

Supplementary Table S6 – Linear regression analyses, wrist sub-group

	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	0.05 (0.00;0.10)	0.04			0.07 (-0.01;0.15)	0.10		
ΔMRI Tenosynovitis	0.04 (0.01;0.07)	0.004			0.01 (-0.03;0.06)	0.51		
ΔMRI Osteitis	0.01 (-0.01;0.03)	0.18			0.02 (-0.01;0.05)	0.15		
ΔMRI Erosion	0.01 (-0.08;0.09)	0.89			-0.03 (-0.06;0.01)	0.12		
ΔMRI JSN	-0.01 (-0.15;0.13)	0.88			-0.03 (-0.10;0.03)	0.32		
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 (0.00;0.01)	0.001	0.01 (0.00;0.01)	0.04
ΔMRI Inflammation*	0.01 (0.00;0.03)	0.03			0.02 (-0.00;0.04)	0.11		
ΔMRI Damage*	0.00 (-0.07;0.07)	0.98			-0.02 (-0.04;0.01)	0.18		
VAS-PtGlobal								
ΔMRI Synovitis	2.93 (0.79;5.07)	0.01	2.50 (0.38;4.62)	0.02	3.25 (0.04;6.46)	0.05		
ΔMRI Tenosynovitis	0.92 (-0.29;2.12)	0.13			0.56 (-1.11;2.25)	0.50		
ΔMRI Osteitis	0.58 (-0.18;1.34)	0.13			1.40 (0.40;2.41)	0.01	1.04 (-0.15;2.23)	0.09
ΔMRI Erosion	-0.60 (-4.75;3.55)	0.78			-0.87 (-2.21;0.47)	0.20		
ΔMRI JSN	1.47 (-5.00;7.94)	0.65			-1.87 (-4.32;0.58)	0.13		
ΔSJC	0.83 (0.13;1.53)	0.02			1.94 (1.16;2.72)	<0.00001	1.79 (0.35;3.22)	0.02
ΔCRP	0.28 (0.15;0.38)	0.00002	0.23 (0.10;0.36)	0.001	0.22 (0.06;0.38)	0.01		
ΔMRI Inflammation*	0.39 (-0.17;0.94)	0.17			0.90 (0.07;1.72)	0.03		
ΔMRI Damage*	-0.01 (-3.42;3.40)	1.00			-0.62 (-1.49;0.24)	0.16		
VAS-pain								
ΔMRI Synovitis	3.19 (1.28;5.10)	0.001	1.94 (-0.02;3.90)	0.05	4.94 (1.93;7.95)	0.002		
ΔMRI Tenosynovitis	0.99 (-0.09;2.07)	0.07			1.44 (-0.18;3.07)	0.08		
ΔMRI Osteitis	0.43 (-0.25;1.11)	0.21			1.63 (0.69;2.56)	0.001	1.23 (0.22;2.23)	0.02
ΔMRI Erosion	-1.72 (-5.40;1.98)	0.36			-1.14 (-2.43;0.15)	0.08		
ΔMRI JSN	3.07 (-3.34;9.49)	0.35			-1.55 (-3.96;0.85)	0.20		
ΔSJC	1.01 (0.38;1.63)	0.001	0.69 (-0.09;1.47)	0.08	2.20 (1.52;2.89)	<0.00001	1.70 (0.38;3.02)	0.01
ΔCRP	0.27 (0.16;0.37)	<0.00001	0.18 (0.06;0.30)	0.003	0.40 (0.26;0.53)	<0.00001	0.23 (0.05;0.41)	0.01
ΔMRI Inflammation*	0.34 (-0.16;0.84)	0.18			1.22 (0.46;1.92)	0.002	0.81 (0.07;1.54)	0.03

ΔMRI Damage*	-0.49 (-3.57;2.61)	0.76			-0.71 (-1.56;0.13)	0.10		
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Univariate and multivariable linear regression analyses for associations between the change of magnetic resonance imaging features for wrist scores in patients having 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.