

**Supplementary Table 1. List of previous case-control studies where women in this study were previously controls. NHS 1989-1990.**

	N controls
Myocardial Infarction	481
Diabetes	580
Rheumatoid Arthritis	212
Stroke	239
Parkinson's disease	317
Colon Cancer	384
Colon Polyps	334
Breast Cancer	708
Endometrial Cancer	251
Multiple Myeloma	50
Pancreatic Cancer	171
Ovarian Cancer	227
Glaucoma	283
Peripheral Arterial Disease	264
Sudden Death	179
Within Person Stability Study	76
<b>Total</b>	<b>4756</b>

**Supplementary Table 2. Associations between IL-6 levels and incident clinical depression (broad definition) stratified by menopausal status and use of hormonal replacement therapy. NHS 1989-2010.**

	IL-6				P trend
	Q1	Q2	Q3	Q4	
<b>Premenopausal (n=449)</b>					
Number of events	24	12	9	18	
Person-years	1,369	1,463	1,426	1,381	
Age adjusted RR	1.00	0.55 (0.24-1.25)	0.32 (0.13-0.78)	0.73 (0.33-1.61)	0.29
Age and BMI adjusted RR	1.00	0.50 (0.22-1.18)	0.28 (0.11-0.73)	0.66 (0.27-1.61)	0.23
Multivariate adjusted RR <sup>1</sup>	1.00	0.25 (0.06-1.04)	0.24 (0.06-0.89)	0.48 (0.13-1.79)	0.20
<b>Hormone replacement therapy users at time of blood draw (n=1041)</b>					
Number of events	42	48	40	58	
Person-years	3,190	3,079	3,076	2,865	
Age adjusted RR	1.00	1.43 (0.86-2.37)	1.15 (0.69-1.93)	1.72 (1.04-2.82)	0.06
Age and BMI adjusted RR	1.00	1.44 (0.86-2.40)	1.16 (0.68-1.96)	1.73 (1.04-2.89)	0.06
Multivariate adjusted RR	1.00	1.78 (1.02-3.11)	1.29 (0.72-2.31)	1.93 (1.08-3.43)	0.07
<b>Never/past hormone replacement therapy users (n=1089)</b>					
Number of events	39	37	47	38	
Person-years	3,270	3,289	3,164	3,221	
Age adjusted RR	1.00	1.21 (0.71-2.04)	1.47 (0.90-2.41)	1.17 (0.68-2.01)	0.46
Age and BMI adjusted RR	1.00	1.19 (0.70-2.04)	1.41 (0.85-2.36)	1.08 (0.61-1.90)	0.71
Multivariate adjusted RR	1.00	1.27 (0.70-2.30)	1.56 (0.88-2.75)	1.21 (0.64-2.28)	0.47

<sup>1</sup>Adjusted for age, BMI (<20, 20-23, 23-25, 25-28 or ≥28 kg/m<sup>2</sup>), physical activity (METs/week in quintiles), smoking (never, past 1-24, past ≥25, current 1-24, current ≥25 packs per year), use of NSAIDs or aspirin (no use, use 1-4 days, 5-14 days, 15-21 days, ≥ 22 days/month) caffeine intake (quintiles), alcohol intake (never, <5, 5-10, 10-15 or > 15 mg/day), neighborhood socioeconomic status (quintiles), husband education (college/graduate school vs. completed high school or less), and personal education (completed master or doctorate program vs. registered nurse or bachelor) at time of blood draw.