chol	11	116662579	T	C
Rem-Chol	11	116663707	G	A
Rem-Chol	11	116664040	G	A
Rem-Chol	11	116667083	G	A
Rem-Chol	11	116670676	C	A
Rem-Chol	11	116671476	T	C
Rem-Chol	11	116701535	T	C
Rem-Chol	11	116703146	T	C
Rem-Chol	11	116705516	G	A
Rem-Chol	11	116705568	T	G
Rem-Chol	11	116707583	G	A
Rem-Chol	11	116710968	G	A
Rem-Chol	11	116730638	G	A
Rem-Chol	11	116764021	T	C
Rem-Chol	11	116908283	G	A
Rem-Chol	11	116990851	G	A
Rem-Chol	11	117075566	T	C
Rem-Chol	16	56945049	C	A
Rem-Chol	16	56988044	T	C
Rem-Chol	16	56993324	C	A
Rem-Chol	16	56993886	G	A
Rem-Chol	16	57006590	T	C
Rem-Chol	19	11185919	T	C
Rem-Chol	19	11186412	T	C
Rem-Chol	19	11186711	T	C
Rem-Chol	19	11187611	G	A
Rem-Chol	19	11190544	T	C
Rem-Chol	19	11195030	G	A
Rem-Chol	19	11198187	T	C
Rem-Chol	19	11202306	T	G
Rem-Chol	19	11210912	T	C
Rem-Chol	19	11262969	T	G
Rem-Chol	19	11267757	T	C
Rem-Chol	19	11274679	G	A
Rem-Chol	19	11276256	T	C
Rem-Chol	19	45232161	G	A
Rem-Chol	19	45302504	G	A
Rem-Chol	19	45319631	G	A
Rem-Chol	19	45325738	T	G
Rem-Chol	19	45327459	T	C
Rem-Chol	19	45329214	T	G

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
Rem-Chol	19	45335676	G	A
Rem-Chol	19	45336035	T	C
Rem-Chol	19	45338493	T	C
Rem-Chol	19	45342114	G	A
Rem-Chol	19	45342241	G	A
Rem-Chol	19	45359706	G	A
Rem-Chol	19	45361646	G	A
Rem-Chol	19	45382675	G	A
Rem-Chol	19	45384405	T	C
Rem-Chol	19	45388500	G	A
Rem-Chol	19	45392254	T	C
Rem-Chol	19	45395266	G	A
Rem-Chol	19	45395619	G	A
Rem-Chol	19	45395844	G	A
Rem-Chol	19	45396144	T	C
Rem-Chol	19	45396219	T	C
Rem-Chol	19	45396665	T	G
Rem-Chol	19	45397229	G	A
Rem-Chol	19	45410002	G	A
Rem-Chol	19	45411941	T	C
Rem-Chol	19	45412079	T	C
Rem-Chol	19	45415640	G	A
Rem-Chol	19	45415713	G	A
Rem-Chol	19	45415935	T	G
Rem-Chol	19	45421254	G	A
Rem-Chol	19	45421877	G	A
Rem-Chol	19	45422946	G	A
Rem-Chol	19	45425460	G	A
Rem-Chol	19	45426792	G	A
Rem-Chol	19	45428234	G	A
Rem-Chol	19	45447221	G	A
Rem-Chol	19	45541782	G	A
Rem-Chol	1	109817838	T	C
Rem-Chol	1	109821511	T	G
Rem-Chol	1	109822166	G	A
Rem-Chol	1	55505647	T	G
Rem-Chol	1	62900811	G	A
Rem-Chol	1	62960250	T	C
Rem-Chol	1	62960575	T	C
Rem-Chol	1	63034363	C	A
Rem-Chol	1	63048276	C	A
Rem-Chol	1	63049551	C	A
Rem-Chol	1	63118196	C	A
Rem-Chol	1	63165761	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
Rem-Chol	1	63171063	T	C
Rem-Chol	1	63195692	T	C
Rem-Chol	1	63199936	T	G
Rem-Chol	2	21134656	T	C
Rem-Chol	2	21140540	T	C
Rem-Chol	2	21141725	G	A
Rem-Chol	2	21150787	T	C
Rem-Chol	2	21182116	G	A
Rem-Chol	2	21209542	T	C
Rem-Chol	2	21213544	T	C
Rem-Chol	2	21216815	C	A
Rem-Chol	2	21217490	T	C
Rem-Chol	2	21232195	G	A
Rem-Chol	2	21239667	T	C
Rem-Chol	2	21244000	T	G
Rem-Chol	2	21259562	T	C
Rem-Chol	2	21263900	G	A
Rem-Chol	2	21267461	G	A
Rem-Chol	2	21271323	G	A
Rem-Chol	2	21285711	C	A
Rem-Chol	2	21286057	T	C
Rem-Chol	2	21288226	G	A
Rem-Chol	2	21288321	G	A
Rem-Chol	2	21292377	C	A
Rem-Chol	2	21300770	C	A
Rem-Chol	2	21303616	T	C
Rem-Chol	2	21309335	T	C
Rem-Chol	2	21313577	G	A
Rem-Chol	2	21327635	G	A
Rem-Chol	2	21328825	G	A
Rem-Chol	2	21368217	G	A
Rem-Chol	2	21369926	T	C
Rem-Chol	2	21371068	T	C
Rem-Chol	2	21381177	G	A
Rem-Chol	2	21382786	C	A
Rem-Chol	2	21383353	T	C
Rem-Chol	2	21383524	G	A
Rem-Chol	2	21383536	G	A
Rem-Chol	2	21383742	G	A
Rem-Chol	2	21397182	G	A
Rem-Chol	2	21415728	T	G
Rem-Chol	2	21419650	G	A
Rem-Chol	2	21435700	C	A
Rem-Chol	2	21439329	T	G

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
Rem-Chol	2	21448511	G	A
Rem-Chol	2	21450714	G	A
Rem-Chol	2	21453733	G	A
Rem-Chol	2	21469152	T	G
Rem-Chol	2	21476247	C	A
Rem-Chol	2	21476634	G	A
Rem-Chol	2	44072576	T	G
Rem-Chol	7	72856430	T	C
Rem-Chol	7	72878044	T	G
Rem-Chol	7	72934510	G	A
Rem-Chol	7	72977249	T	C
Rem-Chol	7	72998952	G	A
Rem-Chol	7	72999105	T	G
Rem-Chol	8	126481694	T	C
Rem-Chol	8	126481952	G	A
Rem-Chol	8	126485296	T	C
Rem-Chol	8	126486409	G	A
Rem-Chol	8	126488250	T	C
Rem-Chol	8	126495818	T	C
Rem-Chol	8	126506694	G	A
Rem-Chol	8	126507389	C	A
Apo-B	11	116519655	T	C
Apo-B	11	116520398	T	C
Apo-B	11	116521558	G	A
Apo-B	11	116522233	TC	T
Apo-B	11	116522854	G	A
Apo-B	11	116524569	CTT	C
Apo-B	11	116525867	T	C
Apo-B	11	116526032	CCT	C
Apo-B	11	116526322	C	A
Apo-B	11	116528224	T	G
Apo-B	11	116529313	G	A
Apo-B	11	116536418	G	A
Apo-B	11	116552562	T	C
Apo-B	11	116553025	G	A
Apo-B	11	116555033	TA	T
Apo-B	11	116557248	T	C
Apo-B	11	116559553	T	G
Apo-B	11	116575473	G	A
Apo-B	11	116577441	G	A
Apo-B	11	116578982	G	A
Apo-B	11	116579663	T	C
Apo-B	11	116580816	T	C
Apo-B	11	116581259	T	C

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
Apo-B	11	116581641	G	A
Apo-B	11	116583017	G	A
Apo-B	11	116584987	T	C
Apo-B	11	116585533	G	A
Apo-B	11	116586283	T	C
Apo-B	11	116588629	T	C
Apo-B	11	116590787	G	A
Apo-B	11	116596309	C	A
Apo-B	11	116598988	G	A
Apo-B	11	116600400	G	A
Apo-B	11	116603677	G	A
Apo-B	11	116603724	C	A
Apo-B	11	116606766	G	A
Apo-B	11	116607437	T	C
Apo-B	11	116613660	T	C
Apo-B	11	116623659	T	C
Apo-B	11	116624601	C	A
Apo-B	11	116624703	T	G
Apo-B	11	116628396	T	C
Apo-B	11	116631707	T	C
Apo-B	11	116634173	T	C
Apo-B	11	116639104	G	A
Apo-B	11	116639692	T	C
Apo-B	11	116645275	T	C
Apo-B	11	116649135	G	A
Apo-B	11	116651115	T	C
Apo-B	11	116657561	T	C
Apo-B	11	116657590	CA	C
Apo-B	11	116660686	G	A
Apo-B	11	116662579	T	C
Apo-B	11	116664040	G	A
Apo-B	11	116667083	G	A
Apo-B	11	116670676	C	A
Apo-B	11	116673464	T	C
Apo-B	11	116684028	T	C
Apo-B	11	116688765	C	A
Apo-B	11	116692334	T	C
Apo-B	11	116694938	G	A
Apo-B	11	116699389	G	A
Apo-B	11	116701535	T	C
Apo-B	11	116701850	T	C
Apo-B	11	116703146	T	C
Apo-B	11	116703671	T	G
Apo-B	11	116704178	C	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
Apo-B	11	116705516	G	A
Apo-B	11	116705568	T	G
Apo-B	11	116707338	G	A
Apo-B	11	116707583	G	A
Apo-B	11	116707684	G	A
Apo-B	11	116710968	G	A
Apo-B	11	116711141	T	C
Apo-B	11	116722041	T	G
Apo-B	11	116730638	G	A
Apo-B	11	116732512	T	G
Apo-B	11	116736679	G	A
Apo-B	11	116741572	C	A
Apo-B	11	116762028	G	A
Apo-B	11	116764021	T	C
Apo-B	11	116772441	T	C
Apo-B	11	116782202	G	A
Apo-B	11	116807970	G	A
Apo-B	11	116966435	G	A
Apo-B	11	116967666	T	C
Apo-B	11	116969390	T	C
Apo-B	11	116972894	C	A
Apo-B	11	116981580	G	A
Apo-B	11	116990760	GAAAC	G
Apo-B	11	116990851	G	A
Apo-B	11	116993292	T	C
Apo-B	11	116996539	G	A
Apo-B	11	117004656	T	C
Apo-B	11	117027183	G	A
Apo-B	11	117045335	T	C
Apo-B	11	117048367	T	C
Apo-B	11	117049508	G	A
Apo-B	11	117075566	T	C
Apo-B	15	58723479	T	C
Apo-B	15	58723675	T	C
Apo-B	16	56987765	T	C
Apo-B	16	56988044	T	C
Apo-B	16	56989830	G	A
Apo-B	16	56993161	G	A
Apo-B	16	56993324	C	A
Apo-B	16	72052348	G	A
Apo-B	16	72078989	TG	T
Apo-B	16	72108093	G	A
Apo-B	18	3353012	G	A
Apo-B	19	10636323	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
Apo-B	19	10641608	G	A
Apo-B	19	10643471	G	A
Apo-B	19	10703280	G	A
Apo-B	19	10734951	T	C
Apo-B	19	10901440	G	A
Apo-B	19	10903972	G	A
Apo-B	19	10909953	T	C
Apo-B	19	10914829	G	A
Apo-B	19	10915031	G	A
Apo-B	19	10916684	T	C
Apo-B	19	10926952	T	C
Apo-B	19	10927540	T	C
Apo-B	19	10933022	T	C
Apo-B	19	10948031	G	A
Apo-B	19	10950125	T	C
Apo-B	19	10952958	G	A
Apo-B	19	10954950	G	A
Apo-B	19	10965270	T	C
Apo-B	19	10967970	G	A
Apo-B	19	10981992	T	C
Apo-B	19	11027626	C	A
Apo-B	19	11054715	G	A
Apo-B	19	11055935	G	A
Apo-B	19	11059389	G	A
Apo-B	19	11065687	G	A
Apo-B	19	11075706	G	A
Apo-B	19	11088219	T	C
Apo-B	19	11106790	T	C
Apo-B	19	11112151	T	C
Apo-B	19	11113902	G	A
Apo-B	19	11114206	T	C
Apo-B	19	11126160	T	C
Apo-B	19	11127069	T	G
Apo-B	19	11128824	T	C
Apo-B	19	11132080	G	A
Apo-B	19	11134090	G	A
Apo-B	19	11136315	T	C
Apo-B	19	11139636	T	G
Apo-B	19	11140144	G	A
Apo-B	19	11146499	T	C
Apo-B	19	11159076	G	A
Apo-B	19	11159096	T	G
Apo-B	19	11159525	T	G
Apo-B	19	11163562	T	C

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
Apo-B	19	11163601	T	G
Apo-B	19	11163897	T	C
Apo-B	19	11164781	G	A
Apo-B	19	11166431	CT	C
Apo-B	19	11169514	T	C
Apo-B	19	11169947	T	C
Apo-B	19	11170839	T	C
Apo-B	19	11171281	C	A
Apo-B	19	11172299	G	A
Apo-B	19	11174229	CT	C
Apo-B	19	11174625	G	A
Apo-B	19	11174742	T	C
Apo-B	19	11177250	C	A
Apo-B	19	11177408	T	C
Apo-B	19	11180047	T	C
Apo-B	19	11184250	G	A
Apo-B	19	11184293	T	C
Apo-B	19	11185014	G	A
Apo-B	19	11185919	T	C
Apo-B	19	11186711	T	C
Apo-B	19	11187611	G	A
Apo-B	19	11188313	CTTTA	C
Apo-B	19	11188899	T	C
Apo-B	19	11189298	CG	C
Apo-B	19	11190110	G	A
Apo-B	19	11190544	T	C
Apo-B	19	11195030	G	A
Apo-B	19	11202306	T	G
Apo-B	19	11205975	G	A
Apo-B	19	11206575	G	A
Apo-B	19	11207102	T	C
Apo-B	19	11207516	G	A
Apo-B	19	11207982	T	C
Apo-B	19	11209757	CCAAA	C
Apo-B	19	11210912	T	C
Apo-B	19	11227070	T	C
Apo-B	19	11227480	C	A
Apo-B	19	11228745	T	C
Apo-B	19	11228965	C	A
Apo-B	19	11230881	T	C
Apo-B	19	11236180	C	A
Apo-B	19	11243445	G	A
Apo-B	19	11245071	GGAGT	G
Apo-B	19	11248104	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
Apo-B	19	11250396	T	C
Apo-B	19	11257169	T	C
Apo-B	19	11262477	T	G
Apo-B	19	11262969	T	G
Apo-B	19	11267757	T	C
Apo-B	19	11271714	G	A
Apo-B	19	11274679	G	A
Apo-B	19	11275139	C	A
Apo-B	19	11275258	G	A
Apo-B	19	11276256	T	C
Apo-B	19	11277232	G	A
Apo-B	19	19130096	T	C
Apo-B	19	19325963	T	G
Apo-B	19	19329924	T	C
Apo-B	19	19366632	T	C
Apo-B	19	19380513	G	A
Apo-B	19	19393714	G	A
Apo-B	19	19394368	G	A
Apo-B	19	19407718	T	C
Apo-B	19	19418866	T	C
Apo-B	19	19432290	AG	A
Apo-B	19	19456917	T	C
Apo-B	19	19458388	G	A
Apo-B	19	19479497	T	C
Apo-B	19	19494483	G	A
Apo-B	19	19578743	G	A
Apo-B	19	19610596	T	C
Apo-B	19	19624481	G	A
Apo-B	19	19658472	T	G
Apo-B	19	19721722	G	A
Apo-B	19	19727152	G	A
Apo-B	19	19746151	T	G
Apo-B	19	19789528	G	A
Apo-B	19	19892796	G	A
Apo-B	19	19919422	G	A
Apo-B	19	20100542	G	A
Apo-B	19	20151617	GT	G
Apo-B	19	20217169	T	C
Apo-B	19	45122043	C	A
Apo-B	19	45134682	C	A
Apo-B	19	45135841	T	C
Apo-B	19	45156201	TA	T
Apo-B	19	45160086	C	A
Apo-B	19	45176340	T	C

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
Apo-B	19	45187163	G	A
Apo-B	19	45197027	C	A
Apo-B	19	45220896	T	C
Apo-B	19	45222982	T	G
Apo-B	19	45223038	G	A
Apo-B	19	45224236	G	A
Apo-B	19	45225345	T	C
Apo-B	19	45231074	CCCTT	C
Apo-B	19	45232161	G	A
Apo-B	19	45232205	G	A
Apo-B	19	45233271	TA	T
Apo-B	19	45233329	AAATTATAGA	
Apo-B	19	45234124	G	A
Apo-B	19	45237812	T	C
Apo-B	19	45237919	T	C
Apo-B	19	45239185	G	A
Apo-B	19	45239536	C	A
Apo-B	19	45242173	G	A
Apo-B	19	45242740	G	A
Apo-B	19	45247627	G	A
Apo-B	19	45251156	C	A
Apo-B	19	45253491	T	C
Apo-B	19	45253542	CTTTG	C
Apo-B	19	45253611	ATTGGC	A
Apo-B	19	45276590	GTTA	G
Apo-B	19	45296364	G	A
Apo-B	19	45296806	T	C
Apo-B	19	45302504	G	A
Apo-B	19	45302778	G	A
Apo-B	19	45302949	GAA	G
Apo-B	19	45302951	G	A
Apo-B	19	45303122	AAAAG	A
Apo-B	19	45315445	G	A
Apo-B	19	45319631	G	A
Apo-B	19	45324138	G	A
Apo-B	19	45325738	T	G
Apo-B	19	45326664	T	C
Apo-B	19	45327459	T	C
Apo-B	19	45331103	G	A
Apo-B	19	45333834	T	C
Apo-B	19	45335676	G	A
Apo-B	19	45336035	T	C
Apo-B	19	45337249	C	A
Apo-B	19	45337918	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
Apo-B	19	45338250	AT	A
Apo-B	19	45345708	G	A
Apo-B	19	45347911	C	A
Apo-B	19	45351937	T	C
Apo-B	19	45356141	T	C
Apo-B	19	45357377	T	C
Apo-B	19	45358026	T	C
Apo-B	19	45358353	T	C
Apo-B	19	45361646	G	A
Apo-B	19	45365447	G	A
Apo-B	19	45369203	G	A
Apo-B	19	45373565	G	A
Apo-B	19	45377334	G	A
Apo-B	19	45379060	C	A
Apo-B	19	45382034	G	A
Apo-B	19	45382675	G	A
Apo-B	19	45384405	T	C
Apo-B	19	45385356	C	A
Apo-B	19	45386467	GTAA	G
Apo-B	19	45387034	C	A
Apo-B	19	45387596	G	A
Apo-B	19	45388500	G	A
Apo-B	19	45389596	G	A
Apo-B	19	45392254	T	C
Apo-B	19	45393516	T	C
Apo-B	19	45395266	G	A
Apo-B	19	45395619	G	A
Apo-B	19	45395714	T	C
Apo-B	19	45395844	G	A
Apo-B	19	45396219	T	C
Apo-B	19	45399896	G	A
Apo-B	19	45400484	TG	T
Apo-B	19	45401868	T	C
Apo-B	19	45402262	T	G
Apo-B	19	45404691	G	A
Apo-B	19	45406673	G	A
Apo-B	19	45408628	T	C
Apo-B	19	45410002	G	A
Apo-B	19	45411941	T	C
Apo-B	19	45412079	T	C
Apo-B	19	45414451	T	C
Apo-B	19	45415640	G	A
Apo-B	19	45416478	G	A
Apo-B	19	45416831	T	G

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
Apo-B	19	45418486	G	A
Apo-B	19	45418961	T	C
Apo-B	19	45421204	T	C
Apo-B	19	45421254	G	A
Apo-B	19	45422946	G	A
Apo-B	19	45423944	T	C
Apo-B	19	45425178	G	A
Apo-B	19	45426792	G	A
Apo-B	19	45428234	G	A
Apo-B	19	45429543	T	C
Apo-B	19	45436216	G	A
Apo-B	19	45436657	G	A
Apo-B	19	45441608	T	C
Apo-B	19	45447221	G	A
Apo-B	19	45478352	G	A
Apo-B	19	45491032	T	C
Apo-B	19	45531618	GT	G
Apo-B	19	45541782	G	A
Apo-B	19	45653883	TAGTC	T
Apo-B	19	45672478	G	A
Apo-B	19	45723379	T	C
Apo-B	19	45880690	T	C
Apo-B	1	109814880	T	C
Apo-B	1	109815252	G	A
Apo-B	1	109817245	T	C
Apo-B	1	109818158	CT	C
Apo-B	1	109819296	C	A
Apo-B	1	109820884	G	A
Apo-B	1	109821511	T	G
Apo-B	1	109822166	G	A
Apo-B	1	27284913	T	C
Apo-B	1	3704452	T	G
Apo-B	1	3738018	T	C
Apo-B	1	54708492	G	A
Apo-B	1	54715326	C	A
Apo-B	1	54721862	TC	T
Apo-B	1	54728029	T	C
Apo-B	1	54834840	T	C
Apo-B	1	54849397	T	C
Apo-B	1	54880705	T	C
Apo-B	1	54935900	G	A
Apo-B	1	54983266	T	C
Apo-B	1	55083647	G	A
Apo-B	1	55085141	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
Apo-B	1	55138291	G	A
Apo-B	1	55160482	T	G
Apo-B	1	55224773	C	A
Apo-B	1	55243587	G	A
Apo-B	1	55334001	G	A
Apo-B	1	55378724	G	A
Apo-B	1	55411580	G	A
Apo-B	1	55431933	T	C
Apo-B	1	55489542	T	C
Apo-B	1	55493584	C	A
Apo-B	1	55494017	T	C
Apo-B	1	55496039	T	C
Apo-B	1	55503448	G	A
Apo-B	1	55505647	T	G
Apo-B	1	55505861	G	A
Apo-B	1	55518467	G	A
Apo-B	1	55519015	T	G
Apo-B	1	55520212	G	A
Apo-B	1	55521109	G	A
Apo-B	1	55523361	G	A
Apo-B	1	55524116	T	C
Apo-B	1	55524237	G	A
Apo-B	1	55524601	G	A
Apo-B	1	55527918	T	C
Apo-B	1	55538552	T	G
Apo-B	1	55636240	T	C
Apo-B	1	55656075	T	G
Apo-B	1	55711465	G	A
Apo-B	1	55713094	G	A
Apo-B	1	55713628	G	A
Apo-B	1	55716497	G	A
Apo-B	1	55719011	G	A
Apo-B	1	55720083	C	A
Apo-B	1	55720337	G	A
Apo-B	1	55726519	T	C
Apo-B	1	55730327	T	C
Apo-B	1	55731772	TC	T
Apo-B	1	55732596	ATTGT	A
Apo-B	1	55732837	T	C
Apo-B	1	55734875	T	C
Apo-B	1	55738663	T	C
Apo-B	1	55739925	T	C
Apo-B	1	55744966	G	A
Apo-B	1	55746330	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
Apo-B	1	55750138	T	C
Apo-B	1	55767547	T	C
Apo-B	1	55779387	T	G
Apo-B	1	55785672	T	C
Apo-B	1	55785815	T	G
Apo-B	1	55798859	T	C
Apo-B	1	55806465	T	C
Apo-B	1	56034852	G	A
Apo-B	1	56549124	T	C
Apo-B	1	56608087	T	C
Apo-B	1	56625395	G	A
Apo-B	1	62900811	G	A
Apo-B	1	62901807	C	A
Apo-B	1	62934002	G	A
Apo-B	1	62936912	T	C
Apo-B	1	62944947	CA	C
Apo-B	1	62960250	T	C
Apo-B	1	62960575	T	C
Apo-B	1	63025942	T	G
Apo-B	1	63048276	C	A
Apo-B	1	63119256	T	C
Apo-B	1	63121101	TC	T
Apo-B	1	63135127	G	A
Apo-B	1	63177365	T	C
Apo-B	1	63177539	T	G
Apo-B	1	63191577	C	A
Apo-B	1	63191777	T	C
Apo-B	1	63193972	G	A
Apo-B	1	63195692	T	C
Apo-B	1	63203221	T	C
Apo-B	20	39142516	G	A
Apo-B	20	39183949	T	C
Apo-B	20	39193406	T	C
Apo-B	2	20900832	T	C
Apo-B	2	20901660	T	G
Apo-B	2	20903015	T	C
Apo-B	2	20918951	TA	T
Apo-B	2	20928577	G	A
Apo-B	2	20967410	G	A
Apo-B	2	21050729	GA	G
Apo-B	2	21074998	G	A
Apo-B	2	21076264	TA	T
Apo-B	2	21085410	T	C
Apo-B	2	21087323	TCTC	T

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
Apo-B	2	21091409	C	A
Apo-B	2	21092488	T	C
Apo-B	2	21093112	G	A
Apo-B	2	21100426	T	C
Apo-B	2	21101046	G	A
Apo-B	2	21108159	G	A
Apo-B	2	21121464	T	C
Apo-B	2	21123352	C	A
Apo-B	2	21126936	G	A
Apo-B	2	21133883	G	A
Apo-B	2	21134011	T	C
Apo-B	2	21135577	G	A
Apo-B	2	21138066	T	C
Apo-B	2	21140540	T	C
Apo-B	2	21142994	T	C
Apo-B	2	21148274	C	A
Apo-B	2	21149424	G	A
Apo-B	2	21150787	T	C
Apo-B	2	21151917	T	C
Apo-B	2	21152755	G	A
Apo-B	2	21182116	G	A
Apo-B	2	21182710	G	A
Apo-B	2	21190024	T	C
Apo-B	2	21190209	T	C
Apo-B	2	21196112	G	A
Apo-B	2	21196346	T	G
Apo-B	2	21197159	T	C
Apo-B	2	21202959	C	A
Apo-B	2	21205920	T	C
Apo-B	2	21208211	G	A
Apo-B	2	21216815	C	A
Apo-B	2	21217490	T	C
Apo-B	2	21231524	G	A
Apo-B	2	21232804	G	A
Apo-B	2	21233972	T	C
Apo-B	2	21239661	T	C
Apo-B	2	21239667	T	C
Apo-B	2	21240031	C	A
Apo-B	2	21240364	G	A
Apo-B	2	21244000	T	G
Apo-B	2	21245329	T	G
Apo-B	2	21250914	G	A
Apo-B	2	21259562	T	C
Apo-B	2	21259612	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
Apo-B	2	21262427	G	A
Apo-B	2	21263900	G	A
Apo-B	2	21266774	GGCAGCGCCG	A
Apo-B	2	21267210	G	A
Apo-B	2	21267461	G	A
Apo-B	2	21270554	C	A
Apo-B	2	21271323	G	A
Apo-B	2	21286057	T	C
Apo-B	2	21288226	G	A
Apo-B	2	21290067	T	C
Apo-B	2	21294975	G	A
Apo-B	2	21300770	C	A
Apo-B	2	21303616	T	C
Apo-B	2	21309335	T	C
Apo-B	2	21309856	G	A
Apo-B	2	21311541	T	G
Apo-B	2	21313577	G	A
Apo-B	2	21313778	TC	T
Apo-B	2	21323868	CTGT	C
Apo-B	2	21327042	GCTAGTGCCTA	A
Apo-B	2	21327635	G	A
Apo-B	2	21328825	G	A
Apo-B	2	21333932	C	A
Apo-B	2	21337306	T	C
Apo-B	2	21364562	T	C
Apo-B	2	21367696	TTGAAGAC	T
Apo-B	2	21368217	G	A
Apo-B	2	21371068	T	C
Apo-B	2	21372014	G	A
Apo-B	2	21378013	CA	C
Apo-B	2	21378453	G	A
Apo-B	2	21378805	G	A
Apo-B	2	21381177	G	A
Apo-B	2	21383353	T	C
Apo-B	2	21383514	G	A
Apo-B	2	21388401	GA	G
Apo-B	2	21389659	T	G
Apo-B	2	21393623	G	A
Apo-B	2	21399216	T	G
Apo-B	2	21406048	T	C
Apo-B	2	21410890	T	C
Apo-B	2	21413077	G	A
Apo-B	2	21414142	T	C
Apo-B	2	21415728	T	G

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
Apo-B	2	21419650	G	A
Apo-B	2	21422928	T	C
Apo-B	2	21428049	C	A
Apo-B	2	21428185	G	A
Apo-B	2	21428289	G	A
Apo-B	2	21434580	G	A
Apo-B	2	21435700	C	A
Apo-B	2	21437321	T	G
Apo-B	2	21438738	G	A
Apo-B	2	21439329	T	G
Apo-B	2	21442944	TTGCTCCCCTCTGCTTAGCA	
Apo-B	2	21445569	G	A
Apo-B	2	21448511	G	A
Apo-B	2	21449034	T	C
Apo-B	2	21449987	G	A
Apo-B	2	21450714	G	A
Apo-B	2	21451604	T	C
Apo-B	2	21451687	G	A
Apo-B	2	21453733	G	A
Apo-B	2	21457324	G	A
Apo-B	2	21463922	T	C
Apo-B	2	21467872	ATT	A
Apo-B	2	21469336	T	C
Apo-B	2	21471603	T	C
Apo-B	2	21471750	G	A
Apo-B	2	21476247	C	A
Apo-B	2	21476634	G	A
Apo-B	2	21524000	G	A
Apo-B	2	21530659	G	A
Apo-B	2	27574159	T	C
Apo-B	2	27591804	T	C
Apo-B	2	27598097	T	C
Apo-B	2	27635463	G	A
Apo-B	2	27648726	T	C
Apo-B	2	27678471	G	A
Apo-B	2	27685388	G	A
Apo-B	2	27730940	T	C
Apo-B	2	27742603	T	C
Apo-B	2	27748597	C	A
Apo-B	2	27748624	G	A
Apo-B	2	27750545	G	A
Apo-B	2	27752463	G	A
Apo-B	2	27752871	T	C
Apo-B	2	27988821	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
Apo-B	2	44057570	C	A
Apo-B	2	44057825	TCTC	T
Apo-B	2	44058201	G	A
Apo-B	2	44073656	T	C
Apo-B	2	44073881	T	C
Apo-B	2	44074000	G	A
Apo-B	2	44088041	C	A
Apo-B	2	44092066	T	C
Apo-B	2	44096259	T	G
Apo-B	2	44096402	G	A
Apo-B	4	63875850	T	C
Apo-B	4	73406173	G	A
Apo-B	4	73499882	T	C
Apo-B	5	156367092	T	C
Apo-B	5	156381370	G	A
Apo-B	5	156390297	T	C
Apo-B	5	156443066	G	A
Apo-B	5	156482099	T	C
Apo-B	5	74302658	G	A
Apo-B	5	74340327	C	A
Apo-B	5	74343769	G	A
Apo-B	5	74352180	G	A
Apo-B	5	74354422	G	A
Apo-B	5	74372141	T	C
Apo-B	5	74379827	G	A
Apo-B	5	74382081	G	A
Apo-B	5	74384115	G	A
Apo-B	5	74389325	C	A
Apo-B	5	74443132	T	C
Apo-B	5	74461850	T	G
Apo-B	5	74461924	C	A
Apo-B	5	74480288	T	C
Apo-B	5	74536921	G	A
Apo-B	5	74537513	G	A
Apo-B	5	74547484	C	A
Apo-B	5	74558893	G	A
Apo-B	5	74562564	T	C
Apo-B	5	74565199	GTCTCCGTCTGCC	
Apo-B	5	74567359	G	A
Apo-B	5	74586866	CT	C
Apo-B	5	74587940	C	A
Apo-B	5	74596682	T	G
Apo-B	5	74603479	G	A
Apo-B	5	74604742	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
Apo-B	5	74608732	T	C
Apo-B	5	74611232	TG	T
Apo-B	5	74613943	T	C
Apo-B	5	74615021	T	C
Apo-B	5	74616843	T	C
Apo-B	5	74617262	G	A
Apo-B	5	74619132	T	C
Apo-B	5	74622121	TTA	T
Apo-B	5	74625512	G	A
Apo-B	5	74629162	CAT	C
Apo-B	5	74630189	T	C
Apo-B	5	74630277	T	G
Apo-B	5	74631352	T	C
Apo-B	5	74644785	TA	T
Apo-B	5	74651084	G	A
Apo-B	5	74652754	ATCCATCCGTATGTCCG	
Apo-B	5	74653462	T	G
Apo-B	5	74656539	T	C
Apo-B	5	74660064	ATTG	A
Apo-B	5	74660356	T	C
Apo-B	5	74666492	T	C
Apo-B	5	74673707	G	A
Apo-B	5	74675076	T	C
Apo-B	5	74692776	G	A
Apo-B	5	74717653	T	C
Apo-B	5	74736600	TA	T
Apo-B	5	74745228	T	G
Apo-B	5	74753736	T	C
Apo-B	5	74808237	T	G
Apo-B	5	74808417	G	A
Apo-B	5	74810384	G	A
Apo-B	5	74816841	CT	C
Apo-B	5	74879890	G	A
Apo-B	5	74906963	C	A
Apo-B	5	74965122	G	A
Apo-B	5	74967386	T	C
Apo-B	7	21563471	T	C
Apo-B	7	21569089	G	A
Apo-B	7	21576905	T	C
Apo-B	7	21577960	T	C
Apo-B	7	21581561	G	A
Apo-B	7	21582917	T	C
Apo-B	7	21582963	T	G
Apo-B	7	21586595	T	C

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
Apo-B	7	21588243	C	A
Apo-B	7	21589030	T	C
Apo-B	7	21589243	G	A
Apo-B	7	21589580	G	A
Apo-B	7	21592949	G	A
Apo-B	7	21595655	T	C
Apo-B	7	21596006	G	A
Apo-B	7	21597487	C	A
Apo-B	7	21597631	T	G
Apo-B	7	21599233	T	C
Apo-B	7	21601444	T	C
Apo-B	7	21601659	GCTCT	G
Apo-B	7	21603601	G	A
Apo-B	7	21603678	G	A
Apo-B	7	21607352	T	C
Apo-B	7	21610379	G	A
Apo-B	7	21627909	G	A
Apo-B	7	21629476	G	A
Apo-B	7	21631827	G	A
Apo-B	7	21637976	G	A
Apo-B	7	21647114	T	G
Apo-B	7	21650595	G	A
Apo-B	7	21670593	G	A
Apo-B	7	21670846	G	A
Apo-B	7	21686001	T	C
Apo-B	7	21691610	T	G
Apo-B	7	21693503	G	A
Apo-B	7	21693716	G	A
Apo-B	7	21693996	T	C
Apo-B	7	21702980	G	A
Apo-B	7	21712184	T	C
Apo-B	7	72856269	G	A
Apo-B	7	72971231	T	C
Apo-B	7	73029437	T	C
Apo-B	7	73046758	C	A
Apo-B	7	73046779	G	A
Apo-B	7	73047520	T	C
Apo-B	7	73050864	G	A
Apo-B	7	73051306	T	C
Apo-B	8	126447308	T	C
Apo-B	8	126475770	G	A
Apo-B	8	126476873	T	C
Apo-B	8	126479362	T	C
Apo-B	8	126480367	T	C

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
Apo-B	8	126484526	T	G
Apo-B	8	126485531	T	C
Apo-B	8	126486409	G	A
Apo-B	8	126488930	G	A
Apo-B	8	126491304	T	C
Apo-B	8	126495818	T	C
Apo-B	8	126499878	G	A
Apo-B	8	126501177	T	C
Apo-B	8	126506694	G	A
Apo-B	8	145028505	CG	C
Apo-B	8	19816934	T	C
Apo-B	8	19817401	G	A
Apo-B	8	19818042	G	A
Apo-B	8	19819439	G	A
Apo-B	8	19820405	G	A
Apo-B	8	19824563	T	C
Apo-B	8	19824626	CTT	C
Apo-B	8	19830170	T	G
Apo-B	8	19830921	T	C
Apo-B	8	19838469	T	C
Apo-B	8	19839709	T	C
Apo-B	8	19843879	T	C
Apo-B	8	19844222	G	A
Apo-B	8	19849757	G	A
Apo-B	8	19849992	T	C
Apo-B	8	19852156	T	G
Apo-B	8	19856260	T	G
Apo-B	8	19868386	C	A
Apo-B	8	19868971	T	C
Apo-B	8	19874932	AAGAC	A
Apo-B	8	19882950	T	C
Apo-B	8	19912370	G	A
Apo-B	8	19928582	G	A
Apo-B	8	19929778	T	G
Apo-B	8	19931498	G	A
Apo-B	8	19932863	T	C
Apo-B	8	19936687	G	A
Apo-B	8	19938946	T	C
Apo-B	8	19939049	T	C
Apo-B	8	59395980	CA	C
Apo-B	9	136146597	T	C
Apo-B	9	136149399	G	A
Apo-B	9	136151806	T	C
Apo-B	9	136153981	T	C

