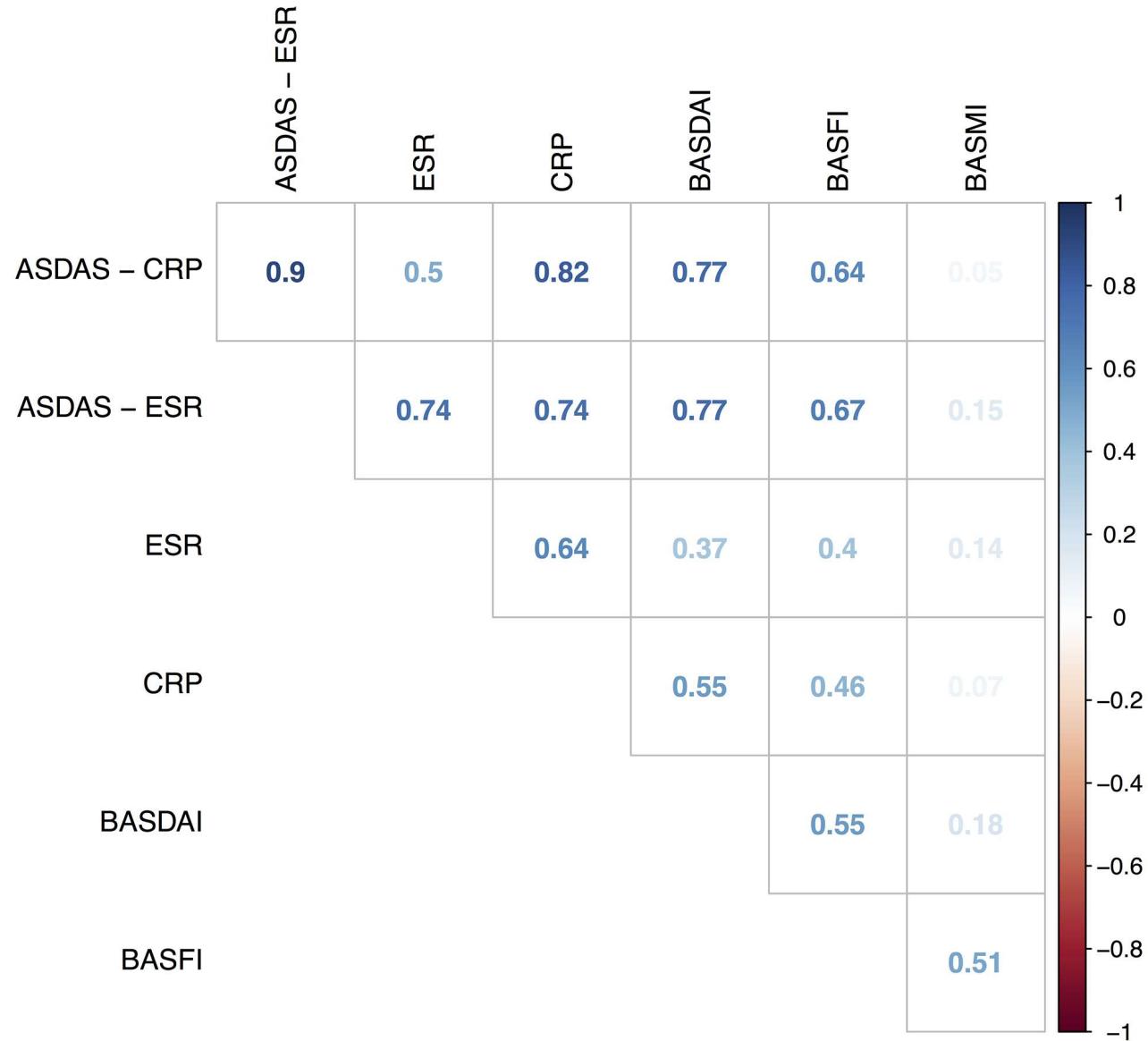
