Supplementary Table 1 Measured 10-year CVD risk % (mPCE) in each combination of risk factors
Values are median (25th, 75th percentile)

KoR factors	n	Women	n	Men
None	2379	1.0 (0.5, 2.4)	1794	3.7 (1.9, 7.7)
HBP only	737	2.9 (1.2, 8.3)	555	8.4 (3.8, 16.1)
HC only	666	1.9 (0.9, 4.8)	705	5.0 (2.9, 9.5)
DM only	73	1.9 (1.1, 6.0)	55	13.3 (7.2, 25.4)
Smoking only	529	3.3 (2.1, 5.4)	477	8.1 (5.4, 13.2)
HBP, HC	429	5.1 (2.3, 11.9)	473	9.4 (4.9, 16.6)
HBP, DM	45	8.5 (4.5, 19.8)	52	21.3 (12.7, 42.9)
HBP, smoking	138	7.6 (3.5, 12.4)	127	12.4 (8.2, 20.5)
HC, DM	41	6.7 (2.6, 13.0)	30	13.7 (6.7, 27.5)
HC, smoking	124	6.0 (4.2, 9.7)	102	12.1 (8.4, 17.2)
DM, smoking	11	5.6 (4.0, 9.3)	16	21.0 (10.6, 32.4)
HBP, HC, DM	67	10.4 (5.5, 21.6)	60	24.2 (16.6, 41.8)
HBP, HC, smoking	59	8.2 (5.9, 13.3)	66	14.2 (9.7, 20.5)
HBP, DM, smoking	11	17.1 (12.3, 29.7)	7	20.0 (18.4, 44.6)
HC, DM, smoking	7	12.0 (4.4, 16.9)	3	25.0 (17.1, 36.1)
HBP, HC, DM, smoking	10	22.7 (14.9, 30.4)	8	37.6 (27.9, 45.7)

DM: diabetes (0/1); HBP: hypertension (0/1); HC: high cholesterol (0/1); KoR: Knowledge of Risk factors; mPCE: measured Pooled Cohort Equations 10-year CV risk

Supplementary Table 2 Models for estimation of pooled cohort equations (mPCE)
10 year CVD risk
All models use log-transformed mPCE as the dependent variable. The final chosen models are highlighted.

Model specification	R^2	AIC
MEN (n=4,530)		
KoR sum (categorical)	0.18	11784
KoR sum (categorical) + age	0.73	6699
KoR sum (categorical) + age + age^2	0.74	6639
HBP + HC + DM + SM	0.21	11591
HBP + HC + DM + SM + age	0.80	5387
HBP + HC + DM + SM + age + age^2	0.80	5283
HBP + HC + DM + SM + age + age^2 + age*(HBP + HC + DM + SM)	0.82	4846
HBP + HC + DM + SM + age + age^2 + age*(HC + SM)	0.82	4843
WOMEN (n=5,326)		
KoR sum (categorical)	0.26	16040
KoR sum (categorical) + age	0.80	9150
KoR sum (categorical) + age + age^2	0.80	9105
HBP + HC + DM + SM	0.26	15982
HBP + HC + DM + SM + age	0.85	7504
HBP + HC + DM + SM + age + age^2	0.85	7437
HBP + HC + DM + SM + age + age^2 + age*(HBP + HC + DM + SM)	0.87	6893
HBP + HC + DM + SM + age + age^2 + age*(HC + SM)	0.87	6904

AIC: Akaike's Information Criterion, lower values indicate better fit of data to model; DM: diabetes (0/1); HBP: hypertension (0/1); HC: high cholesterol (0/1); KoR: knowledge of risk factors; KoR sum: sum of risk factors, range 0-4; mPCE: measured Pooled Cohort Equations CV 10-year risk; SM: smoking (0/1)

KoR sum (categorical): KoR sum (0, 1, 2, 3 or 4) treated as one categorical variable with 4 levels
Interaction terms: age*(HBP + HC + DM + SM): age*HBP + age*HC + age*DM + age*SM

Supplementary Table 3 Regression coefficients for estimation of log-transformed mPCE from knowledge of risk factors and age

Model parameters	Women	Men
HBP	0.558 (0.398, 0.718)	0.219 (0.191, 0.246)
HC	0.944 (0.781, 1.107)	0.620 (0.472, 0.767)
DM	1.00614 (0.681, 1.331)	0.578 (0.522, 0.633)
Smoking	3.373 (3.178, 3.568)	2.930 (2.737, 3.123)
Age (years)	0.0546 (0.0405, 0.0688)	0.184 (0.171, 0.198)
Age^2	0.000494 (0.000368, 0.000620)	-0.000848 (-0.000972, -0.000725)
HBP*age	-0.00288 (-0.00570, -0.0000686)	-
HC*age	-0.0136 (-0.0165, -0.0108)	-0.00954 (-0.0122, -0.00684)
DM*age	-0.00542 (-0.0111, 0.000237)	-
Smoking*age	-0.0421 (-0.0457, -0.0383)	-0.0398 (-0.0436, -0.0361)
Intercept	-4.015 (-4.405, -3.626)	-5.795 (-6.181, -5.410)

DM: diabetes (0/1); HBP: hypertension (0/1); HC: high cholesterol (0/1); mPCE: measured Pooled Cohort Equations CV 10-year risk

Example: The 10-year ePCE risk for women can be calculated as exp(ΣßX - 4.02) where ß is the regression coefficient and X is the level for each KoR factor