ONLINE SUPPLEMENTARY MATERIAL

Supplementary Table 1.

HAZARD RATIOS (95% CI) FOR THE ASSOCIATION BETWEEN COVARIATES AND RHEUMATOID ARTHRITIS IN NURSES' HEALTH STUDY (NHS, 1986-2014) AND NURSES' HEALTH STUDY II (NHS II, 1993-2015), ADJUSTED FOR AGE.

Covariate	HR (95% CI)
Smoking (pack years)	\
0	1.00 (Ref)
>0 to 20	1.21 (0.94, 1.32)
20+	1.67 (1.41, 1.98)
Diet (Alternate Healthy Eating Index score)	
Quartile 1	1.00 (Ref)
Quartile 2	1.08 (0.90, 1.30)
Quartile 3	0.92 (0.76, 1.12)
Quartile 4	0.87 (0.43, 1.55)
Physical activity (metabolic equivalent	
hours per week)	
Quartile 1	1.00 (Ref)
Quartile 2	0.93 (0.75, 1.14)
Quartile 3	0.90 (0.73, 1.06)
Quartile 4	0.93 (0.34, 2.53)
Menopausal status and hormone use	
Premenopausal	1.00 (Ref)
Postmenopausal with never use	1.16 (0.87, 1.53)
Postmenopausal with current use	1.40 (1.71, 1.83)
Postmenopausal past use	1.39 (1.04, 1.85)

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Supplementary Table 2.

HAZARD RATIOS (95% CI) FOR THE ASSOCIATION BETWEEN WAIST CIRCUMFERENCE AND RHEUMATOID ARTHRITIS IN NURSES' HEALTH STUDY (NHS, 1986-2014) AND NURSES' HEALTH STUDY II (NHS II, 1993-2015), ALL MODELS

FULL COHORT	Waist circumference category HR (95% CI)						
Models	1	2	3	4	5	6	7
Model 1: Age-adjusted	0.82 (0.59, 1.14)	1.00 Ref	0.80 (0.61, 1.05)	1.05 (0.81, 1.35)	1.33 (1.03, 1.72)	1.12 (0.84, 1.72)	1.33 (1.05, 1.67)
Model 2: Model 1 + smoking	0.82 (0.59, 1.13)	1.00 Ref	0.80 (0.61, 1.05)	1.04 (0.80, 1.35)	1.32 (1.02, 1.70)	1.11 (0.83, 1.47)	1.31 (1.03, 1.65)
Model 3: Model 2 + diet	0.82 (0.59, 1.13)	1.00 Ref	0.80 (0.61, 1.04)	1.04 (0.80, 1.34)	1.31 (1.01, 1.69)	1.10 (0.83, 1.46)	1.29 (1.02, 1.63)
Model 4: Model 3 + physical activity	0.82 (0.59, 1.13)	1.00 Ref	0.80 (0.61, 1.05)	1.04 (0.80, 1.34)	1.31 (1.01, 1.69)	1.10 (0.83, 1.46)	1.29 (1.02, 1.63)
Model 5: Model 4 + menopausal status/hormone use	0.82 (0.59, 1.13)	1.00 Ref	0.80 (0.61, 1.05)	1.04 (0.80, 1.35)	1.32 (1.02, 1.70)	1.10 (0.83, 1.47)	1.30 (1.03, 1.65)
Model 6: Model 5 + body mass index	0.83 (0.60, 1.16)	1.00 Ref	0.78 (0.60, 1.03)	0.99 (0.76, 1.29)	1.23 (0.94, 1.60)	1.00 (0.75, 1.35)	1.10 (0.83, 1.47)

Category definitions for each variable: WC <27, 27-<29 (reference), 29-<31, 31-<33, 33-<35, 35-<37, and 37+ inches; smoking pack-years (0, >0-20, 20+ pack years); alternate healthy eating index (diet score quartiles); physical activity (quartiles of metabolic equivalent hours per week); menopausal status and postmenopausal hormone use (premenopausal, PMH with never use, PMH with current use, and PMH past use).

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Supplementary Table 3.

HAZARD RATIOS (95% CI) FOR THE ASSOCIATION BETWEEN WAIST CIRCUMFERENCE AND SEROPOSITIVE RHEUMATOID ARTHRITIS AMONG YOUNGER WOMEN IN NURSES' HEALTH STUDY (NHS, 1986-2014) AND NURSES' HEALTH STUDY II (NHS II, 1993-2015), ALL MODELS

SEROPOSITIVE / YOUNGER AGE	Waist circumference category HR (95% CI)							
Models	1	2	3	4	5	6	7	
Model 1: Age-adjusted	0.66 (0.36, 1.22)	1.00 Ref	0.79 (0.47, 1.34)	0.90 (0.52, 1.56)	0.95 (0.53, 1.72)	1.40 (0.78, 2.51)	1.77 (1.13, 2.79)	
Model 2: Model 1 + smoking	0.65 (0.35, 1.20)	1.00 Ref	0.79 (0.47, 1.33)	0.89 (0.52, 1.53)	0.93 (0.52, 1.68)	1.36 (0.76, 2.44)	1.72 (1.09, 2.71)	
Model 3: Model 2 + diet	0.66 (0.36, 1.22)	1.00 Ref	0.78 (0.46, 1.32)	0.86 (0.50, 1.48)	0.89 (0.49, 1.62)	1.30 (0.72, 2.33)	1.61 (1.02, 2.55)	
Model 4: Model 3 + physical activity	0.66 (0.36, 1.22)	1.00 Ref	0.78 (0.46, 1.32)	0.86 (0.50, 1.49)	0.90 (0.50, 1.63)	1.31 (0.73, 2.35)	1.66 (1.04, 2.63)	
Model 5: Model 4 + menopausal status/hormone use	0.66 (0.36, 1.22)	1.00 Ref	0.78 (0.46, 1.32)	0.87 (0.50, 1.50)	0.90 (0.50, 1.63)	1.31 (0.73, 2.35)	1.66 (1.04, 2.63)	
Model 6: Model 5 + body mass index	0.69 (0.37, 1.27)	1.00 Ref	0.75 (0.44, 1.27)	0.79 (0.45, 1.37)	0.78 (0.42, 1.43)	1.07 (0.57, 1.97)	1.12 (0.61, 2.04)	

Category definitions for each variable: WC <27, 27-<29 (reference), 29-<31, 31-<33, 33-<35, 35-<37, and 37+ inches; smoking pack-years (0, >0-20, 20+ pack years); alternate healthy eating index (diet score quartiles); physical activity (quartiles of metabolic equivalent hours per week); menopausal status and postmenopausal hormone use (premenopausal, PMH with never use, PMH with current use, and PMH past use).