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
Apo-B	9	136154168	T	C
Apo-B	9	136154304	T	C
Apo-B	9	136184782	G	A
Apo-B	9	136267149	T	C
Apo-A1	11	116701535	T	C
Apo-A1	11	116705100	T	G
Apo-A1	11	116705278	T	C
Apo-A1	11	116705516	G	A
Apo-A1	11	116711141	T	C
Apo-A1	11	116728277	G	A
Apo-A1	11	116752163	T	C
Apo-A1	11	116772787	C	A
Apo-A1	11	116972935	T	C
Apo-A1	11	116975704	T	G
Apo-A1	11	116981335	G	A
Apo-A1	11	61547237	T	C
Apo-A1	11	61564299	T	G
Apo-A1	11	61580635	T	C
Apo-A1	11	61581656	G	A
Apo-A1	11	61582708	T	C
Apo-A1	11	61586328	CT	C
Apo-A1	11	61589481	G	A
Apo-A1	11	61591995	GAA	G
Apo-A1	11	61594920	CT	C
Apo-A1	11	61597212	T	C
Apo-A1	11	61597972	G	A
Apo-A1	11	61601872	T	C
Apo-A1	11	61601908	G	A
Apo-A1	11	61603237	T	C
Apo-A1	11	61603510	C	A
Apo-A1	11	61605215	G	A
Apo-A1	11	61609750	T	C
Apo-A1	11	61611216	T	C
Apo-A1	11	61616012	G	A
Apo-A1	11	61618012	T	C
Apo-A1	11	61618608	G	A
Apo-A1	11	61620628	AAACAAC	A
Apo-A1	11	61620703	CTCTT	C
Apo-A1	11	61621194	G	A
Apo-A1	11	61623793	G	A
Apo-A1	11	61624181	T	C
Apo-A1	11	61624414	T	C
Apo-A1	11	61625723	CA	C
Apo-A1	11	61626206	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
Apo-A1	11	61629122	G	A
Apo-A1	11	61629666	G	A
Apo-A1	11	61637587	T	C
Apo-A1	11	61639488	T	C
Apo-A1	11	61641542	T	G
Apo-A1	11	61647427	T	G
Apo-A1	11	61656117	G	A
Apo-A1	11	61656182	C	A
Apo-A1	11	61656995	T	C
Apo-A1	11	61657110	T	C
Apo-A1	11	61659296	G	A
Apo-A1	11	61803540	G	A
Apo-A1	12	109953417	G	A
Apo-A1	12	125265201	G	A
Apo-A1	12	125286650	T	C
Apo-A1	12	125287216	C	A
Apo-A1	12	125317391	C	A
Apo-A1	12	125324798	C	A
Apo-A1	12	125335510	C	A
Apo-A1	12	125338336	T	C
Apo-A1	12	125345448	G	A
Apo-A1	12	125349480	G	A
Apo-A1	12	125350849	T	C
Apo-A1	12	125351116	T	C
Apo-A1	12	125351149	G	A
Apo-A1	12	125351772	T	C
Apo-A1	12	125352603	T	C
Apo-A1	12	125363987	C	A
Apo-A1	12	125380232	G	A
Apo-A1	12	47223857	CAA	C
Apo-A1	12	79276836	G	A
Apo-A1	13	66479744	G	A
Apo-A1	15	58478950	T	C
Apo-A1	15	58489359	C	A
Apo-A1	15	58501481	T	G
Apo-A1	15	58520259	T	C
Apo-A1	15	58561006	G	A
Apo-A1	15	58579956	G	A
Apo-A1	15	58580525	G	A
Apo-A1	15	58582294	T	C
Apo-A1	15	58586129	T	C
Apo-A1	15	58607320	G	A
Apo-A1	15	58612816	G	A
Apo-A1	15	58623632	T	G

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
Apo-A1	15	58624396	T	C
Apo-A1	15	58630019	T	G
Apo-A1	15	58641140	G	A
Apo-A1	15	58661083	T	C
Apo-A1	15	58669703	C	A
Apo-A1	15	58671178	C	A
Apo-A1	15	58671765	T	G
Apo-A1	15	58672134	T	C
Apo-A1	15	58674051	G	A
Apo-A1	15	58674308	G	A
Apo-A1	15	58678512	T	C
Apo-A1	15	58679668	G	A
Apo-A1	15	58679807	CAGA	C
Apo-A1	15	58680638	T	C
Apo-A1	15	58680805	G	A
Apo-A1	15	58680954	T	C
Apo-A1	15	58682029	TGAA	T
Apo-A1	15	58682690	G	A
Apo-A1	15	58683366	G	A
Apo-A1	15	58683697	T	C
Apo-A1	15	58684478	T	C
Apo-A1	15	58684967	T	G
Apo-A1	15	58685970	T	C
Apo-A1	15	58686252	G	A
Apo-A1	15	58686338	G	A
Apo-A1	15	58687252	GA	G
Apo-A1	15	58687530	G	A
Apo-A1	15	58687603	T	C
Apo-A1	15	58687862	G	A
Apo-A1	15	58687880	T	C
Apo-A1	15	58688477	G	A
Apo-A1	15	58688478	C	A
Apo-A1	15	58689187	T	C
Apo-A1	15	58690754	G	A
Apo-A1	15	58691202	G	A
Apo-A1	15	58692007	G	A
Apo-A1	15	58692202	C	A
Apo-A1	15	58692479	T	C
Apo-A1	15	58692936	T	C
Apo-A1	15	58693860	T	C
Apo-A1	15	58694020	T	G
Apo-A1	15	58696300	T	C
Apo-A1	15	58697072	T	C
Apo-A1	15	58698113	T	G

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
Apo-A1	15	58698243	T	G
Apo-A1	15	58698755	T	G
Apo-A1	15	58699010	T	C
Apo-A1	15	58699937	T	C
Apo-A1	15	58702325	G	A
Apo-A1	15	58703069	C	A
Apo-A1	15	58703477	G	A
Apo-A1	15	58703895	G	A
Apo-A1	15	58705029	T	C
Apo-A1	15	58705658	AC	A
Apo-A1	15	58706797	G	A
Apo-A1	15	58709181	T	C
Apo-A1	15	58709182	G	A
Apo-A1	15	58709725	T	G
Apo-A1	15	58709750	G	A
Apo-A1	15	58710627	C	A
Apo-A1	15	58710736	T	C
Apo-A1	15	58712203	T	G
Apo-A1	15	58712945	C	A
Apo-A1	15	58712973	T	C
Apo-A1	15	58716044	G	A
Apo-A1	15	58716257	G	A
Apo-A1	15	58716615	T	G
Apo-A1	15	58718529	CA	C
Apo-A1	15	58719741	G	A
Apo-A1	15	58720262	T	C
Apo-A1	15	58720405	G	A
Apo-A1	15	58720431	C	A
Apo-A1	15	58721447	G	A
Apo-A1	15	58721614	G	A
Apo-A1	15	58722590	GC	G
Apo-A1	15	58723479	T	C
Apo-A1	15	58723675	T	C
Apo-A1	15	58724706	G	A
Apo-A1	15	58727279	T	C
Apo-A1	15	58727325	G	A
Apo-A1	15	58727687	T	C
Apo-A1	15	58728067	G	A
Apo-A1	15	58729144	T	C
Apo-A1	15	58730498	T	C
Apo-A1	15	58731455	T	C
Apo-A1	15	58731567	G	A
Apo-A1	15	58737341	T	G
Apo-A1	15	58738423	T	C

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
Apo-A1	15	58738760	G	A
Apo-A1	15	58741891	G	A
Apo-A1	15	58742418	G	A
Apo-A1	15	58742731	T	G
Apo-A1	15	58882792	T	C
Apo-A1	15	58899609	T	C
Apo-A1	15	58931340	G	A
Apo-A1	15	59080862	C	A
Apo-A1	15	59531818	T	C
Apo-A1	15	59566385	T	C
Apo-A1	15	59806496	T	G
Apo-A1	16	56745752	T	C
Apo-A1	16	56759532	G	A
Apo-A1	16	56811400	G	A
Apo-A1	16	56819919	T	C
Apo-A1	16	56827946	G	A
Apo-A1	16	56846804	T	C
Apo-A1	16	56899006	T	C
Apo-A1	16	56900100	G	A
Apo-A1	16	56909598	T	C
Apo-A1	16	56910692	T	G
Apo-A1	16	56927296	T	C
Apo-A1	16	56929944	G	A
Apo-A1	16	56938955	C	A
Apo-A1	16	56945049	C	A
Apo-A1	16	56984590	T	C
Apo-A1	16	56985139	G	A
Apo-A1	16	56985156	G	A
Apo-A1	16	56985514	G	A
Apo-A1	16	56985555	G	A
Apo-A1	16	56985805	T	C
Apo-A1	16	56986762	T	G
Apo-A1	16	56988044	T	C
Apo-A1	16	56988502	G	A
Apo-A1	16	56990716	C	A
Apo-A1	16	56991363	T	C
Apo-A1	16	56991524	G	A
Apo-A1	16	56991741	T	C
Apo-A1	16	56992017	G	A
Apo-A1	16	56993025	T	G
Apo-A1	16	56993211	T	C
Apo-A1	16	56993324	C	A
Apo-A1	16	56993897	C	A
Apo-A1	16	56993901	C	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
Apo-A1	16	56993909	C	A
Apo-A1	16	56994192	T	C
Apo-A1	16	56994244	TA	T
Apo-A1	16	56994894	G	A
Apo-A1	16	56995038	T	C
Apo-A1	16	56995236	C	A
Apo-A1	16	56996158	T	C
Apo-A1	16	56996211	G	A
Apo-A1	16	56996288	G	A
Apo-A1	16	56996645	GCC	G
Apo-A1	16	56997233	G	A
Apo-A1	16	56997349	CA	C
Apo-A1	16	56998918	G	A
Apo-A1	16	56999258	C	A
Apo-A1	16	56999328	T	C
Apo-A1	16	57000284	G	A
Apo-A1	16	57000938	G	A
Apo-A1	16	57001254	TCACA	T
Apo-A1	16	57001274	AC	A
Apo-A1	16	57001985	C	A
Apo-A1	16	57002404	C	A
Apo-A1	16	57002732	T	G
Apo-A1	16	57003146	T	C
Apo-A1	16	57005479	C	A
Apo-A1	16	57006590	T	C
Apo-A1	16	57007353	T	C
Apo-A1	16	57007451	G	A
Apo-A1	16	57008227	G	A
Apo-A1	16	57009651	TC	T
Apo-A1	16	57010232	T	C
Apo-A1	16	57010486	T	C
Apo-A1	16	57011185	G	A
Apo-A1	16	57012699	G	A
Apo-A1	16	57014875	G	A
Apo-A1	16	57016092	G	A
Apo-A1	16	57017002	T	G
Apo-A1	16	57017319	G	A
Apo-A1	16	57019392	T	C
Apo-A1	16	67675409	TA	T
Apo-A1	16	68021125	C	A
Apo-A1	16	68073644	CAAGG	C
Apo-A1	16	68127222	TAG	T
Apo-A1	16	68305702	TTTTTC	T
Apo-A1	16	68305708	TTTTTC	T

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
Apo-A1	17	45531884	T	G
Apo-A1	17	45542260	T	G
Apo-A1	18	46529282	T	G
Apo-A1	18	46704724	ACAT	A
Apo-A1	18	46723931	CT	C
Apo-A1	18	47049700	G	A
Apo-A1	18	47062054	T	G
Apo-A1	18	47066144	C	A
Apo-A1	18	47068878	T	G
Apo-A1	18	47085440	T	C
Apo-A1	18	47093864	T	C
Apo-A1	18	47096016	G	A
Apo-A1	18	47109955	G	A
Apo-A1	18	47118219	T	C
Apo-A1	18	47122158	C	A
Apo-A1	18	47126133	T	C
Apo-A1	18	47126999	G	A
Apo-A1	18	47128176	T	C
Apo-A1	18	47129148	T	C
Apo-A1	18	47131781	G	A
Apo-A1	18	47132464	T	C
Apo-A1	18	47133828	G	A
Apo-A1	18	47134066	T	C
Apo-A1	18	47134175	T	C
Apo-A1	18	47142243	G	A
Apo-A1	18	47143458	T	C
Apo-A1	18	47145202	G	A
Apo-A1	18	47146125	G	A
Apo-A1	18	47147746	G	A
Apo-A1	18	47148299	T	C
Apo-A1	18	47148886	T	C
Apo-A1	18	47149371	G	A
Apo-A1	18	47151264	G	A
Apo-A1	18	47157093	T	C
Apo-A1	18	47157439	T	C
Apo-A1	18	47159090	G	A
Apo-A1	18	47159917	C	A
Apo-A1	18	47160814	G	A
Apo-A1	18	47160953	T	G
Apo-A1	18	47161733	T	C
Apo-A1	18	47161892	T	C
Apo-A1	18	47166694	G	A
Apo-A1	18	47168648	G	A
Apo-A1	18	47169340	T	G

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
Apo-A1	18	47170139	ACCTG	A
Apo-A1	18	47175670	C	A
Apo-A1	18	47176261	C	A
Apo-A1	18	47176793	G	A
Apo-A1	18	47176911	G	A
Apo-A1	18	47176917	T	C
Apo-A1	18	47179516	G	A
Apo-A1	18	47182664	G	A
Apo-A1	18	47183012	T	C
Apo-A1	18	47196870	G	A
Apo-A1	18	47227334	G	A
Apo-A1	18	47243912	C	A
Apo-A1	18	47385799	G	A
Apo-A1	19	11190549	G	A
Apo-A1	19	11190652	G	A
Apo-A1	19	11202306	T	G
Apo-A1	19	11206729	T	C
Apo-A1	19	11206969	G	A
Apo-A1	19	11210912	T	C
Apo-A1	19	11317744	T	C
Apo-A1	19	11330942	G	A
Apo-A1	19	11331354	T	G
Apo-A1	19	11341029	T	C
Apo-A1	19	11346550	T	C
Apo-A1	19	11347493	T	C
Apo-A1	19	11348521	G	A
Apo-A1	19	45296806	T	C
Apo-A1	19	45302778	G	A
Apo-A1	19	45318351	G	A
Apo-A1	19	45369203	G	A
Apo-A1	19	45389596	G	A
Apo-A1	19	45408628	T	C
Apo-A1	19	45412079	T	C
Apo-A1	19	45415640	G	A
Apo-A1	19	45416831	T	G
Apo-A1	19	45426792	G	A
Apo-A1	1	220967683	G	A
Apo-A1	1	220970028	G	A
Apo-A1	1	220970499	G	A
Apo-A1	1	220973563	T	C
Apo-A1	1	220974545	T	C
Apo-A1	1	226064353	TTTGG	T
Apo-A1	1	62901807	C	A
Apo-A1	1	62902874	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
Apo-A1	1	62931632	C	A
Apo-A1	1	62934002	G	A
Apo-A1	1	62960250	T	C
Apo-A1	1	62960575	T	C
Apo-A1	1	63048276	C	A
Apo-A1	1	63083289	C	A
Apo-A1	1	63124542	T	C
Apo-A1	1	63171063	T	C
Apo-A1	1	63171199	T	C
Apo-A1	1	63177539	T	G
Apo-A1	20	43042364	T	C
Apo-A1	22	21916166	T	C
Apo-A1	22	21966442	G	A
Apo-A1	22	21971010	G	A
Apo-A1	22	21982892	T	C
Apo-A1	22	21984379	G	A
Apo-A1	2	136381348	G	A
Apo-A1	2	136479302	T	C
Apo-A1	2	136555659	T	C
Apo-A1	2	136583192	G	A
Apo-A1	2	136698098	T	C
Apo-A1	2	136707982	T	C
Apo-A1	2	136765951	T	C
Apo-A1	2	136783169	G	A
Apo-A1	2	136796019	G	A
Apo-A1	2	136800195	T	C
Apo-A1	2	213190035	T	C
Apo-A1	4	103146888	C	A
Apo-A1	4	103188709	T	C
Apo-A1	4	69310287	T	C
Apo-A1	4	69331331	GT	G
Apo-A1	4	69339257	G	A
Apo-A1	4	69374720	T	C
Apo-A1	4	69374819	T	C
Apo-A1	4	69375985	T	C
Apo-A1	4	69384338	AT	A
Apo-A1	4	69388595	G	A
Apo-A1	4	69393588	C	A
Apo-A1	4	69403830	G	A
Apo-A1	4	69420232	G	A
Apo-A1	4	69433714	T	C
Apo-A1	4	69457410	T	C
Apo-A1	4	69459490	T	C
Apo-A1	4	69477030	TAA	T

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
Apo-A1	4	73406173	G	A
Apo-A1	7	1067403	G	A
Apo-A1	7	1091625	G	A
Apo-A1	7	1096846	G	A
Apo-A1	7	1097183	G	A
Apo-A1	8	19734951	G	A
Apo-A1	8	19748448	T	C
Apo-A1	8	19755175	C	A
Apo-A1	8	19755626	C	A
Apo-A1	8	19755977	T	G
Apo-A1	8	19756592	T	C
Apo-A1	8	19767203	T	C
Apo-A1	8	19774890	C	A
Apo-A1	8	19776981	C	A
Apo-A1	8	19786891	T	C
Apo-A1	8	19791071	T	C
Apo-A1	8	19791346	T	C
Apo-A1	8	19793581	T	C
Apo-A1	8	19803093	T	C
Apo-A1	8	19812812	T	C
Apo-A1	8	19813180	G	A
Apo-A1	8	19813529	G	A
Apo-A1	8	19813702	G	A
Apo-A1	8	19815619	T	C
Apo-A1	8	19816934	T	C
Apo-A1	8	19818042	G	A
Apo-A1	8	19819077	T	G
Apo-A1	8	19819439	G	A
Apo-A1	8	19819536	T	G
Apo-A1	8	19820405	G	A
Apo-A1	8	19824563	T	C
Apo-A1	8	19826318	G	A
Apo-A1	8	19830170	T	G
Apo-A1	8	19830921	T	C
Apo-A1	8	19838469	T	C
Apo-A1	8	19839709	T	C
Apo-A1	8	19843861	G	A
Apo-A1	8	19843879	T	C
Apo-A1	8	19844222	G	A
Apo-A1	8	19846580	C	A
Apo-A1	8	19849757	G	A
Apo-A1	8	19849992	T	C
Apo-A1	8	19856260	T	G
Apo-A1	8	19865843	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
Apo-A1	8	19868386	C	A
Apo-A1	8	19868971	T	C
Apo-A1	8	19870271	C	A
Apo-A1	8	19870693	G	A
Apo-A1	8	19875004	G	A
Apo-A1	8	19875100	T	C
Apo-A1	8	19875408	G	A
Apo-A1	8	19889399	T	G
Apo-A1	8	19912370	G	A
Apo-A1	8	19916120	G	A
Apo-A1	8	19919655	T	C
Apo-A1	8	19931087	T	C
Apo-A1	8	19934339	T	C
Apo-A1	8	19939049	T	C
Apo-A1	8	9177732	T	G
Apo-A1	8	9179298	T	G
Apo-A1	8	9181611	G	A
Apo-A1	8	9183596	G	A
Apo-A1	8	9184691	T	C
Apo-A1	8	9185146	T	C
Apo-A1	8	9190564	T	C
Apo-A1	8	9192423	G	A
Apo-A1	8	9201787	T	C
Apo-A1	8	9206069	G	A
Apo-A1	8	9206678	G	A
Apo-A1	8	9219868	G	A
Apo-A1	8	9219869	G	A
Apo-A1	8	9231661	G	A
Apo-A1	9	107629058	T	C
Apo-A1	9	107629336	T	C
Apo-A1	9	107631134	G	A
Apo-A1	9	107632644	G	A
Apo-A1	9	107635869	T	C
Apo-A1	9	107637306	G	A
Apo-A1	9	107638969	AG	A
Apo-A1	9	107639180	G	A
Apo-A1	9	107645080	T	C
Apo-A1	9	107645922	T	C
Apo-A1	9	107649557	AAAAC	A
Apo-A1	9	107650345	T	G
Apo-A1	9	107650355	T	G
Apo-A1	9	107650820	T	C
Apo-A1	9	107651526	G	A
Apo-A1	9	107656122	C	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
Apo-A1	9	107656409	GC	G
Apo-A1	9	107657070	G	A
Apo-A1	9	107658910	C	A
Apo-A1	9	107661742	C	A
Apo-A1	9	107664301	T	C
Apo-A1	9	107665739	G	A
Apo-A1	9	107669073	T	C
Apo-A1	9	107669241	T	C
Apo-A1	9	107672526	T	G
Apo-A1	9	15285448	T	G
Apo-A1	9	15285670	G	A
Apo-A1	9	15286386	T	C
Apo-A1	9	15287389	G	A
Apo-A1	9	15289578	T	C
Apo-A1	9	15293427	G	A
Apo-A1	9	15294596	G	A
Apo-A1	9	15296034	C	A
Apo-A1	9	15297629	G	A
Apo-A1	9	15298666	T	C
Apo-A1	9	15301428	C	A
Apo-B (cis)	2	21182116	G	A
Apo-B (cis)	2	21182710	G	A
Apo-B (cis)	2	21184764	G	A
Apo-B (cis)	2	21187641	T	C
Apo-B (cis)	2	21190024	T	C
Apo-B (cis)	2	21190209	T	C
Apo-B (cis)	2	21190288	CGCCT	C
Apo-B (cis)	2	21193946	G	A
Apo-B (cis)	2	21196112	G	A
Apo-B (cis)	2	21196346	T	G
Apo-B (cis)	2	21197159	T	C
Apo-B (cis)	2	21202959	C	A
Apo-B (cis)	2	21205563	G	A
Apo-B (cis)	2	21205920	T	C
Apo-B (cis)	2	21208211	G	A
Apo-B (cis)	2	21216815	C	A
Apo-B (cis)	2	21217490	T	C
Apo-B (cis)	2	21231524	G	A
Apo-B (cis)	2	21232804	G	A
Apo-B (cis)	2	21233972	T	C
Apo-B (cis)	2	21239667	T	C
Apo-B (cis)	2	21240031	C	A
Apo-B (cis)	2	21240364	G	A
Apo-B (cis)	2	21244000	T	G

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
Apo-B (cis)	2	21245329	T	G
Apo-B (cis)	2	21245367	G	A
Apo-B (cis)	2	21250914	G	A
Apo-B (cis)	2	21251040	T	G
Apo-B (cis)	2	21259562	T	C
Apo-B (cis)	2	21259612	G	A
Apo-B (cis)	2	21260601	G	A
Apo-B (cis)	2	21262427	G	A
Apo-B (cis)	2	21263900	G	A
Apo-B (cis)	2	21266774	GGCAGCGCCG	A
Apo-B (cis)	2	21267210	G	A
Apo-B (cis)	2	21267461	G	A
Apo-B (cis)	2	21269809	G	A
Apo-B (cis)	2	21270057	G	A
Apo-B (cis)	2	21270554	C	A
Apo-B (cis)	2	21270751	G	A
Apo-B (cis)	2	21271323	G	A
Apo-B (cis)	2	21272763	AG	A
Apo-B (cis)	2	21286057	T	C
Apo-B (cis)	2	21288226	G	A
Apo-B (cis)	2	21288970	C	A
Apo-B (cis)	2	21294975	G	A
Apo-B (cis)	2	21295065	T	C
Apo-B (cis)	2	21299935	TATCCTGCA	T
Apo-B (cis)	2	21300770	C	A
Apo-B (cis)	2	21301892	T	C
Apo-B (cis)	2	21302020	T	C
Apo-B (cis)	2	21303470	T	C
Apo-B (cis)	2	21303616	T	C
Apo-B (cis)	2	21309335	T	C
Apo-B (cis)	2	21311541	T	G
Apo-B (cis)	2	21312210	T	C
Apo-B (cis)	2	21313577	G	A
Apo-B (cis)	2	21313778	TC	T
Apo-B (cis)	2	21314851	G	A
Apo-B (cis)	2	21315664	T	C
Apo-A1 (cis)	11	116686288	T	C
Apo-A1 (cis)	11	116692334	T	C
Apo-A1 (cis)	11	116700142	T	C
Apo-A1 (cis)	11	116701535	T	C
Apo-A1 (cis)	11	116703671	T	G
Apo-A1 (cis)	11	116705100	T	G
Apo-A1 (cis)	11	116705278	T	C
Apo-A1 (cis)	11	116705516	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
Apo-A1 (cis)	11	116708020	G	A
Apo-A1 (cis)	11	116710167	CAT	C
Apo-A1 (cis)	11	116710968	G	A
Apo-A1 (cis)	11	116711141	T	C
Apo-A1 (cis)	11	116711180	G	A
Apo-A1 (cis)	11	116711974	T	C
Apo-A1 (cis)	11	116720089	T	C
Apo-A1 (cis)	11	116728277	G	A
Apo-A1 (cis)	11	116733565	G	A
Apo-A1 (cis)	11	116734545	G	A
Apo-A1 (cis)	11	116741553	G	A
Apo-A1 (cis)	11	116741572	C	A
Apo-A1 (cis)	11	116744018	T	C
Apo-A1 (cis)	11	116750874	C	A
Apo-A1 (cis)	11	116752163	T	C
Apo-A1 (cis)	11	116755584	G	A
LDL-C (GLGC)	10	113902418	C	A
LDL-C (GLGC)	10	113913222	T	C
LDL-C (GLGC)	10	17260290	G	A
LDL-C (GLGC)	10	94762340	G	A
LDL-C (GLGC)	11	116519739	T	C
LDL-C (GLGC)	11	116522330	T	C
LDL-C (GLGC)	11	116525730	T	C
LDL-C (GLGC)	11	116531739	T	C
LDL-C (GLGC)	11	116574488	G	A
LDL-C (GLGC)	11	116584987	T	C
LDL-C (GLGC)	11	116586283	T	C
LDL-C (GLGC)	11	116596309	C	A
LDL-C (GLGC)	11	116603724	C	A
LDL-C (GLGC)	11	116604514	G	A
LDL-C (GLGC)	11	116607368	C	A
LDL-C (GLGC)	11	116610249	G	A
LDL-C (GLGC)	11	116612128	G	A
LDL-C (GLGC)	11	116613660	T	C
LDL-C (GLGC)	11	116617240	C	A
LDL-C (GLGC)	11	116623659	T	C
LDL-C (GLGC)	11	116624703	T	G
LDL-C (GLGC)	11	116645275	T	C
LDL-C (GLGC)	11	116646858	T	C
LDL-C (GLGC)	11	116649135	G	A
LDL-C (GLGC)	11	116652301	T	C
LDL-C (GLGC)	11	116652351	G	A
LDL-C (GLGC)	11	116652423	G	A
LDL-C (GLGC)	11	116655600	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
LDL-C (GLGC)	11	116657561	T	C
LDL-C (GLGC)	11	116660686	G	A
LDL-C (GLGC)	11	116661826	T	C
LDL-C (GLGC)	11	116662579	T	C
LDL-C (GLGC)	11	116663707	G	A
LDL-C (GLGC)	11	116665079	T	C
LDL-C (GLGC)	11	116670182	T	C
LDL-C (GLGC)	11	116670676	C	A
LDL-C (GLGC)	11	116722041	T	G
LDL-C (GLGC)	11	116730638	G	A
LDL-C (GLGC)	11	116732512	T	G
LDL-C (GLGC)	11	116916529	T	C
LDL-C (GLGC)	11	116943354	C	A
LDL-C (GLGC)	11	117075566	T	C
LDL-C (GLGC)	11	122534504	T	C
LDL-C (GLGC)	11	126060666	G	A
LDL-C (GLGC)	11	126084834	G	A
LDL-C (GLGC)	11	126110978	C	A
LDL-C (GLGC)	11	126152647	G	A
LDL-C (GLGC)	11	126180370	T	G
LDL-C (GLGC)	11	126183756	T	C
LDL-C (GLGC)	11	126217870	T	C
LDL-C (GLGC)	11	126218541	G	A
LDL-C (GLGC)	11	126227723	T	G
LDL-C (GLGC)	11	126229617	T	C
LDL-C (GLGC)	11	126232385	T	C
LDL-C (GLGC)	11	126241696	G	A
LDL-C (GLGC)	11	126242912	G	A
LDL-C (GLGC)	11	126243952	G	A
LDL-C (GLGC)	11	126244955	G	A
LDL-C (GLGC)	11	126250680	G	A
LDL-C (GLGC)	11	126257779	G	A
LDL-C (GLGC)	11	126258062	G	A
LDL-C (GLGC)	11	126260580	G	A
LDL-C (GLGC)	11	126270374	G	A
LDL-C (GLGC)	11	18626834	C	A
LDL-C (GLGC)	11	18632984	T	C
LDL-C (GLGC)	11	18656271	T	C
LDL-C (GLGC)	11	61537529	T	G
LDL-C (GLGC)	11	61543499	T	C
LDL-C (GLGC)	11	61548874	G	A
LDL-C (GLGC)	11	61549458	G	A
LDL-C (GLGC)	11	61551927	C	A
LDL-C (GLGC)	11	61564299	T	G

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
LDL-C (GLGC)	11	61565908	T	C
LDL-C (GLGC)	11	61570783	T	C
LDL-C (GLGC)	11	61580635	T	C
LDL-C (GLGC)	11	61582708	T	C
LDL-C (GLGC)	11	61593816	T	C
LDL-C (GLGC)	11	61595564	T	C
LDL-C (GLGC)	11	61597212	T	C
LDL-C (GLGC)	11	61597972	G	A
LDL-C (GLGC)	11	61600327	G	A
LDL-C (GLGC)	11	61601378	T	C
LDL-C (GLGC)	11	61601908	G	A
LDL-C (GLGC)	11	61603237	T	C
LDL-C (GLGC)	11	61605215	G	A
LDL-C (GLGC)	11	61605613	T	C
LDL-C (GLGC)	11	61611694	G	A
LDL-C (GLGC)	11	61616012	G	A
LDL-C (GLGC)	11	61618608	G	A
LDL-C (GLGC)	11	61618831	T	C
LDL-C (GLGC)	11	61621194	G	A
LDL-C (GLGC)	11	61623793	G	A
LDL-C (GLGC)	11	61624181	T	C
LDL-C (GLGC)	11	61624414	T	C
LDL-C (GLGC)	11	61627484	G	A
LDL-C (GLGC)	11	61627881	T	C
LDL-C (GLGC)	11	61629122	G	A
LDL-C (GLGC)	11	61635294	G	A
LDL-C (GLGC)	11	61637057	G	A
LDL-C (GLGC)	11	61638044	G	A
LDL-C (GLGC)	11	61639488	T	C
LDL-C (GLGC)	11	61639573	G	A
LDL-C (GLGC)	11	61650747	G	A
LDL-C (GLGC)	11	61656117	G	A
LDL-C (GLGC)	11	61657110	T	C
LDL-C (GLGC)	11	61657401	C	A
LDL-C (GLGC)	11	61657593	T	C
LDL-C (GLGC)	11	61663691	G	A
LDL-C (GLGC)	11	61677479	G	A
LDL-C (GLGC)	11	61678576	T	G
LDL-C (GLGC)	11	61713590	G	A
LDL-C (GLGC)	12	109095137	G	A
LDL-C (GLGC)	12	111818701	G	A
LDL-C (GLGC)	12	111849271	G	A
LDL-C (GLGC)	12	111893537	G	A
LDL-C (GLGC)	12	111910219	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
LDL-C (GLGC)	12	111941120	T	C
LDL-C (GLGC)	12	111976776	T	C
LDL-C (GLGC)	12	111993886	G	A
LDL-C (GLGC)	12	112007756	T	C
LDL-C (GLGC)	12	112113658	T	C
LDL-C (GLGC)	12	112123284	G	A
LDL-C (GLGC)	12	112206895	G	A
LDL-C (GLGC)	12	112211833	T	C
LDL-C (GLGC)	12	112338539	T	C
LDL-C (GLGC)	12	112375990	C	A
LDL-C (GLGC)	12	112463296	G	A
LDL-C (GLGC)	12	112521448	G	A
LDL-C (GLGC)	12	112871372	G	A
LDL-C (GLGC)	12	112922529	G	A
LDL-C (GLGC)	12	113024793	G	A
LDL-C (GLGC)	12	121359586	G	A
LDL-C (GLGC)	12	121376416	T	C
LDL-C (GLGC)	12	121380544	T	C
LDL-C (GLGC)	12	121388962	C	A
LDL-C (GLGC)	12	121400205	T	C
LDL-C (GLGC)	12	121403724	G	A
LDL-C (GLGC)	12	121405210	T	C
LDL-C (GLGC)	12	121419056	T	C
LDL-C (GLGC)	12	121420260	G	A
LDL-C (GLGC)	12	121420807	G	A
LDL-C (GLGC)	12	121423386	G	A
LDL-C (GLGC)	12	121432302	T	G
LDL-C (GLGC)	12	121435427	G	A
LDL-C (GLGC)	12	121435475	G	A
LDL-C (GLGC)	12	121436376	C	A
LDL-C (GLGC)	12	121438844	T	C
LDL-C (GLGC)	12	121439192	T	G
LDL-C (GLGC)	12	121439433	G	A
LDL-C (GLGC)	12	121443116	G	A
LDL-C (GLGC)	12	121450165	T	C
LDL-C (GLGC)	12	121454622	T	C
LDL-C (GLGC)	12	121457995	G	A
LDL-C (GLGC)	12	121470256	G	A
LDL-C (GLGC)	12	121471337	G	A
LDL-C (GLGC)	12	121487632	T	C
LDL-C (GLGC)	13	32896846	G	A
LDL-C (GLGC)	13	32936646	T	C
LDL-C (GLGC)	13	32940345	C	A
LDL-C (GLGC)	13	32953388	T	C

