S2 – Structural lesions in the spine of patients included in the DESIR cohort at baseline, 2-year and

5-year follow up.

	Baseline mean (SD)	2 years mean (SD) (n=129)	5 years mean (SD)	Change over 5 years mean (SD)	p-value®
Number of erosions (0-92)					
Reader 1 (n=145*)	0.1 (0.4)	0.0 (0.3)	0.2 (0.3)	0.0 (0.5)	1.000
Reader 2 (n=143*)	0.1 (0.4)	0.1 (0.5)	0.2 (0.5)	0.1 (0.4)	**0.010**
Reader 3 (n=143*)	0.0 (0.3)	0.1 (0.3)	0.0 (0.2)	0.0 (0.0)	1.000
Mean score**¥ (n=141*)	**0.1 (0.2)**	**0.1 (0.2)**	**0.1 (0.2)**	**0.0 (0.2)**	1.000
ICC (95% CI)	0.0 (-0.1 – 0.1)	0.1 (0.0 – 0.2)	0.0 (-0.1 – 0.1)	0.0 (-0.1 – 0.1)	
Number of bone spurs (0-92)					
Reader 1 (n=145*)	0.0 (0.0)	0(0)	0.1 (0.4)	0.1 (0.4)	0.059
Reader 2 (n=143*)	0.1 (0.4)	0.1 (0.4)	0.1 (0.4)	0.0 (0.1)	0.083
Reader 3 (n=143*)	0.3 (0.9)	0.4 (0.9)	0.4 (0.9)	0.1 (0.6)	0.115
Mean score**¥ (n=141*)	**0.1 (0.3)**	**0.2 (0.3)**	**0.2 (0.4)**	**0.1 (0.3)**	**0.012**
ICC (95% CI)	0.0 (-0.1 – 0.1)	0.0 (0.0 – 0.2)	0.0 (-0.1 – 0.1)	0.0 (-0.1 – 0.1)	
Number of fatty lesions (0-92)					
Reader 1 (n=145*)	0.2 (0.9)	0.2 (0.8)	0.2 (1.0)	0.0 (0.5)	0.733
Reader 2 (n=143*)	0.3 (0.8)	0.4 (1.0)	0.5 (1.2)	0.2 (0.8)	**0.004**
Reader 3 (n=143*)	0.2 (0.8)	0.3 (1.0)	0.4 (1.2)	0.2 (0.7)	**0.004**
Mean score**¥ (n=141*)	**0.2 (0.7)**	**0.3 (0.8)**	**0.4 (1.0)**	**0.1 (0.4)**	**0.001**
ICC (95% CI)	0.6 (0.6 – 0.7)	0.5 (0.4 – 0.6)	0.7 (0.6 – 0.7)	0.3 (0.2 – 0.4)	
Number of fatty lesions and / or erosions (0-184)					
Reader 1 (n=145*)	0.2 (1.0)	0.2 (1.0)	0.2 (1.1)	0.0 (1.1)	0.817
Reader 2 (n=143*)	0.4 (1.1)	0.5 (1.3)	0.7 (1.5)	0.3 (0.9)	**<0.001**
Reader 3 (n=143*)	0.2 (0.9)	0.4 (1.1)	0.4 (1.3)	0.2 (0.8)	**0.005**
Mean score**¥ (n=141*)	**0.3 (0.8)**	**0.3 (1.0)**	**0.4 (1.1)**	**0.2 (0.5)**	**<0.001**
ICC (95% CI)	0.6 (0.5 - 0.7)	0.5 (0.5 – 0.6)	0.6 (0.5 – 0.7)	0.2 (0.1 – 0.3)	
Total number of lesions (0-322)∞					
Reader 1 (n=145*)	0.3 (1.1)	0.2 (1.1)	0.4 (1.3)	0.1 (0.9)	0.223
Reader 2 (n=143*)	0.5 (1.2)	0.6 (1.4)	0.7 (1.6)	0.3 (0.9)	**<0.001**
Reader 3 (n=143*)	0.6 (1.2)	0.8 (1.6)	0.9 (1.6)	0.3 (1.1)	**0.002**
Mean score**¥ (n=141*)	**0.4 (0.9)**	**0.5 (1.1)**	**0.6 (1.2)**	**0.2 (0.6)**	**<0.001**
ICC (95% CI)	0.5 (0.4 – 0.6)	0.4 (0.3 – 0.5)	0.5 (0.4 – 0.6)	0.2 (0.1 – 0.3)	

®*Paired samples T-test. *Number of cases included for 5-year analysis; 2-year data excluded in 5-year analysis. **Mean of 3*

readers. ¥Missing data from at least one time point and one reader for 4 cases. ∞Fatty lesions, erosions, bone spurs,

ankylosis. ICC, Intra-class correlation coefficient ; CI, Confidence Interval; NC, Not possible to calculate.