

Table S1. PON1 polymorphism

Phenotype (genotype)	Control (n=70)	RA (n=74)
QQ	37	39
QR	31	29
RR	2	6

Table S2. Specific PON1 activities.

	Control (n=70)	RA (n=74)
Phenyl acetate (U/ μg)	4.71 \pm 1.04	3.41 \pm 0.62*
Paraoxon (U/ μg)		
QQ	5.72 \pm 0.56	3.52 \pm 0.47**
QR	7.85 \pm 0.84	5.82 \pm 1.03**
RR	10.2 \pm 0.66	9.18 \pm 0.53
Hcy thiolactone (nmol \times min ⁻¹ \times μg^{-1})	3.28 \pm 0.66	2.37 \pm 0.43**

*p<0.05, **p<0.01 vs. control group

Table S3. PON1 status, Hcy and Hcy thiolactone in healthy subjects and RA patients (eGFR>90 ml/min).

	Control (n=54)	RA (n=50)
PON1 polymorphism		
QQ	29	27
QR	23	20
RR	2	3
PON1 concentration (µg/ml)	22.4 ± 3.1	20.6 ± 2.3
PON1 activity toward phenyl acetate (U/ml)	122.3 ± 15.1	73.5 ± 12.3**
PON1 activity toward Hcy thiolactone (nmol × min ⁻¹ × ml ⁻¹)	84.7 ± 11.2	50.6 ± 9.6***
Total homocysteine (µM)	7.98 ± 1.01	8.26 ± 1.3
N-Hcy-protein (µM)	2.24 ± 0.82	2.66 ± 0.96*

*p<0.05, **p<0.01, ***p<0.001 vs. control group

Table S4. Serum lipids, PON1 status, Hcy and N-Hcy protein in healthy females according to menopausal status

	Before menopause (n=10)	After menopause (n=48)
Age	43.4 ± 8.56	58.8 ± 6.11***
Total cholesterol (mg/dl)	184.0 ± 29.4	220.4 ± 30.0*
LDL-cholesterol (mg/dl)	108.6 ± 17.4	129.2 ± 29.0
HDL-cholesterol (mg/dl)	56.4 ± 12.5	69.4 ± 15.8
Non-HDL cholesterol (mg/dl)	127.6 ± 19.7	150.9 ± 30.9
Triglycerides (mg/dl)	94.4 ± 35.3	108.7 ± 39.3
PON1 concentration (µg/ml)	20.7 ± 3.2	21.6 ± 2.9
PON1 activity toward Hcy thiolactone (nmol × min ⁻¹ × ml ⁻¹)	89.7 ± 11.6	85.4 ± 10.9
Total homocysteine (µM)	7.11 ± 1.12	7.44 ± 1.07
N-Hcy-protein (µM)	2.24 ± 0.82	2.66 ± 0.96

*p<0.05, ***p<0.001 vs. premenopausal group

Table S5. Serum lipids, disease activity, PON1 status, Hcy and N-Hcy protein in females with RA according to menopausal status

	Before menopause (n=21)	After menopause (n=39)
Age	39.4 ± 8.27	60.3 ± 7.18***
Total cholesterol (mg/dl)	197.8 ± 53.8	185.5 ± 56.9
LDL-cholesterol (mg/dl)	111.5 ± 36.0	105.7 ± 31.9
HDL-cholesterol (mg/dl)	66.3 ± 17.2	56.9 ± 18.2
Non-HDL cholesterol (mg/dl)	131.4 ± 52.2	128.6 ± 35.0
Triglycerides (mg/dl)	100.0 ± 48.9	114.7 ± 48.1
ESR (mm/1 h)	29.0 ± 19.4	41.3 ± 26.5
CRP (mg/l)	13.4 ± 13.7	37.4 ± 37.8**
DAS28-ESR	4.67 ± 1.36	5.51 ± 1.88
PON1 concentration (µg/ml)	23.7 ± 3.0	21.8 ± 2.9
PON1 activity toward Hcy thiolactone (nmol × min ⁻¹ × ml ⁻¹)	54.6 ± 8.2	50.5 ± 8.6
Total homocysteine (µM)	7.25 ± 1.00	8.56 ± 1.2*
N-Hcy-protein (µM)	2.59 ± 0.78	2.73 ± 0.69

*p<0.05, **p<0.01, ***p<0.001 vs. premenopausal group