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
LDL-C (GLGC)	14	24872209	T	C
LDL-C (GLGC)	14	24883058	T	C
LDL-C (GLGC)	14	24883630	G	A
LDL-C (GLGC)	14	24883887	G	A
LDL-C (GLGC)	14	71096344	T	G
LDL-C (GLGC)	14	94795492	G	A
LDL-C (GLGC)	16	56985139	G	A
LDL-C (GLGC)	16	56985156	G	A
LDL-C (GLGC)	16	56985514	G	A
LDL-C (GLGC)	16	56985555	G	A
LDL-C (GLGC)	16	56987369	T	C
LDL-C (GLGC)	16	56988044	T	C
LDL-C (GLGC)	16	56990716	C	A
LDL-C (GLGC)	16	56993025	T	G
LDL-C (GLGC)	16	56993161	G	A
LDL-C (GLGC)	16	56993211	T	C
LDL-C (GLGC)	16	56993324	C	A
LDL-C (GLGC)	16	56994894	G	A
LDL-C (GLGC)	16	56995236	C	A
LDL-C (GLGC)	16	56996158	T	C
LDL-C (GLGC)	16	56997233	G	A
LDL-C (GLGC)	16	56999258	C	A
LDL-C (GLGC)	16	56999328	T	C
LDL-C (GLGC)	16	57000938	G	A
LDL-C (GLGC)	16	57002732	T	G
LDL-C (GLGC)	16	57004889	G	A
LDL-C (GLGC)	16	57005479	C	A
LDL-C (GLGC)	16	57006590	T	C
LDL-C (GLGC)	16	57007451	G	A
LDL-C (GLGC)	16	57009941	T	C
LDL-C (GLGC)	16	71906597	T	C
LDL-C (GLGC)	16	71951845	C	A
LDL-C (GLGC)	16	71983664	T	G
LDL-C (GLGC)	16	72001110	G	A
LDL-C (GLGC)	16	72007232	G	A
LDL-C (GLGC)	16	72008225	G	A
LDL-C (GLGC)	16	72009676	T	G
LDL-C (GLGC)	16	72011181	T	G
LDL-C (GLGC)	16	72018417	T	C
LDL-C (GLGC)	16	72018771	C	A
LDL-C (GLGC)	16	72022065	G	A
LDL-C (GLGC)	16	72022821	G	A
LDL-C (GLGC)	16	72028930	T	G
LDL-C (GLGC)	16	72031860	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
LDL-C (GLGC)	16	72035359	T	C
LDL-C (GLGC)	16	72036577	G	A
LDL-C (GLGC)	16	72037206	C	A
LDL-C (GLGC)	16	72042682	C	A
LDL-C (GLGC)	16	72043039	T	C
LDL-C (GLGC)	16	72048080	T	G
LDL-C (GLGC)	16	72048332	T	C
LDL-C (GLGC)	16	72052348	G	A
LDL-C (GLGC)	16	72059269	T	C
LDL-C (GLGC)	16	72067263	G	A
LDL-C (GLGC)	16	72073122	G	A
LDL-C (GLGC)	16	72078485	T	C
LDL-C (GLGC)	16	72108093	G	A
LDL-C (GLGC)	16	72114002	T	C
LDL-C (GLGC)	16	72116467	G	A
LDL-C (GLGC)	16	72137561	G	A
LDL-C (GLGC)	16	72144174	T	C
LDL-C (GLGC)	16	72183959	G	A
LDL-C (GLGC)	16	72193036	G	A
LDL-C (GLGC)	16	72248088	T	C
LDL-C (GLGC)	16	72252752	G	A
LDL-C (GLGC)	16	72256903	T	C
LDL-C (GLGC)	16	72312727	G	A
LDL-C (GLGC)	16	72409698	T	C
LDL-C (GLGC)	16	72469463	T	C
LDL-C (GLGC)	16	72653326	G	A
LDL-C (GLGC)	16	72800567	G	A
LDL-C (GLGC)	17	45312813	T	C
LDL-C (GLGC)	17	45313178	G	A
LDL-C (GLGC)	17	45393665	T	C
LDL-C (GLGC)	17	45393739	C	A
LDL-C (GLGC)	17	45422628	G	A
LDL-C (GLGC)	17	45425115	G	A
LDL-C (GLGC)	17	45498937	T	G
LDL-C (GLGC)	17	45750596	G	A
LDL-C (GLGC)	17	45768836	T	C
LDL-C (GLGC)	17	64210580	C	A
LDL-C (GLGC)	17	67150176	T	C
LDL-C (GLGC)	17	67345501	T	C
LDL-C (GLGC)	17	7088923	G	A
LDL-C (GLGC)	17	7091650	T	C
LDL-C (GLGC)	17	73782191	T	C
LDL-C (GLGC)	17	8129160	G	A
LDL-C (GLGC)	18	47157004	T	C

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
LDL-C (GLGC)	19	10680241	G	A
LDL-C (GLGC)	19	10686123	G	A
LDL-C (GLGC)	19	10728320	G	A
LDL-C (GLGC)	19	10742170	G	A
LDL-C (GLGC)	19	10742287	T	C
LDL-C (GLGC)	19	10793749	G	A
LDL-C (GLGC)	19	10801185	G	A
LDL-C (GLGC)	19	10802792	G	A
LDL-C (GLGC)	19	10813364	T	C
LDL-C (GLGC)	19	10824915	G	A
LDL-C (GLGC)	19	10830281	T	G
LDL-C (GLGC)	19	10894728	G	A
LDL-C (GLGC)	19	10903972	G	A
LDL-C (GLGC)	19	10904700	T	C
LDL-C (GLGC)	19	10909953	T	C
LDL-C (GLGC)	19	10916684	T	C
LDL-C (GLGC)	19	10927540	T	C
LDL-C (GLGC)	19	10947522	T	C
LDL-C (GLGC)	19	10950125	T	C
LDL-C (GLGC)	19	10961273	G	A
LDL-C (GLGC)	19	10981352	G	A
LDL-C (GLGC)	19	10987013	G	A
LDL-C (GLGC)	19	11014937	T	C
LDL-C (GLGC)	19	11019994	T	C
LDL-C (GLGC)	19	11022159	T	C
LDL-C (GLGC)	19	11023434	T	C
LDL-C (GLGC)	19	11042743	G	A
LDL-C (GLGC)	19	11052985	G	A
LDL-C (GLGC)	19	11065021	G	A
LDL-C (GLGC)	19	11065409	C	A
LDL-C (GLGC)	19	11083210	T	G
LDL-C (GLGC)	19	11086746	T	C
LDL-C (GLGC)	19	11092139	G	A
LDL-C (GLGC)	19	11105608	T	C
LDL-C (GLGC)	19	11114352	G	A
LDL-C (GLGC)	19	11128596	G	A
LDL-C (GLGC)	19	11132080	G	A
LDL-C (GLGC)	19	11136315	T	C
LDL-C (GLGC)	19	11139636	T	G
LDL-C (GLGC)	19	11146499	T	C
LDL-C (GLGC)	19	11159525	T	G
LDL-C (GLGC)	19	11163562	T	C
LDL-C (GLGC)	19	11163601	T	G
LDL-C (GLGC)	19	11164781	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
LDL-C (GLGC)	19	11166827	G	A
LDL-C (GLGC)	19	11169947	T	C
LDL-C (GLGC)	19	11171281	C	A
LDL-C (GLGC)	19	11174625	G	A
LDL-C (GLGC)	19	11180047	T	C
LDL-C (GLGC)	19	11183837	G	A
LDL-C (GLGC)	19	11186711	T	C
LDL-C (GLGC)	19	11188899	T	C
LDL-C (GLGC)	19	11190764	G	A
LDL-C (GLGC)	19	11192226	T	C
LDL-C (GLGC)	19	11195030	G	A
LDL-C (GLGC)	19	11202306	T	G
LDL-C (GLGC)	19	11205975	G	A
LDL-C (GLGC)	19	11206575	G	A
LDL-C (GLGC)	19	11207516	G	A
LDL-C (GLGC)	19	11210912	T	C
LDL-C (GLGC)	19	11224265	G	A
LDL-C (GLGC)	19	11227480	C	A
LDL-C (GLGC)	19	11227554	T	C
LDL-C (GLGC)	19	11230881	T	C
LDL-C (GLGC)	19	11233941	G	A
LDL-C (GLGC)	19	11236804	T	C
LDL-C (GLGC)	19	11238473	C	A
LDL-C (GLGC)	19	11238492	G	A
LDL-C (GLGC)	19	11240053	G	A
LDL-C (GLGC)	19	11241780	G	A
LDL-C (GLGC)	19	11241915	G	A
LDL-C (GLGC)	19	11242658	T	C
LDL-C (GLGC)	19	11243445	G	A
LDL-C (GLGC)	19	11243735	T	C
LDL-C (GLGC)	19	11256285	G	A
LDL-C (GLGC)	19	11257018	T	C
LDL-C (GLGC)	19	11263650	T	G
LDL-C (GLGC)	19	11264514	T	C
LDL-C (GLGC)	19	11266584	G	A
LDL-C (GLGC)	19	11266693	T	G
LDL-C (GLGC)	19	11275139	C	A
LDL-C (GLGC)	19	11284302	T	C
LDL-C (GLGC)	19	11315817	T	G
LDL-C (GLGC)	19	11327608	T	C
LDL-C (GLGC)	19	11380212	T	C
LDL-C (GLGC)	19	11425200	T	G
LDL-C (GLGC)	19	19275735	T	C
LDL-C (GLGC)	19	19295875	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
LDL-C (GLGC)	19	19325963	T	G
LDL-C (GLGC)	19	19329924	T	C
LDL-C (GLGC)	19	19336608	T	C
LDL-C (GLGC)	19	19374068	T	C
LDL-C (GLGC)	19	19379549	T	C
LDL-C (GLGC)	19	19381715	G	A
LDL-C (GLGC)	19	19392401	T	C
LDL-C (GLGC)	19	19406869	T	C
LDL-C (GLGC)	19	19407718	T	C
LDL-C (GLGC)	19	19453521	T	G
LDL-C (GLGC)	19	19456917	T	C
LDL-C (GLGC)	19	19467545	T	C
LDL-C (GLGC)	19	19478022	T	G
LDL-C (GLGC)	19	19488718	T	C
LDL-C (GLGC)	19	19508013	G	A
LDL-C (GLGC)	19	19525792	T	C
LDL-C (GLGC)	19	19531910	G	A
LDL-C (GLGC)	19	19539891	T	C
LDL-C (GLGC)	19	19588546	C	A
LDL-C (GLGC)	19	19646272	T	C
LDL-C (GLGC)	19	19650096	G	A
LDL-C (GLGC)	19	19657500	G	A
LDL-C (GLGC)	19	19662220	T	C
LDL-C (GLGC)	19	19664077	T	C
LDL-C (GLGC)	19	19665581	G	A
LDL-C (GLGC)	19	19666574	T	C
LDL-C (GLGC)	19	19668916	G	A
LDL-C (GLGC)	19	19692579	T	C
LDL-C (GLGC)	19	19717056	G	A
LDL-C (GLGC)	19	19746151	T	G
LDL-C (GLGC)	19	19789528	G	A
LDL-C (GLGC)	19	19819843	G	A
LDL-C (GLGC)	19	44675801	T	C
LDL-C (GLGC)	19	44830892	C	A
LDL-C (GLGC)	19	44855757	G	A
LDL-C (GLGC)	19	44880214	T	C
LDL-C (GLGC)	19	44880360	T	C
LDL-C (GLGC)	19	44952066	T	G
LDL-C (GLGC)	19	44957508	G	A
LDL-C (GLGC)	19	44988716	G	A
LDL-C (GLGC)	19	45008634	C	A
LDL-C (GLGC)	19	45015020	T	C
LDL-C (GLGC)	19	45017064	T	C
LDL-C (GLGC)	19	45130550	T	C

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
LDL-C (GLGC)	19	45133475	G	A
LDL-C (GLGC)	19	45138246	T	C
LDL-C (GLGC)	19	45146103	T	C
LDL-C (GLGC)	19	45150433	G	A
LDL-C (GLGC)	19	45150614	G	A
LDL-C (GLGC)	19	45163671	T	C
LDL-C (GLGC)	19	45165912	C	A
LDL-C (GLGC)	19	45176340	T	C
LDL-C (GLGC)	19	45189332	T	C
LDL-C (GLGC)	19	45195313	T	G
LDL-C (GLGC)	19	45202027	G	A
LDL-C (GLGC)	19	45215884	T	C
LDL-C (GLGC)	19	45227742	T	C
LDL-C (GLGC)	19	45232205	G	A
LDL-C (GLGC)	19	45232374	G	A
LDL-C (GLGC)	19	45237812	T	C
LDL-C (GLGC)	19	45242107	G	A
LDL-C (GLGC)	19	45242173	G	A
LDL-C (GLGC)	19	45245015	G	A
LDL-C (GLGC)	19	45247627	G	A
LDL-C (GLGC)	19	45254168	C	A
LDL-C (GLGC)	19	45296806	T	C
LDL-C (GLGC)	19	45298069	G	A
LDL-C (GLGC)	19	45313715	T	C
LDL-C (GLGC)	19	45326768	T	C
LDL-C (GLGC)	19	45327459	T	C
LDL-C (GLGC)	19	45328476	T	C
LDL-C (GLGC)	19	45329214	T	G
LDL-C (GLGC)	19	45333834	T	C
LDL-C (GLGC)	19	45336035	T	C
LDL-C (GLGC)	19	45344458	G	A
LDL-C (GLGC)	19	45351746	G	A
LDL-C (GLGC)	19	45351937	T	C
LDL-C (GLGC)	19	45361574	G	A
LDL-C (GLGC)	19	45368320	T	C
LDL-C (GLGC)	19	45371168	G	A
LDL-C (GLGC)	19	45372354	T	G
LDL-C (GLGC)	19	45372959	T	C
LDL-C (GLGC)	19	45373276	G	A
LDL-C (GLGC)	19	45373565	G	A
LDL-C (GLGC)	19	45377467	G	A
LDL-C (GLGC)	19	45379060	C	A
LDL-C (GLGC)	19	45382034	G	A
LDL-C (GLGC)	19	45383061	T	G

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
LDL-C (GLGC)	19	45389596	G	A
LDL-C (GLGC)	19	45392254	T	C
LDL-C (GLGC)	19	45395266	G	A
LDL-C (GLGC)	19	45395619	G	A
LDL-C (GLGC)	19	45399896	G	A
LDL-C (GLGC)	19	45401666	G	A
LDL-C (GLGC)	19	45408836	T	G
LDL-C (GLGC)	19	45410002	G	A
LDL-C (GLGC)	19	45410444	G	A
LDL-C (GLGC)	19	45412079	T	C
LDL-C (GLGC)	19	45413576	T	C
LDL-C (GLGC)	19	45414451	T	C
LDL-C (GLGC)	19	45415640	G	A
LDL-C (GLGC)	19	45416291	T	C
LDL-C (GLGC)	19	45422846	G	A
LDL-C (GLGC)	19	45422946	G	A
LDL-C (GLGC)	19	45423636	G	A
LDL-C (GLGC)	19	45429543	T	C
LDL-C (GLGC)	19	45447221	G	A
LDL-C (GLGC)	19	45449284	T	G
LDL-C (GLGC)	19	45455588	T	C
LDL-C (GLGC)	19	45493133	T	G
LDL-C (GLGC)	19	45496303	T	C
LDL-C (GLGC)	19	45523369	T	G
LDL-C (GLGC)	19	45618902	T	C
LDL-C (GLGC)	19	45619946	G	A
LDL-C (GLGC)	19	45636319	C	A
LDL-C (GLGC)	19	46018119	G	A
LDL-C (GLGC)	19	46180184	T	C
LDL-C (GLGC)	19	46202172	T	C
LDL-C (GLGC)	19	46207810	C	A
LDL-C (GLGC)	19	46295223	G	A
LDL-C (GLGC)	19	49208543	T	C
LDL-C (GLGC)	19	49208978	G	A
LDL-C (GLGC)	19	49214274	G	A
LDL-C (GLGC)	19	49228272	T	C
LDL-C (GLGC)	19	49246866	G	A
LDL-C (GLGC)	1	109703023	C	A
LDL-C (GLGC)	1	109703430	T	C
LDL-C (GLGC)	1	109705022	G	A
LDL-C (GLGC)	1	109709796	C	A
LDL-C (GLGC)	1	109713271	G	A
LDL-C (GLGC)	1	109715950	G	A
LDL-C (GLGC)	1	109723090	T	C

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
LDL-C (GLGC)	1	109723188	T	C
LDL-C (GLGC)	1	109727832	G	A
LDL-C (GLGC)	1	109740364	T	G
LDL-C (GLGC)	1	109747635	T	C
LDL-C (GLGC)	1	109750671	T	C
LDL-C (GLGC)	1	109760555	T	C
LDL-C (GLGC)	1	109768161	T	C
LDL-C (GLGC)	1	109772918	C	A
LDL-C (GLGC)	1	109776285	T	C
LDL-C (GLGC)	1	109778237	T	C
LDL-C (GLGC)	1	109782037	G	A
LDL-C (GLGC)	1	109782190	T	C
LDL-C (GLGC)	1	109783205	T	G
LDL-C (GLGC)	1	109783261	T	C
LDL-C (GLGC)	1	109783648	T	C
LDL-C (GLGC)	1	109784781	G	A
LDL-C (GLGC)	1	109787493	C	A
LDL-C (GLGC)	1	109789795	T	C
LDL-C (GLGC)	1	109795608	T	C
LDL-C (GLGC)	1	109797763	T	C
LDL-C (GLGC)	1	109798721	G	A
LDL-C (GLGC)	1	109800321	T	C
LDL-C (GLGC)	1	109801121	T	C
LDL-C (GLGC)	1	109806442	C	A
LDL-C (GLGC)	1	109806834	T	C
LDL-C (GLGC)	1	109808117	T	C
LDL-C (GLGC)	1	109810200	G	A
LDL-C (GLGC)	1	109810544	C	A
LDL-C (GLGC)	1	109810981	G	A
LDL-C (GLGC)	1	109813020	G	A
LDL-C (GLGC)	1	109813485	T	C
LDL-C (GLGC)	1	109813719	T	C
LDL-C (GLGC)	1	109814880	T	C
LDL-C (GLGC)	1	109815074	G	A
LDL-C (GLGC)	1	109815252	G	A
LDL-C (GLGC)	1	109817192	G	A
LDL-C (GLGC)	1	109817245	T	C
LDL-C (GLGC)	1	109818306	T	G
LDL-C (GLGC)	1	109820110	T	C
LDL-C (GLGC)	1	109820884	G	A
LDL-C (GLGC)	1	109820919	T	G
LDL-C (GLGC)	1	109821307	T	G
LDL-C (GLGC)	1	109822166	G	A
LDL-C (GLGC)	1	109822509	T	C

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
LDL-C (GLGC)	1	109823962	T	C
LDL-C (GLGC)	1	109824250	G	A
LDL-C (GLGC)	1	109826136	T	C
LDL-C (GLGC)	1	109827253	G	A
LDL-C (GLGC)	1	109832283	G	A
LDL-C (GLGC)	1	109834938	T	C
LDL-C (GLGC)	1	109835163	T	C
LDL-C (GLGC)	1	109835387	T	G
LDL-C (GLGC)	1	109837423	C	A
LDL-C (GLGC)	1	109838215	G	A
LDL-C (GLGC)	1	109838918	T	C
LDL-C (GLGC)	1	109839896	T	C
LDL-C (GLGC)	1	109840169	T	C
LDL-C (GLGC)	1	109840629	G	A
LDL-C (GLGC)	1	109845100	T	G
LDL-C (GLGC)	1	109887191	T	C
LDL-C (GLGC)	1	109891133	T	C
LDL-C (GLGC)	1	109909149	T	C
LDL-C (GLGC)	1	109912051	G	A
LDL-C (GLGC)	1	109919525	G	A
LDL-C (GLGC)	1	109922377	G	A
LDL-C (GLGC)	1	109950607	G	A
LDL-C (GLGC)	1	109955569	T	C
LDL-C (GLGC)	1	109967104	C	A
LDL-C (GLGC)	1	109968410	C	A
LDL-C (GLGC)	1	109999838	C	A
LDL-C (GLGC)	1	110009802	G	A
LDL-C (GLGC)	1	110019439	G	A
LDL-C (GLGC)	1	110023610	G	A
LDL-C (GLGC)	1	110040680	T	C
LDL-C (GLGC)	1	110065906	G	A
LDL-C (GLGC)	1	110082473	T	G
LDL-C (GLGC)	1	110109039	G	A
LDL-C (GLGC)	1	110173775	T	G
LDL-C (GLGC)	1	110186563	T	C
LDL-C (GLGC)	1	110201580	T	C
LDL-C (GLGC)	1	110296289	T	C
LDL-C (GLGC)	1	110366083	T	C
LDL-C (GLGC)	1	150958836	G	A
LDL-C (GLGC)	1	220970028	G	A
LDL-C (GLGC)	1	220972343	G	A
LDL-C (GLGC)	1	220973563	T	C
LDL-C (GLGC)	1	220974545	T	C
LDL-C (GLGC)	1	220977650	C	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
LDL-C (GLGC)	1	220983402	T	C
LDL-C (GLGC)	1	220988260	T	C
LDL-C (GLGC)	1	221004168	T	C
LDL-C (GLGC)	1	221010205	T	C
LDL-C (GLGC)	1	221010513	T	G
LDL-C (GLGC)	1	221040401	T	C
LDL-C (GLGC)	1	221055463	G	A
LDL-C (GLGC)	1	221057662	G	A
LDL-C (GLGC)	1	221106024	T	C
LDL-C (GLGC)	1	221107232	G	A
LDL-C (GLGC)	1	234840803	G	A
LDL-C (GLGC)	1	234845257	T	C
LDL-C (GLGC)	1	234850374	T	C
LDL-C (GLGC)	1	234854779	T	C
LDL-C (GLGC)	1	234872431	G	A
LDL-C (GLGC)	1	25674785	T	C
LDL-C (GLGC)	1	25684012	T	C
LDL-C (GLGC)	1	25687901	T	C
LDL-C (GLGC)	1	25688276	G	A
LDL-C (GLGC)	1	25758419	T	C
LDL-C (GLGC)	1	25768937	G	A
LDL-C (GLGC)	1	25780893	G	A
LDL-C (GLGC)	1	25802056	G	A
LDL-C (GLGC)	1	25816847	T	C
LDL-C (GLGC)	1	25844714	G	A
LDL-C (GLGC)	1	25851977	G	A
LDL-C (GLGC)	1	25863179	G	A
LDL-C (GLGC)	1	27001893	G	A
LDL-C (GLGC)	1	27138393	T	C
LDL-C (GLGC)	1	27285195	T	C
LDL-C (GLGC)	1	27397604	T	C
LDL-C (GLGC)	1	55485796	T	C
LDL-C (GLGC)	1	55486064	G	A
LDL-C (GLGC)	1	55486117	G	A
LDL-C (GLGC)	1	55487648	G	A
LDL-C (GLGC)	1	55488369	G	A
LDL-C (GLGC)	1	55488989	G	A
LDL-C (GLGC)	1	55496039	T	C
LDL-C (GLGC)	1	55496556	T	C
LDL-C (GLGC)	1	55498745	T	C
LDL-C (GLGC)	1	55499156	T	C
LDL-C (GLGC)	1	55500206	T	C
LDL-C (GLGC)	1	55500429	G	A
LDL-C (GLGC)	1	55502672	C	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
LDL-C (GLGC)	1	55503448	G	A
LDL-C (GLGC)	1	55504650	G	A
LDL-C (GLGC)	1	55505647	T	G
LDL-C (GLGC)	1	55505668	T	C
LDL-C (GLGC)	1	55505861	G	A
LDL-C (GLGC)	1	55509872	T	C
LDL-C (GLGC)	1	55513061	T	C
LDL-C (GLGC)	1	55516004	C	A
LDL-C (GLGC)	1	55517344	T	C
LDL-C (GLGC)	1	55518166	G	A
LDL-C (GLGC)	1	55518316	T	C
LDL-C (GLGC)	1	55518752	T	C
LDL-C (GLGC)	1	55520864	G	A
LDL-C (GLGC)	1	55524237	G	A
LDL-C (GLGC)	1	55524842	G	A
LDL-C (GLGC)	1	55525726	T	G
LDL-C (GLGC)	1	55526296	G	A
LDL-C (GLGC)	1	55527323	G	A
LDL-C (GLGC)	1	55528629	G	A
LDL-C (GLGC)	1	55529187	G	A
LDL-C (GLGC)	1	55538552	T	G
LDL-C (GLGC)	1	55551718	G	A
LDL-C (GLGC)	1	55590465	T	C
LDL-C (GLGC)	1	55602644	C	A
LDL-C (GLGC)	1	55652983	T	G
LDL-C (GLGC)	1	55656075	T	G
LDL-C (GLGC)	1	55695535	T	C
LDL-C (GLGC)	1	55711465	G	A
LDL-C (GLGC)	1	55713094	G	A
LDL-C (GLGC)	1	55713628	G	A
LDL-C (GLGC)	1	55713961	T	C
LDL-C (GLGC)	1	55715412	T	C
LDL-C (GLGC)	1	55716497	G	A
LDL-C (GLGC)	1	55719166	T	G
LDL-C (GLGC)	1	55724704	G	A
LDL-C (GLGC)	1	55730327	T	C
LDL-C (GLGC)	1	55738663	T	C
LDL-C (GLGC)	1	55739925	T	C
LDL-C (GLGC)	1	55741377	G	A
LDL-C (GLGC)	1	55742322	T	C
LDL-C (GLGC)	1	55767547	T	C
LDL-C (GLGC)	1	55770565	T	C
LDL-C (GLGC)	1	55785672	T	C
LDL-C (GLGC)	1	55806465	T	C

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
LDL-C (GLGC)	1	55808143	T	C
LDL-C (GLGC)	1	55814164	T	C
LDL-C (GLGC)	1	55815584	G	A
LDL-C (GLGC)	1	55820713	C	A
LDL-C (GLGC)	1	56240278	T	C
LDL-C (GLGC)	1	62902874	G	A
LDL-C (GLGC)	1	62917913	G	A
LDL-C (GLGC)	1	62931632	C	A
LDL-C (GLGC)	1	62960250	T	C
LDL-C (GLGC)	1	62991905	T	C
LDL-C (GLGC)	1	62995263	T	C
LDL-C (GLGC)	1	62996373	T	C
LDL-C (GLGC)	1	63049551	C	A
LDL-C (GLGC)	1	63083289	C	A
LDL-C (GLGC)	1	63135127	G	A
LDL-C (GLGC)	1	63171063	T	C
LDL-C (GLGC)	1	63191777	T	C
LDL-C (GLGC)	1	63193972	G	A
LDL-C (GLGC)	1	63194009	T	C
LDL-C (GLGC)	1	63195692	T	C
LDL-C (GLGC)	1	63199348	T	G
LDL-C (GLGC)	1	63199936	T	G
LDL-C (GLGC)	1	63203221	T	C
LDL-C (GLGC)	1	63211706	T	C
LDL-C (GLGC)	1	63252766	T	C
LDL-C (GLGC)	1	63310444	G	A
LDL-C (GLGC)	1	63358816	T	C
LDL-C (GLGC)	1	92680371	G	A
LDL-C (GLGC)	1	92761654	T	C
LDL-C (GLGC)	1	92846681	G	A
LDL-C (GLGC)	1	92904381	T	C
LDL-C (GLGC)	1	92979354	G	A
LDL-C (GLGC)	1	92987575	G	A
LDL-C (GLGC)	1	93009438	C	A
LDL-C (GLGC)	1	93108402	G	A
LDL-C (GLGC)	1	93160902	T	C
LDL-C (GLGC)	1	93167854	G	A
LDL-C (GLGC)	1	93269824	T	C
LDL-C (GLGC)	1	93348423	T	C
LDL-C (GLGC)	20	12969400	G	A
LDL-C (GLGC)	20	17845921	C	A
LDL-C (GLGC)	20	17847735	T	C
LDL-C (GLGC)	20	17850340	G	A
LDL-C (GLGC)	20	34046501	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
LDL-C (GLGC)	20	34154371	C	A
LDL-C (GLGC)	20	39086995	T	G
LDL-C (GLGC)	20	39091514	G	A
LDL-C (GLGC)	20	39091892	G	A
LDL-C (GLGC)	20	39092895	G	A
LDL-C (GLGC)	20	39147287	G	A
LDL-C (GLGC)	20	39154095	G	A
LDL-C (GLGC)	20	39159119	T	C
LDL-C (GLGC)	20	39163431	T	C
LDL-C (GLGC)	20	39167592	G	A
LDL-C (GLGC)	20	39193406	T	C
LDL-C (GLGC)	20	39200914	G	A
LDL-C (GLGC)	20	39216286	T	G
LDL-C (GLGC)	20	39228784	T	C
LDL-C (GLGC)	20	39234223	G	A
LDL-C (GLGC)	20	39237558	G	A
LDL-C (GLGC)	20	39275470	G	A
LDL-C (GLGC)	20	39282720	C	A
LDL-C (GLGC)	20	39291784	G	A
LDL-C (GLGC)	20	39293397	T	C
LDL-C (GLGC)	20	39308345	T	C
LDL-C (GLGC)	20	39617398	G	A
LDL-C (GLGC)	20	39636663	T	C
LDL-C (GLGC)	20	39662842	G	A
LDL-C (GLGC)	20	39678289	T	C
LDL-C (GLGC)	20	39690342	T	C
LDL-C (GLGC)	20	39709255	T	C
LDL-C (GLGC)	20	39710496	G	A
LDL-C (GLGC)	20	39720830	G	A
LDL-C (GLGC)	20	39721373	G	A
LDL-C (GLGC)	20	39769975	T	C
LDL-C (GLGC)	20	39780932	G	A
LDL-C (GLGC)	20	39794489	G	A
LDL-C (GLGC)	20	39797465	T	C
LDL-C (GLGC)	20	39821898	T	C
LDL-C (GLGC)	20	39870578	C	A
LDL-C (GLGC)	20	39882406	T	G
LDL-C (GLGC)	20	39897007	T	C
LDL-C (GLGC)	20	39907749	C	A
LDL-C (GLGC)	20	39915515	G	A
LDL-C (GLGC)	20	39916437	T	C
LDL-C (GLGC)	20	39938122	T	C
LDL-C (GLGC)	20	39960342	G	A
LDL-C (GLGC)	20	39964330	T	C

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
LDL-C (GLGC)	20	39969513	C	A
LDL-C (GLGC)	20	39974316	G	A
LDL-C (GLGC)	20	40021751	C	A
LDL-C (GLGC)	20	40054210	G	A
LDL-C (GLGC)	20	40066770	G	A
LDL-C (GLGC)	20	40078085	T	C
LDL-C (GLGC)	20	40237810	T	G
LDL-C (GLGC)	20	40267858	G	A
LDL-C (GLGC)	20	43042364	T	C
LDL-C (GLGC)	22	30198025	T	C
LDL-C (GLGC)	22	30241061	G	A
LDL-C (GLGC)	22	30378703	T	C
LDL-C (GLGC)	22	30413877	T	C
LDL-C (GLGC)	22	46627603	T	C
LDL-C (GLGC)	2	118680551	T	G
LDL-C (GLGC)	2	118690820	T	C
LDL-C (GLGC)	2	118706990	G	A
LDL-C (GLGC)	2	118815958	G	A
LDL-C (GLGC)	2	118849850	G	A
LDL-C (GLGC)	2	118879253	T	C
LDL-C (GLGC)	2	121309488	T	C
LDL-C (GLGC)	2	121322038	T	C
LDL-C (GLGC)	2	135755629	G	A
LDL-C (GLGC)	2	135777504	G	A
LDL-C (GLGC)	2	135837906	C	A
LDL-C (GLGC)	2	135893372	G	A
LDL-C (GLGC)	2	135952405	T	C
LDL-C (GLGC)	2	136092061	C	A
LDL-C (GLGC)	2	136393658	G	A
LDL-C (GLGC)	2	136459227	G	A
LDL-C (GLGC)	2	136608646	G	A
LDL-C (GLGC)	2	136714178	G	A
LDL-C (GLGC)	2	136787402	T	C
LDL-C (GLGC)	2	136808949	T	C
LDL-C (GLGC)	2	165528876	T	C
LDL-C (GLGC)	2	165539661	T	C
LDL-C (GLGC)	2	169827018	T	C
LDL-C (GLGC)	2	169830051	T	C
LDL-C (GLGC)	2	169830155	G	A
LDL-C (GLGC)	2	169830328	G	A
LDL-C (GLGC)	2	203708307	G	A
LDL-C (GLGC)	2	20887226	T	G
LDL-C (GLGC)	2	20985414	T	C
LDL-C (GLGC)	2	21004251	T	C

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
LDL-C (GLGC)	2	21097962	T	C
LDL-C (GLGC)	2	21100438	T	G
LDL-C (GLGC)	2	21111763	G	A
LDL-C (GLGC)	2	21112689	G	A
LDL-C (GLGC)	2	21118983	C	A
LDL-C (GLGC)	2	21121130	T	G
LDL-C (GLGC)	2	21121464	T	C
LDL-C (GLGC)	2	21123352	C	A
LDL-C (GLGC)	2	21125742	T	C
LDL-C (GLGC)	2	21133883	G	A
LDL-C (GLGC)	2	21134064	T	C
LDL-C (GLGC)	2	21135577	G	A
LDL-C (GLGC)	2	21135628	T	C
LDL-C (GLGC)	2	21137986	G	A
LDL-C (GLGC)	2	21139625	T	G
LDL-C (GLGC)	2	21140540	T	C
LDL-C (GLGC)	2	21141725	G	A
LDL-C (GLGC)	2	21141832	C	A
LDL-C (GLGC)	2	21142994	T	C
LDL-C (GLGC)	2	21143329	G	A
LDL-C (GLGC)	2	21145499	G	A
LDL-C (GLGC)	2	21147179	T	C
LDL-C (GLGC)	2	21148274	C	A
LDL-C (GLGC)	2	21187599	G	A
LDL-C (GLGC)	2	21189091	T	C
LDL-C (GLGC)	2	21190024	T	C
LDL-C (GLGC)	2	21190209	T	C
LDL-C (GLGC)	2	21192112	C	A
LDL-C (GLGC)	2	21194868	T	C
LDL-C (GLGC)	2	21196112	G	A
LDL-C (GLGC)	2	21196346	T	G
LDL-C (GLGC)	2	21196684	T	G
LDL-C (GLGC)	2	21197159	T	C
LDL-C (GLGC)	2	21198426	T	C
LDL-C (GLGC)	2	21205457	G	A
LDL-C (GLGC)	2	21206052	G	A
LDL-C (GLGC)	2	21206906	T	C
LDL-C (GLGC)	2	21208211	G	A
LDL-C (GLGC)	2	21213193	T	C
LDL-C (GLGC)	2	21214832	G	A
LDL-C (GLGC)	2	21215645	T	C
LDL-C (GLGC)	2	21216815	C	A
LDL-C (GLGC)	2	21217230	G	A
LDL-C (GLGC)	2	21217490	T	C

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
LDL-C (GLGC)	2	21218805	T	C
LDL-C (GLGC)	2	21221133	G	A
LDL-C (GLGC)	2	21225753	T	C
LDL-C (GLGC)	2	21228827	T	C
LDL-C (GLGC)	2	21231592	G	A
LDL-C (GLGC)	2	21232195	G	A
LDL-C (GLGC)	2	21233972	T	C
LDL-C (GLGC)	2	21237544	G	A
LDL-C (GLGC)	2	21237786	T	G
LDL-C (GLGC)	2	21239918	T	G
LDL-C (GLGC)	2	21240364	G	A
LDL-C (GLGC)	2	21241505	G	A
LDL-C (GLGC)	2	21244000	T	G
LDL-C (GLGC)	2	21247211	T	C
LDL-C (GLGC)	2	21249716	T	C
LDL-C (GLGC)	2	21250914	G	A
LDL-C (GLGC)	2	21257927	T	C
LDL-C (GLGC)	2	21259562	T	C
LDL-C (GLGC)	2	21259612	G	A
LDL-C (GLGC)	2	21260601	G	A
LDL-C (GLGC)	2	21261507	T	C
LDL-C (GLGC)	2	21261998	C	A
LDL-C (GLGC)	2	21262427	G	A
LDL-C (GLGC)	2	21263639	T	G
LDL-C (GLGC)	2	21263900	G	A
LDL-C (GLGC)	2	21267247	T	G
LDL-C (GLGC)	2	21267461	G	A
LDL-C (GLGC)	2	21269809	G	A
LDL-C (GLGC)	2	21270057	G	A
LDL-C (GLGC)	2	21270751	G	A
LDL-C (GLGC)	2	21271270	C	A
LDL-C (GLGC)	2	21271323	G	A
LDL-C (GLGC)	2	21276962	G	A
LDL-C (GLGC)	2	21288321	G	A
LDL-C (GLGC)	2	21290067	T	C
LDL-C (GLGC)	2	21293135	T	C
LDL-C (GLGC)	2	21295227	G	A
LDL-C (GLGC)	2	21297149	G	A
LDL-C (GLGC)	2	21300770	C	A
LDL-C (GLGC)	2	21301892	T	C
LDL-C (GLGC)	2	21303470	T	C
LDL-C (GLGC)	2	21309335	T	C
LDL-C (GLGC)	2	21309856	G	A
LDL-C (GLGC)	2	21311541	T	G

