Supplement data: Equation calculating process of the average 10 years risk probability.

The estimated partial regression coefficients, hazard ratio, and their corresponding 95% confidence intervals (CI) are shown in Table 2; the descriptive characteristics are shown in Table 1. Based on the parameters and data above, the risk score for the ACS group was calculated as $f_{(ACS)}(X,M)$ = 0.0329 x (age – 56.78) + 0.3153 x (sex – 0.6386) + 0.2681 x (current tobacco use – 0.8911) + 0.4821 x (BMI – 26.83) + 0.3122 x (TC – 2.192) + 0.5148 x (TG – 6.613) + 0.3221 x (LDL – 3.850). Thus, the average 10 years $RP_{(ACS)}$ was $1-0.9876^{\exp\{f_{(ACS)}[X,M]\}}$.

The CCAD group was calculated as $f_{(CCAD)}(X,M)$ = 0.0172 x (age – 48.21) + 0.2198 x (sex – 56.29) + 0.3621 x (current tobacco use – 0.5409) + 0.1346 x (BMI – 25.30) + 0.2153 x (TC – 1.852) + 0.1428 x (TG – 5.451) + 0.1392 x (LDL – 3.511). Thus, the average 10-year $RP_{(CCAD)}$ was $1-0.9821^{\exp\{f_{(CCAD)}[X,M]\}}$.

The HRP group was calculated as $f_{(HRP)}(X,M)$ = 0.0119 x (age – 52.99) + 0.2352 x (sex – 63.73) + 0.2094 x (current tobacco use – 0.7726) + 0.0986 x (BMI – 23.01) + 0.1093 x (TC – 1.822) + 0.1291 x (TG – 6.142) + 0.1481 x (LDL – 3.621). Thus, the average 10-year $RP_{(HRP)}$ was $1-0.9781^{\exp\{f_{(HRP)}[X,M]\}}$.

The HV group was calculated from $f_{(HV)}(X,M)$ = 0.0108 x (age – 46.93) + 0.1035 x (sex – 60.45) + 0.1653 x (current tobacco use – 0.4824) + 0.0982 x (BMI – 21.81) + 0.1754 x (TC – 1.123) + 0.2532 x (TG – 4.241) + 0.1987 x (LDL – 2.352). Thus, the average 10-year $RP_{(HV)}$ was $1-0.9753^{\exp\{f_{(HV)}[X,M]\}}$.