Supplementary Table 4: Association results for all individual trait genetic risk scores analyzed in a single model, with additional adjustment for age and sex. Relationships were examined using marginal models with generalized estimating equations. Associations are reported for a one unit increase in each genetic risk score, adjusting for covariates and all other individual genetic risk scores. 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	0.678	0.99	0.94 1.05	0.745	0.98	0.92 1.04	0.451	0.99	0.94 1.03	0.607	-0.039	-0.089 0.012	0.132
BMI	1.01	0.97 1.05	0.628	1.00	0.94 1.06	0.991	1.04	0.99 1.09	0.133	1.02	0.98 1.06	0.265	0.011	-0.035 0.056	0.649
CAC	1.03	0.91 1.16	0.699	1.01	0.85 1.19	0.943	1.06	0.90 1.25	0.479	1.16	1.01 1.33	0.038	0.130	-0.012 0.272	0.074
CAD	1.04	1.00 1.08	0.046	1.08	1.02 1.15	0.011	1.10	1.05 1.16	0.0003	1.02	0.97 1.07	0.400	0.077	0.032 0.122	0.001
CRP	1.05	0.99 1.10	0.087	1.00	0.93 1.09	0.922	1.00	0.93 1.07	0.974	1.00	0.95 1.06	0.894	0.024	-0.037 0.084	0.448
Electrocardiogram traits	1.03	0.99 1.07	0.193	1.06	1.00 1.12	0.036	1.01	0.95 1.06	0.826	0.99	0.94 1.03	0.547	0.046	0.002 0.091	0.042
Fasting glucose	0.99	0.95 1.04	0.678	0.99	0.93 1.06	0.855	0.98	0.91 1.05	0.564	1.00	0.94 1.05	0.860	-0.002	-0.059 0.055	0.952
eGFR	1.00	0.96 1.03	0.832	1.00	0.95 1.05	0.863	1.05	1.00 1.11	0.045	1.02	0.98 1.07	0.355	0.018	-0.031 0.068	0.466
HDL cholesterol	0.98	0.95 1.02	0.281	0.98	0.93 1.03	0.378	0.99	0.94 1.04	0.613	1.01	0.98 1.05	0.484	0.010	-0.030 0.049	0.640
LDL cholesterol	1.00	0.97 1.04	0.820	1.03	0.98 1.09	0.284	1.01	0.96 1.07	0.724	1.01	0.96 1.06	0.683	0.015	-0.030 0.060	0.512
Stroke	1.05	0.95 1.16	0.376	1.15	1.00 1.32	0.050	0.83	0.72 0.96	0.012	0.93	0.83 1.04	0.225	0.001	-0.110 0.111	0.992
Type 2 Diabetes	0.98	0.95 1.01	0.125	0.95	0.91 0.98	0.004	1.01	0.97 1.05	0.679	1.00	0.96 1.03	0.864	-0.003	-0.039 0.032	0.863
Total Cholesterol	0.98	0.95 1.02	0.400	0.94	0.89 0.99	0.030	0.99	0.94 1.04	0.672	1.01	0.96 1.05	0.748	0.019	-0.026 0.063	0.408
Triglycerides	1.00	0.97 1.04	0.861	1.01	0.96 1.07	0.605	1.00	0.95 1.05	0.963	0.97	0.93 1.01	0.124	0.050	0.002 0.097	0.040