

Table 1. Characteristics of study participants, Whitehall II, UK, 1991-2004

Characteristic*	N	
Age, y	7095	48.8±5.7
Sex, %		
Male	4986	70.3
Female	2109	29.7
Ethnic group, %		
White	6465	91.1
Non-white	630	8.9
Total cholesterol, mmol/L (mg/dL)	6802	6.45 (249.7)±1.15 (44.5)
High-density lipoprotein cholesterol, mmol/L (mg/dL)	6779	1.43 (55.3)±0.41 (15.8)
Systolic blood pressure, mm Hg	6830	120.2±13.4
Antihypertensive treatment, %		
No	6670	94.4
Yes	394	5.6
Diabetes, %		
No	6896	97.2
Yes	199	2.8
Smoking, %		
No	6108	86.1
Yes	985	13.9
Working hours per day, %		
7-8	3832	54.0
9	1469	20.7
10	1058	14.9
≥11	736	10.4
Mean follow-up, y	7095	11.1±2.7
Incident coronary heart disease at follow-up		
None	6903	97.3
Non-fatal myocardial infarction	163	2.3
Coronary death	29	0.4

*Statistics are mean±SD for continuous variables or percent for categorical variables unless otherwise stated.

Table 2. Comparison of observed coronary heart disease risk with predicted risk calculated using Framingham risk score alone and in combination with working hours according to strata of predicted risk from the two models.

CHD risk by Framingham alone		CHD risk by Framingham and working hours			Total
		<5.0%	5.0% - 9.9%	≥10.0%	
<5.0%	N	6412	142	0	6554
	% reclassified	-	2.2	-	2.2%
	N of cases	139	11	0	
	Person years at risk	73,164.7	1,531.1	0	
	Observed risk	1.9%	6.9%	-	
	Predicted risk (Framingham alone vs. Framingham + work hours)	1.8% vs 1.8%	4.3% vs 6.1%	-	
5.0-9.9%	N	86	330	20	436
	% reclassified	19.7	-	4.6	24.3%
	N of cases	4	27	3	
	Person years at risk	961.0	3,515.1	220.4	
	Observed risk	4.1%	7.4%	12.7%	
	Predicted risk (Framingham alone vs. Framingham + work hours)	5.2% vs 4.7%	7.1% vs 6.9%	8.3% vs 11.7%	
≥10%	N	0	17	88	105
	% reclassified	-	16.2	-	16.2%
	N of cases	0	0	8	
	Person years at risk	-	181.8	836.7	
	Observed risk	-	0.0%	9.1%	
	Predicted risk (Framingham alone vs Framingham + work hours)	-	10.6% vs 9.7%	16.8% vs 16.9%	
Total	N	6498	489	108	7095

Table 3. Reclassification of the predicted 10-year risk of incident coronary heart disease for a risk score based on both the Framingham risk score and long working hours compared to the Framingham risk score alone.

Status at follow-up examination	CHD risk by Framingham alone	CHD risk by Framingham and working hours			Reclassified		Net correctly reclassified (%)
		<5.0%	5.0 - 9.9%	≥10.0%	Increased risk	Decreased risk	
Incident case (N=192)	<5.0%	139	11	0	14	4	5.2%
	5.0-9.9%	4	27	3			
	≥10.0%	0	0	8			
Non-case (N=6903)	<5.0%	6280	124	0	137	102	-0.5%
	5.0-9.9%	85	304	13			
	≥10.0%	0	17	80			
Net Reclassification Improvement (95% CI)		Observed					4.7% (0.3, 9.1) p=0.034
		Bootstrap					4.7% (0.8, 8.8)