

SUPPLEMENTAL MATERIAL

Table S1. The baseline characteristics of the excluded and enrolled women.

	Final Enrollment		
	No	Yes	ASMD
N	251 814	1 159 405	
Age (years)	61.98±8.65	61.19±8.29	0.0939
Height (cm)	153.28±5.78	153.6±5.7	0.0555
Weight (kg)	56.94±8.4	56.98±8.25	0.0049
BMI (kg/m ²)	24.21±3.17	24.13±3.14	0.0246
WC (cm)	80.2±8.33	79.84±8.25	0.0428
Fasting glucose (mg/dL)	99.79±24.47	99.29±23.73	0.0205
SBP (mmHg)	126±16.46	125.36±16.12	0.0392
DBP (mmHg)	77.02±10.28	76.83±10.15	0.0191
Total cholesterol (mg/dL)	208.02±38.74	208.46±38.56	0.0115
HDL-C (mg/dL)	58.9±43.97	57.71±33.18	0.0306
LDL-C (mg/dL)	125.7±39.74	126.01±38.16	0.0082
Triglyceride (mg/dL)	134.16±82.23	132.42±78.45	0.0216
Creatinine (mg/dL)	0.95±1.2	0.88±0.85	0.0693
eGFR	81.63±29.11	82.39±28.11	0.0263
Ever smoking (yes,%)	11424(4.68)	42939(3.7)	0.0487
Alcohol drinking (yes,%)	30819(13.13)	146614(12.65)	0.0143
Regular exercise (yes,%)	40240(17.2)	215488(18.59)	0.0361
Income (Q1)	49588(19.69)	252720(21.8)	0.0519
Obesity (yes,%)	95077(37.82)	423961(36.57)	0.0259
Abdominal obesity (yes,%)	70724(28.79)	314448(27.12)	0.0372
Diabetes mellitus (yes,%)	31898(12.68)	138460(11.94)	0.0225
Hypertension (yes,%)	113239(45.03)	499928(43.12)	0.0385
Dyslipidemia (yes,%)	78357(31.17)	362255(31.24)	0.0016
CKD (yes,%)	30426(12.39)	128314(11.07)	0.0410

The reported values are based on the answers provided on the questionnaire.

Among the participants who had missing data in the general health screening questionnaire (123 629, Figure 1) and in the National Cancer Screening Program questions (216 808, Figure 1), those who still had regular menstrual cycles at the time of the screening and those with a history MI or ischemic stroke were excluded. Finally, a total of 251 814 women were selected for further analyses.

N, number; ASMD, Absolute Standardized Mean Difference; BMI, body mass index; WC, Waist Circumference; SBP, systolic blood pressure; DBP, diastolic blood pressure; HDL-C, high-density lipoprotein cholesterol; LDL-C, low-density lipoprotein cholesterol; eGFR, estimated glomerular filtration rate; CKD, Chronic Kidney Disease.

Table S2. The primary outcomes in the excluded and enrolled women.

Final Enrollment	N	Event	Duration	IR	HR (95% CI)
MI					
No*	251814	7274	2530485.9	2.87	1(Ref.)
Yes	1159405	31606	11684061.8	2.71	1.007(0.982,1.033)
p-value					0.5794
Ischemic stroke					
No*	251814	10743	2512375.7	4.28	1(Ref.)
Yes	1159405	45052	11613349.3	3.88	0.99(0.969,1.011)
p-value					0.3535
All-cause mortality					
No*	251814	19584	2555723.5	7.66	1(Ref.)
Yes	1159405	77680	11795479.3	6.59	0.985(0.97,1.001)
p-value					0.0676

Model was adjusted for age.

Incidence rate in 1,000 person-years.

N, number; IR, incidence rate; HR, hazard ratio; CI, confidence interval; MI, myocardial infarction

*Among the participants who had missing data in the general health screening questionnaire (123 629, Figure 1) and in the National Cancer Screening Program questions (216 808, Figure 1), those who still had regular menstrual cycles at the time of the screening and those with a history MI or ischemic stroke were excluded. Finally, a total of 251 814 women were selected for further analyses.

Table S3. The hazard ratio for the primary outcomes in the total participants and the respective E values.

PM	N	Event	Duration	IR	Model 1	Model 2	Model 3	Model 4	E-value	
									Point	Lower
Myocardial Infarction									2.02	1.82
No	1139406	30721	11485997	2.67	1(Ref.)	1(Ref.)	1(Ref.)	1(Ref.)		
Yes	19999	885	198064.8	4.47	1.672 (1.564,1.788)	1.369 (1.28,1.464)	1.347 (1.26,1.441)	1.342 (1.255,1.435)		
Ischemic Stroke									1.7	1.53
No	1139406	43866	11417053	3.84	1(Ref.)	1(Ref.)	1(Ref.)	1(Ref.)		
Yes	19999	1186	196296.5	6.04	1.574 (1.486,1.668)	1.223 (1.154,1.296)	1.21 (1.142,1.282)	1.203 (1.135,1.275)		
All-cause mortality									1.59	1.46
No	1139406	75479	11594348	6.51	1(Ref.)	1(Ref.)	1(Ref.)	1(Ref.)		
Yes	19999	2201	201131.2	10.94	1.679 (1.61,1.752)	1.184 (1.135,1.235)	1.165 (1.117,1.216)	1.158 (1.11,1.209)		

Incidence rate in 1,000 person-years.

Model 1: none

Model 2: age

Model 3: age, ever smoking, alcohol drinking, regular exercise, and income (Q1)

Model 4: age, ever smoking, alcohol drinking, regular exercise, income (Q1), BMI, type 2 diabetes, hypertension, dyslipidemia, eGFR < 60 mL/min/1.73 m², and HRT

In order to address the possibility of unmeasured confounding in Table 1, the E-values are presented in Table S3. The E-values indicate that it is less likely that the current study had the unmeasured variables that could affect the outcomes.

PM, premature menopause; N, number; IR, incidence rate; Ref, reference; Q1, lowest quartile; BMI, body mass index; HRT, hormone replacement therapy.