

Supplementary Table 3: Association results for individual trait genetic risk scores. Relationships between the risk scores and the traits were examined using marginal models with generalized estimating equations. Models were adjusted for age and sex. Associations are reported for a one unit increase in genetic risk score. Abbreviations: CAC, coronary artery calcification; CAD, coronary artery disease; CI, confidence interval; CRP, C-reactive protein; eGFR, estimated glomerular filtration rate; MI, myocardial infarction.

Risk Score	All-Cause Mortality				CVD Mortality				Self-reported History of MI				Self-reported History of CVD				Coronary Artery Calcification			
	Hazard Ratio	95% CI		p-value	Hazard Ratio	95% CI		p-value	Odds Ratio	95% CI		p-value	Odds Ratio	95% CI		p-value	Beta Estimate	95% CI		p-value
Blood pressure traits	1.01	0.97	1.05	0.523	1.00	0.95	1.05	0.983	0.99	0.94	1.04	0.703	0.99	0.94	1.03	0.572	-0.035	-0.086	0.017	0.189
BMI	1.01	0.97	1.05	0.585	1.00	0.95	1.06	0.923	1.04	0.99	1.09	0.137	1.02	0.98	1.06	0.299	0.018	-0.028	0.064	0.435
CAC	1.04	0.93	1.17	0.502	1.04	0.89	1.23	0.595	1.10	0.94	1.29	0.244	1.16	1.02	1.33	0.028	0.178	0.034	0.321	0.015
CAD	1.03	1.00	1.07	0.065	1.07	1.01	1.13	0.020	1.10	1.05	1.16	0.0002	1.03	0.98	1.08	0.216	0.087	0.043	0.131	0.0001
CRP	1.05	0.99	1.10	0.082	1.00	0.93	1.08	0.994	1.00	0.94	1.07	0.895	1.00	0.95	1.06	0.876	0.017	-0.045	0.079	0.590
Electrocardiogram traits	1.02	0.98	1.06	0.322	1.05	0.99	1.10	0.097	1.00	0.95	1.05	0.926	0.99	0.94	1.03	0.518	0.036	-0.009	0.081	0.118
Fasting glucose	0.98	0.94	1.02	0.390	0.98	0.92	1.05	0.586	1.00	0.93	1.06	0.892	1.00	0.95	1.06	0.932	-0.006	-0.064	0.051	0.826
eGFR	1.00	0.96	1.03	0.756	0.99	0.95	1.04	0.815	1.05	1.00	1.11	0.043	1.02	0.97	1.06	0.455	0.008	-0.040	0.057	0.733
HDL cholesterol	0.99	0.96	1.02	0.399	0.99	0.95	1.04	0.709	0.99	0.95	1.04	0.775	1.00	0.97	1.04	0.787	0.029	-0.008	0.066	0.120
LDL cholesterol	1.00	0.97	1.02	0.695	1.00	0.96	1.04	1.000	1.01	0.97	1.04	0.750	1.01	0.98	1.05	0.432	0.034	-0.002	0.071	0.064
Stroke	1.04	0.94	1.16	0.436	1.13	0.99	1.30	0.074	0.85	0.74	0.97	0.021	0.94	0.84	1.05	0.284	0.009	-0.105	0.123	0.875
Type 2 Diabetes	0.98	0.96	1.01	0.137	0.95	0.92	0.99	0.008	1.01	0.97	1.05	0.541	1.00	0.96	1.03	0.877	0.006	-0.029	0.041	0.728
Total Cholesterol	0.99	0.96	1.02	0.465	0.97	0.93	1.01	0.102	1.00	0.96	1.04	0.868	1.01	0.98	1.04	0.517	0.034	-0.002	0.070	0.062
Triglycerides	1.00	0.96	1.03	0.828	1.00	0.95	1.05	0.966	1.00	0.95	1.05	0.971	0.98	0.94	1.02	0.237	0.059	0.016	0.102	0.007