Table S1. Derivation cohorts of SCORE[1]

| Country | Study | Source population: general population, occupational population, primary care or secondary care | Number of participants | Age range at baseline | Baseline date |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Finland | The FINRISK Study[2] | General population: residents from various areas in Finland. | 37,296 | 24-64 | $\begin{aligned} & 1972 / 1977(\mathrm{a}) \\ & 1982 / 1987(\mathrm{~b}) \\ & \hline \end{aligned}$ |
| Russia | Collaborative US-USSR study on the prevalence of dyslipoproteinemias and ischemic heart disease in American and Soviet populations[3] | General population: male residents from Moscow and Leningrad | 3,325 | 37-62 | 1975-77 |
| Norway | Norwegian Counties Study[4, 5] | General population: residents from Finnmark County in Northern Norway | 48,425 | 35-49 | 1974-78 |
| United Kingdom (BRHS) | British Regional Heart Study (BRHS)[6] | General population: male residents from 24 British towns recruited through general practices* | 7,292 | 38-61 | 1978-80 |
| United Kingdom (Scotland) | Scottish Heart Health and Scottish MONICA cohort follow up studies[7] | General population: residents from 25 districts in Scotland recruited through general practices* | 12,285 | 25-66 | 1984-87 |
| Denmark | The Glostrup Population Studies[8] | General population: residents from Copenhagen County | 9,945 | 29-80 | 1977-91 |
| Sweden | The Primary Prevention Study in Göteborg (Gothenburg)[9] | General population: male residents from Göteborg | 7,435 | 47-56 | 1970-73 |
| Belgium | Belgian Interuniversity Research on Nutrition and Health (BIRNH)[10] | General population: residents from 43 districts in Belgium | 10,641 | 25-75 | 1980-1984 |
| Germany | The MONICA Augsburg cohort study[11] | General population: residents from the city of Augsburg and the Landkreise Augsburg and Aichach-Friedberg districts in Germany | 3,968 | 25-65 | 1984-85 |
| Italy | Risk Factors and Life Expectancy (RIFLE) pooling project[12] | General population: 50 samples of residents from various Italian regions. Occupational population: 1 male and 1 female sample of occupational groups in Rome | 53,439 | 19-80 | See reference |
| France | Paris prospective study[13] | Occupational population: men working in the Paris Police Administration | 7,337 | 43-53 | 1967-72 |
| Spain | Catalonia Cohort Study(1), Barcelona Multifactorial Trial (2), Factory Heart Study (3)[14-16] | General population (1): residents of Catalonia Occupational population: male workers in Spain $(2,3)$ | 4,701 | 25-68 | $\begin{aligned} & 1986-88(1) \\ & 1974-77(2) \\ & 1980-82(3) \\ & \hline \end{aligned}$ |

 population in this study is classified as the general population.

Table S2. Derivation cohorts used for the multipliers in SCORE-FNF

| Country | Study | Source population: general population, occupational population, primary care or secondary care | Number of participants | Age range at baseline | Baseline date |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Netherlands | The EPIC-NL Study[17-20] | General population: residents from Amsterdam, Doetinchem, and Maastricht (MORGEN cohort) and female residents from Utrecht or its vicinity (Prospect cohort) | 31,000 | 37.5-67.5 | 1993-97 |

Table S3. Derivation cohorts of Globorisk[21]

| Country | Study | Source population: general population, occupational population, primary care or secondary care | Number of participants | Age range at baseline | Baseline date |
| :---: | :---: | :---: | :---: | :---: | :---: |
| United States | Atherosclerosis Risk In Communities (ARIC)[22] | General population: residents from four US communities - Forsyth County, North Carolina, Jackson, Mississippi, suburbs of Minneapolis, Minnesota, and Washington County, Maryland | 13,405 | 44-66 | 1987-89 |
| United States | Cardiovascular Health Study (CHS)[23] | General population: adults aged 65 years and older from four communities Pittsburgh (Allegheny County), Pennsylvania; Forsyth County, North Carolina; Sacramento County, California; and Washington County, Maryland. | 4,364 | 66-90 | 1989-93 |
| United States | Framingham Heart Study original cohort (FHS)[24] | General population: family members in Framingham, Massachusetts | 3,027 | 40-65 | 1948-51 |
| United States | Framingham heart study offspring cohort (FHS-OFF)[25] | General population: children of family members of participants in the FHS | 1,822 | 40-62 | 1971 |
| United States | Honolulu heart program (HHP)[26, 27] | General population: men of Japanese ancestry in Hawaii | 7,572 | 45-68 | 1965-68 |
| United States | Multiple Risk Factor Intervention Trial (MRFIT)[28] | Unclear: male patients with one or more cardiovascular risk factors in 22 clinical centers in 18 cities | 10,481 | 40-57 | 1973-76 |
| United States | Puerto Rico heart health program (PRHHP)[29] | General population: urban and rural Puerto Rican men | 5,416 | 42-77 | 1965 |
| United States | women's health initiative clinical trial (WHICT)[30] | Various sources: women from the general population and women participating in screening programs or health care organizations | 4,042 | 50-79 | 1993 |

