

S1 – Structural lesions in the sacroiliac joints of 151 patients included in the DESIR cohort at baseline. 2-year and 5-year follow up.

	Baseline mean (SD)	2 years mean (SD) (n=136)	5 years mean (SD)	Change over 5 years mean (SD)	p-value®
Number of erosions (0-40)					
Reader 1	1.4 (2.8)	1.4 (2.9)	1.6 (3.1)	0.1 (1.9)	0.352
Reader 2	1.0 (2.3)	1.0 (2.5)	1.2 (2.6)	0.2 (2.1)	0.239
Reader 3	0.7 (1.5)	0.9 (1.7)	0.9 (1.9)	0.2 (1.7)	0.074
Mean score**	1.0 (1.9)	1.1 (2.0)	1.2 (2.1)	0.2 (1.4)	0.085
ICC (95% CI)	0.6 (0.5 – 0.6)	0.5 (0.4 – 0.6)	0.5 (0.4 – 0.6)	0.3 (0.2 – 0.4)	
Number of fatty lesions (0-40)					
Reader 1	1.1 (3.0)	1.6 (4.0)	1.9 (4.7)	0.9 (2.4)	<0.001
Reader 2	0.8 (2.2)	1.4 (3.7)	1.6 (3.6)	0.8 (2.3)	<0.001
Reader 3	1.4 (3.3)	2.0 (4.5)	2.2 (4.6)	0.8 (3.1)	<0.001
Mean score**	1.1 (2.6)	1.7 (4.0)	1.9 (4.1)	0.8 (2.2)	<0.001
ICC (95% CI)	0.8 (0.7 – 0.8)	0.9 (0.9 – 0.9)	0.8 (0.7 – 0.8)	0.6 (0.5 – 0.6)	
Number of fatty lesions and / or erosions (0-80)					
Reader 1	2.5 (4.9)	3.0 (5.8)	3.5 (6.5)	1.0 (3.2)	
Reader 2	1.7 (3.7)	2.5 (4.9)	2.8 (5.0)	1.0 (2.9)	<0.001
Reader 3	2.1 (4.0)	2.8 (5.2)	3.2 (5.3)	1.0 (3.6)	<0.001
Mean score** (2.1 (3.9)	2.8 (5.0)	3.1 (5.1)	1.0 (2.6)	<0.001
ICC (95% CI)	0.8 (0.7 – 0.8)	0.8 (0.8 – 0.9)	0.7 (0.7 – 0.8)	0.5 (0.4 – 0.6)	
Total number of lesions (0-144)™					
Reader 1	2.8 (5.4)	3.4 (6.7)	4.1 (7.8)	1.4 (3.6)	<0.001
Reader 2	2.3 (4.6)	3.2 (6.4)	3.7 (6.8)	1.4 (3.5)	<0.001
Reader 3	2.7 (4.7)	3.4 (6.4)	3.8 (6.3)	1.1 (3.8)	<0.001
Mean score**	2.6 (4.5)	3.3 (6.2)	3.9 (6.5)	1.3 (3.1)	<0.001
ICC (95% CI)	0.8 (0.7 – 0.8)	0.9 (0.8 – 0.9)	0.8 (0.8 – 0.9)	0.6 (0.5 – 0.7)	

*MRI-SIJ T1-w sequences were complete for 151 cases, in one case MRI-SIJ STIR sequence was missing at five years. ®Paired samples T-test. **Mean of 3 readers. ™Fatty lesions, erosions, sclerosis, partial ankylosis/total ankylosis. ICC, Intra-class correlation coefficient ; CI, Confidence Interval; NC, not calculated.