

Supplementary Table S2 – Linear regression analyses, metacarpophalageal joints

	Δ Baseline – 1 year follow-up				Δ Baseline – 5 years' follow-up			
	Univariate		Multivariable		Univariate		Multivariable	
	β (95% CI)	p	β (95% CI)	p	β (95% CI)	p	β (95% CI)	p
HAQ								
ΔMRI Synovitis	0.03 (-0.04;0.05)	0.90			0.02 (-0.04;0.08)	0.46		
ΔMRI Tenosynovitis	0.026 (-0.02;0.07)	0.24			-0.01 (-0.08;0.07)	0.88		
ΔMRI Osteitis	-0.09 (-0.21;0.03)	0.15			0.05 (-0.18;0.28)	0.68		
ΔMRI Erosion	-0.11 (-0.34;0.11)	0.32			0.06 (-0.10;0.21)	0.48		
ΔMRI JSN	NA	NA			NA*	-		
ΔSJC	0.03 (0.02;0.05)	<0.00001			0.04 (0.02;0.06)	0.001		
ΔCRP	0.01 (0.01;0.01)	0.00002			0.01 (0.00;0.01)	0.001		
ΔMRI Inflammation*	0.01 (-0.02;0.04)	0.57			0.00 (-0.04;0.05)	0.87		
ΔMRI Damage*	-0.11 (-0.34;0.12)	0.34			0.11 (-0.05;0.27)	0.17		
VAS-PtGlobal								
ΔMRI Synovitis	1.03 (-0.96;3.03)	0.31			1.82 (-0.61;4.26)	0.14		
ΔMRI Tenosynovitis	1.64 (-0.27;3.54)	0.09			2.40 (-0.43;5.22)	0.09		
ΔMRI Osteitis	-0.89 (-6.75;4.79)	0.76			1.15 (-6.92;9.22)	0.78		
ΔMRI Erosion	8.67 (-1.88;19.23)	0.11			0.09 (-6.03;6.20)	0.98		
ΔMRI JSN	NA	NA			NA*	-		
ΔSJC	0.83 (0.13;1.53)	0.02			1.94 (1.16;2.72)	<0.00001	2.01 (0.78;3.23)	0.002
ΔCRP	0.28 (0.15;0.38)	0.00002	0.26 (0.13;0.38)	0.00007	0.22 (0.06;0.38)	0.01		
ΔMRI Inflammation*	0.94 (-0.29;2.17)	0.13			1.31 (-0.39;3.00)	0.13		
ΔMRI Damage*	8.78 (-1.80;19.36)	0.11			3.64 (-1.84;9.13)	0.19		
VAS-pain								
ΔMRI Synovitis	1.46 (-0.32;3.23)	0.11			2.11 (-0.26;4.49)	0.08		
ΔMRI Tenosynovitis	1.67 (-0.02;3.56)	0.05			3.37 (0.66;6.08)	0.02		
ΔMRI Osteitis	0.30 (-4.80;5.41)	0.91			3.45 (-4.44;11.33)	0.39		
ΔMRI Erosion	6.75 (-2.70;16.20)	0.16			1.55 (-4.51;7.62)	0.61		
ΔMRI JSN	NA	NA			NA*	-		
ΔSJC	1.01 (0.38;1.63)	0.001	0.86 (0.14;1.57)	0.02	2.20 (1.52;2.89)	<0.00001	2.24 (1.08;3.39)	0.0003
ΔCRP	0.27 (0.16;0.37)	<0.00001	0.22 (0.11;0.33)	0.0001	0.40 (0.26;0.53)	<0.00001	0.21 (0.03;0.39)	0.02
ΔMRI Inflammation*	1.21 (0.13;2.30)	0.03			1.42 (-0.14;2.97)	0.07		
ΔMRI Damage*	6.85 (-2.62;16.32)	0.16			7.46 (-13.76;28.68)	0.49		

Univariate and multivariable linear regression analyses for associations between the change of magnetic resonance imaging features in the metacarpophalangeal joints and change in patient-reported outcomes. All multivariable analyses were adjusted for sex and age. Statistically significant or borderline significant p-values ($p \leq 0.05$) are written in bold. *If combined inflammation or damage scores in univariate regression analyses had a p-value ≤ 0.10 , this was included in a separate multivariable regression model with CRP and SJC. Abbreviations: Δ : Change, MCP: Metacarpophalangeal, HAQ: Health assessment questionnaire, JSN: Joint space narrowing, SJC: Swollen joint count, CRP: C-reactive protein, PtGlobal: Patient global, VAS: Visual analogue scale. *NA: Not able to calculate due to zero change.