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
LDL-C (GLGC)	2	21311691	G	A
LDL-C (GLGC)	2	21312210	T	C
LDL-C (GLGC)	2	21315664	T	C
LDL-C (GLGC)	2	21318633	T	C
LDL-C (GLGC)	2	21319066	T	G
LDL-C (GLGC)	2	21327635	G	A
LDL-C (GLGC)	2	21328825	G	A
LDL-C (GLGC)	2	21337306	T	C
LDL-C (GLGC)	2	21348574	G	A
LDL-C (GLGC)	2	21349199	T	C
LDL-C (GLGC)	2	21364562	T	C
LDL-C (GLGC)	2	21366682	T	C
LDL-C (GLGC)	2	21368217	G	A
LDL-C (GLGC)	2	21377935	G	A
LDL-C (GLGC)	2	21377938	G	A
LDL-C (GLGC)	2	21378453	G	A
LDL-C (GLGC)	2	21381177	G	A
LDL-C (GLGC)	2	21385541	G	A
LDL-C (GLGC)	2	21386078	C	A
LDL-C (GLGC)	2	21389019	G	A
LDL-C (GLGC)	2	21389659	T	G
LDL-C (GLGC)	2	21396001	C	A
LDL-C (GLGC)	2	21399216	T	G
LDL-C (GLGC)	2	21400661	G	A
LDL-C (GLGC)	2	21402981	T	C
LDL-C (GLGC)	2	21403965	G	A
LDL-C (GLGC)	2	21415466	G	A
LDL-C (GLGC)	2	21428049	C	A
LDL-C (GLGC)	2	21430401	T	C
LDL-C (GLGC)	2	21438738	G	A
LDL-C (GLGC)	2	21439329	T	G
LDL-C (GLGC)	2	21445569	G	A
LDL-C (GLGC)	2	21448511	G	A
LDL-C (GLGC)	2	21448887	T	C
LDL-C (GLGC)	2	21449408	T	C
LDL-C (GLGC)	2	21449987	G	A
LDL-C (GLGC)	2	21450714	G	A
LDL-C (GLGC)	2	21451604	T	C
LDL-C (GLGC)	2	21451687	G	A
LDL-C (GLGC)	2	21451827	G	A
LDL-C (GLGC)	2	21453211	G	A
LDL-C (GLGC)	2	21453733	G	A
LDL-C (GLGC)	2	21460176	T	C
LDL-C (GLGC)	2	21460827	T	C

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
LDL-C (GLGC)	2	21463790	G	A
LDL-C (GLGC)	2	21464498	G	A
LDL-C (GLGC)	2	21469152	T	G
LDL-C (GLGC)	2	21470987	T	C
LDL-C (GLGC)	2	21476634	G	A
LDL-C (GLGC)	2	21493269	T	C
LDL-C (GLGC)	2	21502727	G	A
LDL-C (GLGC)	2	21507500	G	A
LDL-C (GLGC)	2	21514481	C	A
LDL-C (GLGC)	2	21527036	G	A
LDL-C (GLGC)	2	21535673	G	A
LDL-C (GLGC)	2	21538345	G	A
LDL-C (GLGC)	2	21538810	C	A
LDL-C (GLGC)	2	21538826	T	C
LDL-C (GLGC)	2	216287093	G	A
LDL-C (GLGC)	2	216304384	T	C
LDL-C (GLGC)	2	21769639	G	A
LDL-C (GLGC)	2	234605835	T	C
LDL-C (GLGC)	2	234679384	T	C
LDL-C (GLGC)	2	27730940	T	C
LDL-C (GLGC)	2	27731212	T	C
LDL-C (GLGC)	2	43990829	G	A
LDL-C (GLGC)	2	43998726	G	A
LDL-C (GLGC)	2	44004099	T	G
LDL-C (GLGC)	2	44022970	T	C
LDL-C (GLGC)	2	44036689	G	A
LDL-C (GLGC)	2	44037488	G	A
LDL-C (GLGC)	2	44042317	G	A
LDL-C (GLGC)	2	44043393	G	A
LDL-C (GLGC)	2	44046585	T	C
LDL-C (GLGC)	2	44048346	T	C
LDL-C (GLGC)	2	44057102	G	A
LDL-C (GLGC)	2	44057570	C	A
LDL-C (GLGC)	2	44058119	G	A
LDL-C (GLGC)	2	44065090	G	A
LDL-C (GLGC)	2	44072576	T	G
LDL-C (GLGC)	2	44073656	T	C
LDL-C (GLGC)	2	44079004	T	C
LDL-C (GLGC)	2	44079310	C	A
LDL-C (GLGC)	2	44080324	G	A
LDL-C (GLGC)	2	44081042	T	C
LDL-C (GLGC)	2	44085035	C	A
LDL-C (GLGC)	2	44092066	T	C
LDL-C (GLGC)	2	44094845	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
LDL-C (GLGC)	2	44096402	G	A
LDL-C (GLGC)	2	44097114	G	A
LDL-C (GLGC)	2	44099433	C	A
LDL-C (GLGC)	2	44260914	T	C
LDL-C (GLGC)	2	62871225	T	C
LDL-C (GLGC)	2	62884053	G	A
LDL-C (GLGC)	2	63069112	T	G
LDL-C (GLGC)	2	63149557	G	A
LDL-C (GLGC)	2	63259881	T	C
LDL-C (GLGC)	2	63280690	T	C
LDL-C (GLGC)	2	63362468	G	A
LDL-C (GLGC)	2	63562115	G	A
LDL-C (GLGC)	3	12267648	G	A
LDL-C (GLGC)	3	12272199	G	A
LDL-C (GLGC)	3	12288569	C	A
LDL-C (GLGC)	3	12296469	G	A
LDL-C (GLGC)	3	12323413	G	A
LDL-C (GLGC)	3	12327431	T	G
LDL-C (GLGC)	3	12344441	G	A
LDL-C (GLGC)	3	12388563	C	A
LDL-C (GLGC)	3	12397392	G	A
LDL-C (GLGC)	3	12402601	G	A
LDL-C (GLGC)	3	12403119	T	G
LDL-C (GLGC)	3	12430075	T	C
LDL-C (GLGC)	3	12449528	T	G
LDL-C (GLGC)	3	12461615	G	A
LDL-C (GLGC)	3	12466490	G	A
LDL-C (GLGC)	3	12467044	T	C
LDL-C (GLGC)	3	12470239	C	A
LDL-C (GLGC)	3	12489342	T	G
LDL-C (GLGC)	3	12502955	T	G
LDL-C (GLGC)	3	12674199	T	C
LDL-C (GLGC)	3	12709167	G	A
LDL-C (GLGC)	3	132163200	T	G
LDL-C (GLGC)	3	132257961	T	G
LDL-C (GLGC)	3	32533010	T	C
LDL-C (GLGC)	3	32538247	T	C
LDL-C (GLGC)	3	58293867	G	A
LDL-C (GLGC)	3	58381287	G	A
LDL-C (GLGC)	4	151303318	G	A
LDL-C (GLGC)	4	3434885	T	G
LDL-C (GLGC)	4	3473139	G	A
LDL-C (GLGC)	5	122855416	G	A
LDL-C (GLGC)	5	156111450	T	C

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
LDL-C (GLGC)	5	156273481	G	A
LDL-C (GLGC)	5	156354477	G	A
LDL-C (GLGC)	5	156369171	T	C
LDL-C (GLGC)	5	156376703	G	A
LDL-C (GLGC)	5	156381370	G	A
LDL-C (GLGC)	5	156382308	G	A
LDL-C (GLGC)	5	156390297	T	C
LDL-C (GLGC)	5	156394441	G	A
LDL-C (GLGC)	5	156396003	T	C
LDL-C (GLGC)	5	156398253	G	A
LDL-C (GLGC)	5	156405946	T	C
LDL-C (GLGC)	5	156432215	G	A
LDL-C (GLGC)	5	156442657	G	A
LDL-C (GLGC)	5	156449748	G	A
LDL-C (GLGC)	5	156466179	T	G
LDL-C (GLGC)	5	156468539	G	A
LDL-C (GLGC)	5	156469783	G	A
LDL-C (GLGC)	5	156472930	G	A
LDL-C (GLGC)	5	156475398	T	G
LDL-C (GLGC)	5	156479509	G	A
LDL-C (GLGC)	5	74259550	G	A
LDL-C (GLGC)	5	74263455	T	C
LDL-C (GLGC)	5	74264281	T	C
LDL-C (GLGC)	5	74266343	G	A
LDL-C (GLGC)	5	74276566	C	A
LDL-C (GLGC)	5	74280980	G	A
LDL-C (GLGC)	5	74291869	G	A
LDL-C (GLGC)	5	74300613	T	G
LDL-C (GLGC)	5	74302658	G	A
LDL-C (GLGC)	5	74340327	C	A
LDL-C (GLGC)	5	74343769	G	A
LDL-C (GLGC)	5	74345369	C	A
LDL-C (GLGC)	5	74352180	G	A
LDL-C (GLGC)	5	74361140	T	C
LDL-C (GLGC)	5	74365757	C	A
LDL-C (GLGC)	5	74382081	G	A
LDL-C (GLGC)	5	74382382	T	G
LDL-C (GLGC)	5	74384115	G	A
LDL-C (GLGC)	5	74442964	T	C
LDL-C (GLGC)	5	74443132	T	C
LDL-C (GLGC)	5	74461924	C	A
LDL-C (GLGC)	5	74466833	G	A
LDL-C (GLGC)	5	74490547	T	C
LDL-C (GLGC)	5	74497885	T	C

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
LDL-C (GLGC)	5	74534372	G	A
LDL-C (GLGC)	5	74562564	T	C
LDL-C (GLGC)	5	74570531	G	A
LDL-C (GLGC)	5	74574984	G	A
LDL-C (GLGC)	5	74582162	G	A
LDL-C (GLGC)	5	74596682	T	G
LDL-C (GLGC)	5	74602699	C	A
LDL-C (GLGC)	5	74604742	G	A
LDL-C (GLGC)	5	74605220	G	A
LDL-C (GLGC)	5	74611574	T	G
LDL-C (GLGC)	5	74616843	T	C
LDL-C (GLGC)	5	74620225	T	C
LDL-C (GLGC)	5	74620377	T	C
LDL-C (GLGC)	5	74624234	G	A
LDL-C (GLGC)	5	74625512	G	A
LDL-C (GLGC)	5	74631262	G	A
LDL-C (GLGC)	5	74631352	T	C
LDL-C (GLGC)	5	74636484	C	A
LDL-C (GLGC)	5	74637213	T	C
LDL-C (GLGC)	5	74641707	G	A
LDL-C (GLGC)	5	74648496	T	G
LDL-C (GLGC)	5	74651084	G	A
LDL-C (GLGC)	5	74656539	T	C
LDL-C (GLGC)	5	74668589	T	C
LDL-C (GLGC)	5	74670454	T	C
LDL-C (GLGC)	5	74673707	G	A
LDL-C (GLGC)	5	74690076	T	C
LDL-C (GLGC)	5	74692776	G	A
LDL-C (GLGC)	5	74700126	C	A
LDL-C (GLGC)	5	74707762	G	A
LDL-C (GLGC)	5	74735038	G	A
LDL-C (GLGC)	5	74786083	G	A
LDL-C (GLGC)	5	74808237	T	G
LDL-C (GLGC)	5	74808417	G	A
LDL-C (GLGC)	5	74876613	T	C
LDL-C (GLGC)	5	74879890	G	A
LDL-C (GLGC)	5	74898606	T	C
LDL-C (GLGC)	5	74910870	G	A
LDL-C (GLGC)	5	74926778	G	A
LDL-C (GLGC)	5	74929312	G	A
LDL-C (GLGC)	5	74929647	G	A
LDL-C (GLGC)	5	74946518	G	A
LDL-C (GLGC)	5	74951901	G	A
LDL-C (GLGC)	5	74952861	C	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
LDL-C (GLGC)	5	74959970	G	A
LDL-C (GLGC)	5	74961796	T	G
LDL-C (GLGC)	5	74964128	T	C
LDL-C (GLGC)	5	74965122	G	A
LDL-C (GLGC)	5	74965554	G	A
LDL-C (GLGC)	5	74967386	T	C
LDL-C (GLGC)	5	74970556	T	G
LDL-C (GLGC)	5	74970850	G	A
LDL-C (GLGC)	5	74971846	G	A
LDL-C (GLGC)	5	74972507	T	G
LDL-C (GLGC)	5	74975030	T	C
LDL-C (GLGC)	5	74984269	T	C
LDL-C (GLGC)	5	74984619	G	A
LDL-C (GLGC)	5	74986481	T	C
LDL-C (GLGC)	5	74988369	G	A
LDL-C (GLGC)	5	74997736	T	C
LDL-C (GLGC)	5	75003678	T	C
LDL-C (GLGC)	5	75003878	T	C
LDL-C (GLGC)	5	75012317	T	C
LDL-C (GLGC)	5	75015698	G	A
LDL-C (GLGC)	5	75024380	T	G
LDL-C (GLGC)	5	75030034	G	A
LDL-C (GLGC)	5	75034387	T	C
LDL-C (GLGC)	5	75037086	G	A
LDL-C (GLGC)	5	75042913	G	A
LDL-C (GLGC)	5	75132546	T	G
LDL-C (GLGC)	6	100600097	T	C
LDL-C (GLGC)	6	116296970	T	G
LDL-C (GLGC)	6	116305064	T	C
LDL-C (GLGC)	6	116309649	T	C
LDL-C (GLGC)	6	116373616	T	C
LDL-C (GLGC)	6	116381994	T	C
LDL-C (GLGC)	6	160402705	G	A
LDL-C (GLGC)	6	160415554	T	C
LDL-C (GLGC)	6	160443390	G	A
LDL-C (GLGC)	6	160468278	G	A
LDL-C (GLGC)	6	160494521	T	C
LDL-C (GLGC)	6	160496817	T	C
LDL-C (GLGC)	6	160508172	T	C
LDL-C (GLGC)	6	160514283	G	A
LDL-C (GLGC)	6	160537308	T	C
LDL-C (GLGC)	6	160538921	G	A
LDL-C (GLGC)	6	160543148	T	C
LDL-C (GLGC)	6	160543562	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
LDL-C (GLGC)	6	160551486	T	C
LDL-C (GLGC)	6	160560933	T	C
LDL-C (GLGC)	6	160567928	T	G
LDL-C (GLGC)	6	160571499	G	A
LDL-C (GLGC)	6	160572866	C	A
LDL-C (GLGC)	6	160574037	T	C
LDL-C (GLGC)	6	160575366	G	A
LDL-C (GLGC)	6	160578860	T	C
LDL-C (GLGC)	6	160608804	C	A
LDL-C (GLGC)	6	160668389	G	A
LDL-C (GLGC)	6	160735281	T	C
LDL-C (GLGC)	6	160737950	T	C
LDL-C (GLGC)	6	160754712	G	A
LDL-C (GLGC)	6	160770360	G	A
LDL-C (GLGC)	6	160771192	G	A
LDL-C (GLGC)	6	160816409	T	C
LDL-C (GLGC)	6	160894878	T	C
LDL-C (GLGC)	6	160903622	G	A
LDL-C (GLGC)	6	160906086	G	A
LDL-C (GLGC)	6	160914460	G	A
LDL-C (GLGC)	6	160917559	T	C
LDL-C (GLGC)	6	160922870	G	A
LDL-C (GLGC)	6	160961137	T	C
LDL-C (GLGC)	6	160963230	T	C
LDL-C (GLGC)	6	160980330	T	C
LDL-C (GLGC)	6	160981736	C	A
LDL-C (GLGC)	6	160998148	T	G
LDL-C (GLGC)	6	161010118	G	A
LDL-C (GLGC)	6	161018174	T	C
LDL-C (GLGC)	6	161029728	T	C
LDL-C (GLGC)	6	161069941	G	A
LDL-C (GLGC)	6	16107867	C	A
LDL-C (GLGC)	6	161082695	T	C
LDL-C (GLGC)	6	161082799	T	C
LDL-C (GLGC)	6	16109163	C	A
LDL-C (GLGC)	6	16110186	T	C
LDL-C (GLGC)	6	16110445	G	A
LDL-C (GLGC)	6	161108144	C	A
LDL-C (GLGC)	6	161108536	T	C
LDL-C (GLGC)	6	16113321	G	A
LDL-C (GLGC)	6	16113733	T	C
LDL-C (GLGC)	6	16120819	T	C
LDL-C (GLGC)	6	16126934	G	A
LDL-C (GLGC)	6	16127407	T	C

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
LDL-C (GLGC)	6	16134247	T	C
LDL-C (GLGC)	6	161385757	G	A
LDL-C (GLGC)	6	16160569	T	G
LDL-C (GLGC)	6	16162508	T	C
LDL-C (GLGC)	6	16175022	G	A
LDL-C (GLGC)	6	16175295	G	A
LDL-C (GLGC)	6	16193416	T	G
LDL-C (GLGC)	6	16196759	G	A
LDL-C (GLGC)	6	25488583	T	C
LDL-C (GLGC)	6	25821770	T	C
LDL-C (GLGC)	6	25842951	T	G
LDL-C (GLGC)	6	26093141	G	A
LDL-C (GLGC)	6	31011845	T	C
LDL-C (GLGC)	6	31019460	G	A
LDL-C (GLGC)	6	31129707	T	C
LDL-C (GLGC)	6	31237592	C	A
LDL-C (GLGC)	6	31238318	G	A
LDL-C (GLGC)	6	31240692	G	A
LDL-C (GLGC)	6	31243785	T	G
LDL-C (GLGC)	6	31253444	T	C
LDL-C (GLGC)	6	31265490	T	C
LDL-C (GLGC)	6	31272261	T	C
LDL-C (GLGC)	6	31336100	C	A
LDL-C (GLGC)	6	31341156	G	A
LDL-C (GLGC)	6	31352631	G	A
LDL-C (GLGC)	6	31353593	G	A
LDL-C (GLGC)	6	31353950	C	A
LDL-C (GLGC)	6	31354182	T	C
LDL-C (GLGC)	6	31355119	T	C
LDL-C (GLGC)	6	31360341	T	C
LDL-C (GLGC)	6	31362930	T	C
LDL-C (GLGC)	6	31377047	T	C
LDL-C (GLGC)	6	31378977	G	A
LDL-C (GLGC)	6	31380449	T	C
LDL-C (GLGC)	6	31380732	T	C
LDL-C (GLGC)	6	31384578	G	A
LDL-C (GLGC)	6	31384792	T	C
LDL-C (GLGC)	6	31407643	T	C
LDL-C (GLGC)	6	31407828	T	C
LDL-C (GLGC)	6	31409528	T	C
LDL-C (GLGC)	6	31410649	T	C
LDL-C (GLGC)	6	31440552	T	G
LDL-C (GLGC)	6	31441349	G	A
LDL-C (GLGC)	6	31507447	T	C

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
LDL-C (GLGC)	6	31512799	G	A
LDL-C (GLGC)	6	31847012	C	A
LDL-C (GLGC)	6	31883957	G	A
LDL-C (GLGC)	6	31929014	C	A
LDL-C (GLGC)	6	31930441	T	G
LDL-C (GLGC)	6	31947460	T	G
LDL-C (GLGC)	6	32046275	C	A
LDL-C (GLGC)	6	32265528	T	C
LDL-C (GLGC)	6	32341398	G	A
LDL-C (GLGC)	6	32345086	G	A
LDL-C (GLGC)	6	32351566	T	C
LDL-C (GLGC)	6	32358533	G	A
LDL-C (GLGC)	6	32360341	C	A
LDL-C (GLGC)	6	32361388	T	C
LDL-C (GLGC)	6	32366421	T	C
LDL-C (GLGC)	6	32367604	T	C
LDL-C (GLGC)	6	32376471	C	A
LDL-C (GLGC)	6	32411362	C	A
LDL-C (GLGC)	6	32412435	G	A
LDL-C (GLGC)	6	32415858	G	A
LDL-C (GLGC)	6	32415975	G	A
LDL-C (GLGC)	6	32581889	T	C
LDL-C (GLGC)	6	32626272	C	A
LDL-C (GLGC)	6	32652317	G	A
LDL-C (GLGC)	6	32658310	G	A
LDL-C (GLGC)	6	32663644	G	A
LDL-C (GLGC)	6	32665420	T	G
LDL-C (GLGC)	6	32667364	T	C
LDL-C (GLGC)	6	32668804	T	C
LDL-C (GLGC)	6	32670576	G	A
LDL-C (GLGC)	6	32670874	C	A
LDL-C (GLGC)	6	32671103	T	C
LDL-C (GLGC)	6	32681277	G	A
LDL-C (GLGC)	6	32782582	T	C
LDL-C (GLGC)	6	32784620	T	C
LDL-C (GLGC)	6	32787570	T	C
LDL-C (GLGC)	6	32796967	G	A
LDL-C (GLGC)	6	34618893	G	A
LDL-C (GLGC)	6	34638847	G	A
LDL-C (GLGC)	6	35133074	G	A
LDL-C (GLGC)	6	39250837	G	A
LDL-C (GLGC)	6	52452585	G	A
LDL-C (GLGC)	6	52454299	G	A
LDL-C (GLGC)	6	52529666	C	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
LDL-C (GLGC)	7	21488929	G	A
LDL-C (GLGC)	7	21496496	T	C
LDL-C (GLGC)	7	21563471	T	C
LDL-C (GLGC)	7	21582917	T	C
LDL-C (GLGC)	7	21589243	G	A
LDL-C (GLGC)	7	21601444	T	C
LDL-C (GLGC)	7	21603678	G	A
LDL-C (GLGC)	7	21607352	T	C
LDL-C (GLGC)	7	21612705	T	C
LDL-C (GLGC)	7	21615629	T	G
LDL-C (GLGC)	7	21627909	G	A
LDL-C (GLGC)	7	21647114	T	G
LDL-C (GLGC)	7	21654602	T	C
LDL-C (GLGC)	7	25991826	T	C
LDL-C (GLGC)	7	25997536	G	A
LDL-C (GLGC)	7	44570067	T	C
LDL-C (GLGC)	7	44570717	C	A
LDL-C (GLGC)	7	44577622	G	A
LDL-C (GLGC)	7	44580876	T	G
LDL-C (GLGC)	7	44580991	T	C
LDL-C (GLGC)	7	44581986	T	C
LDL-C (GLGC)	7	44585052	T	C
LDL-C (GLGC)	7	44602187	T	G
LDL-C (GLGC)	7	44615161	G	A
LDL-C (GLGC)	7	44617793	G	A
LDL-C (GLGC)	7	44643802	G	A
LDL-C (GLGC)	7	44657475	T	C
LDL-C (GLGC)	7	44709372	T	C
LDL-C (GLGC)	8	116648089	G	A
LDL-C (GLGC)	8	116648565	C	A
LDL-C (GLGC)	8	116650219	G	A
LDL-C (GLGC)	8	116650491	T	C
LDL-C (GLGC)	8	116659534	G	A
LDL-C (GLGC)	8	116663922	G	A
LDL-C (GLGC)	8	116670347	T	C
LDL-C (GLGC)	8	126447308	T	C
LDL-C (GLGC)	8	126449406	T	C
LDL-C (GLGC)	8	126456376	G	A
LDL-C (GLGC)	8	126459962	G	A
LDL-C (GLGC)	8	126459990	G	A
LDL-C (GLGC)	8	126460535	G	A
LDL-C (GLGC)	8	126463365	G	A
LDL-C (GLGC)	8	126468621	T	G
LDL-C (GLGC)	8	126470817	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
LDL-C (GLGC)	8	126472487	G	A
LDL-C (GLGC)	8	126473441	G	A
LDL-C (GLGC)	8	126474306	G	A
LDL-C (GLGC)	8	126474356	G	A
LDL-C (GLGC)	8	126478644	G	A
LDL-C (GLGC)	8	126478758	G	A
LDL-C (GLGC)	8	126480367	T	C
LDL-C (GLGC)	8	126480526	T	C
LDL-C (GLGC)	8	126482077	G	A
LDL-C (GLGC)	8	126485531	T	C
LDL-C (GLGC)	8	126486287	T	G
LDL-C (GLGC)	8	126486409	G	A
LDL-C (GLGC)	8	126486906	G	A
LDL-C (GLGC)	8	126488235	T	C
LDL-C (GLGC)	8	126488930	G	A
LDL-C (GLGC)	8	126489818	G	A
LDL-C (GLGC)	8	126491304	T	C
LDL-C (GLGC)	8	126493392	G	A
LDL-C (GLGC)	8	126493746	G	A
LDL-C (GLGC)	8	126494562	T	C
LDL-C (GLGC)	8	126494764	G	A
LDL-C (GLGC)	8	126495818	T	C
LDL-C (GLGC)	8	126501177	T	C
LDL-C (GLGC)	8	126501528	G	A
LDL-C (GLGC)	8	126502526	G	A
LDL-C (GLGC)	8	126504726	T	C
LDL-C (GLGC)	8	126523523	T	C
LDL-C (GLGC)	8	126526063	T	G
LDL-C (GLGC)	8	144986793	T	C
LDL-C (GLGC)	8	144992103	T	C
LDL-C (GLGC)	8	145005561	T	C
LDL-C (GLGC)	8	145009610	G	A
LDL-C (GLGC)	8	145031265	G	A
LDL-C (GLGC)	8	145043543	G	A
LDL-C (GLGC)	8	145058986	G	A
LDL-C (GLGC)	8	145059425	T	C
LDL-C (GLGC)	8	145074452	T	C
LDL-C (GLGC)	8	18255709	G	A
LDL-C (GLGC)	8	18272377	T	C
LDL-C (GLGC)	8	18272438	T	C
LDL-C (GLGC)	8	55422424	T	C
LDL-C (GLGC)	8	55422440	T	C
LDL-C (GLGC)	8	55437524	G	A
LDL-C (GLGC)	8	59320389	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
LDL-C (GLGC)	8	59332694	G	A
LDL-C (GLGC)	8	59339279	T	C
LDL-C (GLGC)	8	59388565	T	C
LDL-C (GLGC)	8	59412066	T	G
LDL-C (GLGC)	8	59544413	G	A
LDL-C (GLGC)	8	9168146	T	C
LDL-C (GLGC)	8	9171735	T	C
LDL-C (GLGC)	8	9172718	G	A
LDL-C (GLGC)	8	9175433	T	C
LDL-C (GLGC)	8	9177732	T	G
LDL-C (GLGC)	8	9178135	T	C
LDL-C (GLGC)	8	9178921	G	A
LDL-C (GLGC)	8	9183596	G	A
LDL-C (GLGC)	8	9184231	G	A
LDL-C (GLGC)	8	9184691	T	C
LDL-C (GLGC)	8	9187242	G	A
LDL-C (GLGC)	8	9192423	G	A
LDL-C (GLGC)	8	9197250	G	A
LDL-C (GLGC)	8	9201787	T	C
LDL-C (GLGC)	8	9206069	G	A
LDL-C (GLGC)	8	9206678	G	A
LDL-C (GLGC)	8	9219622	T	G
LDL-C (GLGC)	8	9228403	C	A
LDL-C (GLGC)	9	107653426	G	A
LDL-C (GLGC)	9	107664301	T	C
LDL-C (GLGC)	9	107665739	G	A
LDL-C (GLGC)	9	107667147	T	C
LDL-C (GLGC)	9	107672365	G	A
LDL-C (GLGC)	9	136042782	G	A
LDL-C (GLGC)	9	136049780	G	A
LDL-C (GLGC)	9	136057106	G	A
LDL-C (GLGC)	9	136064766	G	A
LDL-C (GLGC)	9	136075679	C	A
LDL-C (GLGC)	9	136084941	T	C
LDL-C (GLGC)	9	136087047	T	C
LDL-C (GLGC)	9	136087931	T	G
LDL-C (GLGC)	9	136093199	G	A
LDL-C (GLGC)	9	136102199	T	C
LDL-C (GLGC)	9	136102946	G	A
LDL-C (GLGC)	9	136103153	T	C
LDL-C (GLGC)	9	136109279	G	A
LDL-C (GLGC)	9	136112570	T	C
LDL-C (GLGC)	9	136115176	G	A
LDL-C (GLGC)	9	136120091	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
LDL-C (GLGC)	9	136121652	G	A
LDL-C (GLGC)	9	136128558	T	C
LDL-C (GLGC)	9	136131322	T	G
LDL-C (GLGC)	9	136132350	T	C
LDL-C (GLGC)	9	136132617	G	A
LDL-C (GLGC)	9	136132633	G	A
LDL-C (GLGC)	9	136132754	C	A
LDL-C (GLGC)	9	136132873	T	C
LDL-C (GLGC)	9	136133714	G	A
LDL-C (GLGC)	9	136137065	G	A
LDL-C (GLGC)	9	136139265	C	A
LDL-C (GLGC)	9	136139297	T	C
LDL-C (GLGC)	9	136139754	T	C
LDL-C (GLGC)	9	136142185	T	C
LDL-C (GLGC)	9	136145471	G	A
LDL-C (GLGC)	9	136149399	G	A
LDL-C (GLGC)	9	136149722	G	A
LDL-C (GLGC)	9	136153875	T	C
LDL-C (GLGC)	9	136153981	T	C
LDL-C (GLGC)	9	136154867	T	G
LDL-C (GLGC)	9	136155359	G	A
LDL-C (GLGC)	9	136155444	T	C
LDL-C (GLGC)	9	136157133	G	A
LDL-C (GLGC)	9	136182475	G	A
LDL-C (GLGC)	9	136191010	T	C
LDL-C (GLGC)	9	136194595	T	C
LDL-C (GLGC)	9	136237672	C	A
LDL-C (GLGC)	9	136246666	T	C
LDL-C (GLGC)	9	136267149	T	C
LDL-C (GLGC)	9	136268084	G	A
LDL-C (GLGC)	9	136269576	C	A
LDL-C (GLGC)	9	136323754	G	A
LDL-C (GLGC)	9	136329954	T	C
LDL-C (GLGC)	9	136330428	G	A
LDL-C (GLGC)	9	136334910	T	C
LDL-C (GLGC)	9	136348194	T	C
LDL-C (GLGC)	9	136359599	T	C
LDL-C (GLGC)	9	2640759	G	A
HDL-C (GLGC)	10	113921825	G	A
HDL-C (GLGC)	10	113940329	T	C
HDL-C (GLGC)	10	113991397	T	C
HDL-C (GLGC)	10	113992861	T	G
HDL-C (GLGC)	10	114045333	T	C
HDL-C (GLGC)	10	114048792	T	C

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
HDL-C (GLGC)	10	115789375	T	C
HDL-C (GLGC)	10	115792787	G	A
HDL-C (GLGC)	10	45932264	T	C
HDL-C (GLGC)	10	45938746	T	C
HDL-C (GLGC)	10	45958881	C	A
HDL-C (GLGC)	10	45988597	G	A
HDL-C (GLGC)	10	46031747	G	A
HDL-C (GLGC)	10	46076235	G	A
HDL-C (GLGC)	10	46088061	T	C
HDL-C (GLGC)	10	46094214	T	G
HDL-C (GLGC)	10	5799613	G	A
HDL-C (GLGC)	10	65050659	G	A
HDL-C (GLGC)	10	65066186	T	G
HDL-C (GLGC)	10	65350383	G	A
HDL-C (GLGC)	10	94805665	G	A
HDL-C (GLGC)	11	10388782	G	A
HDL-C (GLGC)	11	109979945	T	C
HDL-C (GLGC)	11	116505440	G	A
HDL-C (GLGC)	11	116520398	T	C
HDL-C (GLGC)	11	116522854	G	A
HDL-C (GLGC)	11	116522961	T	C
HDL-C (GLGC)	11	116523844	G	A
HDL-C (GLGC)	11	116525730	T	C
HDL-C (GLGC)	11	116526322	C	A
HDL-C (GLGC)	11	116527282	T	C
HDL-C (GLGC)	11	116529188	T	G
HDL-C (GLGC)	11	116529442	T	C
HDL-C (GLGC)	11	116531739	T	C
HDL-C (GLGC)	11	116532221	T	C
HDL-C (GLGC)	11	116536418	G	A
HDL-C (GLGC)	11	116536476	T	C
HDL-C (GLGC)	11	116552562	T	C
HDL-C (GLGC)	11	116553025	G	A
HDL-C (GLGC)	11	116554228	C	A
HDL-C (GLGC)	11	116562580	C	A
HDL-C (GLGC)	11	116566117	T	C
HDL-C (GLGC)	11	116571608	G	A
HDL-C (GLGC)	11	116572089	T	C
HDL-C (GLGC)	11	116574336	G	A
HDL-C (GLGC)	11	116574463	G	A
HDL-C (GLGC)	11	116574488	G	A
HDL-C (GLGC)	11	116576400	T	C
HDL-C (GLGC)	11	116576415	G	A
HDL-C (GLGC)	11	116578223	T	C

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
HDL-C (GLGC)	11	116579663	T	C
HDL-C (GLGC)	11	116581259	T	C
HDL-C (GLGC)	11	116584987	T	C
HDL-C (GLGC)	11	116586283	T	C
HDL-C (GLGC)	11	116590787	G	A
HDL-C (GLGC)	11	116595756	T	C
HDL-C (GLGC)	11	116596309	C	A
HDL-C (GLGC)	11	116598988	G	A
HDL-C (GLGC)	11	116599392	T	C
HDL-C (GLGC)	11	116603677	G	A
HDL-C (GLGC)	11	116603724	C	A
HDL-C (GLGC)	11	116604070	T	C
HDL-C (GLGC)	11	116607368	C	A
HDL-C (GLGC)	11	116610249	G	A
HDL-C (GLGC)	11	116611457	T	C
HDL-C (GLGC)	11	116612128	G	A
HDL-C (GLGC)	11	116615244	G	A
HDL-C (GLGC)	11	116619867	C	A
HDL-C (GLGC)	11	116621770	G	A
HDL-C (GLGC)	11	116624601	C	A
HDL-C (GLGC)	11	116624703	T	G
HDL-C (GLGC)	11	116629949	T	C
HDL-C (GLGC)	11	116633825	T	C
HDL-C (GLGC)	11	116633947	G	A
HDL-C (GLGC)	11	116639941	G	A
HDL-C (GLGC)	11	116640237	G	A
HDL-C (GLGC)	11	116645275	T	C
HDL-C (GLGC)	11	116648776	C	A
HDL-C (GLGC)	11	116649135	G	A
HDL-C (GLGC)	11	116649538	G	A
HDL-C (GLGC)	11	116652351	G	A
HDL-C (GLGC)	11	116652423	G	A
HDL-C (GLGC)	11	116653762	T	C
HDL-C (GLGC)	11	116654159	G	A
HDL-C (GLGC)	11	116655600	G	A
HDL-C (GLGC)	11	116657561	T	C
HDL-C (GLGC)	11	116658031	T	G
HDL-C (GLGC)	11	116660686	G	A
HDL-C (GLGC)	11	116660813	G	A
HDL-C (GLGC)	11	116661826	T	C
HDL-C (GLGC)	11	116662579	T	C
HDL-C (GLGC)	11	116667545	T	C
HDL-C (GLGC)	11	116670676	C	A
HDL-C (GLGC)	11	116673768	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
HDL-C (GLGC)	11	116721826	T	C
HDL-C (GLGC)	11	116723171	T	C
HDL-C (GLGC)	11	116734545	G	A
HDL-C (GLGC)	11	116758454	G	A
HDL-C (GLGC)	11	116826870	T	C
HDL-C (GLGC)	11	116831912	T	C
HDL-C (GLGC)	11	116871223	G	A
HDL-C (GLGC)	11	116907449	T	C
HDL-C (GLGC)	11	116912730	T	C
HDL-C (GLGC)	11	116929995	G	A
HDL-C (GLGC)	11	116942753	T	C
HDL-C (GLGC)	11	116959039	G	A
HDL-C (GLGC)	11	116980641	T	G
HDL-C (GLGC)	11	117027942	T	C
HDL-C (GLGC)	11	117046197	G	A
HDL-C (GLGC)	11	117065476	G	A
HDL-C (GLGC)	11	117075566	T	C
HDL-C (GLGC)	11	117094491	T	C
HDL-C (GLGC)	11	117183650	T	C
HDL-C (GLGC)	11	117267884	G	A
HDL-C (GLGC)	11	122504251	T	G
HDL-C (GLGC)	11	122508163	T	C
HDL-C (GLGC)	11	122509237	G	A
HDL-C (GLGC)	11	122522375	T	C
HDL-C (GLGC)	11	122563338	G	A
HDL-C (GLGC)	11	126228000	T	C
HDL-C (GLGC)	11	126228659	T	G
HDL-C (GLGC)	11	13355770	T	C
HDL-C (GLGC)	11	13357183	G	A
HDL-C (GLGC)	11	14276999	G	A
HDL-C (GLGC)	11	14504463	C	A
HDL-C (GLGC)	11	45723298	G	A
HDL-C (GLGC)	11	45734387	T	C
HDL-C (GLGC)	11	45737527	T	C
HDL-C (GLGC)	11	45739162	T	C
HDL-C (GLGC)	11	45740020	T	C
HDL-C (GLGC)	11	45740173	G	A
HDL-C (GLGC)	11	45747590	T	G
HDL-C (GLGC)	11	45755505	T	C
HDL-C (GLGC)	11	45756960	C	A
HDL-C (GLGC)	11	45757401	T	C
HDL-C (GLGC)	11	45762123	G	A
HDL-C (GLGC)	11	45839709	G	A
HDL-C (GLGC)	11	46308549	T	C