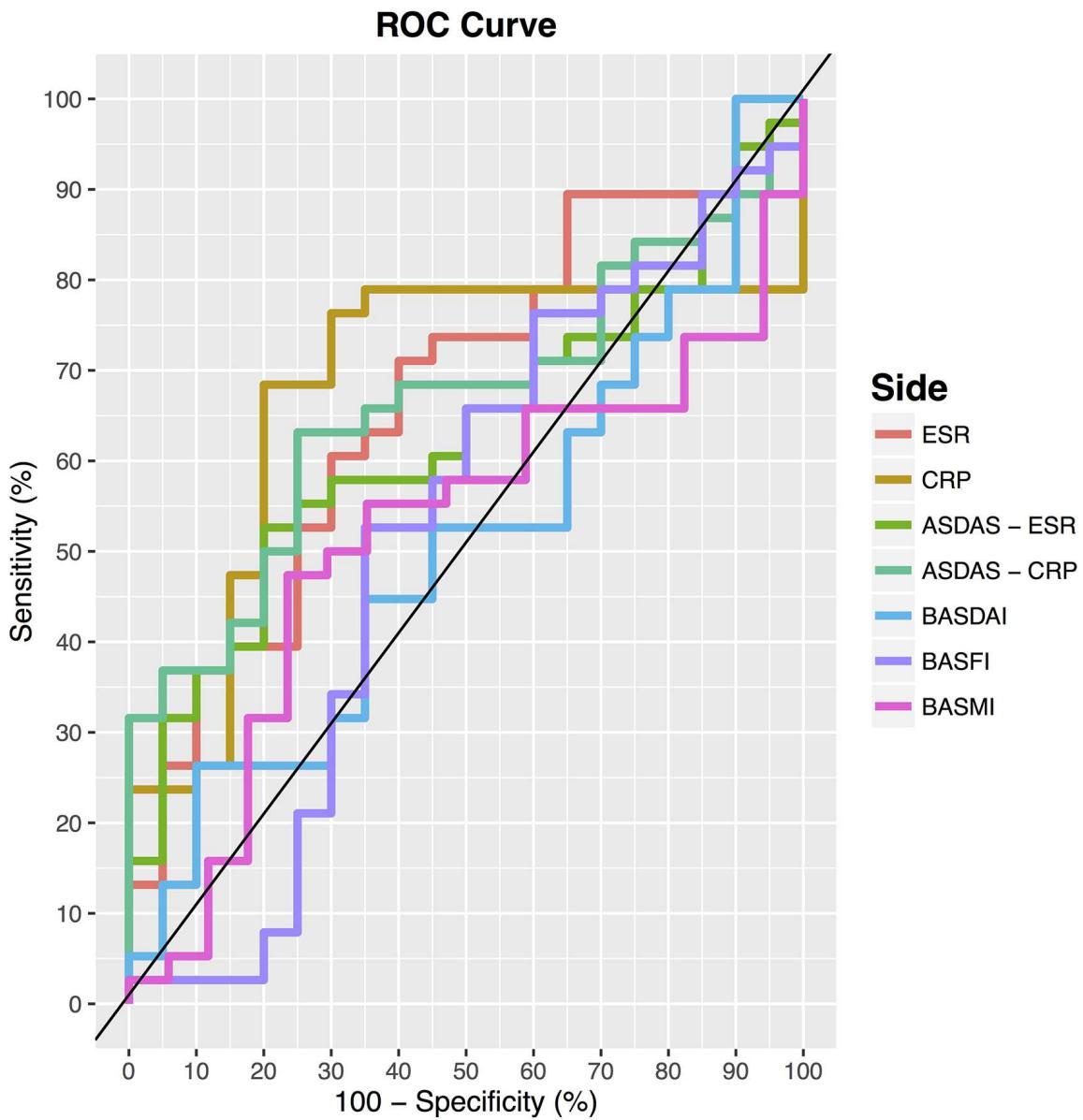


