

Supplementary Table S4 – Linear regression analyses, total scores

	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	0.02 (-0.01;0.05)	0.20			0.03 (-0.01;0.07)	0.17		
ΔMRI Tenosynovitis	0.03 (0.01;0.05)	0.01			0.01 (-0.03;0.04)	0.69		
ΔMRI Osteitis	0.01 (-0.01;0.03)	0.26			0.02 (-0.01;0.05)	0.15		
ΔMRI Erosion	-0.01 (-0.09;0.07)	0.81			-0.02 (-0.06;0.01)	0.18		
ΔMRI JSN	0.01 (-0.12;0.13)	0.91			-0.03 (-0.10;0.04)	0.36		
ΔSJC	0.03 (0.02;0.05)	<0.00001	0.02 (0.01;0.04)	0.01	0.04 (0.02;0.06)	0.001		
ΔCRP	0.01 (0.01;0.01)	0.00002	0.01 (0.01;0.01)	<0.00001	0.01 (0.03;0.01)	0.001		
ΔMRI Inflammation*	0.01 (0.00;0.02)	0.03	0.01 (0.00;0.02)	0.03	0.01 (-0.01;0.03)	0.22		
ΔMRI Damage*	-0.01 (-0.07;0.06)	0.88			-0.01 (-0.04;0.01)	0.26		
VAS-PtGlobal								
ΔMRI Synovitis	1.34 (0.09;2.58)	0.04	1.36 (0.11;2.61)	0.03	1.68 (-0.01;3.36)	0.05		
ΔMRI Tenosynovitis	0.82 (-0.07;1.71)	0.07			0.72 (-0.50;1.94)	0.24		
ΔMRI Osteitis	0.55 (-0.20;1.30)	0.15			1.35 (0.37;2.33)	0.01	0.98 (-0.19;2.14)	0.10
ΔMRI Erosion	0.43 (-3.18;4.04)	0.81			-0.83 (-2.12;0.47)	0.21		
ΔMRI JSN	1.93 (-3.70;7.56)	0.50			-1.59 (-3.98;0.80)	0.19		
ΔSJC	0.83 (0.13;1.53)	0.02			1.94 (1.16;2.72)	<0.00001	1.77 (0.33;3.22)	0.02
ΔCRP	0.28 (0.15;0.38)	0.00002	0.25 (0.12;0.37)	0.0002	0.22 (0.06;0.38)	0.01		
ΔMRI Inflammation*	0.44 (0.00;0.88)	0.05			0.88 (0.03;1.32)	0.04		
ΔMRI Damage*	0.79 (-2.17;3.76)	0.60			-0.51 (-1.36;0.33)	0.23		
VAS-pain								
ΔMRI Synovitis	1.64 (0.54;2.75)	0.004	1.37 (0.29;2.45)	0.01	2.34 (0.73;3.95)	0.01		
ΔMRI Tenosynovitis	0.88 (0.08;1.67)	0.03			1.34 (0.18;2.50)	0.02		
ΔMRI Osteitis	0.43 (-0.24;1.10)	0.21			1.60 (0.68;2.51)	0.001	1.13 (0.06;2.19)	0.04
ΔMRI Erosion	-0.59 (-3.79;2.62)	0.72			-1.01 (-2.26;0.25)	0.11		
ΔMRI JSN	2.84 (-2.59;8.27)	0.30			-1.33 (-3.68;1.01)	0.26		
ΔSJC	1.01 (0.38;1.63)	0.001			2.20 (1.52;2.89)	<0.00001	1.05 (-0.39;2.48)	0.15
ΔCRP	0.27 (0.16;0.37)	<0.00001	0.23 (0.12;0.34)	0.00008	0.40 (0.26;0.53)	<0.00001	0.25 (0.07;0.43)	0.01
ΔMRI Inflammation*	0.44 (0.05;0.83)	0.03			1.00 (0.38;1.56)	0.002	0.60 (-0.01;1.19)	0.05

ΔMRI Damage*	0.27 (-2.40;2.93)	0.85			-0.58 (-1.41;0.25)	0.17		
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Univariate and multivariable linear regression analyses for associations between the change of magnetic resonance imaging features for total scores 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, HAQ: Health assessment questionnaire, JSN: Joint space narrowing, SJC: Swollen joint count, CRP: C-reactive protein, PtGlobal: Patient global, VAS: Visual analogue scale.