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
HDL-C (GLGC)	11	46309968	G	A
HDL-C (GLGC)	11	46702160	T	C
HDL-C (GLGC)	11	46722221	T	C
HDL-C (GLGC)	11	46725196	T	C
HDL-C (GLGC)	11	46745003	T	C
HDL-C (GLGC)	11	46749648	G	A
HDL-C (GLGC)	11	46768041	G	A
HDL-C (GLGC)	11	46769788	C	A
HDL-C (GLGC)	11	46798631	G	A
HDL-C (GLGC)	11	46805575	G	A
HDL-C (GLGC)	11	46810916	C	A
HDL-C (GLGC)	11	46857279	T	C
HDL-C (GLGC)	11	46872873	G	A
HDL-C (GLGC)	11	46890165	T	C
HDL-C (GLGC)	11	46890197	G	A
HDL-C (GLGC)	11	46897446	G	A
HDL-C (GLGC)	11	46898771	T	C
HDL-C (GLGC)	11	46911704	T	C
HDL-C (GLGC)	11	46917983	G	A
HDL-C (GLGC)	11	46939027	G	A
HDL-C (GLGC)	11	46975125	T	C
HDL-C (GLGC)	11	46981646	G	A
HDL-C (GLGC)	11	47127153	G	A
HDL-C (GLGC)	11	47160623	T	C
HDL-C (GLGC)	11	47179861	C	A
HDL-C (GLGC)	11	47182370	G	A
HDL-C (GLGC)	11	47201924	G	A
HDL-C (GLGC)	11	47245803	G	A
HDL-C (GLGC)	11	47246397	G	A
HDL-C (GLGC)	11	47247621	G	A
HDL-C (GLGC)	11	47249294	G	A
HDL-C (GLGC)	11	47255598	T	C
HDL-C (GLGC)	11	47266808	T	G
HDL-C (GLGC)	11	47269159	T	C
HDL-C (GLGC)	11	47270255	T	C
HDL-C (GLGC)	11	47275064	G	A
HDL-C (GLGC)	11	47277090	T	C
HDL-C (GLGC)	11	47300155	G	A
HDL-C (GLGC)	11	47303275	T	C
HDL-C (GLGC)	11	47306585	G	A
HDL-C (GLGC)	11	47312892	T	G
HDL-C (GLGC)	11	47316691	C	A
HDL-C (GLGC)	11	47346145	G	A
HDL-C (GLGC)	11	47346940	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
HDL-C (GLGC)	11	47349969	C	A
HDL-C (GLGC)	11	47350287	G	A
HDL-C (GLGC)	11	47359706	C	A
HDL-C (GLGC)	11	47365199	G	A
HDL-C (GLGC)	11	47370607	T	C
HDL-C (GLGC)	11	47370957	C	A
HDL-C (GLGC)	11	47378399	G	A
HDL-C (GLGC)	11	47380593	G	A
HDL-C (GLGC)	11	47380995	T	C
HDL-C (GLGC)	11	47401171	C	A
HDL-C (GLGC)	11	47411736	G	A
HDL-C (GLGC)	11	47419129	G	A
HDL-C (GLGC)	11	47430458	T	C
HDL-C (GLGC)	11	47441513	G	A
HDL-C (GLGC)	11	47454271	C	A
HDL-C (GLGC)	11	47454701	G	A
HDL-C (GLGC)	11	47456763	G	A
HDL-C (GLGC)	11	47465955	G	A
HDL-C (GLGC)	11	47468791	T	C
HDL-C (GLGC)	11	47470345	G	A
HDL-C (GLGC)	11	47471053	T	C
HDL-C (GLGC)	11	47558220	G	A
HDL-C (GLGC)	11	47566352	T	C
HDL-C (GLGC)	11	47607912	T	C
HDL-C (GLGC)	11	47611152	T	C
HDL-C (GLGC)	11	47629793	T	C
HDL-C (GLGC)	11	47650993	T	C
HDL-C (GLGC)	11	47658314	T	C
HDL-C (GLGC)	11	47663049	G	A
HDL-C (GLGC)	11	47702395	G	A
HDL-C (GLGC)	11	47773226	T	C
HDL-C (GLGC)	11	47803907	T	C
HDL-C (GLGC)	11	47858755	T	C
HDL-C (GLGC)	11	47868474	T	C
HDL-C (GLGC)	11	47877493	T	C
HDL-C (GLGC)	11	47888629	G	A
HDL-C (GLGC)	11	47901269	T	C
HDL-C (GLGC)	11	47910823	T	G
HDL-C (GLGC)	11	47969152	T	C
HDL-C (GLGC)	11	47983477	G	A
HDL-C (GLGC)	11	48018355	G	A
HDL-C (GLGC)	11	48024893	G	A
HDL-C (GLGC)	11	48028343	T	G
HDL-C (GLGC)	11	48050391	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
HDL-C (GLGC)	11	48050995	G	A
HDL-C (GLGC)	11	48051442	C	A
HDL-C (GLGC)	11	48059091	T	C
HDL-C (GLGC)	11	48094879	T	C
HDL-C (GLGC)	11	48097480	T	C
HDL-C (GLGC)	11	48115089	T	C
HDL-C (GLGC)	11	48120936	G	A
HDL-C (GLGC)	11	48150576	G	A
HDL-C (GLGC)	11	48157869	T	C
HDL-C (GLGC)	11	48207259	G	A
HDL-C (GLGC)	11	48234680	G	A
HDL-C (GLGC)	11	48246457	G	A
HDL-C (GLGC)	11	48293931	T	C
HDL-C (GLGC)	11	48382471	G	A
HDL-C (GLGC)	11	48518893	G	A
HDL-C (GLGC)	11	48590678	T	G
HDL-C (GLGC)	11	48616694	G	A
HDL-C (GLGC)	11	48626363	C	A
HDL-C (GLGC)	11	48688784	T	C
HDL-C (GLGC)	11	48807911	T	C
HDL-C (GLGC)	11	49011009	T	C
HDL-C (GLGC)	11	49012509	G	A
HDL-C (GLGC)	11	49381198	G	A
HDL-C (GLGC)	11	49505175	T	C
HDL-C (GLGC)	11	49610094	T	G
HDL-C (GLGC)	11	49644966	T	C
HDL-C (GLGC)	11	50096095	T	G
HDL-C (GLGC)	11	50367359	T	C
HDL-C (GLGC)	11	51526861	G	A
HDL-C (GLGC)	11	56180753	G	A
HDL-C (GLGC)	11	56436140	G	A
HDL-C (GLGC)	11	61546592	G	A
HDL-C (GLGC)	11	61548559	G	A
HDL-C (GLGC)	11	61548874	G	A
HDL-C (GLGC)	11	61549458	G	A
HDL-C (GLGC)	11	61560081	G	A
HDL-C (GLGC)	11	61564299	T	G
HDL-C (GLGC)	11	61565908	T	C
HDL-C (GLGC)	11	61580635	T	C
HDL-C (GLGC)	11	61593816	T	C
HDL-C (GLGC)	11	61597212	T	C
HDL-C (GLGC)	11	61597972	G	A
HDL-C (GLGC)	11	61600342	C	A
HDL-C (GLGC)	11	61601908	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
HDL-C (GLGC)	11	61603237	T	C
HDL-C (GLGC)	11	61605215	G	A
HDL-C (GLGC)	11	61605613	T	C
HDL-C (GLGC)	11	61609750	T	C
HDL-C (GLGC)	11	61611694	G	A
HDL-C (GLGC)	11	61616012	G	A
HDL-C (GLGC)	11	61618608	G	A
HDL-C (GLGC)	11	61618831	T	C
HDL-C (GLGC)	11	61623793	G	A
HDL-C (GLGC)	11	61624181	T	C
HDL-C (GLGC)	11	61624414	T	C
HDL-C (GLGC)	11	61626921	T	G
HDL-C (GLGC)	11	61629122	G	A
HDL-C (GLGC)	11	61639488	T	C
HDL-C (GLGC)	11	61641542	T	G
HDL-C (GLGC)	11	61647288	G	A
HDL-C (GLGC)	11	61655305	G	A
HDL-C (GLGC)	11	61656117	G	A
HDL-C (GLGC)	11	65391317	G	A
HDL-C (GLGC)	11	75455021	C	A
HDL-C (GLGC)	12	107174646	C	A
HDL-C (GLGC)	12	107255986	T	G
HDL-C (GLGC)	12	109779616	T	C
HDL-C (GLGC)	12	109783690	T	C
HDL-C (GLGC)	12	109795166	T	G
HDL-C (GLGC)	12	109800531	T	C
HDL-C (GLGC)	12	109832545	T	G
HDL-C (GLGC)	12	109840940	G	A
HDL-C (GLGC)	12	109866528	C	A
HDL-C (GLGC)	12	109874230	G	A
HDL-C (GLGC)	12	109875981	G	A
HDL-C (GLGC)	12	109880279	C	A
HDL-C (GLGC)	12	109883374	T	C
HDL-C (GLGC)	12	109890339	G	A
HDL-C (GLGC)	12	109890510	T	C
HDL-C (GLGC)	12	109898732	G	A
HDL-C (GLGC)	12	109969686	T	C
HDL-C (GLGC)	12	109977464	T	G
HDL-C (GLGC)	12	109980516	T	C
HDL-C (GLGC)	12	109980619	G	A
HDL-C (GLGC)	12	109986935	G	A
HDL-C (GLGC)	12	109998097	G	A
HDL-C (GLGC)	12	110000193	T	C
HDL-C (GLGC)	12	110002777	T	C

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
HDL-C (GLGC)	12	110004040	T	C
HDL-C (GLGC)	12	110010866	G	A
HDL-C (GLGC)	12	110027795	G	A
HDL-C (GLGC)	12	110046051	T	C
HDL-C (GLGC)	12	110048015	T	C
HDL-C (GLGC)	12	110055044	T	C
HDL-C (GLGC)	12	110059431	G	A
HDL-C (GLGC)	12	111910219	G	A
HDL-C (GLGC)	12	112083162	T	C
HDL-C (GLGC)	12	112871372	G	A
HDL-C (GLGC)	12	122781897	G	A
HDL-C (GLGC)	12	123171218	G	A
HDL-C (GLGC)	12	123200768	T	G
HDL-C (GLGC)	12	123311981	T	C
HDL-C (GLGC)	12	123332032	T	C
HDL-C (GLGC)	12	123344021	G	A
HDL-C (GLGC)	12	123387922	T	G
HDL-C (GLGC)	12	123727443	G	A
HDL-C (GLGC)	12	123736084	T	G
HDL-C (GLGC)	12	123775127	G	A
HDL-C (GLGC)	12	123791227	T	C
HDL-C (GLGC)	12	123796238	T	C
HDL-C (GLGC)	12	123798074	G	A
HDL-C (GLGC)	12	123800376	G	A
HDL-C (GLGC)	12	124317416	G	A
HDL-C (GLGC)	12	124393697	T	G
HDL-C (GLGC)	12	124399550	T	C
HDL-C (GLGC)	12	124417889	T	C
HDL-C (GLGC)	12	124446728	G	A
HDL-C (GLGC)	12	124460167	T	G
HDL-C (GLGC)	12	124494540	T	C
HDL-C (GLGC)	12	124505444	T	C
HDL-C (GLGC)	12	124506631	T	C
HDL-C (GLGC)	12	124520331	G	A
HDL-C (GLGC)	12	124537575	G	A
HDL-C (GLGC)	12	124561803	T	C
HDL-C (GLGC)	12	124566777	T	C
HDL-C (GLGC)	12	124583446	G	A
HDL-C (GLGC)	12	125259888	G	A
HDL-C (GLGC)	12	125260645	G	A
HDL-C (GLGC)	12	125261593	T	C
HDL-C (GLGC)	12	125261839	T	C
HDL-C (GLGC)	12	125262104	G	A
HDL-C (GLGC)	12	125264293	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
HDL-C (GLGC)	12	125265636	G	A
HDL-C (GLGC)	12	125289265	G	A
HDL-C (GLGC)	12	125320155	T	G
HDL-C (GLGC)	12	125327352	G	A
HDL-C (GLGC)	12	125327404	T	C
HDL-C (GLGC)	12	125328375	G	A
HDL-C (GLGC)	12	125335253	C	A
HDL-C (GLGC)	12	125351116	T	C
HDL-C (GLGC)	12	125380232	G	A
HDL-C (GLGC)	12	125439806	T	C
HDL-C (GLGC)	12	20463526	G	A
HDL-C (GLGC)	12	20473758	C	A
HDL-C (GLGC)	12	57696677	G	A
HDL-C (GLGC)	12	57809456	T	C
HDL-C (GLGC)	12	57848639	G	A
HDL-C (GLGC)	12	57851182	G	A
HDL-C (GLGC)	12	58012233	G	A
HDL-C (GLGC)	14	105277209	G	A
HDL-C (GLGC)	15	41827655	T	C
HDL-C (GLGC)	15	42683787	G	A
HDL-C (GLGC)	15	44244523	T	C
HDL-C (GLGC)	15	44269775	C	A
HDL-C (GLGC)	15	58448287	G	A
HDL-C (GLGC)	15	58450274	G	A
HDL-C (GLGC)	15	58525552	T	G
HDL-C (GLGC)	15	58542197	T	C
HDL-C (GLGC)	15	58544607	G	A
HDL-C (GLGC)	15	58549619	T	G
HDL-C (GLGC)	15	58552606	T	C
HDL-C (GLGC)	15	58555270	C	A
HDL-C (GLGC)	15	58557062	G	A
HDL-C (GLGC)	15	58558746	T	C
HDL-C (GLGC)	15	58576226	T	C
HDL-C (GLGC)	15	58577163	G	A
HDL-C (GLGC)	15	58579956	G	A
HDL-C (GLGC)	15	58580525	G	A
HDL-C (GLGC)	15	58580781	T	C
HDL-C (GLGC)	15	58582540	T	C
HDL-C (GLGC)	15	58591415	T	C
HDL-C (GLGC)	15	58593730	T	C
HDL-C (GLGC)	15	58604998	G	A
HDL-C (GLGC)	15	58610852	T	C
HDL-C (GLGC)	15	58611859	T	G
HDL-C (GLGC)	15	58613666	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
HDL-C (GLGC)	15	58619349	C	A
HDL-C (GLGC)	15	58619457	G	A
HDL-C (GLGC)	15	58623328	T	G
HDL-C (GLGC)	15	58623424	G	A
HDL-C (GLGC)	15	58623465	C	A
HDL-C (GLGC)	15	58623525	T	C
HDL-C (GLGC)	15	58630019	T	G
HDL-C (GLGC)	15	58635583	C	A
HDL-C (GLGC)	15	58635891	G	A
HDL-C (GLGC)	15	58643839	T	C
HDL-C (GLGC)	15	58649477	T	C
HDL-C (GLGC)	15	58654491	T	C
HDL-C (GLGC)	15	58666341	T	C
HDL-C (GLGC)	15	58666679	T	C
HDL-C (GLGC)	15	58671178	C	A
HDL-C (GLGC)	15	58672134	T	C
HDL-C (GLGC)	15	58674051	G	A
HDL-C (GLGC)	15	58674308	G	A
HDL-C (GLGC)	15	58676119	G	A
HDL-C (GLGC)	15	58678512	T	C
HDL-C (GLGC)	15	58678869	T	C
HDL-C (GLGC)	15	58680638	T	C
HDL-C (GLGC)	15	58680805	G	A
HDL-C (GLGC)	15	58680954	T	C
HDL-C (GLGC)	15	58682690	G	A
HDL-C (GLGC)	15	58682783	C	A
HDL-C (GLGC)	15	58683366	G	A
HDL-C (GLGC)	15	58683410	T	C
HDL-C (GLGC)	15	58683585	G	A
HDL-C (GLGC)	15	58684381	G	A
HDL-C (GLGC)	15	58684478	T	C
HDL-C (GLGC)	15	58685560	T	C
HDL-C (GLGC)	15	58685970	T	C
HDL-C (GLGC)	15	58686338	G	A
HDL-C (GLGC)	15	58686754	T	C
HDL-C (GLGC)	15	58686809	T	C
HDL-C (GLGC)	15	58686939	T	C
HDL-C (GLGC)	15	58687040	T	C
HDL-C (GLGC)	15	58687609	T	G
HDL-C (GLGC)	15	58687880	T	C
HDL-C (GLGC)	15	58688186	C	A
HDL-C (GLGC)	15	58690754	G	A
HDL-C (GLGC)	15	58691208	T	C
HDL-C (GLGC)	15	58692007	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
HDL-C (GLGC)	15	58692202	C	A
HDL-C (GLGC)	15	58692936	T	C
HDL-C (GLGC)	15	58694020	T	G
HDL-C (GLGC)	15	58695592	G	A
HDL-C (GLGC)	15	58697072	T	C
HDL-C (GLGC)	15	58699010	T	C
HDL-C (GLGC)	15	58699937	T	C
HDL-C (GLGC)	15	58703069	C	A
HDL-C (GLGC)	15	58703895	G	A
HDL-C (GLGC)	15	58710627	C	A
HDL-C (GLGC)	15	58711654	T	C
HDL-C (GLGC)	15	58712203	T	G
HDL-C (GLGC)	15	58712973	T	C
HDL-C (GLGC)	15	58716044	G	A
HDL-C (GLGC)	15	58716615	T	G
HDL-C (GLGC)	15	58717428	T	C
HDL-C (GLGC)	15	58718998	T	C
HDL-C (GLGC)	15	58719741	G	A
HDL-C (GLGC)	15	58720431	C	A
HDL-C (GLGC)	15	58721447	G	A
HDL-C (GLGC)	15	58721614	G	A
HDL-C (GLGC)	15	58723479	T	C
HDL-C (GLGC)	15	58723675	T	C
HDL-C (GLGC)	15	58723939	G	A
HDL-C (GLGC)	15	58724524	G	A
HDL-C (GLGC)	15	58724706	G	A
HDL-C (GLGC)	15	58727279	T	C
HDL-C (GLGC)	15	58727325	G	A
HDL-C (GLGC)	15	58729144	T	C
HDL-C (GLGC)	15	58731455	T	C
HDL-C (GLGC)	15	58731567	G	A
HDL-C (GLGC)	15	58734645	T	C
HDL-C (GLGC)	15	58738760	G	A
HDL-C (GLGC)	15	58740094	T	C
HDL-C (GLGC)	15	58742731	T	G
HDL-C (GLGC)	15	58743709	T	C
HDL-C (GLGC)	15	58751877	T	G
HDL-C (GLGC)	15	58853109	G	A
HDL-C (GLGC)	15	59010962	T	C
HDL-C (GLGC)	15	63348087	G	A
HDL-C (GLGC)	15	63366282	G	A
HDL-C (GLGC)	15	63367032	T	C
HDL-C (GLGC)	15	63379643	T	G
HDL-C (GLGC)	15	63396867	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
HDL-C (GLGC)	15	63400584	G	A
HDL-C (GLGC)	15	63402574	G	A
HDL-C (GLGC)	15	63413084	T	C
HDL-C (GLGC)	15	63425337	G	A
HDL-C (GLGC)	15	63426912	T	G
HDL-C (GLGC)	15	63433766	G	A
HDL-C (GLGC)	15	63434763	G	A
HDL-C (GLGC)	16	53800954	T	C
HDL-C (GLGC)	16	53804340	T	C
HDL-C (GLGC)	16	53812614	G	A
HDL-C (GLGC)	16	53815161	T	G
HDL-C (GLGC)	16	53818708	T	G
HDL-C (GLGC)	16	53828752	G	A
HDL-C (GLGC)	16	53830465	G	A
HDL-C (GLGC)	16	56387000	T	C
HDL-C (GLGC)	16	56490549	G	A
HDL-C (GLGC)	16	56626769	G	A
HDL-C (GLGC)	16	56671140	T	C
HDL-C (GLGC)	16	56690858	T	C
HDL-C (GLGC)	16	56722572	T	C
HDL-C (GLGC)	16	56735782	G	A
HDL-C (GLGC)	16	56742746	T	C
HDL-C (GLGC)	16	56765226	T	C
HDL-C (GLGC)	16	56793346	C	A
HDL-C (GLGC)	16	56811692	T	C
HDL-C (GLGC)	16	56815620	G	A
HDL-C (GLGC)	16	56824183	T	G
HDL-C (GLGC)	16	56846804	T	C
HDL-C (GLGC)	16	56868700	G	A
HDL-C (GLGC)	16	56873789	T	C
HDL-C (GLGC)	16	56873840	G	A
HDL-C (GLGC)	16	56880842	T	C
HDL-C (GLGC)	16	56883924	G	A
HDL-C (GLGC)	16	56900931	T	C
HDL-C (GLGC)	16	56905432	T	C
HDL-C (GLGC)	16	56912903	T	C
HDL-C (GLGC)	16	56926195	G	A
HDL-C (GLGC)	16	56928216	T	C
HDL-C (GLGC)	16	56933519	G	A
HDL-C (GLGC)	16	56936563	G	A
HDL-C (GLGC)	16	56938016	G	A
HDL-C (GLGC)	16	56938522	T	C
HDL-C (GLGC)	16	56940128	T	C
HDL-C (GLGC)	16	56942709	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
HDL-C (GLGC)	16	56945539	G	A
HDL-C (GLGC)	16	56945619	T	G
HDL-C (GLGC)	16	56948618	C	A
HDL-C (GLGC)	16	56964719	G	A
HDL-C (GLGC)	16	56965707	G	A
HDL-C (GLGC)	16	56968039	G	A
HDL-C (GLGC)	16	56969148	G	A
HDL-C (GLGC)	16	56984482	T	C
HDL-C (GLGC)	16	56984590	T	C
HDL-C (GLGC)	16	56984763	G	A
HDL-C (GLGC)	16	56985139	G	A
HDL-C (GLGC)	16	56985156	G	A
HDL-C (GLGC)	16	56985514	G	A
HDL-C (GLGC)	16	56985555	G	A
HDL-C (GLGC)	16	56987015	T	C
HDL-C (GLGC)	16	56987369	T	C
HDL-C (GLGC)	16	56988044	T	C
HDL-C (GLGC)	16	56989590	T	C
HDL-C (GLGC)	16	56990716	C	A
HDL-C (GLGC)	16	56991363	T	C
HDL-C (GLGC)	16	56991524	G	A
HDL-C (GLGC)	16	56992017	G	A
HDL-C (GLGC)	16	56993025	T	G
HDL-C (GLGC)	16	56993161	G	A
HDL-C (GLGC)	16	56993211	T	C
HDL-C (GLGC)	16	56993324	C	A
HDL-C (GLGC)	16	56993909	C	A
HDL-C (GLGC)	16	56993935	T	C
HDL-C (GLGC)	16	56994192	T	C
HDL-C (GLGC)	16	56994528	T	C
HDL-C (GLGC)	16	56994894	G	A
HDL-C (GLGC)	16	56995236	C	A
HDL-C (GLGC)	16	56996158	T	C
HDL-C (GLGC)	16	56997233	G	A
HDL-C (GLGC)	16	56999258	C	A
HDL-C (GLGC)	16	56999328	T	C
HDL-C (GLGC)	16	57000284	G	A
HDL-C (GLGC)	16	57000885	G	A
HDL-C (GLGC)	16	57000938	G	A
HDL-C (GLGC)	16	57002404	C	A
HDL-C (GLGC)	16	57002732	T	G
HDL-C (GLGC)	16	57003146	T	C
HDL-C (GLGC)	16	57004889	G	A
HDL-C (GLGC)	16	57005479	C	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
HDL-C (GLGC)	16	57005762	T	C
HDL-C (GLGC)	16	57006072	G	A
HDL-C (GLGC)	16	57006590	T	C
HDL-C (GLGC)	16	57007192	T	C
HDL-C (GLGC)	16	57007451	G	A
HDL-C (GLGC)	16	57011185	G	A
HDL-C (GLGC)	16	57014875	G	A
HDL-C (GLGC)	16	57016092	G	A
HDL-C (GLGC)	16	57017002	T	G
HDL-C (GLGC)	16	57017662	G	A
HDL-C (GLGC)	16	57019392	T	C
HDL-C (GLGC)	16	57019532	C	A
HDL-C (GLGC)	16	57021433	G	A
HDL-C (GLGC)	16	57024662	T	C
HDL-C (GLGC)	16	57025063	G	A
HDL-C (GLGC)	16	57026775	G	A
HDL-C (GLGC)	16	57031811	G	A
HDL-C (GLGC)	16	57032461	T	G
HDL-C (GLGC)	16	57034115	T	C
HDL-C (GLGC)	16	57034645	T	C
HDL-C (GLGC)	16	57042912	G	A
HDL-C (GLGC)	16	57048118	T	C
HDL-C (GLGC)	16	57048707	G	A
HDL-C (GLGC)	16	57050348	T	G
HDL-C (GLGC)	16	57052509	C	A
HDL-C (GLGC)	16	57052901	T	G
HDL-C (GLGC)	16	57060724	G	A
HDL-C (GLGC)	16	57061189	T	C
HDL-C (GLGC)	16	57065121	C	A
HDL-C (GLGC)	16	57065556	T	C
HDL-C (GLGC)	16	57072004	G	A
HDL-C (GLGC)	16	57074451	T	C
HDL-C (GLGC)	16	57075253	C	A
HDL-C (GLGC)	16	57080528	C	A
HDL-C (GLGC)	16	57083232	G	A
HDL-C (GLGC)	16	57116036	C	A
HDL-C (GLGC)	16	57141666	C	A
HDL-C (GLGC)	16	57154547	C	A
HDL-C (GLGC)	16	57353934	G	A
HDL-C (GLGC)	16	67081372	G	A
HDL-C (GLGC)	16	67144295	T	C
HDL-C (GLGC)	16	67144367	G	A
HDL-C (GLGC)	16	67187211	T	G
HDL-C (GLGC)	16	67207933	T	C

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
HDL-C (GLGC)	16	67241282	T	C
HDL-C (GLGC)	16	67305513	C	A
HDL-C (GLGC)	16	67358816	G	A
HDL-C (GLGC)	16	67390448	G	A
HDL-C (GLGC)	16	67398369	T	C
HDL-C (GLGC)	16	67419152	G	A
HDL-C (GLGC)	16	67555339	C	A
HDL-C (GLGC)	16	67605794	T	C
HDL-C (GLGC)	16	67627635	T	G
HDL-C (GLGC)	16	67635751	T	C
HDL-C (GLGC)	16	67642935	T	C
HDL-C (GLGC)	16	67651879	G	A
HDL-C (GLGC)	16	67671804	T	G
HDL-C (GLGC)	16	67677001	T	C
HDL-C (GLGC)	16	67682234	G	A
HDL-C (GLGC)	16	67699948	T	C
HDL-C (GLGC)	16	67708130	T	C
HDL-C (GLGC)	16	67708897	G	A
HDL-C (GLGC)	16	67758778	T	C
HDL-C (GLGC)	16	67796315	C	A
HDL-C (GLGC)	16	67801391	G	A
HDL-C (GLGC)	16	67827247	G	A
HDL-C (GLGC)	16	67833171	T	C
HDL-C (GLGC)	16	67863451	T	C
HDL-C (GLGC)	16	67898492	G	A
HDL-C (GLGC)	16	67902070	G	A
HDL-C (GLGC)	16	67925435	G	A
HDL-C (GLGC)	16	68012849	T	C
HDL-C (GLGC)	16	68013471	T	C
HDL-C (GLGC)	16	68021125	C	A
HDL-C (GLGC)	16	68024995	G	A
HDL-C (GLGC)	16	68057880	G	A
HDL-C (GLGC)	16	68068627	G	A
HDL-C (GLGC)	16	68074857	G	A
HDL-C (GLGC)	16	68104422	T	C
HDL-C (GLGC)	16	68106846	T	C
HDL-C (GLGC)	16	68128104	G	A
HDL-C (GLGC)	16	68181177	C	A
HDL-C (GLGC)	16	68190239	C	A
HDL-C (GLGC)	16	68206844	G	A
HDL-C (GLGC)	16	68218336	G	A
HDL-C (GLGC)	16	68225515	G	A
HDL-C (GLGC)	16	68270229	T	C
HDL-C (GLGC)	16	68280893	T	C

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
HDL-C (GLGC)	16	68286427	C	A
HDL-C (GLGC)	16	68289313	C	A
HDL-C (GLGC)	16	68290200	G	A
HDL-C (GLGC)	16	68295598	G	A
HDL-C (GLGC)	16	68297228	G	A
HDL-C (GLGC)	16	68299771	G	A
HDL-C (GLGC)	16	68301410	G	A
HDL-C (GLGC)	16	68307447	T	C
HDL-C (GLGC)	16	68310312	T	C
HDL-C (GLGC)	16	68321878	C	A
HDL-C (GLGC)	16	68323654	G	A
HDL-C (GLGC)	16	68344363	C	A
HDL-C (GLGC)	16	68369213	T	C
HDL-C (GLGC)	16	68393405	T	C
HDL-C (GLGC)	16	68409435	C	A
HDL-C (GLGC)	16	68423506	T	C
HDL-C (GLGC)	16	68428326	G	A
HDL-C (GLGC)	16	81519766	G	A
HDL-C (GLGC)	16	81524274	C	A
HDL-C (GLGC)	16	81534790	T	C
HDL-C (GLGC)	16	81549708	T	C
HDL-C (GLGC)	17	37389409	G	A
HDL-C (GLGC)	17	37409801	G	A
HDL-C (GLGC)	17	37425238	T	G
HDL-C (GLGC)	17	37430519	T	C
HDL-C (GLGC)	17	37447218	T	C
HDL-C (GLGC)	17	37499949	T	C
HDL-C (GLGC)	17	37561613	G	A
HDL-C (GLGC)	17	37573065	C	A
HDL-C (GLGC)	17	37609120	G	A
HDL-C (GLGC)	17	37631924	G	A
HDL-C (GLGC)	17	37682657	G	A
HDL-C (GLGC)	17	37709782	G	A
HDL-C (GLGC)	17	37715551	T	G
HDL-C (GLGC)	17	37722515	G	A
HDL-C (GLGC)	17	37727950	T	C
HDL-C (GLGC)	17	37745979	G	A
HDL-C (GLGC)	17	37767453	G	A
HDL-C (GLGC)	17	37770005	T	C
HDL-C (GLGC)	17	37781849	G	A
HDL-C (GLGC)	17	37784990	G	A
HDL-C (GLGC)	17	37790939	T	C
HDL-C (GLGC)	17	37807698	C	A
HDL-C (GLGC)	17	37814080	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
HDL-C (GLGC)	17	37824545	G	A
HDL-C (GLGC)	17	37828745	G	A
HDL-C (GLGC)	17	37831613	G	A
HDL-C (GLGC)	17	37832279	T	C
HDL-C (GLGC)	17	37834357	C	A
HDL-C (GLGC)	17	37836581	G	A
HDL-C (GLGC)	17	37858678	G	A
HDL-C (GLGC)	17	37863708	T	C
HDL-C (GLGC)	17	37866005	T	C
HDL-C (GLGC)	17	37922259	G	A
HDL-C (GLGC)	17	37949924	G	A
HDL-C (GLGC)	17	37970149	G	A
HDL-C (GLGC)	17	37985801	G	A
HDL-C (GLGC)	17	38035116	G	A
HDL-C (GLGC)	17	38066240	T	C
HDL-C (GLGC)	17	38069949	T	C
HDL-C (GLGC)	17	38080865	G	A
HDL-C (GLGC)	17	38121993	G	A
HDL-C (GLGC)	17	38122680	T	G
HDL-C (GLGC)	17	41930569	G	A
HDL-C (GLGC)	17	41978756	T	G
HDL-C (GLGC)	17	45010721	G	A
HDL-C (GLGC)	17	66833954	G	A
HDL-C (GLGC)	17	66857775	G	A
HDL-C (GLGC)	17	66869321	G	A
HDL-C (GLGC)	17	66895188	T	C
HDL-C (GLGC)	17	66895479	T	G
HDL-C (GLGC)	17	66898257	C	A
HDL-C (GLGC)	17	66899290	G	A
HDL-C (GLGC)	17	66901215	T	G
HDL-C (GLGC)	17	66903293	G	A
HDL-C (GLGC)	17	76391454	T	G
HDL-C (GLGC)	17	76392144	G	A
HDL-C (GLGC)	17	76395430	T	C
HDL-C (GLGC)	17	76403984	G	A
HDL-C (GLGC)	17	76409809	G	A
HDL-C (GLGC)	18	46972438	G	A
HDL-C (GLGC)	18	47029576	G	A
HDL-C (GLGC)	18	47033207	T	C
HDL-C (GLGC)	18	47045445	C	A
HDL-C (GLGC)	18	47049032	G	A
HDL-C (GLGC)	18	47062054	T	G
HDL-C (GLGC)	18	47074869	G	A
HDL-C (GLGC)	18	47075308	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
HDL-C (GLGC)	18	47076063	C	A
HDL-C (GLGC)	18	47086932	T	C
HDL-C (GLGC)	18	47093790	T	C
HDL-C (GLGC)	18	47093864	T	C
HDL-C (GLGC)	18	47097398	G	A
HDL-C (GLGC)	18	47099186	G	A
HDL-C (GLGC)	18	47102102	G	A
HDL-C (GLGC)	18	47118398	T	C
HDL-C (GLGC)	18	47123763	T	C
HDL-C (GLGC)	18	47126133	T	C
HDL-C (GLGC)	18	47128779	T	C
HDL-C (GLGC)	18	47131684	T	C
HDL-C (GLGC)	18	47131888	C	A
HDL-C (GLGC)	18	47132464	T	C
HDL-C (GLGC)	18	47133828	G	A
HDL-C (GLGC)	18	47135834	T	C
HDL-C (GLGC)	18	47137027	T	C
HDL-C (GLGC)	18	47142243	G	A
HDL-C (GLGC)	18	47145202	G	A
HDL-C (GLGC)	18	47145717	G	A
HDL-C (GLGC)	18	47146125	G	A
HDL-C (GLGC)	18	47146166	T	C
HDL-C (GLGC)	18	47147746	G	A
HDL-C (GLGC)	18	47148299	T	C
HDL-C (GLGC)	18	47148886	T	C
HDL-C (GLGC)	18	47149023	T	C
HDL-C (GLGC)	18	47149371	G	A
HDL-C (GLGC)	18	47151264	G	A
HDL-C (GLGC)	18	47153264	C	A
HDL-C (GLGC)	18	47154779	T	C
HDL-C (GLGC)	18	47156433	T	C
HDL-C (GLGC)	18	47156730	G	A
HDL-C (GLGC)	18	47157439	T	C
HDL-C (GLGC)	18	47158186	T	C
HDL-C (GLGC)	18	47159090	G	A
HDL-C (GLGC)	18	47159857	G	A
HDL-C (GLGC)	18	47160814	G	A
HDL-C (GLGC)	18	47160953	T	G
HDL-C (GLGC)	18	47161225	T	C
HDL-C (GLGC)	18	47161628	G	A
HDL-C (GLGC)	18	47161733	T	C
HDL-C (GLGC)	18	47162207	G	A
HDL-C (GLGC)	18	47164926	T	C
HDL-C (GLGC)	18	47166694	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
HDL-C (GLGC)	18	47167506	T	G
HDL-C (GLGC)	18	47169333	G	A
HDL-C (GLGC)	18	47172730	T	C
HDL-C (GLGC)	18	47175467	T	C
HDL-C (GLGC)	18	47175670	C	A
HDL-C (GLGC)	18	47176261	C	A
HDL-C (GLGC)	18	47176911	G	A
HDL-C (GLGC)	18	47176917	T	C
HDL-C (GLGC)	18	47177608	C	A
HDL-C (GLGC)	18	47179516	G	A
HDL-C (GLGC)	18	47181568	G	A
HDL-C (GLGC)	18	47182569	G	A
HDL-C (GLGC)	18	47182838	G	A
HDL-C (GLGC)	18	47183794	G	A
HDL-C (GLGC)	18	47184684	G	A
HDL-C (GLGC)	18	47189138	G	A
HDL-C (GLGC)	18	47192294	C	A
HDL-C (GLGC)	18	47203955	G	A
HDL-C (GLGC)	18	47205432	G	A
HDL-C (GLGC)	18	47206583	T	C
HDL-C (GLGC)	18	47209971	G	A
HDL-C (GLGC)	18	47213682	G	A
HDL-C (GLGC)	18	47243912	C	A
HDL-C (GLGC)	18	47249297	G	A
HDL-C (GLGC)	18	47261744	C	A
HDL-C (GLGC)	18	47266045	C	A
HDL-C (GLGC)	18	47275339	T	C
HDL-C (GLGC)	18	47278147	T	C
HDL-C (GLGC)	18	47280410	T	C
HDL-C (GLGC)	18	47288632	C	A
HDL-C (GLGC)	18	47295988	T	G
HDL-C (GLGC)	18	47385799	G	A
HDL-C (GLGC)	18	47394395	C	A
HDL-C (GLGC)	18	47394538	T	C
HDL-C (GLGC)	18	47400116	T	C
HDL-C (GLGC)	18	47404743	T	C
HDL-C (GLGC)	18	47430194	T	C
HDL-C (GLGC)	18	47457559	T	C
HDL-C (GLGC)	18	47464423	T	C
HDL-C (GLGC)	18	47482530	T	C
HDL-C (GLGC)	18	57739179	T	G
HDL-C (GLGC)	18	57787559	T	C
HDL-C (GLGC)	18	57811982	G	A
HDL-C (GLGC)	18	57851097	T	C