Online supplement to
 Diffusion-weighted
 Imaging Is a
 Sensitive and
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 Sequence in the
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 Spondylitis, The
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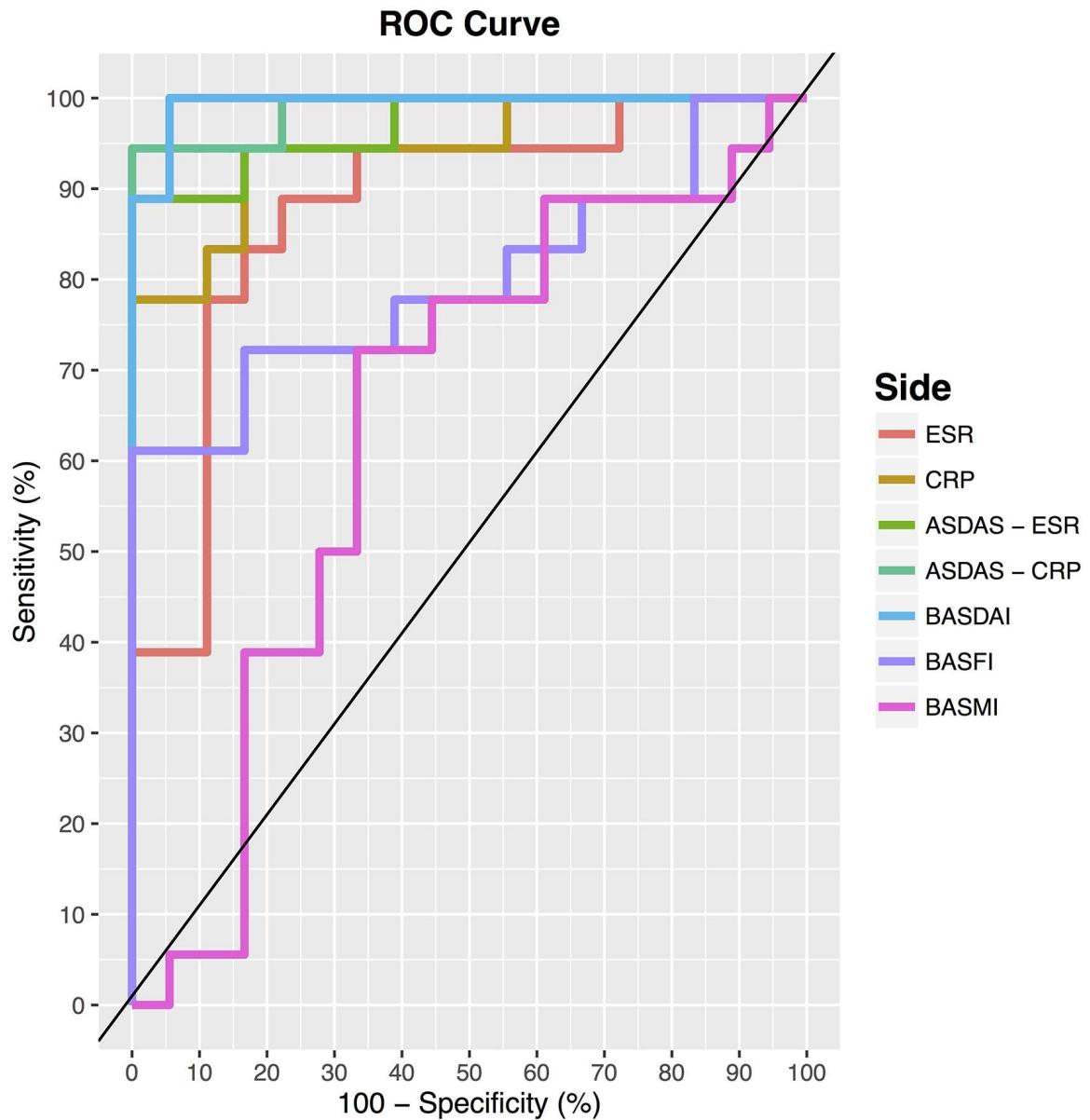
Supplementary Figure S1. Correlation between non-imaging assessment measures used, including BASDAI, ASDAS-CRP, ASDAS-ESR, CRP, ESR, BASFI, and BASMI. Correlation coefficients are given in the boxes in the bottom left. Group 1 patients pre-treatment are indicated in green and post-treatment in red, Group 2 patients are indicated in pink and Group 3 in yellow.



