

Supplementary Table S9 Univariate and multivariable generalized estimating equations using data without imputations

	Status				Change			
	Univariate		Multivariable		Univariate		Multivariable	
	B (95% CI)	p	B (95% CI)	p	B (95% CI)	p	B (95% CI)	p
HAQ**								
MRI synovitis	0.06 (0.04;0.07)	<0.001	0.00 (-0.02;0.02)	0.91	0.08 (0.04;0.12)	<0.001	-0.01 (-0.04;0.03)	0.59
MRI tenosynovitis	0.04 (0.03;0.05)	<0.001	0.01 (0.00;0.02)	0.12	0.07 (0.04;0.09)	<0.001	0.02 (0.00;0.04)	0.05
MRI osteitis	0.01 (0.01;0.02)	<0.001	0.004 (0.00;0.01)	0.03	0.02 (0.01;0.04)	0.001	0.01 (0.00;0.02)	0.03
MRI erosion	-0.03 (-0.11;0.05)	0.51			0.03 (-0.14;0.20)	0.73		
MRI JSN	-0.02 (-0.09;0.06)	0.67			-0.05 (-0.25;0.16)	0.64		
MRI combined inflammation	0.02 (0.01;0.02)	<0.001	0.005 (0.00;0.01)	0.003	0.03 (0.01;0.04)	<0.001	0.01 (0.00;0.02)	0.01
MRI combined damage	-0.05 (-0.12;0.02)	0.16			-0.01 (-0.17;0.16)	0.93		
VAS-PtGlobal**								
MRI synovitis	0.10 (0.08;0.12)	<0.001	0.01 (-0.02;0.03)	0.58	4.05 (2.49;5.60)	<0.001	1.76 (0.30;3.22)	0.02
MRI tenosynovitis	0.06 (0.05;0.07)	<0.001	0.01 (-0.01;0.02)	0.28	2.12 (1.14;3.09)	<0.001	-0.09 (-1.11;0.92)	0.86
MRI osteitis	0.01 (0.00;0.02)	0.004	0.00 (0.00;0.01)	0.86	0.90 (0.22;1.58)	0.01	0.19 (-0.27;0.64)	0.42
MRI erosion	-0.09 (-0.20;0.02)	0.11			-2.01 (-9.24;5.22)	0.59		
MRI JSN	-0.03 (-0.16;0.10)	0.65			-2.77 (-10.78;5.24)	0.50		
MRI combined inflammation	0.02 (0.01;0.03)	<0.001	0.00 (0.00;0.01)	0.10	0.96 (0.48;1.45)	<0.001	0.43 (0.06;0.79)	0.02
MRI combined damage	-0.09 (-0.20;0.02)	0.12			-3.52 (-10.30;3.27)	0.31		
VAS-pain**								
MRI synovitis	0.09 (0.05;0.13)	<0.001	0.02 (-0.01;0.04)	0.19	4.54 (3.11;5.99)	<0.001	2.19 (0.85;3.53)	0.001
MRI tenosynovitis	0.05 (0.03;0.06)	<0.001	0.01 (0.00;0.03)	0.18	2.20 (1.30;3.10)	<0.001	-0.03 (-0.93;0.88)	0.95
MRI osteitis	0.01 (0.00;0.02)	0.20			0.89 (0.21;1.57)	0.01	0.21 (-0.27;0.68)	0.39
MRI erosion	-0.06 (-0.17;0.05)	0.28			-2.33 (-9.18;4.51)	0.50		
MRI JSN	0.01 (-0.10;0.12)	0.83			-1.24 (-9.09;6.61)	0.76		
MRI combined inflammation	0.02 (0.01;0.02)	<0.001	0.00 (0.00;0.01)	0.17	1.02 (0.55;1.49)	<0.001	0.48 (0.11;0.86)	0.01
MRI combined damage	-0.08 (-0.19;0.03)	0.15			-3.64 (-10.03;2.74)	0.26		

Association between magnetic resonance imaging (MRI) parameters and patient-reported outcomes for status scores and change scores. All generalized estimating equations (GEE) were adjusted for age and sex. MRI parameters with a univariate p-value ≤ 0.10 were included in multivariable GEE analysis where CRP and SJC were incorporated. *If sum scores in univariate GEE had a p-value ≤ 0.10 , this was included in a separate multivariable GEE model with CRP and SJC. **Log-transformed for status scores. Abbreviations: HAQ: Health assessment questionnaire, JSN: Joint space narrowing, PtGlobal: Patient global, VAS: Visual analogue scale.