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
HDL-C (GLGC)	18	57897803	T	C
HDL-C (GLGC)	18	57922526	C	A
HDL-C (GLGC)	19	11334179	T	C
HDL-C (GLGC)	19	11346550	T	C
HDL-C (GLGC)	19	11347493	T	C
HDL-C (GLGC)	19	11347657	T	C
HDL-C (GLGC)	19	33899065	G	A
HDL-C (GLGC)	19	33906123	T	C
HDL-C (GLGC)	19	33909710	T	G
HDL-C (GLGC)	19	45242173	G	A
HDL-C (GLGC)	19	45247627	G	A
HDL-C (GLGC)	19	45329214	T	G
HDL-C (GLGC)	19	45333834	T	C
HDL-C (GLGC)	19	45392254	T	C
HDL-C (GLGC)	19	45395266	G	A
HDL-C (GLGC)	19	45395619	G	A
HDL-C (GLGC)	19	45403216	T	C
HDL-C (GLGC)	19	45410002	G	A
HDL-C (GLGC)	19	45412079	T	C
HDL-C (GLGC)	19	45414451	T	C
HDL-C (GLGC)	19	45415640	G	A
HDL-C (GLGC)	19	45422846	G	A
HDL-C (GLGC)	19	45422946	G	A
HDL-C (GLGC)	19	45443504	G	A
HDL-C (GLGC)	19	45448036	T	C
HDL-C (GLGC)	19	45448465	T	G
HDL-C (GLGC)	19	45453144	T	C
HDL-C (GLGC)	19	45453239	G	A
HDL-C (GLGC)	19	45458146	C	A
HDL-C (GLGC)	19	47589895	T	C
HDL-C (GLGC)	19	52323088	G	A
HDL-C (GLGC)	19	52324216	G	A
HDL-C (GLGC)	19	52327784	T	C
HDL-C (GLGC)	19	52550401	T	G
HDL-C (GLGC)	19	54762408	T	C
HDL-C (GLGC)	19	54779101	T	C
HDL-C (GLGC)	19	54779455	T	C
HDL-C (GLGC)	19	54784130	T	C
HDL-C (GLGC)	19	54785593	G	A
HDL-C (GLGC)	19	54793048	C	A
HDL-C (GLGC)	19	54793188	G	A
HDL-C (GLGC)	19	54795299	T	C
HDL-C (GLGC)	19	54796630	G	A
HDL-C (GLGC)	19	54800225	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
HDL-C (GLGC)	19	54800371	T	C
HDL-C (GLGC)	19	54810370	G	A
HDL-C (GLGC)	19	54813762	T	C
HDL-C (GLGC)	19	54827040	C	A
HDL-C (GLGC)	19	54827480	T	G
HDL-C (GLGC)	19	54835771	T	C
HDL-C (GLGC)	19	54837165	G	A
HDL-C (GLGC)	19	7970635	G	A
HDL-C (GLGC)	19	8433196	C	A
HDL-C (GLGC)	19	8441779	T	C
HDL-C (GLGC)	19	8453822	T	C
HDL-C (GLGC)	19	8468337	T	C
HDL-C (GLGC)	19	8469738	T	C
HDL-C (GLGC)	19	8503025	G	A
HDL-C (GLGC)	19	8586086	C	A
HDL-C (GLGC)	19	8610313	G	A
HDL-C (GLGC)	19	8615589	G	A
HDL-C (GLGC)	1	109814880	T	C
HDL-C (GLGC)	1	109815252	G	A
HDL-C (GLGC)	1	109817192	G	A
HDL-C (GLGC)	1	109818306	T	G
HDL-C (GLGC)	1	109821307	T	G
HDL-C (GLGC)	1	109822166	G	A
HDL-C (GLGC)	1	110470764	G	A
HDL-C (GLGC)	1	110478911	G	A
HDL-C (GLGC)	1	110499669	G	A
HDL-C (GLGC)	1	110500175	T	C
HDL-C (GLGC)	1	156700651	T	G
HDL-C (GLGC)	1	178515312	G	A
HDL-C (GLGC)	1	182054977	T	C
HDL-C (GLGC)	1	182058556	G	A
HDL-C (GLGC)	1	182117324	G	A
HDL-C (GLGC)	1	182119332	G	A
HDL-C (GLGC)	1	182121598	G	A
HDL-C (GLGC)	1	182161829	T	C
HDL-C (GLGC)	1	182168885	G	A
HDL-C (GLGC)	1	182200659	T	C
HDL-C (GLGC)	1	220970028	G	A
HDL-C (GLGC)	1	220970593	T	G
HDL-C (GLGC)	1	230278826	G	A
HDL-C (GLGC)	1	230281068	G	A
HDL-C (GLGC)	1	230281698	G	A
HDL-C (GLGC)	1	230283764	G	A
HDL-C (GLGC)	1	230285056	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
HDL-C (GLGC)	1	230287128	T	G
HDL-C (GLGC)	1	230290254	G	A
HDL-C (GLGC)	1	230292499	T	C
HDL-C (GLGC)	1	230295691	G	A
HDL-C (GLGC)	1	230300586	T	C
HDL-C (GLGC)	1	230301811	T	G
HDL-C (GLGC)	1	230304988	G	A
HDL-C (GLGC)	1	230307222	T	G
HDL-C (GLGC)	1	230309619	G	A
HDL-C (GLGC)	1	230321019	T	C
HDL-C (GLGC)	1	230324067	T	G
HDL-C (GLGC)	1	230324364	T	C
HDL-C (GLGC)	1	230324801	G	A
HDL-C (GLGC)	1	230389838	T	G
HDL-C (GLGC)	1	230398102	G	A
HDL-C (GLGC)	1	230419344	G	A
HDL-C (GLGC)	1	230427840	G	A
HDL-C (GLGC)	1	26900708	G	A
HDL-C (GLGC)	1	26902388	T	G
HDL-C (GLGC)	1	27013133	G	A
HDL-C (GLGC)	1	27138393	T	C
HDL-C (GLGC)	1	27230033	G	A
HDL-C (GLGC)	1	27236212	T	C
HDL-C (GLGC)	1	27248645	G	A
HDL-C (GLGC)	1	39550621	T	C
HDL-C (GLGC)	1	39569571	T	C
HDL-C (GLGC)	1	39583686	T	C
HDL-C (GLGC)	1	39719519	T	C
HDL-C (GLGC)	1	39730172	G	A
HDL-C (GLGC)	1	39797055	G	A
HDL-C (GLGC)	1	39826005	G	A
HDL-C (GLGC)	1	39908506	G	A
HDL-C (GLGC)	1	39945297	T	C
HDL-C (GLGC)	1	39950080	T	C
HDL-C (GLGC)	1	39961999	G	A
HDL-C (GLGC)	1	40018509	T	C
HDL-C (GLGC)	1	40028180	G	A
HDL-C (GLGC)	1	40037902	G	A
HDL-C (GLGC)	1	40064961	G	A
HDL-C (GLGC)	1	40069939	G	A
HDL-C (GLGC)	1	93620393	G	A
HDL-C (GLGC)	1	93724924	G	A
HDL-C (GLGC)	1	93761896	G	A
HDL-C (GLGC)	1	93816400	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
HDL-C (GLGC)	1	93817946	G	A
HDL-C (GLGC)	20	33175466	T	C
HDL-C (GLGC)	20	33409350	G	A
HDL-C (GLGC)	20	33529766	T	G
HDL-C (GLGC)	20	33777983	G	A
HDL-C (GLGC)	20	43038249	T	C
HDL-C (GLGC)	20	43042364	T	C
HDL-C (GLGC)	20	44427418	G	A
HDL-C (GLGC)	20	44496029	C	A
HDL-C (GLGC)	20	44532255	G	A
HDL-C (GLGC)	20	44534651	G	A
HDL-C (GLGC)	20	44536932	G	A
HDL-C (GLGC)	20	44545048	T	C
HDL-C (GLGC)	20	44547068	G	A
HDL-C (GLGC)	20	44564682	G	A
HDL-C (GLGC)	20	44576502	T	C
HDL-C (GLGC)	20	44586036	G	A
HDL-C (GLGC)	20	44592364	T	C
HDL-C (GLGC)	20	44594228	G	A
HDL-C (GLGC)	20	44604822	G	A
HDL-C (GLGC)	20	44607601	G	A
HDL-C (GLGC)	20	44615001	T	C
HDL-C (GLGC)	20	44630804	G	A
HDL-C (GLGC)	20	44633111	T	C
HDL-C (GLGC)	20	44643111	G	A
HDL-C (GLGC)	20	44643592	G	A
HDL-C (GLGC)	20	44644965	G	A
HDL-C (GLGC)	20	44714510	G	A
HDL-C (GLGC)	20	44734371	G	A
HDL-C (GLGC)	22	21910280	T	C
HDL-C (GLGC)	22	21968221	G	A
HDL-C (GLGC)	22	21979096	T	C
HDL-C (GLGC)	22	21982892	T	C
HDL-C (GLGC)	22	21985094	G	A
HDL-C (GLGC)	2	165508300	T	C
HDL-C (GLGC)	2	165508389	T	C
HDL-C (GLGC)	2	165509579	G	A
HDL-C (GLGC)	2	165513091	T	C
HDL-C (GLGC)	2	165528876	T	C
HDL-C (GLGC)	2	165539661	T	C
HDL-C (GLGC)	2	165540800	T	C
HDL-C (GLGC)	2	165543199	G	A
HDL-C (GLGC)	2	165545615	T	C
HDL-C (GLGC)	2	165548569	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
HDL-C (GLGC)	2	165557318	T	C
HDL-C (GLGC)	2	165558252	T	C
HDL-C (GLGC)	2	165602181	G	A
HDL-C (GLGC)	2	165611362	G	A
HDL-C (GLGC)	2	165623322	T	G
HDL-C (GLGC)	2	165625830	T	C
HDL-C (GLGC)	2	165630201	C	A
HDL-C (GLGC)	2	165634551	G	A
HDL-C (GLGC)	2	165638070	T	C
HDL-C (GLGC)	2	165642448	G	A
HDL-C (GLGC)	2	165644545	T	C
HDL-C (GLGC)	2	21112689	G	A
HDL-C (GLGC)	2	21118983	C	A
HDL-C (GLGC)	2	21121464	T	C
HDL-C (GLGC)	2	21123352	C	A
HDL-C (GLGC)	2	21134040	C	A
HDL-C (GLGC)	2	21135577	G	A
HDL-C (GLGC)	2	21135628	T	C
HDL-C (GLGC)	2	21136327	T	C
HDL-C (GLGC)	2	21138066	T	C
HDL-C (GLGC)	2	21138740	T	G
HDL-C (GLGC)	2	21140540	T	C
HDL-C (GLGC)	2	21141832	C	A
HDL-C (GLGC)	2	21142994	T	C
HDL-C (GLGC)	2	21144829	T	G
HDL-C (GLGC)	2	21145499	G	A
HDL-C (GLGC)	2	21148274	C	A
HDL-C (GLGC)	2	211540507	C	A
HDL-C (GLGC)	2	21184764	G	A
HDL-C (GLGC)	2	21186121	C	A
HDL-C (GLGC)	2	21187641	T	C
HDL-C (GLGC)	2	21188488	T	C
HDL-C (GLGC)	2	21190024	T	C
HDL-C (GLGC)	2	21190209	T	C
HDL-C (GLGC)	2	21193946	G	A
HDL-C (GLGC)	2	21198900	G	A
HDL-C (GLGC)	2	21205563	G	A
HDL-C (GLGC)	2	21208211	G	A
HDL-C (GLGC)	2	21212571	T	G
HDL-C (GLGC)	2	21217490	T	C
HDL-C (GLGC)	2	21224853	T	C
HDL-C (GLGC)	2	21232195	G	A
HDL-C (GLGC)	2	21233972	T	C
HDL-C (GLGC)	2	21240031	C	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
HDL-C (GLGC)	2	21240364	G	A
HDL-C (GLGC)	2	21244000	T	G
HDL-C (GLGC)	2	21244358	T	G
HDL-C (GLGC)	2	21245329	T	G
HDL-C (GLGC)	2	21245813	G	A
HDL-C (GLGC)	2	21250914	G	A
HDL-C (GLGC)	2	21259562	T	C
HDL-C (GLGC)	2	21259612	G	A
HDL-C (GLGC)	2	21262427	G	A
HDL-C (GLGC)	2	21263900	G	A
HDL-C (GLGC)	2	21278773	T	G
HDL-C (GLGC)	2	21311691	G	A
HDL-C (GLGC)	2	21321158	G	A
HDL-C (GLGC)	2	21323369	G	A
HDL-C (GLGC)	2	21371068	T	C
HDL-C (GLGC)	2	21389659	T	G
HDL-C (GLGC)	2	227019461	T	C
HDL-C (GLGC)	2	227020653	G	A
HDL-C (GLGC)	2	227020853	G	A
HDL-C (GLGC)	2	227034499	G	A
HDL-C (GLGC)	2	227046342	T	C
HDL-C (GLGC)	2	227052396	C	A
HDL-C (GLGC)	2	227066471	T	C
HDL-C (GLGC)	2	227066574	C	A
HDL-C (GLGC)	2	227068080	C	A
HDL-C (GLGC)	2	227069522	T	C
HDL-C (GLGC)	2	227088577	C	A
HDL-C (GLGC)	2	227098387	G	A
HDL-C (GLGC)	2	227105921	T	C
HDL-C (GLGC)	2	227113202	T	C
HDL-C (GLGC)	2	227123439	T	C
HDL-C (GLGC)	2	227156662	T	C
HDL-C (GLGC)	2	227156730	T	C
HDL-C (GLGC)	2	227177236	C	A
HDL-C (GLGC)	2	85546932	C	A
HDL-C (GLGC)	2	85549527	T	C
HDL-C (GLGC)	2	85552186	C	A
HDL-C (GLGC)	3	11400249	T	C
HDL-C (GLGC)	3	119786887	C	A
HDL-C (GLGC)	3	12448994	T	C
HDL-C (GLGC)	3	131751775	C	A
HDL-C (GLGC)	3	135926622	T	G
HDL-C (GLGC)	3	135932359	T	C
HDL-C (GLGC)	3	136069472	T	G

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
HDL-C (GLGC)	3	156797648	T	C
HDL-C (GLGC)	3	156798732	G	A
HDL-C (GLGC)	3	47061183	G	A
HDL-C (GLGC)	3	49898273	G	A
HDL-C (GLGC)	3	49971514	C	A
HDL-C (GLGC)	3	50002245	T	C
HDL-C (GLGC)	3	50172397	T	C
HDL-C (GLGC)	3	50174197	T	G
HDL-C (GLGC)	3	50240338	T	C
HDL-C (GLGC)	3	52431671	G	A
HDL-C (GLGC)	3	52491447	C	A
HDL-C (GLGC)	3	52492707	T	C
HDL-C (GLGC)	3	52506426	T	C
HDL-C (GLGC)	3	52532118	G	A
HDL-C (GLGC)	3	52677478	G	A
HDL-C (GLGC)	3	52844534	T	C
HDL-C (GLGC)	3	52877270	G	A
HDL-C (GLGC)	3	53102389	G	A
HDL-C (GLGC)	3	53118739	T	C
HDL-C (GLGC)	3	53125922	T	C
HDL-C (GLGC)	4	100014805	G	A
HDL-C (GLGC)	4	102707791	G	A
HDL-C (GLGC)	4	103144890	G	A
HDL-C (GLGC)	4	103183510	T	C
HDL-C (GLGC)	4	103188709	T	C
HDL-C (GLGC)	4	103212512	T	C
HDL-C (GLGC)	4	103363860	G	A
HDL-C (GLGC)	4	103373286	G	A
HDL-C (GLGC)	4	157670537	T	C
HDL-C (GLGC)	4	157734675	G	A
HDL-C (GLGC)	4	26027797	T	C
HDL-C (GLGC)	4	26062990	G	A
HDL-C (GLGC)	4	87769929	T	C
HDL-C (GLGC)	4	87976387	G	A
HDL-C (GLGC)	4	87985166	T	C
HDL-C (GLGC)	4	87990334	T	G
HDL-C (GLGC)	4	87999483	G	A
HDL-C (GLGC)	4	88008782	G	A
HDL-C (GLGC)	4	88053085	T	C
HDL-C (GLGC)	4	88057353	G	A
HDL-C (GLGC)	4	89726283	C	A
HDL-C (GLGC)	4	89740128	G	A
HDL-C (GLGC)	4	89742179	T	C
HDL-C (GLGC)	5	53299435	T	C

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
HDL-C (GLGC)	5	53300662	G	A
HDL-C (GLGC)	5	53303595	T	C
HDL-C (GLGC)	5	53304620	T	G
HDL-C (GLGC)	5	55796319	T	C
HDL-C (GLGC)	5	55803533	G	A
HDL-C (GLGC)	5	55806751	G	A
HDL-C (GLGC)	5	55816888	T	C
HDL-C (GLGC)	5	55856375	T	G
HDL-C (GLGC)	5	55860866	T	G
HDL-C (GLGC)	5	55861786	T	C
HDL-C (GLGC)	5	67714246	G	A
HDL-C (GLGC)	6	109574095	G	A
HDL-C (GLGC)	6	127398595	C	A
HDL-C (GLGC)	6	127409882	T	C
HDL-C (GLGC)	6	127414801	T	C
HDL-C (GLGC)	6	127421733	T	C
HDL-C (GLGC)	6	127431488	G	A
HDL-C (GLGC)	6	127432657	G	A
HDL-C (GLGC)	6	127436064	T	C
HDL-C (GLGC)	6	127436313	G	A
HDL-C (GLGC)	6	127451665	T	C
HDL-C (GLGC)	6	127455138	T	C
HDL-C (GLGC)	6	127457260	G	A
HDL-C (GLGC)	6	127471533	T	C
HDL-C (GLGC)	6	127476516	G	A
HDL-C (GLGC)	6	127481154	C	A
HDL-C (GLGC)	6	127496512	G	A
HDL-C (GLGC)	6	139829666	T	C
HDL-C (GLGC)	6	139831180	G	A
HDL-C (GLGC)	6	139838419	C	A
HDL-C (GLGC)	6	139839423	C	A
HDL-C (GLGC)	6	139840693	C	A
HDL-C (GLGC)	6	139843583	T	C
HDL-C (GLGC)	6	139843787	G	A
HDL-C (GLGC)	6	139844429	G	A
HDL-C (GLGC)	6	152039964	T	C
HDL-C (GLGC)	6	152040291	T	C
HDL-C (GLGC)	6	152042260	C	A
HDL-C (GLGC)	6	160737122	G	A
HDL-C (GLGC)	6	160929904	G	A
HDL-C (GLGC)	6	161082461	T	C
HDL-C (GLGC)	6	25905111	G	A
HDL-C (GLGC)	6	25918855	G	A
HDL-C (GLGC)	6	31081434	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
HDL-C (GLGC)	6	31100869	G	A
HDL-C (GLGC)	6	31100942	G	A
HDL-C (GLGC)	6	31105413	G	A
HDL-C (GLGC)	6	31331829	T	C
HDL-C (GLGC)	6	31352631	G	A
HDL-C (GLGC)	6	31353593	G	A
HDL-C (GLGC)	6	31362930	T	C
HDL-C (GLGC)	6	31380449	T	C
HDL-C (GLGC)	6	31388214	G	A
HDL-C (GLGC)	6	31601843	T	C
HDL-C (GLGC)	6	31603770	G	A
HDL-C (GLGC)	6	32189841	T	G
HDL-C (GLGC)	6	32363215	T	C
HDL-C (GLGC)	6	32380262	G	A
HDL-C (GLGC)	6	32389648	G	A
HDL-C (GLGC)	6	32408842	G	A
HDL-C (GLGC)	6	32433167	T	G
HDL-C (GLGC)	6	32444198	T	G
HDL-C (GLGC)	6	32575983	G	A
HDL-C (GLGC)	6	32664458	T	C
HDL-C (GLGC)	6	32669373	T	C
HDL-C (GLGC)	6	32678999	G	A
HDL-C (GLGC)	6	32681631	T	C
HDL-C (GLGC)	6	34482498	G	A
HDL-C (GLGC)	6	34503338	G	A
HDL-C (GLGC)	6	34546560	T	C
HDL-C (GLGC)	6	34618893	G	A
HDL-C (GLGC)	6	34622676	G	A
HDL-C (GLGC)	6	34715341	T	C
HDL-C (GLGC)	6	34726838	G	A
HDL-C (GLGC)	6	34727031	G	A
HDL-C (GLGC)	6	34739726	T	G
HDL-C (GLGC)	6	34739932	G	A
HDL-C (GLGC)	6	34764443	G	A
HDL-C (GLGC)	6	34807894	T	G
HDL-C (GLGC)	6	34824636	G	A
HDL-C (GLGC)	6	35057331	G	A
HDL-C (GLGC)	6	35133074	G	A
HDL-C (GLGC)	6	35162141	T	C
HDL-C (GLGC)	6	43757896	C	A
HDL-C (GLGC)	6	43758873	G	A
HDL-C (GLGC)	6	43764551	T	C
HDL-C (GLGC)	7	1083777	G	A
HDL-C (GLGC)	7	130433944	C	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
HDL-C (GLGC)	7	130437476	G	A
HDL-C (GLGC)	7	130437689	G	A
HDL-C (GLGC)	7	130445981	T	C
HDL-C (GLGC)	7	130453382	G	A
HDL-C (GLGC)	7	130466091	G	A
HDL-C (GLGC)	7	130466854	G	A
HDL-C (GLGC)	7	130468190	T	C
HDL-C (GLGC)	7	150307167	G	A
HDL-C (GLGC)	7	150529449	T	C
HDL-C (GLGC)	7	17823624	T	C
HDL-C (GLGC)	7	17908546	T	C
HDL-C (GLGC)	7	17911038	T	C
HDL-C (GLGC)	7	18016544	T	G
HDL-C (GLGC)	7	50305863	T	G
HDL-C (GLGC)	7	6396719	G	A
HDL-C (GLGC)	7	6434904	G	A
HDL-C (GLGC)	7	6474073	T	C
HDL-C (GLGC)	7	72856269	G	A
HDL-C (GLGC)	7	72856430	T	C
HDL-C (GLGC)	7	72878645	G	A
HDL-C (GLGC)	7	72885810	G	A
HDL-C (GLGC)	7	72911843	T	C
HDL-C (GLGC)	7	73017005	G	A
HDL-C (GLGC)	7	73026378	T	C
HDL-C (GLGC)	7	73035857	T	C
HDL-C (GLGC)	7	73037366	G	A
HDL-C (GLGC)	7	73042085	T	C
HDL-C (GLGC)	7	73058017	G	A
HDL-C (GLGC)	8	10641965	G	A
HDL-C (GLGC)	8	10643164	T	C
HDL-C (GLGC)	8	10671260	G	A
HDL-C (GLGC)	8	10678089	C	A
HDL-C (GLGC)	8	10683325	C	A
HDL-C (GLGC)	8	10685586	T	G
HDL-C (GLGC)	8	116452340	T	C
HDL-C (GLGC)	8	116464988	T	C
HDL-C (GLGC)	8	116480753	G	A
HDL-C (GLGC)	8	116575459	G	A
HDL-C (GLGC)	8	116599199	T	G
HDL-C (GLGC)	8	116628403	T	C
HDL-C (GLGC)	8	116645056	T	C
HDL-C (GLGC)	8	121868551	T	G
HDL-C (GLGC)	8	121875083	G	A
HDL-C (GLGC)	8	126474306	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
HDL-C (GLGC)	8	126474356	G	A
HDL-C (GLGC)	8	126474405	T	G
HDL-C (GLGC)	8	126479315	G	A
HDL-C (GLGC)	8	126480367	T	C
HDL-C (GLGC)	8	126480526	T	C
HDL-C (GLGC)	8	126481952	G	A
HDL-C (GLGC)	8	126486409	G	A
HDL-C (GLGC)	8	126488235	T	C
HDL-C (GLGC)	8	126491304	T	C
HDL-C (GLGC)	8	126493392	G	A
HDL-C (GLGC)	8	126493746	G	A
HDL-C (GLGC)	8	126501177	T	C
HDL-C (GLGC)	8	126514676	T	C
HDL-C (GLGC)	8	126516988	T	C
HDL-C (GLGC)	8	126523523	T	C
HDL-C (GLGC)	8	126644200	T	G
HDL-C (GLGC)	8	144245875	G	A
HDL-C (GLGC)	8	144284709	T	C
HDL-C (GLGC)	8	144303418	G	A
HDL-C (GLGC)	8	19514934	T	C
HDL-C (GLGC)	8	19555762	T	C
HDL-C (GLGC)	8	19576448	T	C
HDL-C (GLGC)	8	19577267	G	A
HDL-C (GLGC)	8	19605966	G	A
HDL-C (GLGC)	8	19626120	T	C
HDL-C (GLGC)	8	19632090	T	G
HDL-C (GLGC)	8	19639509	T	C
HDL-C (GLGC)	8	19650333	T	C
HDL-C (GLGC)	8	19662458	G	A
HDL-C (GLGC)	8	19710468	T	C
HDL-C (GLGC)	8	19712564	T	C
HDL-C (GLGC)	8	19715236	G	A
HDL-C (GLGC)	8	19717091	G	A
HDL-C (GLGC)	8	19720833	T	C
HDL-C (GLGC)	8	19726130	G	A
HDL-C (GLGC)	8	19727047	T	C
HDL-C (GLGC)	8	19728815	T	G
HDL-C (GLGC)	8	19734951	G	A
HDL-C (GLGC)	8	19738260	G	A
HDL-C (GLGC)	8	19738812	T	G
HDL-C (GLGC)	8	19739243	T	G
HDL-C (GLGC)	8	19748448	T	C
HDL-C (GLGC)	8	19748856	T	C
HDL-C (GLGC)	8	19749287	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
HDL-C (GLGC)	8	19749390	T	C
HDL-C (GLGC)	8	19751939	T	C
HDL-C (GLGC)	8	19755626	C	A
HDL-C (GLGC)	8	19755977	T	G
HDL-C (GLGC)	8	19756813	T	C
HDL-C (GLGC)	8	19757300	T	C
HDL-C (GLGC)	8	19757319	G	A
HDL-C (GLGC)	8	19762054	T	G
HDL-C (GLGC)	8	19762816	C	A
HDL-C (GLGC)	8	19774890	C	A
HDL-C (GLGC)	8	19782715	G	A
HDL-C (GLGC)	8	19783362	C	A
HDL-C (GLGC)	8	19786891	T	C
HDL-C (GLGC)	8	19797916	T	G
HDL-C (GLGC)	8	19799641	T	G
HDL-C (GLGC)	8	19805708	G	A
HDL-C (GLGC)	8	19808030	G	A
HDL-C (GLGC)	8	19810787	C	A
HDL-C (GLGC)	8	19811417	T	C
HDL-C (GLGC)	8	19811901	T	C
HDL-C (GLGC)	8	19812812	T	C
HDL-C (GLGC)	8	19813180	G	A
HDL-C (GLGC)	8	19813667	T	G
HDL-C (GLGC)	8	19813702	G	A
HDL-C (GLGC)	8	19814289	T	C
HDL-C (GLGC)	8	19815098	T	C
HDL-C (GLGC)	8	19815189	T	C
HDL-C (GLGC)	8	19816371	T	C
HDL-C (GLGC)	8	19816934	T	C
HDL-C (GLGC)	8	19818042	G	A
HDL-C (GLGC)	8	19818436	C	A
HDL-C (GLGC)	8	19819439	G	A
HDL-C (GLGC)	8	19820396	G	A
HDL-C (GLGC)	8	19823192	T	C
HDL-C (GLGC)	8	19824669	C	A
HDL-C (GLGC)	8	19824896	T	G
HDL-C (GLGC)	8	19826373	G	A
HDL-C (GLGC)	8	19830170	T	G
HDL-C (GLGC)	8	19830766	T	C
HDL-C (GLGC)	8	19830921	T	C
HDL-C (GLGC)	8	19838469	T	C
HDL-C (GLGC)	8	19843137	C	A
HDL-C (GLGC)	8	19843462	C	A
HDL-C (GLGC)	8	19847060	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
HDL-C (GLGC)	8	19847259	T	C
HDL-C (GLGC)	8	19847690	C	A
HDL-C (GLGC)	8	19848080	G	A
HDL-C (GLGC)	8	19848396	G	A
HDL-C (GLGC)	8	19851897	T	C
HDL-C (GLGC)	8	19852156	T	G
HDL-C (GLGC)	8	19853146	T	C
HDL-C (GLGC)	8	19854773	T	C
HDL-C (GLGC)	8	19856539	T	C
HDL-C (GLGC)	8	19859120	T	C
HDL-C (GLGC)	8	19860197	C	A
HDL-C (GLGC)	8	19862746	G	A
HDL-C (GLGC)	8	19863024	T	C
HDL-C (GLGC)	8	19863114	G	A
HDL-C (GLGC)	8	19863301	G	A
HDL-C (GLGC)	8	19863873	T	C
HDL-C (GLGC)	8	19865509	C	A
HDL-C (GLGC)	8	19865843	G	A
HDL-C (GLGC)	8	19868971	T	C
HDL-C (GLGC)	8	19869366	T	G
HDL-C (GLGC)	8	19870693	G	A
HDL-C (GLGC)	8	19871637	T	C
HDL-C (GLGC)	8	19875365	G	A
HDL-C (GLGC)	8	19878154	T	C
HDL-C (GLGC)	8	19878356	T	C
HDL-C (GLGC)	8	19879809	G	A
HDL-C (GLGC)	8	19881186	T	C
HDL-C (GLGC)	8	19889125	T	G
HDL-C (GLGC)	8	19890612	G	A
HDL-C (GLGC)	8	19890654	T	C
HDL-C (GLGC)	8	19890776	C	A
HDL-C (GLGC)	8	19899046	T	C
HDL-C (GLGC)	8	19914598	C	A
HDL-C (GLGC)	8	19915284	T	C
HDL-C (GLGC)	8	19916120	G	A
HDL-C (GLGC)	8	19919655	T	C
HDL-C (GLGC)	8	19922610	G	A
HDL-C (GLGC)	8	19928160	G	A
HDL-C (GLGC)	8	19931855	T	C
HDL-C (GLGC)	8	19932088	T	C
HDL-C (GLGC)	8	19933896	T	C
HDL-C (GLGC)	8	19936687	G	A
HDL-C (GLGC)	8	19939049	T	C
HDL-C (GLGC)	8	19941027	T	C

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
HDL-C (GLGC)	8	19941078	T	G
HDL-C (GLGC)	8	19941145	C	A
HDL-C (GLGC)	8	19941448	T	C
HDL-C (GLGC)	8	19942908	C	A
HDL-C (GLGC)	8	19943027	G	A
HDL-C (GLGC)	8	19943308	G	A
HDL-C (GLGC)	8	19943364	T	C
HDL-C (GLGC)	8	19944078	T	C
HDL-C (GLGC)	8	19949300	T	C
HDL-C (GLGC)	8	19951752	T	C
HDL-C (GLGC)	8	19952028	T	G
HDL-C (GLGC)	8	19955606	G	A
HDL-C (GLGC)	8	19968929	T	C
HDL-C (GLGC)	8	19970889	G	A
HDL-C (GLGC)	8	9168146	T	C
HDL-C (GLGC)	8	9170178	T	C
HDL-C (GLGC)	8	9171735	T	C
HDL-C (GLGC)	8	9172718	G	A
HDL-C (GLGC)	8	9175433	T	C
HDL-C (GLGC)	8	9177732	T	G
HDL-C (GLGC)	8	9178135	T	C
HDL-C (GLGC)	8	9178921	G	A
HDL-C (GLGC)	8	9183207	G	A
HDL-C (GLGC)	8	9183358	G	A
HDL-C (GLGC)	8	9183596	G	A
HDL-C (GLGC)	8	9184691	T	C
HDL-C (GLGC)	8	9187242	G	A
HDL-C (GLGC)	8	9187595	G	A
HDL-C (GLGC)	8	9190564	T	C
HDL-C (GLGC)	8	9192423	G	A
HDL-C (GLGC)	8	9192927	T	C
HDL-C (GLGC)	8	9194172	G	A
HDL-C (GLGC)	8	9196365	G	A
HDL-C (GLGC)	8	9197250	G	A
HDL-C (GLGC)	8	9198185	G	A
HDL-C (GLGC)	8	9200042	G	A
HDL-C (GLGC)	8	9200787	T	C
HDL-C (GLGC)	8	9201787	T	C
HDL-C (GLGC)	8	9204425	G	A
HDL-C (GLGC)	8	9205531	G	A
HDL-C (GLGC)	8	9206069	G	A
HDL-C (GLGC)	8	9206678	G	A
HDL-C (GLGC)	8	9219868	G	A
HDL-C (GLGC)	8	9223532	T	G