Supplementary Figure S2. Correlations between non-imaging assessment measures of disease activity measures in Active patients.



Supplementary Figure S3. ROC curves for disease activity measures comparing active disease with controls. AUC values are: ESR, 0.69; CRP, 0.74; ASDAS-ESR, 0.64; ASDAS-CRP, 0.67; BASDAI, 0.51; BASFI, 0.52; and BASMI, 0.54.



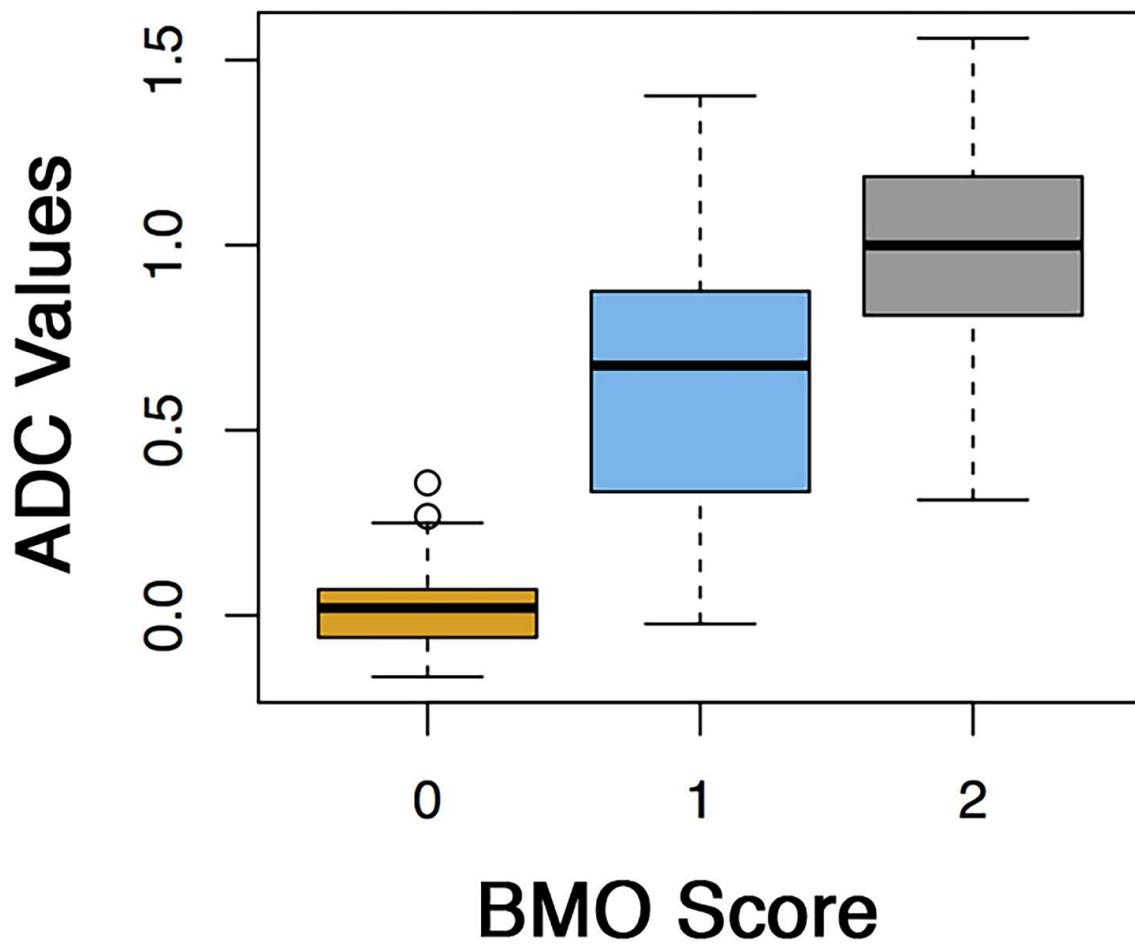
Supplementary Figure S4. ROC curves for disease activity measures comparing Group 1 patients pre- and post-treatment. AUC values are: ESR, 0.88; CRP, 0.95; ASDAS-ESR, 0.97; ASDAS-CRP, 0.99; BASDAI, 0.99; BASFI, 0.81; and BASMI, 0.65.

Supplementary Table S1.