Table S4. Inclusion and exclusion criteria of SCORE, SCORE-FNF, Globo-lab and Globooffice

| SCORE / SCORE-FNF | Globo-lab and Globo-office |
| :---: | :---: |
| Age between 40 and 70 years | Age between 40 and 74 years |
| Systolic blood pressure between 120 and 180 mmHg | Systolic blood pressure between 120 and 180 mmHg |
| Total cholesterol-HDL cholesterol ratio between 3 and 8 | Total cholesterol between 1.75 and $22 \mathrm{mmol} / \mathrm{L}$ |
|  | Body mass index below $80 \mathrm{~kg} / \mathrm{m} 2$ |
| No history of Diabetes Mellitus (ICPC-1: T90) or Cardiovascular disease (ICPC-1: K75) | No history of Coronary Heart Disease or stroke (ICD- |
|  | 10: I20-125; I60-169) |
| No missing data on predictors (age, sex, systolic blood pressure, smoking status, total cholesterol- HDL cholesterol ratio, Rheumatoid Arthritis (ICPC-1: | No missing data on predictors (age, sex, systolic blood pressure, smoking status, diabetes* (ICPC-1: T90), total cholesterol", Body Mass Index ${ }^{+}$) |
| L88) |  |
| 10-year follow-up | 10-year follow-up |

* Applicable for Globo-lab only
+ Applicable for Globo-office only


## Box S1: Determination of smoking status

To determine the smoking status of a patient at baseline we first used information on smoking status in the period between 1 January 2008 and 1 January 2010 to determine whether a patient was a smoker, a non-smoker, or "smoking status unknown" at baseline. Then, we used information reported between 1 and 10 years after baseline for those with "smoking status unknown": we classified patients as non-smokers if "never smoked" had been documented and as "smoking unclear" in case of unclear or contradictory information. In the latter case we excluded these patients from the study because of unclear smoking status. Next, we assumed that the remaining patients with "smoking status unknown" were non-smokers at baseline. We checked this assumption with available data from a questionnaire that included smoking for 7 practices in our general practice research database, which showed that the assumption is plausible.

## Box S2: Adaptation to the original SCORE function

## Step 1

Calculating the 10-year risk of coronary and non-coronary cardiovascular disease separately for the person's age and their age in 10 years time, using the values for $\alpha$ and p shown in table A . The underlying survival probability, S 0 , is given by:

$$
\begin{align*}
& S(\text { age })=\exp \left\{-(\exp (\alpha))(\text { age }-20)^{\mathrm{p}}\right\} \\
& S(\text { age }+10)=\exp \left\{-(\exp (\alpha))(\text { age }-10)^{\mathrm{p}}\right\}^{*} \tag{1}
\end{align*}
$$

* the Weibull model is typically expressed in terms of $\lambda=\exp (\alpha)$


## Step 2

Using the coefficients in table B , calculate the weighted sum, $w$, of the risk factors cholesterol, smoking, and systolic blood pressure (SBP). Two weighted sums will be calculated, one for coronary heart disease and one for non-coronary cardiovascular disease. Smoking is coded as 1 for current and 0 for a non-smoker, so no value for smoking has to be entered if the person is a non-smoker. Cholesterol ratio is the HDL/Total cholesterol and SBP is measured in mmHg . The weighting for each risk factor is denoted by $\beta$.

$$
\begin{equation*}
w=\beta_{\text {ratio }}(\text { Cholesterol ratio }-5)+\beta_{S B P}(S B P-120)+\beta_{\text {SMOKER }}(\text { current }) \tag{2}
\end{equation*}
$$

## Step 3

Combine the underlying risk of coronary heart disease and for non-coronary heart cardiovascular disease, at the person's age and their age ten years from now (four calculations) that were calculated in step 1 with the weighted sum of a person's risk factors from step 2 for the two end-points, coronary heart disease and non-coronary cardiovascular disease to get the probability of survival at each age for each cause.
$S($ age $)=\left\{S_{0}(\text { age })\right\}^{\exp (w)}$

## Step 4

For each cause, calculate the 10-year survival probability based on the survival probability for the person's current age and the age in 10 years time:

$$
\begin{equation*}
S_{10}(\text { age })=S(\text { age }+10) / S(\text { age }) \tag{4}
\end{equation*}
$$

Denote the two survival probabilities as $\mathrm{SCHD}_{10}$ and $\mathrm{SNonCHD}_{10}$.

