

SUPPLEMENTARY TABLES

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Supplementary Table 1. Independent IVs of body lean mass (kg), handgrip strength (left, kg) and handgrip strength (right, kg) in stage 1 analysis.

Supplementary Table 2. Independent IVs of body lean mass (kg), handgrip strength (left, kg) and handgrip strength (right, kg) in stage 2 analysis.

Supplementary Table 3. MR-Egger analysis and variance explained by IVs in stage 2 analysis.

Exposure	outcome	egger_intercept	se	p-value	snp_r2.exposure	snp_r2.outcome	MR-Steiger test
CAD	Body lean mass	0.003232	0.003535	0.3664673	0.0134791	0.0028114	TRUE
CAD	Hand grip strength (left)	-0.00016	0.0014287	0.9125408	0.0134791	0.0003529	TRUE
CAD	Hand grip strength (right)	-0.00054	0.0013761	0.6950098	0.0134791	0.0003309	TRUE

Supplementary Table 4. Independent IVs of body lean mass (kg), handgrip strength (left, kg) and handgrip strength (right, kg) and coronary artery disease in negative control analysis.

Supplementary Table 5. Two-sample mendelian randomization analysis of negative control (myopia).

Exposure	outcome	method	n. IVs	P.value	beta (95% CI)
CAD	myopia	MR Egger	39	0.374	-0.004 (-0.013,0.005)
CAD	myopia	Weighted median	39	0.238	-0.003(-0.007,0.002)
CAD	myopia	Inverse variance weighted	39	0.75	0.001(-0.003,0.004)
CAD	myopia	Inverse variance weighted (multiplicative random effects)	39	0.75	0.001(-0.003,0.004)
CAD	myopia	Inverse variance weighted (fixed effects)	39	0.657	0.001(-0.002,0.003)
CAD	myopia	Robust adjusted profile score (RAPS)	39	0.99	0(-0.004,0.004)
body lean mass	myopia	MR Egger	405	0.883	-0.001(-0.018,0.015)
body lean mass	myopia	Weighted median	405	0.02	0.009(0.001,0.017)
body lean mass	myopia	Inverse variance weighted	405	0.17	0.005(-0.002,0.011)
body lean mass	myopia	Inverse variance weighted (multiplicative random effects)	405	0.17	0.005(-0.002,0.011)
body lean mass	myopia	Inverse variance weighted (fixed effects)	405	0.065	0.005(0,0.01)
body lean mass	myopia	Robust adjusted profile score (RAPS)	405	0.099	0.006(-0.001,0.012)
Hand grip strength (left)	myopia	MR Egger	85	0.233	0.039(-0.024,0.102)
Hand grip strength (left)	myopia	Weighted median	85	0.145	0.014(-0.005,0.032)
Hand grip strength (left)	myopia	Inverse variance weighted	85	0.399	0.007(-0.009,0.022)
Hand grip strength (left)	myopia	Inverse variance weighted (multiplicative random effects)	85	0.399	0.007(-0.009,0.022)
Hand grip strength (left)	myopia	Inverse variance weighted (fixed effects)	85	0.264	0.007(-0.005,0.019)
Hand grip strength (left)	myopia	Robust adjusted profile score (RAPS)	85	0.262	0.009(-0.007,0.024)
Hand grip strength (right)	myopia	MR Egger	101	0.173	0.035(-0.015,0.085)
Hand grip strength (right)	myopia	Weighted median	101	0.176	0.011(-0.005,0.027)
Hand grip strength (right)	myopia	Inverse variance weighted	101	0.505	0.004(-0.009,0.018)
Hand grip strength (right)	myopia	Inverse variance weighted (multiplicative random effects)	101	0.505	0.004(-0.009,0.018)
Hand grip strength (right)	myopia	Inverse variance weighted (fixed effects)	101	0.421	0.004(-0.006,0.015)
Hand grip strength (right)	myopia	Robust adjusted profile score (RAPS)	101	0.457	0.005(-0.008,0.018)

CAD: coronary artery disease; IVs: instrumental variables.

Supplementary Table 6. MR-Egger analysis and explained by selected IVs of negative control (myopia).

Exposure	outcome	MR-Egger. intercept	se	p.val	r².exposure	r².outcome
CAD	myopia	0.0004999	0.0004338	0.25656	0.0134791	0.0002211
lean mass	myopia	0.0000988	0.0001305	0.44943	0.0898249	0.0022361
Hand grip strength (left)	myopia	-0.0004489	0.0004375	0.307857	0.0119751	0.0004522
Hand grip strength (right)	myopia	-0.0004309	0.0003468	0.216888	0.0142341	0.0004624

r² means phenotypes explained by selected IVs. CAD: coronary artery disease; IVs: instrumental variables.