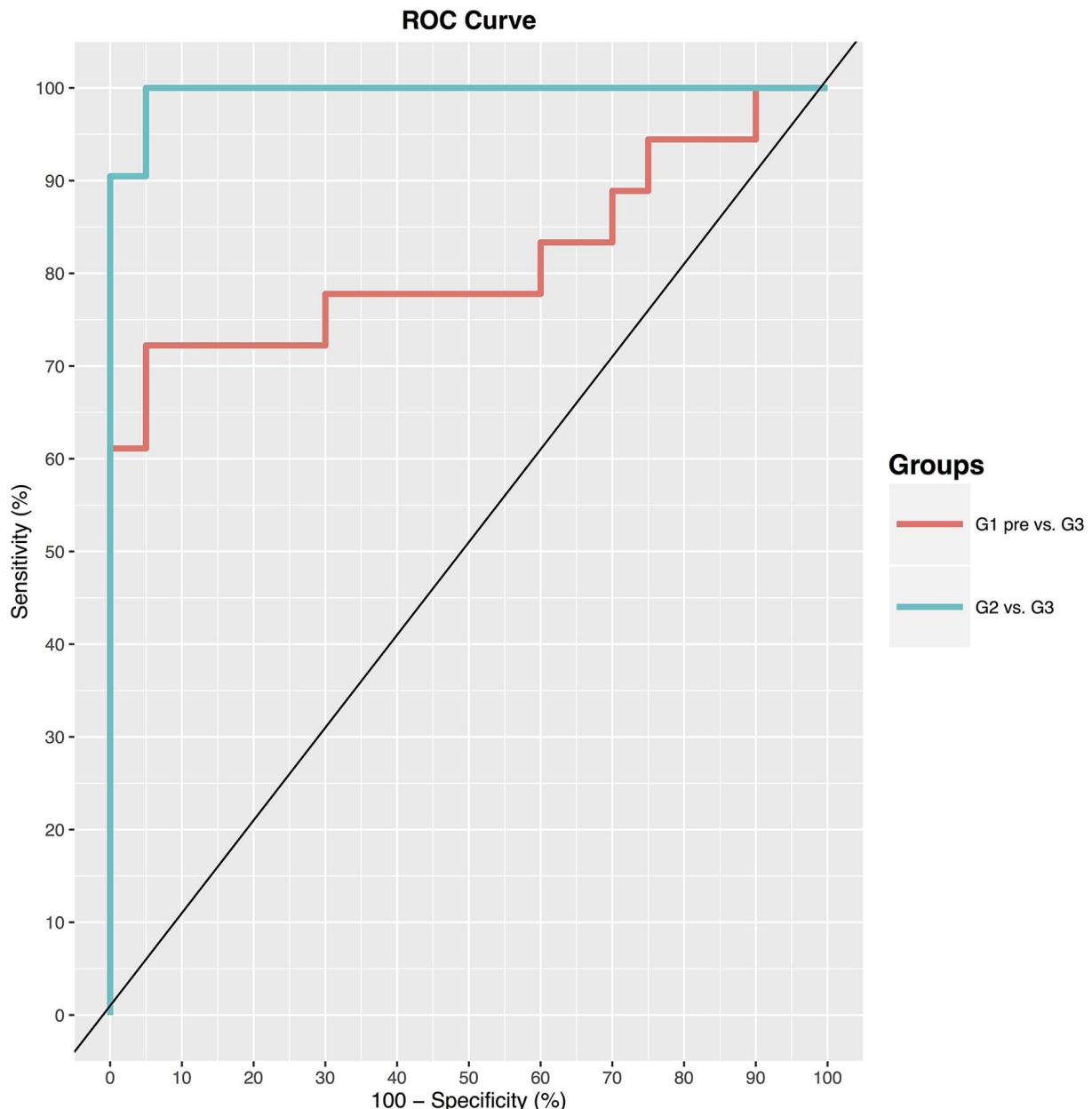
P-values for comparison of left and right sacroiliac ADC values (duplicate measurements averaged) compared with sacral ADC values.

	SACROILIAC ROI	
	Left	Right
GROUP 1 PRE-TREATMENT	0.00018	0.0011
GROUP 1 POST-TREATMENT	0.0047	0.083
GROUP 2	3.13×10^{-5}	3.14×10^{-5}
GROUP 3	0.61	0.37

ROI: regions of interest; ADC: apparent diffusion coefficient.



Supplementary Figure S5. ADC DWI scores were strongly associated with conventional MRI STIR intensity for the active group. Mean sacroiliac ADC values (y-axis) for given BMO scores based on STIR sequences (x-axis). The mean ADC value for BMO score 0 was 0.03 (standard deviation 0.13), score 1 was 0.63 (0.34) and score 2 was 0.97 (0.29).



Supplementary Figure S6. ROC curve analysis for comparison of Corrected values for different groups. Group 1 pre-treatment vs Group 3 subjects AUC=0.81, $P=6.4 \times 10^{-4}$. Group 2 vs Group 3 subjects AUC=1, $P=3 \times 10^{-11}$.