## Step 5

Calculate the 10 year risk for each end-point as

$$
\begin{equation*}
R_{10}=1-S_{10}(\mathrm{age}) \tag{5}
\end{equation*}
$$

## Step 6 (revised)

Combine the survival probabilities for the coronary heart disease and the non-coronary cardiovascular disease to get the 10-year risk of cardiovascular mortality.

$$
\begin{equation*}
\operatorname{CVDRisk}_{1}(\text { age })=1-\left[\operatorname{SCHD}_{1}(\text { age })\right] \times\left[\operatorname{SNonCHD}_{1 \mathrm{l}}(\text { age })\right] \tag{6}
\end{equation*}
$$

Table A: Coefficients for equation 1

|  |  | $\alpha$ | p | $\alpha$ | p |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Low risk | Men | -22.20379 | 4.723130 | -27.05140 | 5.764861 |
|  | Women | -29.46612 | 6.306837 | -34.88610 | 7.598497 |
| High risk | Men | -21.29703 | 4.680240 | -26.86855 | 5.785877 |
|  | Women | -28.55937 | 6.249566 | -34.70325 | 7.626199 |

Table B: Coefficients for equation 2

|  | CHD | non-CHD CVD |
| :--- | :--- | :--- |
| Current Smoker | 0.62059271 | 0.6763035 |
| Cholesterol/HDL ratio | 0.29886707 | 0.04445451 |
| Systolic BP $(\mathrm{mmHg})$ | 0.01669120 | 0.01875860 |

Table S5. ICPC-1, ICPC-2, and ICD-10 codes used for fatal and non-fatal CVD outcome measurement per model.

| Fatal CVD outcomes | SCORE | ICD-10 | I10-125, R96, I46, I47151, I61-165, G45, I67169, 170-172 except for 162.0 and 167.1 | CVD with an atherosclerotic cause, including ischemic heart disease, stroke and abdominal aortaaneurysm |
| :---: | :---: | :---: | :---: | :---: |
|  | Globorisk | ICD-10 | 120-125,160-169 | Ischemic heart disease, stroke, or sudden cardiac death |
| Non-fatal CVD outcomes | SCOREFNF | ICPC-1 | $\begin{aligned} & \text { K75, K77, K90, K91, } \\ & \text { K99.01 } \end{aligned}$ | Myocardial infarction, heart failure, stroke, and peripheral vascular disease |
|  |  | ICPC-2 | $\begin{aligned} & \text { K75, K77, K90, K91, } \\ & \text { K92 } \end{aligned}$ |  |
|  |  | ICD-10 | $\begin{aligned} & \mathrm{I} 21, \mathrm{I} 22, \mathrm{I} 50, \mathrm{I} 60-\mathrm{I} 72, \\ & \mathrm{I} 73.9, \mathrm{I} 74 \end{aligned}$ |  |
|  | Globorisk | ICPC-1 | K75, K90, K91 | Acute myocardial infarction, stroke |
|  |  | ICPC-2 | K75, K90, K91 |  |
|  |  | ICD-10 | 121, 122, 160-169 |  |

ICPC: International Classification of Primary Care; ICD: International Classification of Diseases

## Box S3: Description of ICI, E50, and E90.

ICI represents the weighted difference between smoothed observed and predicted risks in which observations are weighted by the density function of the predicted risks. E50 and E90 represent the median and 90th percentile of the absolute difference between the observed and predicted risks.[31]

## Box S4: Description of analyses that we performed to gain more insight into the selection of patients for risk assessment by GPs

First, we examined whether the general practice population differs from the general Dutch population in sex and age distribution. Second, we assessed whether the population that is eligible for risk prediction (based on age criteria and disease history) differs from the population with available information on all predictors. Third, we compared the CVD incidence rates in the populations eligible for risk prediction to the rates in the datasets used to generate the SCORE-FNF and Globorisk models. Fourth, we compared the age and SBP of the source population of the SCORE-FNF to the ages and SBPs of various populations in our dataset.

