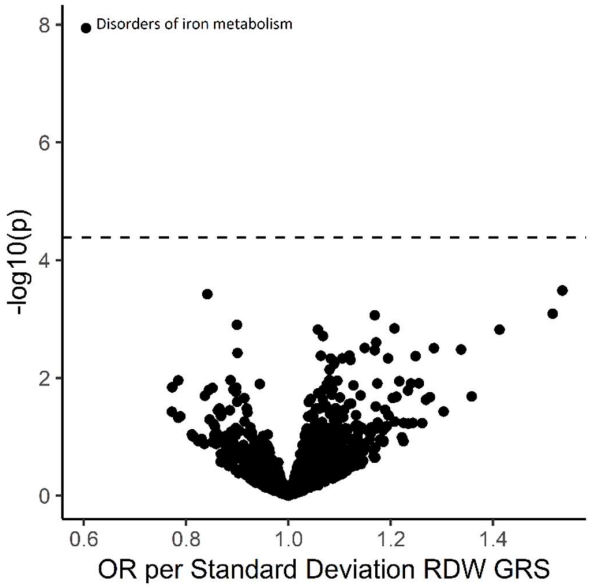
Supplemental Table 2

Validation of each genetic risk score for a cardiovascular disease or cardiovascular disease risk factor against predicted phenotype

| Genetic risk score (GRS) | Number of genetic variants | PheWAS Phenotype | OR (per standard deviation GRS) | P |
|---|---|---|---|---|
| Coronary artery disease | 24 | "Coronary atherosclerosis" | 1.25 | $2x10^{-23}$ |
| Heart failure with reduced ejection fraction | 7 | "Congestive heart failure (CHF) NOS" | 1.16 | $4x10^{-11}$ |
| Peripheral arterial disease | 12 | "Atherosclerosis of the extremities" | 1.24 | $2x10^{-7}$ |
| Venous thromboembolism | 20 | "Deep vein thrombosis [DVT]" | 1.36 | $4x10^{-18}$ |
| Atrial fibrillation | 63 | "Atrial fibrillation and flutter | 1.26 | $1x10^{-20}$ |
| Systolic blood pressure | 127 | "Hypertension" | 1.12 | $3x10^{-9}$ |
| Diastolic blood pressure | 184 | "Hypertension" | 1.09 | $1x10^{-6}$ |
| Low-density lipoprotein | 64 | "Hypercholesterolemia" | 1.24 | $3x10^{-20}$ |
| High-density lipoprotein | 76 | "Hypercholesterolemia" | 0.9 | $2x10^{-5}$ |
| Triglycerides | 75 | "Hyperglyceridemia" | 1.32 | $6x10^{-5}$ |
| Body mass index | 1027 | "Obesity" | 1.42 | $1x10^{-59}$ |
| Type 2 diabetes mellitus | 92 | "Type 2 diabetes" | 1.38 | $2x10^{-63}$ |
| Estimated glomerular filtration rate | 65 | "Chronic renal failure [CKD]" | 0.87 | $1x10^{-9}$ |




Supplemental Figure S1: Full phenome-wide association studies of RDW GRS revealed no significant non-hematologic phenotype associations with RDW GRS. Dashed line represents Bonferroni corrected P value threshold determined by logistic regression.