

**Supplementary Table S1 Association between age at menopause, age at hysterectomy and CVD mortality.**

Age at menopause or age at hysterectomy (number of women)	Number of CVD deaths	Model I HR (95% CI)	Model II HR (95% CI)
Natural menopause			
<40 (2548)	35	3.18 (2.23, 4.52)	2.38 (1.64, 3.45)
40–44 (10 045)	81	1.59 (1.24, 2.04)	1.41 (1.09, 1.82)
45–49 (32 274)	234	1.54 (1.29, 1.84)	1.41 (1.17, 1.69)
50–52 (50 345)	261	Reference	Reference
≥53 (41 578)	235	1.00 (0.83, 1.19)	1.03 (0.85, 1.23)
Surgical menopause			
<40 (2534)	19	1.78 (1.12, 2.84)	1.40 (0.86, 2.26)
40–44 (3652)	22	1.55 (1.01, 2.40)	1.12 (0.69, 1.80)
45–49 (6064)	29	1.03 (0.70, 1.50)	0.88 (0.58, 1.33)
50–52 (3405)	24	1.16 (0.77, 1.77)	1.20 (0.78, 1.84)
≥53 (1914)	5	0.40 (0.17, 0.97)	0.44 (0.18, 1.06)
Hysterectomy			
<40 (9054)	87	1.95 (1.53, 2.48)	1.60 (1.23, 2.07)
40–44 (7953)	63	1.40 (1.06, 1.85)	1.36 (1.02, 1.81)
45–49 (4985)	20	0.64 (0.41, 1.01)	0.64 (0.40, 1.03)
50–52 (1269)	8	1.02 (0.50, 2.05)	1.01 (0.48, 2.15)
≥53 (759)	2	0.42 (0.10, 1.67)	0.45 (0.11, 1.82)

Model I: included age at menopause or age at hysterectomy; Model II: adjusted for race/ethnicity, year of birth, BMI, smoking, years of education, age at menarche, parity and family history of CVD.

CVD, cardiovascular diseases; HR, hazard ratio.