Table S6. Characteristics of patients that could and could be linked to the cause of death statistics

| Characteristics | Could not be <br> linked | Could be <br> linked |
| :--- | :--- | :--- |
| $\mathbf{N}$ | 1521 | 5776 |
| Age (years), mean $\pm$ SD | $60.3 \pm 9.0$ | $59.4 \pm 8.6$ |
| Women, $\mathbf{n}(\%)$ | $772(50.7 \%)$ | $3186(55.2 \%)$ |
| Systolic blood pressure $(\mathbf{m m H g})$ mean $\pm$ SD | $140 \pm 17.3$ | $140 \pm 16.4$ |
| Smoking, $\mathbf{n}(\%)$ | $293(19.3 \%)$ | $809(14.0 \%)$ |

Table S7. Predicted and observed percentage cardiovascular events and ratio (predicted divided by observed) for Globo-lab-based, Globo-
office-based, and SCORE-FNF by decile of risk.

|  | SCORE-FNF |  | Globo-lab |  |  | Globo-office |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Deciles of risk | Predicted events (\%) | Observed events (\%) | Ratio | Predicted events (\%) | Observed events (\%) | Ratio | Predicted events (\%) | Observed events (\%) | Ratio |
| 1 | 1.7 | 9.8 | 0.17 | 0.7 | 4.6 | 0.16 | 0.8 | 5.4 | 0.15 |
| 2 | 3.4 | 13.3 | 0.26 | 1.5 | 7.2 | 0.21 | 1.8 | 5.2 | 0.33 |
| 3 | 5.0 | 15.0 | 0.33 | 2.1 | 5.5 | 0.37 | 2.6 | 7.2 | 0.36 |
| 4 | 6.7 | 16.7 | 0.40 | 2.7 | 7.4 | 0.37 | 3.6 | 8.4 | 0.43 |
| 5 | 8.7 | 14.7 | 0.59 | 3.5 | 3.6 | 0.98 | 4.7 | 8.1 | 0.558 |
| 6 | 10.8 | 15.6 | 0.69 | 4.3 | 6.4 | 0.68 | 5.9 | 9.8 | 0.60 |
| 7 | 13.3 | 19.0 | 0.70 | 5.3 | 5.7 | 0.93 | 7.5 | 9.2 | 0.81 |
| 8 | 16.4 | 20.7 | 0.79 | 6.6 | 8.3 | 0.79 | 9.6 | 6.8 | 1.41 |
| 9 | 21.2 | 27.8 | 0.76 | 8.2 | 10.7 | 0.77 | 13.0 | 10.4 | 1.26 |
| 10 | 35.0 | 33.6 | 1.04 | 12.6 | 9.8 | 1.29 | 29.0 | 7.9 | 3.69 |
| Total | 12.2 | 18.6 | 0.66 | 4.8 | 6.9 | 0.7 | 7.8 | 7.9 | 1.0 |

Table S8. Causes of death of deceased patients based on cause of death statistics after linkage.

|  | SCORE / <br> SCORE-FNF <br> $(\mathrm{n}=1981)$ | Globo- <br> lab <br> $(\mathrm{n}=3588)$ | Globo- <br> office <br> $(\mathrm{n}=4399)$ |
| :--- | :--- | :--- | :--- |
| Cause of death: CVD | 5 | 6 | 8 |
| Number of patients with fatal CVD which were not <br> diagnosed with CVD prior to death (as reported in <br> GP-EHR) | 4 | 3 | 4 |
| Cause of death: other | 23 | 78 | 95 |
| Cause of death: unknown | 5 | 10 | 15 |
| Total number of deceased <br> patient | 36 | 94 | 118 |
| Values represent number of patients. |  |  |  |

Values represent number of patients.