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
HDL-C (GLGC)	8	9228403	C	A
HDL-C (GLGC)	8	9231661	G	A
HDL-C (GLGC)	9	107548375	C	A
HDL-C (GLGC)	9	107557315	G	A
HDL-C (GLGC)	9	107559059	G	A
HDL-C (GLGC)	9	107562804	T	C
HDL-C (GLGC)	9	107563269	T	C
HDL-C (GLGC)	9	107569337	T	C
HDL-C (GLGC)	9	107582780	G	A
HDL-C (GLGC)	9	107586753	T	C
HDL-C (GLGC)	9	107588777	T	C
HDL-C (GLGC)	9	107592189	C	A
HDL-C (GLGC)	9	107604197	T	G
HDL-C (GLGC)	9	107604722	C	A
HDL-C (GLGC)	9	107617337	T	C
HDL-C (GLGC)	9	107617433	T	C
HDL-C (GLGC)	9	107624242	G	A
HDL-C (GLGC)	9	107626389	T	C
HDL-C (GLGC)	9	107629104	T	C
HDL-C (GLGC)	9	107635869	T	C
HDL-C (GLGC)	9	107639414	G	A
HDL-C (GLGC)	9	107642287	T	C
HDL-C (GLGC)	9	107645080	T	C
HDL-C (GLGC)	9	107645674	T	C
HDL-C (GLGC)	9	107647019	T	C
HDL-C (GLGC)	9	107647077	G	A
HDL-C (GLGC)	9	107647220	T	C
HDL-C (GLGC)	9	107648458	G	A
HDL-C (GLGC)	9	107651526	G	A
HDL-C (GLGC)	9	107653426	G	A
HDL-C (GLGC)	9	107656122	C	A
HDL-C (GLGC)	9	107657070	G	A
HDL-C (GLGC)	9	107658910	C	A
HDL-C (GLGC)	9	107661122	G	A
HDL-C (GLGC)	9	107661150	C	A
HDL-C (GLGC)	9	107662708	T	C
HDL-C (GLGC)	9	107664301	T	C
HDL-C (GLGC)	9	107664961	G	A
HDL-C (GLGC)	9	107665511	T	C
HDL-C (GLGC)	9	107665739	G	A
HDL-C (GLGC)	9	107665751	T	C
HDL-C (GLGC)	9	107667147	T	C
HDL-C (GLGC)	9	107669073	T	C
HDL-C (GLGC)	9	107669241	T	C

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
HDL-C (GLGC)	9	107672365	G	A
HDL-C (GLGC)	9	107684230	T	G
HDL-C (GLGC)	9	107690450	G	A
HDL-C (GLGC)	9	15284100	T	C
HDL-C (GLGC)	9	15285448	T	G
HDL-C (GLGC)	9	15288045	G	A
HDL-C (GLGC)	9	15289578	T	C
HDL-C (GLGC)	9	15290012	G	A
HDL-C (GLGC)	9	15291239	T	C
HDL-C (GLGC)	9	15293513	T	C
HDL-C (GLGC)	9	15296034	C	A
HDL-C (GLGC)	9	15298666	T	C
HDL-C (GLGC)	9	15301428	C	A
TG (GLGC)	10	113910721	G	A
TG (GLGC)	10	113940329	T	C
TG (GLGC)	10	113975832	T	C
TG (GLGC)	10	114045333	T	C
TG (GLGC)	10	114154815	T	C
TG (GLGC)	10	5196273	G	A
TG (GLGC)	10	5202925	G	A
TG (GLGC)	10	5254146	G	A
TG (GLGC)	10	5254188	G	A
TG (GLGC)	10	5254847	G	A
TG (GLGC)	10	5272499	T	C
TG (GLGC)	10	5286162	G	A
TG (GLGC)	10	64914467	G	A
TG (GLGC)	10	64948684	T	C
TG (GLGC)	10	65048306	C	A
TG (GLGC)	10	65066186	T	G
TG (GLGC)	10	65121565	C	A
TG (GLGC)	10	65133156	C	A
TG (GLGC)	10	65179414	G	A
TG (GLGC)	10	65261184	T	C
TG (GLGC)	10	65337153	T	C
TG (GLGC)	10	65384567	G	A
TG (GLGC)	10	94819053	T	C
TG (GLGC)	10	94839642	G	A
TG (GLGC)	10	94839724	T	G
TG (GLGC)	10	94845036	G	A
TG (GLGC)	11	116352622	T	C
TG (GLGC)	11	116383064	G	A
TG (GLGC)	11	116449283	T	C
TG (GLGC)	11	116496360	T	C
TG (GLGC)	11	116511522	T	C

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
TG (GLGC)	11	116514417	T	C
TG (GLGC)	11	116519655	T	C
TG (GLGC)	11	116519739	T	C
TG (GLGC)	11	116520398	T	C
TG (GLGC)	11	116521748	G	A
TG (GLGC)	11	116522854	G	A
TG (GLGC)	11	116523063	T	G
TG (GLGC)	11	116523844	G	A
TG (GLGC)	11	116525867	T	C
TG (GLGC)	11	116525995	T	C
TG (GLGC)	11	116526322	C	A
TG (GLGC)	11	116527282	T	C
TG (GLGC)	11	116528663	G	A
TG (GLGC)	11	116528876	T	C
TG (GLGC)	11	116529024	T	C
TG (GLGC)	11	116529188	T	G
TG (GLGC)	11	116529442	T	C
TG (GLGC)	11	116529468	T	C
TG (GLGC)	11	116529524	G	A
TG (GLGC)	11	116529641	T	G
TG (GLGC)	11	116530061	G	A
TG (GLGC)	11	116530251	G	A
TG (GLGC)	11	116531739	T	C
TG (GLGC)	11	116532066	T	G
TG (GLGC)	11	116532221	T	C
TG (GLGC)	11	116532314	G	A
TG (GLGC)	11	116535126	T	C
TG (GLGC)	11	116535435	T	C
TG (GLGC)	11	116536418	G	A
TG (GLGC)	11	116550115	G	A
TG (GLGC)	11	116551538	T	C
TG (GLGC)	11	116552562	T	C
TG (GLGC)	11	116553025	G	A
TG (GLGC)	11	116554228	C	A
TG (GLGC)	11	116555415	T	C
TG (GLGC)	11	116556865	G	A
TG (GLGC)	11	116557216	C	A
TG (GLGC)	11	116557314	T	G
TG (GLGC)	11	116559002	T	C
TG (GLGC)	11	116560447	T	C
TG (GLGC)	11	116560667	T	G
TG (GLGC)	11	116561996	T	C
TG (GLGC)	11	116562580	C	A
TG (GLGC)	11	116564408	T	C

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
TG (GLGC)	11	116566117	T	C
TG (GLGC)	11	116571284	T	C
TG (GLGC)	11	116571608	G	A
TG (GLGC)	11	116572089	T	C
TG (GLGC)	11	116572205	T	C
TG (GLGC)	11	116573120	G	A
TG (GLGC)	11	116574336	G	A
TG (GLGC)	11	116574488	G	A
TG (GLGC)	11	116574584	G	A
TG (GLGC)	11	116575473	G	A
TG (GLGC)	11	116575555	G	A
TG (GLGC)	11	116576400	T	C
TG (GLGC)	11	116576415	G	A
TG (GLGC)	11	116577043	G	A
TG (GLGC)	11	116578223	T	C
TG (GLGC)	11	116579663	T	C
TG (GLGC)	11	116581259	T	C
TG (GLGC)	11	116581641	G	A
TG (GLGC)	11	116581800	T	C
TG (GLGC)	11	116584317	T	C
TG (GLGC)	11	116584987	T	C
TG (GLGC)	11	116585533	G	A
TG (GLGC)	11	116586283	T	C
TG (GLGC)	11	116587849	T	C
TG (GLGC)	11	116590787	G	A
TG (GLGC)	11	116595756	T	C
TG (GLGC)	11	116596309	C	A
TG (GLGC)	11	116598988	G	A
TG (GLGC)	11	116599392	T	C
TG (GLGC)	11	116599504	T	C
TG (GLGC)	11	116600021	T	C
TG (GLGC)	11	116601945	G	A
TG (GLGC)	11	116603677	G	A
TG (GLGC)	11	116603724	C	A
TG (GLGC)	11	116607641	T	C
TG (GLGC)	11	116610048	T	C
TG (GLGC)	11	116610249	G	A
TG (GLGC)	11	116611457	T	C
TG (GLGC)	11	116612128	G	A
TG (GLGC)	11	116613184	T	C
TG (GLGC)	11	116613660	T	C
TG (GLGC)	11	116617240	C	A
TG (GLGC)	11	116619867	C	A
TG (GLGC)	11	116621770	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
TG (GLGC)	11	116623659	T	C
TG (GLGC)	11	116624601	C	A
TG (GLGC)	11	116624703	T	G
TG (GLGC)	11	116625875	T	G
TG (GLGC)	11	116628401	T	C
TG (GLGC)	11	116632798	T	C
TG (GLGC)	11	116633947	G	A
TG (GLGC)	11	116634173	T	C
TG (GLGC)	11	116640237	G	A
TG (GLGC)	11	116641028	T	C
TG (GLGC)	11	116642137	T	C
TG (GLGC)	11	116643436	T	G
TG (GLGC)	11	116645275	T	C
TG (GLGC)	11	116646858	T	C
TG (GLGC)	11	116647120	T	G
TG (GLGC)	11	116648776	C	A
TG (GLGC)	11	116649135	G	A
TG (GLGC)	11	116649538	G	A
TG (GLGC)	11	116651115	T	C
TG (GLGC)	11	116652301	T	C
TG (GLGC)	11	116652351	G	A
TG (GLGC)	11	116652423	G	A
TG (GLGC)	11	116654159	G	A
TG (GLGC)	11	116655600	G	A
TG (GLGC)	11	116657561	T	C
TG (GLGC)	11	116660686	G	A
TG (GLGC)	11	116660813	G	A
TG (GLGC)	11	116661488	T	C
TG (GLGC)	11	116662579	T	C
TG (GLGC)	11	116667545	T	C
TG (GLGC)	11	116668511	T	C
TG (GLGC)	11	116669428	T	C
TG (GLGC)	11	116670182	T	C
TG (GLGC)	11	116670676	C	A
TG (GLGC)	11	116670738	G	A
TG (GLGC)	11	116677723	G	A
TG (GLGC)	11	116681008	G	A
TG (GLGC)	11	116691634	C	A
TG (GLGC)	11	116721826	T	C
TG (GLGC)	11	116722041	T	G
TG (GLGC)	11	116728277	G	A
TG (GLGC)	11	116730638	G	A
TG (GLGC)	11	116733316	T	C
TG (GLGC)	11	116734545	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
TG (GLGC)	11	116736679	G	A
TG (GLGC)	11	116738046	G	A
TG (GLGC)	11	116741572	C	A
TG (GLGC)	11	116744018	T	C
TG (GLGC)	11	116763034	G	A
TG (GLGC)	11	116772441	T	C
TG (GLGC)	11	116772787	C	A
TG (GLGC)	11	116807970	G	A
TG (GLGC)	11	116829653	T	G
TG (GLGC)	11	116857003	T	C
TG (GLGC)	11	116880456	T	C
TG (GLGC)	11	116896155	C	A
TG (GLGC)	11	116908283	G	A
TG (GLGC)	11	116915742	T	C
TG (GLGC)	11	116919511	T	C
TG (GLGC)	11	116929384	C	A
TG (GLGC)	11	116932561	T	C
TG (GLGC)	11	116942753	T	C
TG (GLGC)	11	116944846	T	C
TG (GLGC)	11	116972894	C	A
TG (GLGC)	11	116972935	T	C
TG (GLGC)	11	116980641	T	G
TG (GLGC)	11	116985641	T	G
TG (GLGC)	11	116988936	G	A
TG (GLGC)	11	116991926	G	A
TG (GLGC)	11	116996539	G	A
TG (GLGC)	11	116997798	T	C
TG (GLGC)	11	117034729	T	C
TG (GLGC)	11	117037065	T	C
TG (GLGC)	11	117037361	G	A
TG (GLGC)	11	117046197	G	A
TG (GLGC)	11	117048417	G	A
TG (GLGC)	11	117059347	T	C
TG (GLGC)	11	117062370	T	C
TG (GLGC)	11	117065476	G	A
TG (GLGC)	11	117068534	C	A
TG (GLGC)	11	117070857	G	A
TG (GLGC)	11	117074299	T	C
TG (GLGC)	11	117075566	T	C
TG (GLGC)	11	117085270	C	A
TG (GLGC)	11	117088450	G	A
TG (GLGC)	11	117089628	G	A
TG (GLGC)	11	117091821	G	A
TG (GLGC)	11	117095361	T	C

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
TG (GLGC)	11	117097952	T	C
TG (GLGC)	11	117100594	G	A
TG (GLGC)	11	117151412	G	A
TG (GLGC)	11	117182708	T	G
TG (GLGC)	11	117199870	T	C
TG (GLGC)	11	27526105	T	C
TG (GLGC)	11	46722221	T	C
TG (GLGC)	11	46798631	G	A
TG (GLGC)	11	46898771	T	C
TG (GLGC)	11	47179829	G	A
TG (GLGC)	11	47259668	T	C
TG (GLGC)	11	47275064	G	A
TG (GLGC)	11	47298360	G	A
TG (GLGC)	11	61543961	T	C
TG (GLGC)	11	61547237	T	C
TG (GLGC)	11	61548559	G	A
TG (GLGC)	11	61560081	G	A
TG (GLGC)	11	61565908	T	C
TG (GLGC)	11	61580635	T	C
TG (GLGC)	11	61581764	T	C
TG (GLGC)	11	61592362	G	A
TG (GLGC)	11	61595564	T	C
TG (GLGC)	11	61597212	T	C
TG (GLGC)	11	61597972	G	A
TG (GLGC)	11	61600327	G	A
TG (GLGC)	11	61600342	C	A
TG (GLGC)	11	61601908	G	A
TG (GLGC)	11	61603237	T	C
TG (GLGC)	11	61605215	G	A
TG (GLGC)	11	61605613	T	C
TG (GLGC)	11	61609750	T	C
TG (GLGC)	11	61611694	G	A
TG (GLGC)	11	61616012	G	A
TG (GLGC)	11	61618608	G	A
TG (GLGC)	11	61618831	T	C
TG (GLGC)	11	61621194	G	A
TG (GLGC)	11	61623793	G	A
TG (GLGC)	11	61624181	T	C
TG (GLGC)	11	61624414	T	C
TG (GLGC)	11	61626921	T	G
TG (GLGC)	11	61627881	T	C
TG (GLGC)	11	61629122	G	A
TG (GLGC)	11	61633182	T	C
TG (GLGC)	11	61639488	T	C

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
TG (GLGC)	11	61647288	G	A
TG (GLGC)	11	61655305	G	A
TG (GLGC)	11	61656117	G	A
TG (GLGC)	11	61745694	T	C
TG (GLGC)	12	107174646	C	A
TG (GLGC)	12	122249091	G	A
TG (GLGC)	12	124393697	T	G
TG (GLGC)	12	124405871	G	A
TG (GLGC)	12	124460167	T	G
TG (GLGC)	12	124475940	G	A
TG (GLGC)	12	133069894	G	A
TG (GLGC)	12	21331549	T	C
TG (GLGC)	12	56951219	G	A
TG (GLGC)	12	57735045	G	A
TG (GLGC)	12	57809456	T	C
TG (GLGC)	13	51221618	C	A
TG (GLGC)	13	95284980	C	A
TG (GLGC)	15	42683787	G	A
TG (GLGC)	15	44016417	T	C
TG (GLGC)	15	44106624	G	A
TG (GLGC)	15	44224668	G	A
TG (GLGC)	15	44234776	C	A
TG (GLGC)	15	44399628	G	A
TG (GLGC)	15	44406021	C	A
TG (GLGC)	15	44515864	T	C
TG (GLGC)	15	44526684	G	A
TG (GLGC)	15	58674051	G	A
TG (GLGC)	15	58674308	G	A
TG (GLGC)	15	58678512	T	C
TG (GLGC)	15	58680638	T	C
TG (GLGC)	15	58683366	G	A
TG (GLGC)	15	58684057	G	A
TG (GLGC)	15	58684478	T	C
TG (GLGC)	15	58687880	T	C
TG (GLGC)	15	58689187	T	C
TG (GLGC)	15	58690754	G	A
TG (GLGC)	15	58692936	T	C
TG (GLGC)	15	58699010	T	C
TG (GLGC)	15	58699937	T	C
TG (GLGC)	15	58702864	T	C
TG (GLGC)	15	58703069	C	A
TG (GLGC)	15	58710627	C	A
TG (GLGC)	15	58712973	T	C
TG (GLGC)	15	58718998	T	C

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
TG (GLGC)	15	58719741	G	A
TG (GLGC)	15	58723675	T	C
TG (GLGC)	15	58723939	G	A
TG (GLGC)	15	58725839	G	A
TG (GLGC)	15	58727325	G	A
TG (GLGC)	15	58731567	G	A
TG (GLGC)	15	58735005	G	A
TG (GLGC)	15	58741177	T	C
TG (GLGC)	15	63396088	G	A
TG (GLGC)	15	63396867	G	A
TG (GLGC)	15	63413084	T	C
TG (GLGC)	15	63413501	G	A
TG (GLGC)	15	63425337	G	A
TG (GLGC)	15	63433766	G	A
TG (GLGC)	15	63434763	G	A
TG (GLGC)	15	72287856	G	A
TG (GLGC)	15	73109629	G	A
TG (GLGC)	16	15129459	G	A
TG (GLGC)	16	15129940	T	C
TG (GLGC)	16	15129970	G	A
TG (GLGC)	16	30823047	T	G
TG (GLGC)	16	30982225	G	A
TG (GLGC)	16	31011183	G	A
TG (GLGC)	16	31048079	T	C
TG (GLGC)	16	31088625	G	A
TG (GLGC)	16	31121793	G	A
TG (GLGC)	16	53804340	T	C
TG (GLGC)	16	53810686	T	C
TG (GLGC)	16	53812614	G	A
TG (GLGC)	16	53813367	T	G
TG (GLGC)	16	53818708	T	G
TG (GLGC)	16	56926195	G	A
TG (GLGC)	16	56985139	G	A
TG (GLGC)	16	56985514	G	A
TG (GLGC)	16	56985555	G	A
TG (GLGC)	16	56987369	T	C
TG (GLGC)	16	56988044	T	C
TG (GLGC)	16	56990716	C	A
TG (GLGC)	16	56993211	T	C
TG (GLGC)	16	56993324	C	A
TG (GLGC)	16	56994894	G	A
TG (GLGC)	16	56995236	C	A
TG (GLGC)	16	56996158	T	C
TG (GLGC)	16	56996211	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
TG (GLGC)	16	56997233	G	A
TG (GLGC)	16	56999258	C	A
TG (GLGC)	16	56999328	T	C
TG (GLGC)	16	57000938	G	A
TG (GLGC)	16	57002732	T	G
TG (GLGC)	16	57005479	C	A
TG (GLGC)	16	57006590	T	C
TG (GLGC)	16	57007451	G	A
TG (GLGC)	16	72108093	G	A
TG (GLGC)	16	81534790	T	C
TG (GLGC)	17	41865627	T	G
TG (GLGC)	17	41878166	C	A
TG (GLGC)	17	41930569	G	A
TG (GLGC)	17	45750596	G	A
TG (GLGC)	17	47440466	G	A
TG (GLGC)	17	65870073	T	C
TG (GLGC)	17	65947640	G	A
TG (GLGC)	19	19267990	T	C
TG (GLGC)	19	19315180	G	A
TG (GLGC)	19	19325963	T	G
TG (GLGC)	19	19329924	T	C
TG (GLGC)	19	19336608	T	C
TG (GLGC)	19	19378416	T	C
TG (GLGC)	19	19379549	T	C
TG (GLGC)	19	19392401	T	C
TG (GLGC)	19	19406869	T	C
TG (GLGC)	19	19407718	T	C
TG (GLGC)	19	19431423	T	G
TG (GLGC)	19	19456917	T	C
TG (GLGC)	19	19467545	T	C
TG (GLGC)	19	19478022	T	G
TG (GLGC)	19	19508013	G	A
TG (GLGC)	19	19525792	T	C
TG (GLGC)	19	19531910	G	A
TG (GLGC)	19	19532682	G	A
TG (GLGC)	19	19539891	T	C
TG (GLGC)	19	19579046	T	G
TG (GLGC)	19	19591066	G	A
TG (GLGC)	19	19599389	G	A
TG (GLGC)	19	19616953	T	G
TG (GLGC)	19	19650096	G	A
TG (GLGC)	19	19658472	T	G
TG (GLGC)	19	19664077	T	C
TG (GLGC)	19	19666574	T	C

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
TG (GLGC)	19	19668916	G	A
TG (GLGC)	19	19692579	T	C
TG (GLGC)	19	19717056	G	A
TG (GLGC)	19	19738554	G	A
TG (GLGC)	19	19746151	T	G
TG (GLGC)	19	19789528	G	A
TG (GLGC)	19	19795560	C	A
TG (GLGC)	19	19819843	G	A
TG (GLGC)	19	19841752	T	C
TG (GLGC)	19	19920967	C	A
TG (GLGC)	19	33899065	G	A
TG (GLGC)	19	35556744	T	C
TG (GLGC)	19	45242173	G	A
TG (GLGC)	19	45247627	G	A
TG (GLGC)	19	45322744	G	A
TG (GLGC)	19	45370838	G	A
TG (GLGC)	19	45373739	G	A
TG (GLGC)	19	45377098	C	A
TG (GLGC)	19	45379791	T	C
TG (GLGC)	19	45382984	T	G
TG (GLGC)	19	45389596	G	A
TG (GLGC)	19	45392254	T	C
TG (GLGC)	19	45395266	G	A
TG (GLGC)	19	45395619	G	A
TG (GLGC)	19	45398785	T	C
TG (GLGC)	19	45399896	G	A
TG (GLGC)	19	45404691	G	A
TG (GLGC)	19	45406673	G	A
TG (GLGC)	19	45408836	T	G
TG (GLGC)	19	45410002	G	A
TG (GLGC)	19	45412079	T	C
TG (GLGC)	19	45413576	T	C
TG (GLGC)	19	45414451	T	C
TG (GLGC)	19	45415640	G	A
TG (GLGC)	19	45416478	G	A
TG (GLGC)	19	45422846	G	A
TG (GLGC)	19	45422946	G	A
TG (GLGC)	19	45453165	T	C
TG (GLGC)	19	45458146	C	A
TG (GLGC)	19	45490428	G	A
TG (GLGC)	19	47589895	T	C
TG (GLGC)	19	50028163	G	A
TG (GLGC)	19	7184801	T	C
TG (GLGC)	19	7205240	T	C

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
TG (GLGC)	19	7222832	T	C
TG (GLGC)	19	7224431	G	A
TG (GLGC)	19	8586086	C	A
TG (GLGC)	19	8610313	G	A
TG (GLGC)	19	8615589	G	A
TG (GLGC)	1	108656403	T	G
TG (GLGC)	1	154245142	T	G
TG (GLGC)	1	230238821	T	C
TG (GLGC)	1	230264607	G	A
TG (GLGC)	1	230281068	G	A
TG (GLGC)	1	230283764	G	A
TG (GLGC)	1	230287128	T	G
TG (GLGC)	1	230290254	G	A
TG (GLGC)	1	230291441	C	A
TG (GLGC)	1	230295245	T	C
TG (GLGC)	1	230295691	G	A
TG (GLGC)	1	230296470	C	A
TG (GLGC)	1	230300586	T	C
TG (GLGC)	1	230301451	G	A
TG (GLGC)	1	230304988	G	A
TG (GLGC)	1	230307222	T	G
TG (GLGC)	1	230309619	G	A
TG (GLGC)	1	230311176	G	A
TG (GLGC)	1	230321019	T	C
TG (GLGC)	1	230322747	T	C
TG (GLGC)	1	230324801	G	A
TG (GLGC)	1	230326412	G	A
TG (GLGC)	1	230398102	G	A
TG (GLGC)	1	27138393	T	C
TG (GLGC)	1	27236212	T	C
TG (GLGC)	1	27285195	T	C
TG (GLGC)	1	39703847	G	A
TG (GLGC)	1	39797055	G	A
TG (GLGC)	1	39908506	G	A
TG (GLGC)	1	39950080	T	C
TG (GLGC)	1	40018509	T	C
TG (GLGC)	1	40028180	G	A
TG (GLGC)	1	40064961	G	A
TG (GLGC)	1	62833553	G	A
TG (GLGC)	1	62836976	T	C
TG (GLGC)	1	62856695	G	A
TG (GLGC)	1	62860310	G	A
TG (GLGC)	1	62861261	G	A
TG (GLGC)	1	62869139	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
TG (GLGC)	1	62902874	G	A
TG (GLGC)	1	62917913	G	A
TG (GLGC)	1	62931632	C	A
TG (GLGC)	1	62932120	T	C
TG (GLGC)	1	62953373	G	A
TG (GLGC)	1	62960250	T	C
TG (GLGC)	1	62960575	T	C
TG (GLGC)	1	62991905	T	C
TG (GLGC)	1	62996373	T	C
TG (GLGC)	1	62997573	C	A
TG (GLGC)	1	63022004	G	A
TG (GLGC)	1	63028198	T	C
TG (GLGC)	1	63049551	C	A
TG (GLGC)	1	63055280	G	A
TG (GLGC)	1	63083289	C	A
TG (GLGC)	1	63108374	G	A
TG (GLGC)	1	63117328	G	A
TG (GLGC)	1	63135127	G	A
TG (GLGC)	1	63164029	T	C
TG (GLGC)	1	63177539	T	G
TG (GLGC)	1	63181548	G	A
TG (GLGC)	1	63182135	T	C
TG (GLGC)	1	63191565	G	A
TG (GLGC)	1	63191777	T	C
TG (GLGC)	1	63193972	G	A
TG (GLGC)	1	63194009	T	C
TG (GLGC)	1	63195692	T	C
TG (GLGC)	1	63199348	T	G
TG (GLGC)	1	63199936	T	G
TG (GLGC)	1	63203221	T	C
TG (GLGC)	1	63203906	G	A
TG (GLGC)	1	63248080	G	A
TG (GLGC)	1	63252215	C	A
TG (GLGC)	1	63261652	G	A
TG (GLGC)	1	63268786	T	C
TG (GLGC)	1	63310444	G	A
TG (GLGC)	1	63316576	T	C
TG (GLGC)	1	63342206	G	A
TG (GLGC)	1	63346976	G	A
TG (GLGC)	1	63354972	G	A
TG (GLGC)	1	63358816	T	C
TG (GLGC)	1	63375116	T	C
TG (GLGC)	20	33340313	T	C
TG (GLGC)	20	33525407	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
TG (GLGC)	20	39110599	G	A
TG (GLGC)	20	39118662	T	C
TG (GLGC)	20	44427418	G	A
TG (GLGC)	20	44496029	C	A
TG (GLGC)	20	44534651	G	A
TG (GLGC)	20	44536932	G	A
TG (GLGC)	20	44545048	T	C
TG (GLGC)	20	44564682	G	A
TG (GLGC)	20	44574533	T	C
TG (GLGC)	20	44576502	T	C
TG (GLGC)	20	44588241	T	C
TG (GLGC)	20	44592364	T	C
TG (GLGC)	20	44594228	G	A
TG (GLGC)	20	44604822	G	A
TG (GLGC)	20	44607601	G	A
TG (GLGC)	20	44610737	T	G
TG (GLGC)	20	44615001	T	C
TG (GLGC)	20	44623967	T	C
TG (GLGC)	20	44628668	C	A
TG (GLGC)	20	44630804	G	A
TG (GLGC)	20	44634550	T	C
TG (GLGC)	20	44639511	T	C
TG (GLGC)	20	44640225	G	A
TG (GLGC)	20	44643111	G	A
TG (GLGC)	20	44643592	G	A
TG (GLGC)	20	44644965	G	A
TG (GLGC)	20	44645010	T	C
TG (GLGC)	20	45592842	T	C
TG (GLGC)	20	45598564	G	A
TG (GLGC)	22	38518622	G	A
TG (GLGC)	22	38544298	G	A
TG (GLGC)	22	38546033	T	C
TG (GLGC)	22	38546118	T	C
TG (GLGC)	22	38546700	G	A
TG (GLGC)	22	38562056	T	C
TG (GLGC)	22	38595411	G	A
TG (GLGC)	22	38898051	T	C
TG (GLGC)	2	165504565	T	G
TG (GLGC)	2	165507843	T	C
TG (GLGC)	2	165509579	G	A
TG (GLGC)	2	165513091	T	C
TG (GLGC)	2	165528876	T	C
TG (GLGC)	2	165539661	T	C
TG (GLGC)	2	165551201	T	C

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
TG (GLGC)	2	165557318	T	C
TG (GLGC)	2	165558252	T	C
TG (GLGC)	2	165562893	T	C
TG (GLGC)	2	165602181	G	A
TG (GLGC)	2	165606954	T	C
TG (GLGC)	2	21118983	C	A
TG (GLGC)	2	21121130	T	G
TG (GLGC)	2	21121464	T	C
TG (GLGC)	2	21123352	C	A
TG (GLGC)	2	21134656	T	C
TG (GLGC)	2	21135577	G	A
TG (GLGC)	2	21135628	T	C
TG (GLGC)	2	21136327	T	C
TG (GLGC)	2	21136564	T	C
TG (GLGC)	2	21138740	T	G
TG (GLGC)	2	21140540	T	C
TG (GLGC)	2	21141832	C	A
TG (GLGC)	2	21142994	T	C
TG (GLGC)	2	21143329	G	A
TG (GLGC)	2	21144829	T	G
TG (GLGC)	2	21145499	G	A
TG (GLGC)	2	21148274	C	A
TG (GLGC)	2	21184764	G	A
TG (GLGC)	2	21187641	T	C
TG (GLGC)	2	21188488	T	C
TG (GLGC)	2	21189068	T	C
TG (GLGC)	2	21190024	T	C
TG (GLGC)	2	21190209	T	C
TG (GLGC)	2	21192523	G	A
TG (GLGC)	2	21196112	G	A
TG (GLGC)	2	21196346	T	G
TG (GLGC)	2	21197159	T	C
TG (GLGC)	2	21205563	G	A
TG (GLGC)	2	21206183	T	G
TG (GLGC)	2	21208211	G	A
TG (GLGC)	2	21214209	T	C
TG (GLGC)	2	21217490	T	C
TG (GLGC)	2	21224853	T	C
TG (GLGC)	2	21232195	G	A
TG (GLGC)	2	21233972	T	C
TG (GLGC)	2	21240031	C	A
TG (GLGC)	2	21240364	G	A
TG (GLGC)	2	21244000	T	G
TG (GLGC)	2	21245329	T	G

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
TG (GLGC)	2	21250914	G	A
TG (GLGC)	2	21259562	T	C
TG (GLGC)	2	21259612	G	A
TG (GLGC)	2	21263900	G	A
TG (GLGC)	2	21300770	C	A
TG (GLGC)	2	21389659	T	G
TG (GLGC)	2	21539609	C	A
TG (GLGC)	2	227020399	G	A
TG (GLGC)	2	227020653	G	A
TG (GLGC)	2	227020853	G	A
TG (GLGC)	2	227034499	G	A
TG (GLGC)	2	227036603	C	A
TG (GLGC)	2	227052396	C	A
TG (GLGC)	2	227068080	C	A
TG (GLGC)	2	227087284	G	A
TG (GLGC)	2	227105921	T	C
TG (GLGC)	2	227113202	T	C
TG (GLGC)	2	227176093	G	A
TG (GLGC)	2	27342894	T	C
TG (GLGC)	2	27361947	G	A
TG (GLGC)	2	27386726	C	A
TG (GLGC)	2	27386799	T	C
TG (GLGC)	2	27388447	G	A
TG (GLGC)	2	27389195	G	A
TG (GLGC)	2	27404846	C	A
TG (GLGC)	2	27405497	T	C
TG (GLGC)	2	27414134	T	C
TG (GLGC)	2	27420605	G	A
TG (GLGC)	2	27424636	G	A
TG (GLGC)	2	27430781	G	A
TG (GLGC)	2	27444546	T	C
TG (GLGC)	2	27445294	G	A
TG (GLGC)	2	27451000	T	C
TG (GLGC)	2	27463351	T	C
TG (GLGC)	2	27466368	T	C
TG (GLGC)	2	27474869	G	A
TG (GLGC)	2	27479543	T	C
TG (GLGC)	2	27487805	G	A
TG (GLGC)	2	27504312	G	A
TG (GLGC)	2	27505758	T	C
TG (GLGC)	2	27509032	T	C
TG (GLGC)	2	27519153	T	G
TG (GLGC)	2	27525661	G	A
TG (GLGC)	2	27533619	T	C

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
TG (GLGC)	2	27542041	T	C
TG (GLGC)	2	27550967	G	A
TG (GLGC)	2	27556721	G	A
TG (GLGC)	2	27558252	G	A
TG (GLGC)	2	27584666	G	A
TG (GLGC)	2	27590666	T	C
TG (GLGC)	2	27591708	G	A
TG (GLGC)	2	27591804	T	C
TG (GLGC)	2	27606098	G	A
TG (GLGC)	2	27609212	T	C
TG (GLGC)	2	27620827	G	A
TG (GLGC)	2	27625005	T	G
TG (GLGC)	2	27635463	G	A
TG (GLGC)	2	27636458	T	C
TG (GLGC)	2	27639153	G	A
TG (GLGC)	2	27642734	C	A
TG (GLGC)	2	27677763	T	C
TG (GLGC)	2	27686911	T	C
TG (GLGC)	2	27703495	G	A
TG (GLGC)	2	27714526	T	C
TG (GLGC)	2	27718474	T	C
TG (GLGC)	2	27730817	G	A
TG (GLGC)	2	27730940	T	C
TG (GLGC)	2	27731212	T	C
TG (GLGC)	2	27737637	G	A
TG (GLGC)	2	27742603	T	C
TG (GLGC)	2	27743154	G	A
TG (GLGC)	2	27743215	G	A
TG (GLGC)	2	27747949	G	A
TG (GLGC)	2	27748597	C	A
TG (GLGC)	2	27748624	G	A
TG (GLGC)	2	27750139	T	C
TG (GLGC)	2	27755168	G	A
TG (GLGC)	2	27778091	G	A
TG (GLGC)	2	27778167	C	A
TG (GLGC)	2	27796159	T	G
TG (GLGC)	2	27801418	C	A
TG (GLGC)	2	27811115	T	G
TG (GLGC)	2	27811722	G	A
TG (GLGC)	2	27815510	C	A
TG (GLGC)	2	27831607	T	C
TG (GLGC)	2	27839369	T	C
TG (GLGC)	2	27860258	G	A
TG (GLGC)	2	27876666	T	G

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
TG (GLGC)	2	27902987	T	C
TG (GLGC)	2	27907444	T	C
TG (GLGC)	2	27928797	T	C
TG (GLGC)	2	27929023	C	A
TG (GLGC)	2	27930837	T	C
TG (GLGC)	2	27934524	T	C
TG (GLGC)	2	27935352	C	A
TG (GLGC)	2	27939071	T	C
TG (GLGC)	2	27949052	G	A
TG (GLGC)	2	27960776	T	C
TG (GLGC)	2	27968454	C	A
TG (GLGC)	2	27972445	G	A
TG (GLGC)	2	27972833	G	A
TG (GLGC)	2	27974971	G	A
TG (GLGC)	2	27980944	T	C
TG (GLGC)	2	27987046	C	A
TG (GLGC)	2	27988821	G	A
TG (GLGC)	2	27993142	T	G
TG (GLGC)	2	27993843	T	C
TG (GLGC)	2	27995931	G	A
TG (GLGC)	2	28002002	T	C
TG (GLGC)	2	28003174	T	G
TG (GLGC)	2	28024331	T	C
TG (GLGC)	2	28033538	C	A
TG (GLGC)	2	28041273	G	A
TG (GLGC)	2	28062396	T	C
TG (GLGC)	2	28073894	T	C
TG (GLGC)	2	28079775	G	A
TG (GLGC)	2	28085544	C	A
TG (GLGC)	2	28113911	G	A
TG (GLGC)	2	28123374	T	G
TG (GLGC)	2	28147541	T	C
TG (GLGC)	2	28151354	G	A
TG (GLGC)	2	28153101	T	C
TG (GLGC)	2	28203294	T	C
TG (GLGC)	2	28217327	T	C
TG (GLGC)	2	28225861	T	G
TG (GLGC)	2	28261674	T	C
TG (GLGC)	2	28268742	T	C
TG (GLGC)	2	28281545	G	A
TG (GLGC)	2	28299267	G	A
TG (GLGC)	2	28301540	T	C
TG (GLGC)	2	28311121	G	A
TG (GLGC)	2	28315770	T	C

