Supplementary file 1: Linear regression analysis with square-root transformation of factors associated with AUSCAN pain score on cross-sectional and multivariate analysis.

	AUSCAN pain (n=778)	
	β (95% CI)	P value
Age	0.01 (-0.04 to0.01)	0.22
Sex		
Men	Ref	
Premenopausal	0.98 (0.38 to1.56)	**0.001**
Postmenopausal	0.91 (0.45 to 1.37)	**<0.001**
BMI ≥30 vs <30 kg/m²		NS
Medical history		
Coronary Heart Disease	0.72 (0.039 to 1.40)	**0.04**
Depression	0.93 (0.28 to 1.58)	**<0.001**
Alcohol consumption		
No		
Stopped	0.65 (-2.32 to 1.01)	0.44
Yes	-0.79 (-1.19 to-0.38)	**0.001**
Radiographic variables		
Baseline KL hand score	0.05 (0.03 to 0.06)	**<0.001**

Adjustment on age and BMI. KL: Kellgren-Lawrence. NS: not significant. Significant results are in bold.

Supplementary file 2: Logistic regression analysis of factors associated with presence of at least one erosive joint on cross-sectional and multivariate analysis.

	At least one erosive joint	
	OR (95% CI)	**P value**
Age	1.04 (1.00 to 1.07)	**0.025**
Sex		
Men	Ref	
Premenopausal	2.09 (0.92 to 4.7)	**0.08**
Postmenopausal	2.13 (1.10 to 4.1)	**0.02**
BMI ≥30 vs <30 kg/m^2	1.38 (0.84 to 2.24)	0.195

Adjustment on age and BMI. Significant results are in bold.

Supplementary file 3: Logistic regression analysis of factors associated with a new erosive joint on longitudinal and multivariate analysis.

	Patients with a new erosive joint	
	OR (95% CI)	**P value**
Age	1.02 (0.96 to 1.08)	0.5222
Baseline KL hand score	1.09 (1.06 to 1.14)	**<0.001**
Baseline AUSCAN score	1.07 (1.02 to 1.14)	**0.006**

Significant results are in bold.