Figure S1: Age and sex distribution of the practice population ( $\mathrm{n}=127.504$ ) compared to the Dutch general population at 1 January 2009

Table S9. Incidence of first CVD in the SCORE-FNF cohort and in the general practice cohort SCORE-FNF cohort* general practice cohort**

| Incidence of fatal and non-fatal CVD <br> per 1000 patients per year | 4.16 | 9.57 |
| :--- | :---: | :---: |
| $* *$ |  |  |

* The SCORE-FNF cohort [17, 20] includes 31,000 Dutch participants between 37.5-67.5 years of age who had no history of the selected CVD or DM at baseline (1993-97). The cohort included more women ( $\approx 75 \%$ ) than men ( $\approx 25 \%$ ). (During 10 years of follow up, a total number of 1,291 events were observed. For fatal CVD the ICD-codes for SCORE were used.
ICD 9: 401-414, 789.1, 798.2, 426-443 except for 426.7, 429.0, 432.1, 437.3, 437.4, 437.5.
ICD-10: (since 1996): I10-I25, R96, I46, I47-I51, I61-I65, G45, I67-I69, I70-I72 except for I62.0, I67.1. For non-fatal CVD the following ICD-9 codes were used: 410, 428, 430-436 (minus 435), 440-442, 444, 443.9.
** The general practice cohort includes 62,817 Dutch patients between 40-70 years of age who had no history of the selected CVD or DM at baseline (1 January 2009). Patients were allowed to have missing data for the risk factors used in the risk prediction models SCORE and SCORE-FNF. During 10 years of follow up, a total number of 6,010 events were observed. For fatal and non-fatal CVD the following ICPC codes were used: K75, K77, K90, K91, K99.01.
CVD: cardiovascular disease, DM: diabetes mellitus, ICD: International Classification of Diseases, ICPC: International Classification of Primary Care

Table S10: Incidence of first CVD in the Globorisk cohort and in the general practice cohort Globorisk cohort* general practice cohort**

| Incidence of fatal and non-fatal CVD 8.04 |
| :--- |
| per 1000 patients per year |
| $*$ The Globorisk cohort [21] includes 50,129 United States participants between 40-90 years of age who |
| had no history of the selected CVD at baseline (1948-1993). During 15 years of follow up, a total number |
| of 6042 events were observed. For fatal and non-fatal CVD the following ICD-10 codes were used: $120-$ |
| 125 , 160 -I69. |
| ** The general practice cohort includes 67,986 Dutch patients between 40-74 years of age who had no |
| history of the selected CVD at baseline (1 January 2009). Patients were allowed to have missing data for |
| the risk factors used in the risk prediction models for Globorisk. During 10 years of follow up, atotal |
| number of 5,129 events were observed. For fatal and non-fatal CVD the following ICPC codes were |
| used: K75, K90, K91. |
| CVD: cardiovascular disease; ICD: International Classification of Diseases, ICPC: International |
| Classification of Primary Care |

Table S11: Age and Systolic Blood Pressure in the EPIC-NL cohort and in the general practice cohorts at baseline

|  | EPIC-NL cohort ( $\mathrm{n}=40,011$ )* |  | general practice cohort ( $n=110,562$ ) |  |
| :---: | :---: | :---: | :---: | :---: |
| Populations | Age (years) mean $\pm$ SD | $\begin{aligned} & \text { SBP }(\mathrm{mmHg}), \\ & \text { mean } \pm \mathrm{SD} \end{aligned}$ | Age (years) mean $\pm$ SD | $\begin{aligned} & \text { SBP }(\mathrm{mmHg}), \\ & \text { mean } \pm \mathrm{SD} \end{aligned}$ |
| Source population, aged 20-70, that includes patients with CVD and/or DM | $49 \pm 12$ | $126.2 \pm 19.0$ | $\begin{aligned} & 45.1 \pm 13.4 \\ & (n=110,562) \end{aligned}$ |  |
| Source population, aged 20-70, that includes patients with CVD and/or DM, and who had a SBP measurement in the baseline period |  |  | $\begin{aligned} & 53.2 \pm 11.1 \\ & (\mathrm{n}=4,406) \end{aligned}$ | $\begin{aligned} & 141,6 \pm 15.7 \\ & (n=4,406) \end{aligned}$ |
| Eligible population, aged 40-70, who had no history of CVD and/or DM |  |  | $\begin{aligned} & 53.2 \pm 8.4 \\ & (n=62,817) \end{aligned}$ |  |
| Eligible population, aged 40-70, who had no history of CVD and/or DM, and who had a SBP measurement in the baseline period |  |  | $\begin{aligned} & 56.1 \pm 8.1 \\ & (n=3,264) \end{aligned}$ | $\begin{aligned} & 142.5 \pm 15.8 \\ & (n-3,264) \end{aligned}$ |

* The EPIC-NL cohort [18] is the source population of the SCORE-FNF cohort and consists of two merged cohorts: the Prospect cohort and the MORGEN cohort.
SBP: Systolic Blood Pressure


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