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
TG (GLGC)	2	28317086	G	A
TG (GLGC)	2	28319961	T	G
TG (GLGC)	2	28320033	T	C
TG (GLGC)	2	28321056	G	A
TG (GLGC)	2	28323869	T	C
TG (GLGC)	2	28326514	G	A
TG (GLGC)	2	28344285	G	A
TG (GLGC)	2	28350611	G	A
TG (GLGC)	2	28358334	T	C
TG (GLGC)	2	28359016	T	C
TG (GLGC)	2	28364272	T	C
TG (GLGC)	2	28381001	G	A
TG (GLGC)	2	28387200	G	A
TG (GLGC)	2	28398241	G	A
TG (GLGC)	2	28408662	T	C
TG (GLGC)	2	28412558	G	A
TG (GLGC)	2	28414302	C	A
TG (GLGC)	2	28418189	G	A
TG (GLGC)	2	28420462	T	C
TG (GLGC)	2	28421381	T	C
TG (GLGC)	2	28421461	G	A
TG (GLGC)	2	28421473	T	C
TG (GLGC)	2	28424472	T	C
TG (GLGC)	2	28426725	G	A
TG (GLGC)	2	28432237	G	A
TG (GLGC)	2	28443050	T	C
TG (GLGC)	2	28469456	G	A
TG (GLGC)	2	28493709	C	A
TG (GLGC)	2	28502878	T	C
TG (GLGC)	2	28503941	G	A
TG (GLGC)	2	28517861	G	A
TG (GLGC)	2	28521057	T	C
TG (GLGC)	2	28523834	T	C
TG (GLGC)	2	28523995	T	C
TG (GLGC)	2	28542934	G	A
TG (GLGC)	2	28556276	G	A
TG (GLGC)	2	28557080	T	C
TG (GLGC)	2	28560427	T	C
TG (GLGC)	2	28602911	C	A
TG (GLGC)	2	28603637	C	A
TG (GLGC)	2	28604879	G	A
TG (GLGC)	2	28635740	T	C
TG (GLGC)	2	28640327	T	C
TG (GLGC)	2	28645120	C	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
TG (GLGC)	2	28645802	T	C
TG (GLGC)	2	28652529	G	A
TG (GLGC)	2	28655788	T	C
TG (GLGC)	2	28661371	G	A
TG (GLGC)	3	12486964	C	A
TG (GLGC)	3	12487612	T	G
TG (GLGC)	3	12489342	T	G
TG (GLGC)	3	135926622	T	G
TG (GLGC)	3	135932359	T	C
TG (GLGC)	3	136069472	T	G
TG (GLGC)	3	170724955	T	C
TG (GLGC)	3	170727408	G	A
TG (GLGC)	4	3438643	G	A
TG (GLGC)	4	3473139	G	A
TG (GLGC)	4	3480136	T	C
TG (GLGC)	4	87279096	T	C
TG (GLGC)	4	87473776	G	A
TG (GLGC)	4	87769929	T	C
TG (GLGC)	4	87863770	T	C
TG (GLGC)	4	87873164	G	A
TG (GLGC)	4	87976387	G	A
TG (GLGC)	4	87984331	G	A
TG (GLGC)	4	87985115	T	G
TG (GLGC)	4	87985166	T	C
TG (GLGC)	4	87985530	T	G
TG (GLGC)	4	87996623	G	A
TG (GLGC)	4	87996745	G	A
TG (GLGC)	4	87999483	G	A
TG (GLGC)	4	88007227	T	C
TG (GLGC)	4	88008782	G	A
TG (GLGC)	4	88057353	G	A
TG (GLGC)	4	88066259	G	A
TG (GLGC)	4	88094650	T	C
TG (GLGC)	4	88102967	T	C
TG (GLGC)	4	88124762	C	A
TG (GLGC)	4	88148812	C	A
TG (GLGC)	4	88151993	G	A
TG (GLGC)	4	88160018	G	A
TG (GLGC)	4	88178919	T	C
TG (GLGC)	4	88180631	T	G
TG (GLGC)	4	88186509	G	A
TG (GLGC)	4	88197499	T	C
TG (GLGC)	4	88199484	T	G
TG (GLGC)	4	88211056	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
TG (GLGC)	4	89740128	G	A
TG (GLGC)	4	89741269	G	A
TG (GLGC)	5	156369171	T	C
TG (GLGC)	5	156381370	G	A
TG (GLGC)	5	156382308	G	A
TG (GLGC)	5	156390297	T	C
TG (GLGC)	5	156396003	T	C
TG (GLGC)	5	156432215	G	A
TG (GLGC)	5	156460095	T	C
TG (GLGC)	5	156472930	G	A
TG (GLGC)	5	156473185	G	A
TG (GLGC)	5	156479509	G	A
TG (GLGC)	5	173372625	G	A
TG (GLGC)	5	173388311	T	G
TG (GLGC)	5	53297304	T	C
TG (GLGC)	5	53298025	G	A
TG (GLGC)	5	55841824	G	A
TG (GLGC)	5	55854153	T	C
TG (GLGC)	5	55856375	T	G
TG (GLGC)	5	55859146	T	C
TG (GLGC)	5	55859952	G	A
TG (GLGC)	5	55860866	T	G
TG (GLGC)	5	55861786	T	C
TG (GLGC)	5	55868097	T	C
TG (GLGC)	5	55876283	G	A
TG (GLGC)	6	127281547	T	C
TG (GLGC)	6	127379919	T	C
TG (GLGC)	6	127380482	T	C
TG (GLGC)	6	127388186	T	C
TG (GLGC)	6	127392977	G	A
TG (GLGC)	6	127398595	C	A
TG (GLGC)	6	127409882	T	C
TG (GLGC)	6	127414801	T	C
TG (GLGC)	6	127436064	T	C
TG (GLGC)	6	127436313	G	A
TG (GLGC)	6	127454893	G	A
TG (GLGC)	6	127455138	T	C
TG (GLGC)	6	127461682	C	A
TG (GLGC)	6	130349475	T	G
TG (GLGC)	6	139828916	G	A
TG (GLGC)	6	139835689	T	C
TG (GLGC)	6	139838419	C	A
TG (GLGC)	6	139840693	C	A
TG (GLGC)	6	160770360	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
TG (GLGC)	6	160797625	T	G
TG (GLGC)	6	160838361	G	A
TG (GLGC)	6	160838648	G	A
TG (GLGC)	6	160851766	T	C
TG (GLGC)	6	160906086	G	A
TG (GLGC)	6	160917559	T	C
TG (GLGC)	6	29442701	T	C
TG (GLGC)	6	29821692	G	A
TG (GLGC)	6	29821982	T	C
TG (GLGC)	6	30231224	G	A
TG (GLGC)	6	30296253	G	A
TG (GLGC)	6	30335621	G	A
TG (GLGC)	6	30618906	G	A
TG (GLGC)	6	30688427	T	G
TG (GLGC)	6	30765579	C	A
TG (GLGC)	6	30798697	T	C
TG (GLGC)	6	30800577	T	C
TG (GLGC)	6	30864279	T	C
TG (GLGC)	6	30867527	G	A
TG (GLGC)	6	30932068	G	A
TG (GLGC)	6	30993590	G	A
TG (GLGC)	6	30998742	T	G
TG (GLGC)	6	30999997	T	C
TG (GLGC)	6	31001496	T	G
TG (GLGC)	6	31002013	G	A
TG (GLGC)	6	31002616	T	C
TG (GLGC)	6	31007081	C	A
TG (GLGC)	6	31008598	C	A
TG (GLGC)	6	31009055	T	C
TG (GLGC)	6	31010200	G	A
TG (GLGC)	6	31011247	T	C
TG (GLGC)	6	31015182	G	A
TG (GLGC)	6	31016978	C	A
TG (GLGC)	6	31018546	T	C
TG (GLGC)	6	31081205	T	C
TG (GLGC)	6	31081409	T	C
TG (GLGC)	6	31081434	G	A
TG (GLGC)	6	31082404	T	C
TG (GLGC)	6	31082987	G	A
TG (GLGC)	6	31084048	G	A
TG (GLGC)	6	31084435	G	A
TG (GLGC)	6	31085382	C	A
TG (GLGC)	6	31085770	G	A
TG (GLGC)	6	31087133	T	C

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
TG (GLGC)	6	31087354	T	C
TG (GLGC)	6	31088202	G	A
TG (GLGC)	6	31088922	G	A
TG (GLGC)	6	31091992	G	A
TG (GLGC)	6	31093066	G	A
TG (GLGC)	6	31097301	T	C
TG (GLGC)	6	31106177	T	C
TG (GLGC)	6	31107187	G	A
TG (GLGC)	6	31108607	G	A
TG (GLGC)	6	31117075	C	A
TG (GLGC)	6	31118511	T	G
TG (GLGC)	6	31119422	T	C
TG (GLGC)	6	31119589	T	G
TG (GLGC)	6	31145839	T	C
TG (GLGC)	6	31145991	T	C
TG (GLGC)	6	31157593	G	A
TG (GLGC)	6	31162963	G	A
TG (GLGC)	6	31167927	T	C
TG (GLGC)	6	31170528	G	A
TG (GLGC)	6	31170713	T	C
TG (GLGC)	6	31170914	G	A
TG (GLGC)	6	31171257	C	A
TG (GLGC)	6	31174527	G	A
TG (GLGC)	6	31176335	T	C
TG (GLGC)	6	31184196	G	A
TG (GLGC)	6	31186245	G	A
TG (GLGC)	6	31195218	T	C
TG (GLGC)	6	31198709	T	C
TG (GLGC)	6	31199766	G	A
TG (GLGC)	6	31202665	G	A
TG (GLGC)	6	31204008	G	A
TG (GLGC)	6	31228410	T	C
TG (GLGC)	6	31229404	T	C
TG (GLGC)	6	31229701	T	C
TG (GLGC)	6	31230800	G	A
TG (GLGC)	6	31237449	T	C
TG (GLGC)	6	31240041	T	C
TG (GLGC)	6	31240128	T	C
TG (GLGC)	6	31240293	T	C
TG (GLGC)	6	31240431	T	G
TG (GLGC)	6	31242191	G	A
TG (GLGC)	6	31243347	T	C
TG (GLGC)	6	31243615	G	A
TG (GLGC)	6	31243884	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
TG (GLGC)	6	31244021	G	A
TG (GLGC)	6	31245821	G	A
TG (GLGC)	6	31248591	C	A
TG (GLGC)	6	31250642	T	C
TG (GLGC)	6	31252469	T	G
TG (GLGC)	6	31254088	T	C
TG (GLGC)	6	31255286	G	A
TG (GLGC)	6	31257511	C	A
TG (GLGC)	6	31258837	G	A
TG (GLGC)	6	31260218	T	C
TG (GLGC)	6	31260397	G	A
TG (GLGC)	6	31265539	G	A
TG (GLGC)	6	31265737	G	A
TG (GLGC)	6	31266117	C	A
TG (GLGC)	6	31267422	C	A
TG (GLGC)	6	31268832	T	C
TG (GLGC)	6	31269173	G	A
TG (GLGC)	6	31269553	T	C
TG (GLGC)	6	31270118	C	A
TG (GLGC)	6	31271285	G	A
TG (GLGC)	6	31271716	G	A
TG (GLGC)	6	31272261	T	C
TG (GLGC)	6	31272612	G	A
TG (GLGC)	6	31273745	T	C
TG (GLGC)	6	31308630	G	A
TG (GLGC)	6	31317182	T	G
TG (GLGC)	6	31318177	G	A
TG (GLGC)	6	31320538	T	C
TG (GLGC)	6	31327334	T	G
TG (GLGC)	6	31327660	G	A
TG (GLGC)	6	31334945	T	C
TG (GLGC)	6	31335901	G	A
TG (GLGC)	6	31347057	T	C
TG (GLGC)	6	31348077	G	A
TG (GLGC)	6	31353329	G	A
TG (GLGC)	6	31386131	G	A
TG (GLGC)	6	31417191	G	A
TG (GLGC)	6	31417742	T	C
TG (GLGC)	6	31420500	T	G
TG (GLGC)	6	31433558	G	A
TG (GLGC)	6	31448862	C	A
TG (GLGC)	6	31448976	C	A
TG (GLGC)	6	31489644	G	A
TG (GLGC)	6	31496915	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
TG (GLGC)	6	31509967	T	G
TG (GLGC)	6	31533606	T	C
TG (GLGC)	6	31543031	G	A
TG (GLGC)	6	31568469	G	A
TG (GLGC)	6	31629953	G	A
TG (GLGC)	6	31639129	G	A
TG (GLGC)	6	31655438	G	A
TG (GLGC)	6	31675501	G	A
TG (GLGC)	6	31679307	G	A
TG (GLGC)	6	31686497	G	A
TG (GLGC)	6	31704294	T	G
TG (GLGC)	6	31725285	G	A
TG (GLGC)	6	31726253	T	C
TG (GLGC)	6	31764899	T	C
TG (GLGC)	6	31837250	G	A
TG (GLGC)	6	31839309	T	C
TG (GLGC)	6	31839331	T	C
TG (GLGC)	6	31847012	C	A
TG (GLGC)	6	31851234	G	A
TG (GLGC)	6	31851354	G	A
TG (GLGC)	6	31856070	G	A
TG (GLGC)	6	31883957	G	A
TG (GLGC)	6	31916400	G	A
TG (GLGC)	6	31927342	G	A
TG (GLGC)	6	31930351	G	A
TG (GLGC)	6	31940897	G	A
TG (GLGC)	6	31947460	T	G
TG (GLGC)	6	32050758	T	C
TG (GLGC)	6	32138545	C	A
TG (GLGC)	6	32165444	G	A
TG (GLGC)	6	32172993	T	C
TG (GLGC)	6	32184345	T	C
TG (GLGC)	6	32186872	G	A
TG (GLGC)	6	32190620	T	C
TG (GLGC)	6	32192617	T	C
TG (GLGC)	6	32194339	T	C
TG (GLGC)	6	32194609	G	A
TG (GLGC)	6	32205942	T	C
TG (GLGC)	6	32209027	T	C
TG (GLGC)	6	32210799	G	A
TG (GLGC)	6	32213150	G	A
TG (GLGC)	6	32213210	G	A
TG (GLGC)	6	32215188	T	C
TG (GLGC)	6	32215796	T	G

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
TG (GLGC)	6	32217092	T	C
TG (GLGC)	6	32217232	G	A
TG (GLGC)	6	32218843	G	A
TG (GLGC)	6	32221228	T	C
TG (GLGC)	6	32234953	T	G
TG (GLGC)	6	32289318	T	C
TG (GLGC)	6	32290954	G	A
TG (GLGC)	6	32335204	G	A
TG (GLGC)	6	32338695	G	A
TG (GLGC)	6	32357133	T	C
TG (GLGC)	6	32357715	T	C
TG (GLGC)	6	32399337	T	C
TG (GLGC)	6	32401079	G	A
TG (GLGC)	6	32570994	T	C
TG (GLGC)	6	32575983	G	A
TG (GLGC)	6	32578082	T	C
TG (GLGC)	6	32590925	G	A
TG (GLGC)	6	32602269	T	G
TG (GLGC)	6	32605884	T	C
TG (GLGC)	6	32614917	T	C
TG (GLGC)	6	32626272	C	A
TG (GLGC)	6	32626537	T	G
TG (GLGC)	6	32626750	G	A
TG (GLGC)	6	32634467	T	C
TG (GLGC)	6	32659645	G	A
TG (GLGC)	6	32667910	G	A
TG (GLGC)	6	32669373	T	C
TG (GLGC)	6	32682812	C	A
TG (GLGC)	6	32682862	T	C
TG (GLGC)	6	32684257	G	A
TG (GLGC)	6	32751962	T	C
TG (GLGC)	6	43757896	C	A
TG (GLGC)	6	43758873	G	A
TG (GLGC)	6	43764551	T	C
TG (GLGC)	7	116358044	G	A
TG (GLGC)	7	130432481	T	C
TG (GLGC)	7	130437476	G	A
TG (GLGC)	7	130437689	G	A
TG (GLGC)	7	130453382	G	A
TG (GLGC)	7	130466091	G	A
TG (GLGC)	7	130466854	G	A
TG (GLGC)	7	25939161	T	C
TG (GLGC)	7	25939723	T	G
TG (GLGC)	7	25955754	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
TG (GLGC)	7	25971153	G	A
TG (GLGC)	7	25991826	T	C
TG (GLGC)	7	25997536	G	A
TG (GLGC)	7	26397239	C	A
TG (GLGC)	7	71979623	G	A
TG (GLGC)	7	72313144	T	C
TG (GLGC)	7	72722981	G	A
TG (GLGC)	7	72825125	G	A
TG (GLGC)	7	72850178	T	C
TG (GLGC)	7	72856269	G	A
TG (GLGC)	7	72870211	G	A
TG (GLGC)	7	72878044	T	G
TG (GLGC)	7	72878645	G	A
TG (GLGC)	7	72891754	T	C
TG (GLGC)	7	72904810	T	C
TG (GLGC)	7	72911843	T	C
TG (GLGC)	7	72921609	T	C
TG (GLGC)	7	72934510	G	A
TG (GLGC)	7	72974869	T	C
TG (GLGC)	7	72977898	G	A
TG (GLGC)	7	72981883	C	A
TG (GLGC)	7	72992350	T	C
TG (GLGC)	7	73012042	G	A
TG (GLGC)	7	73020301	T	C
TG (GLGC)	7	73026378	T	C
TG (GLGC)	7	73042085	T	C
TG (GLGC)	7	73042443	T	C
TG (GLGC)	7	73042585	T	C
TG (GLGC)	7	73043101	G	A
TG (GLGC)	7	73043665	T	C
TG (GLGC)	7	73045204	G	A
TG (GLGC)	7	73046758	C	A
TG (GLGC)	7	73046779	G	A
TG (GLGC)	7	73050864	G	A
TG (GLGC)	7	73057550	G	A
TG (GLGC)	7	73058017	G	A
TG (GLGC)	7	73059019	T	C
TG (GLGC)	7	73059990	T	C
TG (GLGC)	7	73060006	T	C
TG (GLGC)	7	73063515	T	C
TG (GLGC)	7	73087884	T	C
TG (GLGC)	7	73096993	T	C
TG (GLGC)	7	73097654	T	C
TG (GLGC)	7	73107003	C	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
TG (GLGC)	7	73113483	T	C
TG (GLGC)	7	73121347	G	A
TG (GLGC)	7	73122923	G	A
TG (GLGC)	7	73123473	G	A
TG (GLGC)	8	10190040	T	C
TG (GLGC)	8	10585194	T	C
TG (GLGC)	8	10600254	G	A
TG (GLGC)	8	10606672	T	C
TG (GLGC)	8	10611882	G	A
TG (GLGC)	8	10614275	T	G
TG (GLGC)	8	10620026	T	C
TG (GLGC)	8	10635222	T	G
TG (GLGC)	8	10641965	G	A
TG (GLGC)	8	10643164	T	C
TG (GLGC)	8	10649086	C	A
TG (GLGC)	8	10661734	G	A
TG (GLGC)	8	10668047	G	A
TG (GLGC)	8	10671260	G	A
TG (GLGC)	8	10674467	T	C
TG (GLGC)	8	10675188	T	C
TG (GLGC)	8	10677981	T	C
TG (GLGC)	8	10682777	G	A
TG (GLGC)	8	10683127	T	C
TG (GLGC)	8	10683623	G	A
TG (GLGC)	8	10689050	T	C
TG (GLGC)	8	10690319	G	A
TG (GLGC)	8	10701959	T	C
TG (GLGC)	8	10702534	G	A
TG (GLGC)	8	10705896	T	C
TG (GLGC)	8	10706162	G	A
TG (GLGC)	8	10716028	G	A
TG (GLGC)	8	10797831	G	A
TG (GLGC)	8	10836024	T	C
TG (GLGC)	8	10982051	G	A
TG (GLGC)	8	11012977	T	C
TG (GLGC)	8	11037034	G	A
TG (GLGC)	8	11045161	G	A
TG (GLGC)	8	11069960	T	C
TG (GLGC)	8	11087475	G	A
TG (GLGC)	8	11376266	T	C
TG (GLGC)	8	11396856	C	A
TG (GLGC)	8	11411823	G	A
TG (GLGC)	8	11433909	T	C
TG (GLGC)	8	11444516	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
TG (GLGC)	8	11450587	T	G
TG (GLGC)	8	11508731	T	C
TG (GLGC)	8	11616410	T	C
TG (GLGC)	8	11622293	T	C
TG (GLGC)	8	11654796	G	A
TG (GLGC)	8	11689228	T	G
TG (GLGC)	8	11829308	T	C
TG (GLGC)	8	11843758	G	A
TG (GLGC)	8	126444788	G	A
TG (GLGC)	8	126447308	T	C
TG (GLGC)	8	126447473	G	A
TG (GLGC)	8	126448789	G	A
TG (GLGC)	8	126449406	T	C
TG (GLGC)	8	126452509	T	C
TG (GLGC)	8	126456376	G	A
TG (GLGC)	8	126457553	G	A
TG (GLGC)	8	126459962	G	A
TG (GLGC)	8	126459990	G	A
TG (GLGC)	8	126462070	G	A
TG (GLGC)	8	126463365	G	A
TG (GLGC)	8	126468621	T	G
TG (GLGC)	8	126470817	G	A
TG (GLGC)	8	126472487	G	A
TG (GLGC)	8	126473441	G	A
TG (GLGC)	8	126474306	G	A
TG (GLGC)	8	126474356	G	A
TG (GLGC)	8	126474405	T	G
TG (GLGC)	8	126480367	T	C
TG (GLGC)	8	126480526	T	C
TG (GLGC)	8	126481694	T	C
TG (GLGC)	8	126482077	G	A
TG (GLGC)	8	126485531	T	C
TG (GLGC)	8	126486287	T	G
TG (GLGC)	8	126486409	G	A
TG (GLGC)	8	126486906	G	A
TG (GLGC)	8	126487857	G	A
TG (GLGC)	8	126488930	G	A
TG (GLGC)	8	126489818	G	A
TG (GLGC)	8	126491304	T	C
TG (GLGC)	8	126493392	G	A
TG (GLGC)	8	126493746	G	A
TG (GLGC)	8	126494562	T	C
TG (GLGC)	8	126494764	G	A
TG (GLGC)	8	126495818	T	C

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
TG (GLGC)	8	126501177	T	C
TG (GLGC)	8	126504726	T	C
TG (GLGC)	8	126504762	G	A
TG (GLGC)	8	126514676	T	C
TG (GLGC)	8	126516197	G	A
TG (GLGC)	8	126516988	T	C
TG (GLGC)	8	126520544	G	A
TG (GLGC)	8	126521465	G	A
TG (GLGC)	8	126523523	T	C
TG (GLGC)	8	126525035	G	A
TG (GLGC)	8	126525814	G	A
TG (GLGC)	8	126526063	T	G
TG (GLGC)	8	126528722	G	A
TG (GLGC)	8	126541659	G	A
TG (GLGC)	8	126546197	T	G
TG (GLGC)	8	126559887	T	C
TG (GLGC)	8	126630159	T	C
TG (GLGC)	8	126645018	T	C
TG (GLGC)	8	126648134	T	C
TG (GLGC)	8	18211158	T	C
TG (GLGC)	8	18228116	G	A
TG (GLGC)	8	18255709	G	A
TG (GLGC)	8	18260598	G	A
TG (GLGC)	8	18262546	T	C
TG (GLGC)	8	18266774	G	A
TG (GLGC)	8	18266953	T	C
TG (GLGC)	8	18267338	G	A
TG (GLGC)	8	18267878	G	A
TG (GLGC)	8	18271120	T	C
TG (GLGC)	8	18272881	G	A
TG (GLGC)	8	18286997	T	C
TG (GLGC)	8	19507270	T	G
TG (GLGC)	8	19514934	T	C
TG (GLGC)	8	19515570	T	G
TG (GLGC)	8	19564149	G	A
TG (GLGC)	8	19568696	G	A
TG (GLGC)	8	19576448	T	C
TG (GLGC)	8	19576471	T	G
TG (GLGC)	8	19576883	T	C
TG (GLGC)	8	19577267	G	A
TG (GLGC)	8	19590044	G	A
TG (GLGC)	8	19605966	G	A
TG (GLGC)	8	19614339	T	C
TG (GLGC)	8	19621333	T	C

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
TG (GLGC)	8	19622349	T	C
TG (GLGC)	8	19622968	G	A
TG (GLGC)	8	19623129	C	A
TG (GLGC)	8	19625912	G	A
TG (GLGC)	8	19632090	T	G
TG (GLGC)	8	19634829	T	C
TG (GLGC)	8	19635117	T	C
TG (GLGC)	8	19639509	T	C
TG (GLGC)	8	19650333	T	C
TG (GLGC)	8	19662458	G	A
TG (GLGC)	8	19709575	T	C
TG (GLGC)	8	19712564	T	C
TG (GLGC)	8	19715236	G	A
TG (GLGC)	8	19717091	G	A
TG (GLGC)	8	19720833	T	C
TG (GLGC)	8	19726130	G	A
TG (GLGC)	8	19727047	T	C
TG (GLGC)	8	19728815	T	G
TG (GLGC)	8	19734951	G	A
TG (GLGC)	8	19738260	G	A
TG (GLGC)	8	19738812	T	G
TG (GLGC)	8	19739243	T	G
TG (GLGC)	8	19748856	T	C
TG (GLGC)	8	19749390	T	C
TG (GLGC)	8	19751939	T	C
TG (GLGC)	8	19752207	G	A
TG (GLGC)	8	19755626	C	A
TG (GLGC)	8	19755977	T	G
TG (GLGC)	8	19757319	G	A
TG (GLGC)	8	19762816	C	A
TG (GLGC)	8	19774890	C	A
TG (GLGC)	8	19775521	T	C
TG (GLGC)	8	19782715	G	A
TG (GLGC)	8	19786891	T	C
TG (GLGC)	8	19797916	T	G
TG (GLGC)	8	19799641	T	G
TG (GLGC)	8	19800005	G	A
TG (GLGC)	8	19802402	T	C
TG (GLGC)	8	19805708	G	A
TG (GLGC)	8	19810787	C	A
TG (GLGC)	8	19811417	T	C
TG (GLGC)	8	19812812	T	C
TG (GLGC)	8	19813180	G	A
TG (GLGC)	8	19813667	T	G

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
TG (GLGC)	8	19813702	G	A
TG (GLGC)	8	19814289	T	C
TG (GLGC)	8	19815098	T	C
TG (GLGC)	8	19815189	T	C
TG (GLGC)	8	19816371	T	C
TG (GLGC)	8	19816934	T	C
TG (GLGC)	8	19818042	G	A
TG (GLGC)	8	19818436	C	A
TG (GLGC)	8	19818976	C	A
TG (GLGC)	8	19819439	G	A
TG (GLGC)	8	19823192	T	C
TG (GLGC)	8	19824669	C	A
TG (GLGC)	8	19824896	T	G
TG (GLGC)	8	19826373	G	A
TG (GLGC)	8	19830170	T	G
TG (GLGC)	8	19830921	T	C
TG (GLGC)	8	19831977	G	A
TG (GLGC)	8	19833729	T	C
TG (GLGC)	8	19833966	T	C
TG (GLGC)	8	19838469	T	C
TG (GLGC)	8	19843137	C	A
TG (GLGC)	8	19843462	C	A
TG (GLGC)	8	19847060	G	A
TG (GLGC)	8	19847690	C	A
TG (GLGC)	8	19848080	G	A
TG (GLGC)	8	19848396	G	A
TG (GLGC)	8	19852156	T	G
TG (GLGC)	8	19852948	C	A
TG (GLGC)	8	19853146	T	C
TG (GLGC)	8	19854361	T	G
TG (GLGC)	8	19854773	T	C
TG (GLGC)	8	19855030	T	C
TG (GLGC)	8	19856539	T	C
TG (GLGC)	8	19858330	T	C
TG (GLGC)	8	19859120	T	C
TG (GLGC)	8	19860197	C	A
TG (GLGC)	8	19862746	G	A
TG (GLGC)	8	19863024	T	C
TG (GLGC)	8	19863301	G	A
TG (GLGC)	8	19863873	T	C
TG (GLGC)	8	19865843	G	A
TG (GLGC)	8	19868971	T	C
TG (GLGC)	8	19869366	T	G
TG (GLGC)	8	19870693	G	A

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
TG (GLGC)	8	19871629	T	C
TG (GLGC)	8	19871637	T	C
TG (GLGC)	8	19875365	G	A
TG (GLGC)	8	19878154	T	C
TG (GLGC)	8	19878356	T	C
TG (GLGC)	8	19879809	G	A
TG (GLGC)	8	19881186	T	C
TG (GLGC)	8	19889125	T	G
TG (GLGC)	8	19890612	G	A
TG (GLGC)	8	19890654	T	C
TG (GLGC)	8	19890776	C	A
TG (GLGC)	8	19899046	T	C
TG (GLGC)	8	19914598	C	A
TG (GLGC)	8	19916120	G	A
TG (GLGC)	8	19919655	T	C
TG (GLGC)	8	19922610	G	A
TG (GLGC)	8	19928160	G	A
TG (GLGC)	8	19932088	T	C
TG (GLGC)	8	19933896	T	C
TG (GLGC)	8	19936687	G	A
TG (GLGC)	8	19939049	T	C
TG (GLGC)	8	19941027	T	C
TG (GLGC)	8	19941078	T	G
TG (GLGC)	8	19941145	C	A
TG (GLGC)	8	19941448	T	C
TG (GLGC)	8	19941854	G	A
TG (GLGC)	8	19943027	G	A
TG (GLGC)	8	19943308	G	A
TG (GLGC)	8	19943364	T	C
TG (GLGC)	8	19944078	T	C
TG (GLGC)	8	19949300	T	C
TG (GLGC)	8	19961274	T	C
TG (GLGC)	8	19968929	T	C
TG (GLGC)	8	59353534	T	C
TG (GLGC)	8	8263945	G	A
TG (GLGC)	8	8269691	G	A
TG (GLGC)	8	8273043	T	G
TG (GLGC)	8	8279462	T	G
TG (GLGC)	8	8692477	T	C
TG (GLGC)	8	9184930	T	C
TG (GLGC)	8	9192927	T	C
TG (GLGC)	8	9239458	T	G
TG (GLGC)	8	9265464	C	A
TG (GLGC)	8	9267117	T	C

Table S14: Genetic variants used in the presented analyses. Note that due to coverage of the GWAS chip the instruments differed across considered outcomes (*continued*)

Exposure	Chromosome	Base-pair position (Build 37)	Other allele	Effect allele
TG (GLGC)	8	9267251	T	G
TG (GLGC)	8	9370559	T	C
TG (GLGC)	8	9395532	G	A
TG (GLGC)	8	9438928	T	C
TG (GLGC)	8	9511654	G	A
TG (GLGC)	8	9571445	T	C
TG (GLGC)	8	9669775	G	A
TG (GLGC)	8	9794369	T	C
TG (GLGC)	9	107664301	T	C
TG (GLGC)	9	15304782	C	A
TG (GLGC)	9	16904080	G	A

Table S15: Conditional F-statistics for the considered multivariable Mendelian randomisation models

Exposure	Median	Quantile: 0.15	Quantile: 0.85	Conditional model
Apo-A1	15.75	15.62	16.05	LDL-C
HDL-C	18.36	17.84	19.28	LDL-C
Apo-B	11.02	9.11	11.54	LDL-C
VLDL-C	7.88	7.80	8.02	LDL-C
IDL-C	6.41	5.98	6.93	LDL-C
Rem-cholesterol	6.15	6.05	6.46	LDL-C
TG	13.34	12.88	13.79	LDL-C
TC	14.17	12.57	14.82	LDL-C
Apo-A1	15.60	15.52	15.81	HDL-C
Apo-B	18.24	17.40	19.00	HDL-C
LDL-C	25.85	23.58	26.17	HDL-C
VLDL-C	7.49	7.45	7.60	HDL-C
IDL-C	24.86	24.20	25.51	HDL-C
Rem-cholesterol	7.40	7.40	7.65	HDL-C
TG	12.27	11.90	13.42	HDL-C
TC	29.57	28.92	29.95	HDL-C
Apo-A1	16.45	16.26	16.78	TG
HDL-C	14.54	14.37	14.86	TG
Apo-B	18.11	16.85	19.30	TG
LDL-C	19.85	16.94	20.80	TG
VLDL-C	3.13	3.07	3.13	TG
IDL-C	18.96	16.92	19.54	TG
Rem-cholesterol	6.61	6.58	6.75	TG
TC	18.12	16.67	18.64	TG
Apo-A1	3.16	3.01	3.24	LDL-C, HDL-C & TG
HDL-C	11.11	10.94	11.31	LDL-C & TG
Apo-B	2.65	2.61	2.75	LDL-C, HDL-C & TG
LDL-C	16.71	14.95	17.83	HDL-C & TG
VLDL-C	2.74	2.72	2.83	LDL-C, HDL-C & TG
IDL-C	5.49	5.42	5.74	LDL-C, HDL-C & TG
Rem-cholesterol	3.15	3.13	3.29	LDL-C, HDL-C & TG
TG	8.61	8.46	9.37	LDL-C & HDL-C
TC	2.81	2.79	2.93	LDL-C, HDL-C & TG

Supplementary results

NMR GWAS participants characteristics

Genetic instruments for cholesterol-containing lipoprotein and apolipoprotein concentrations were sourced from a meta-analysis of Kettunen et al, and the UCLEB consortium. The former included data from Finnish, Estonian, Dutch and German cohorts, with a median age of 46.9 years, median BMI of 26.35 kg/m² and 54% women enrolled, see [2]. UCLEB consisted of UK-based cohorts with a mean age of 58.6 years, mean BMI of 26.4 kg/m², and 44% women included [1]. Please see the source publications referred to in the main manuscript for the subject characteristics of the outcome data.

Validation of the LDL-C, HDL-C and TG MR effects on disease incidence and biomarkers

The univariable MR effects of LDL-C, HDL-C, and TG were validated using independent replication data from GLGC based on clinical chemistry measurements (Figure S2), showing strong agreement both in terms of effect direction and significance.

Univariable MR of Apo-B and Apo-A1 concentration

The MR analyses described for lipid fractions used instruments selected from across the genome (genome-wide MR). In these analyses, horizontal pleiotropy was addressed analytically (see methods). As described by Schmidt et al. 2020 [4] MR analyses of protein concentration, such as Apo-B and Apo-A1, may be protected further against horizontal pleiotropy by selecting instrument from a cis window around the protein encoding gene. Here we compared results from genome-wide MR to that of cis-MR and explored agreement (Figure S2, and Tables S11 -12).

Higher Apo-B concentration was positively associated with the risk of CHD, (ischemic) stroke, CD, Alzheimer's disease, and further-

more increased cIMT, carotid plaque and SBP. Conversely, higher genetically instrumented Apo-B concentration was associated with lower HbA1c concentration as well as with pancreatic cancer risk. Aside from a directionally discordant effect on HF and arthritis, results from both cis and genome-wide approaches agreed in both effect direction and magnitude, providing empirical support for analytical correction of horizontal pleiotropy. For HF and arthritis, we made further comparisons against the LDL-C, IDL-C and VLDL-C (the carriers Apo-B) effects, providing support for the observed genome-wide Apo-B effect where higher concentrations increased HF risk and lowered arthritis risk (Figure S2). Due to the modest number of cis variants for Apo-A1 (2 APOA1 variants compared to 8 for APOB; Tables S11 -12) agreement between both analytical methods was limited. Instead, we focussed on the genome-wide MR results, where we expect the larger number of variant leads to better control of horizontal pleiotropy. The genome-wide MR results suggest that higher ApoA-1 concentration decreases the risk of CHD, and T2DM, decreases carotid plaque size, DBP, while increasing CRP concentrations (Figure S2).

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UCLEB consortium

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